Q NO: 1f

Refer to the exhibit.

```
R1@show ip route
Codes:  C - connected, S - static, R - RIP, M - mobile, B - BGP
        D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
        N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
        E1 - OSPF external type 1, E2 - OSPF external type 2
        i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
        ia - IS-IS inter area, * - candidate default, U - per-user static route
        o - ODR, P - periodic downloaded static route

Gateway of last resort is 192.168.14.4 to network 0.0.0.0

C   192.168.12.0/24 is directly connected, FastEthernet0/0
C   192.168.13.0/24 is directly connected, FastEthernet0/1
C   192.168.14.0/24 is directly connected, FastEthernet1/0
    192.168.10.0/24 is variably subnetted, 3 subnets, 3 masks
O       192.168.10.0/24 [110/2] via 192.168.14.4, 00:02:01, FastEthernet1/0
O       192.168.10.32/27 [110/11] via 192.168.13.3, 00:00:52, FastEthernet0/1
O       192.168.0.0/16 [110/2] via 192.168.15.5, 00:05:01, FastEthernet1/1
D       192.168.10.1/32 [90/52778] via 192.168.12.2, 00:03:44, FastEthernet0/0
O*E2 0.0.0.0/0 [110/1] via 192.168.14.4, 00:00:10, FastEthernet1/0
```

If R1 receives a packet destined to 172.16.1.1, to which IP address does it send the packet?

- A. 192.168.14.4
- B. 192.168.12.2
- C. 192.168.13.3
- D. 192.168.15.5

Correct Answer: A

Q NO: 2

What is a difference between local AP mode and FlexConnet AP mode?

A. Local AP mode creates two CAPWAP tunnels per AP to the WLC
B. FlexConnect AP mode fails to function if me AP loses connectivity with the WLC
C. FlexConnect AP mode bridges the traffic from the AP to the WLC when local switching is configured
D. Local AP mode causes the AP to behave as if it were an autonomous AP
Answer: A

Q NO: 3
A wireless administrator has configured a WLAN; however, the clients need access to a less congested 5-GHz network for their voice quality. What action must be taken to meet the requirement?

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A. enable AAA override
B. enable RX-SOP
C. enable DTIM
D. enable Band Select

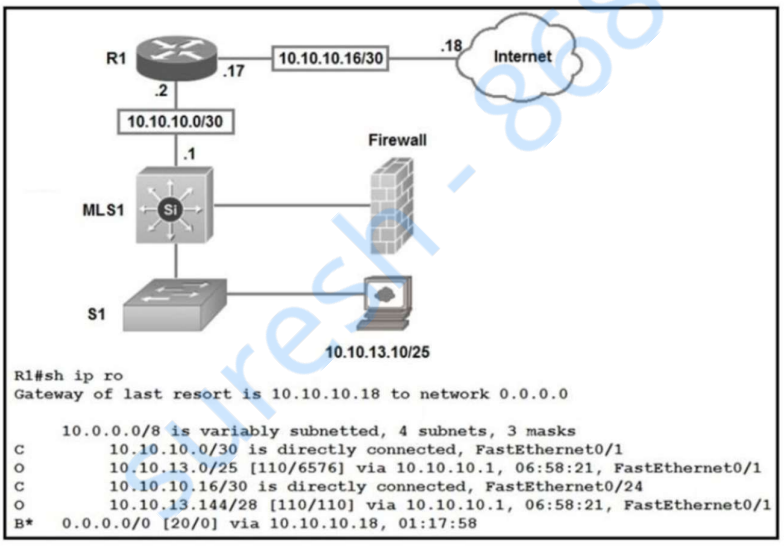
Answer: D

Q NO: 4

Which HTTP status code is returned after a successful REST API request?
A. 200
B. 301
C. 404
D. 500
Answer: A

Q NO: 5

Refer to the exhibit.



Which route type is configured to reach the internet?

- A. floating static route
- B. host route
- C. default route
- D. network route

Correct Answer: C

Q NO: 6

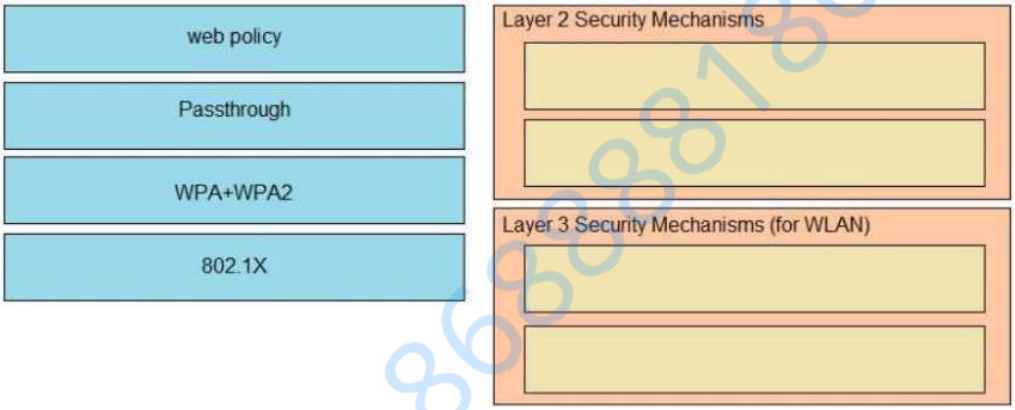
A router running EIGRP has learned the same route from two different paths. Which parameter does the router use to select the best path?

- A. cost
- B. adminstrative distance
- C. metric
- D. as-path

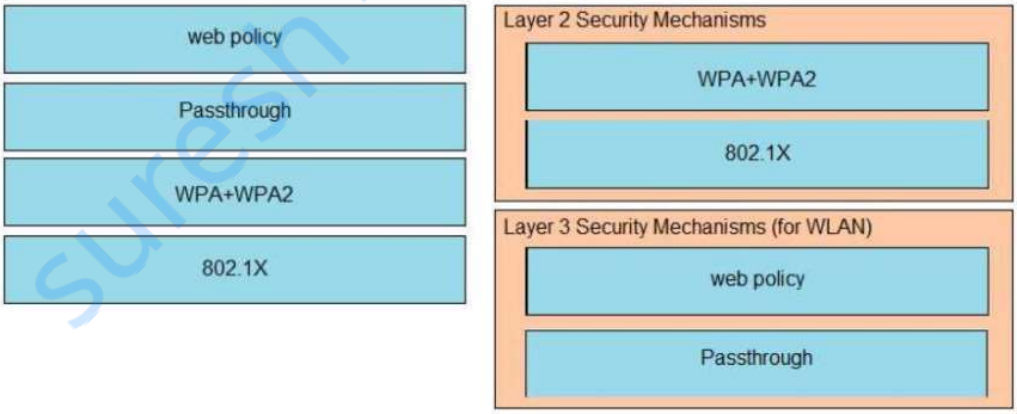
Correct Answer: C

Drag and drop the Cisco Wireless LAN Controller security settings from the left onto the correct security mechanism categories on the right.

Select and Place:



Correct Answer:



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Q NO: 8

An engineer must configure traffic for a VLAN that is untagged by the switch as it crosses a trunk link. Which command should be used?

- A. switchport trunk allowed vlan 10

- B. switchport trunk native vlan 10
- C. switchport mode trunk
- D. switchport trunk encapsulation dot1q

Correct Answer: B

Q NO: 9

Which design element is a best practice when deploying an 802.11b wireless infrastructure?

- A. disabling TPC so that access points can negotiate signal levels with their attached wireless devices
- B. setting the maximum data rate to 54 Mbps on the Cisco Wireless LAN Controller
- C. allocating nonoverlapping channels to access points that are in close physical proximity to one another
- D. configuring access points to provide clients with a maximum of 5 Mbps

Correct Answer: C

Q NO: 10

Which function is performed by the collapsed core layer in a two-tier architecture?

- A. enforcing routing policies
- B. marking interesting traffic for data polices
- C. attaching users to the edge of the network
- D. applying security policies

Correct Answer: A

Q NO: 11

Which mode must be used to configure EtherChannel between two switches without using a negotiation protocol?

- A. on
- B. auto
- C. active
- D. desirable

Correct Answer: A

Q NO: 12

Drag and drop the SNMP manager and agent identifier commands from the left onto the functions on the right.

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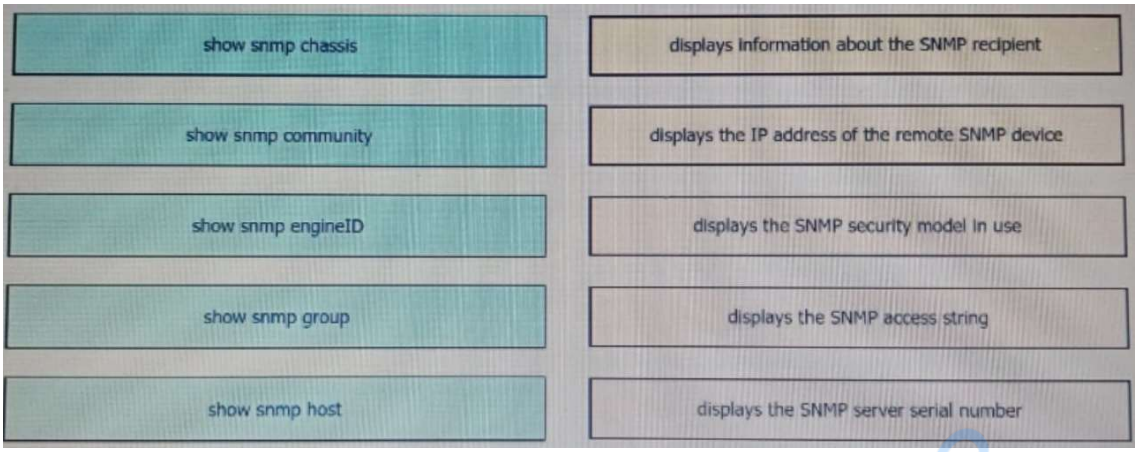

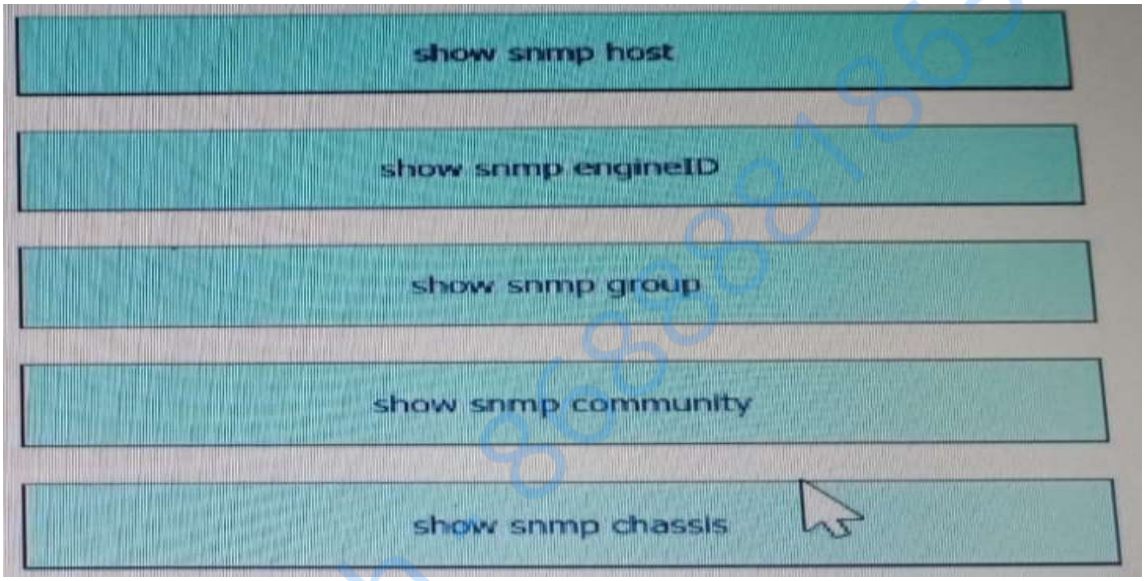

Q NO: 13

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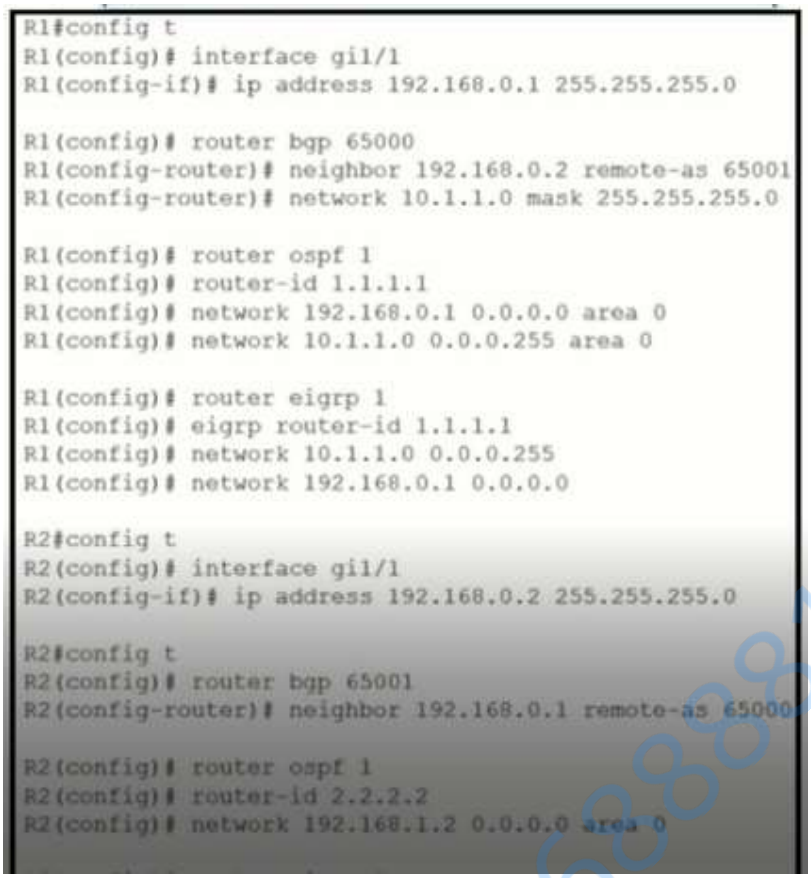

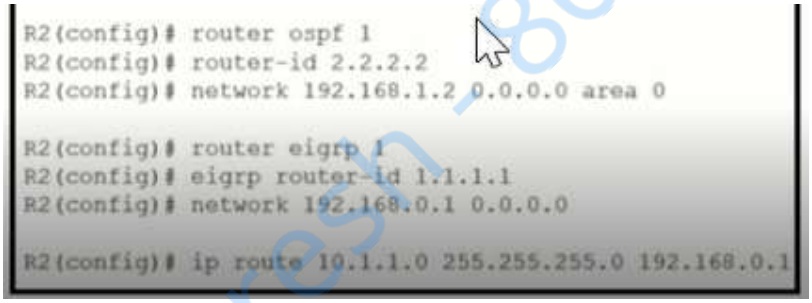

Router R2 is configured with multiple routes to reach network 10 1.1.0/24 from router R1. What protocol is chosen by router R2 to reach the destination network 10.1.1.0/24?

A. eBGP
- B. static
- C. OSPF
- D. EIGRP

Correct Answer: B

Q NO: 14

How does QoS optimize voice traffic?
A.by reducing bandwidth usage

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B. by reducing packet loss
C. by differentiating voice and video traffic
D. by increasing jitter

Answer: C

Q NO: 15

Which switch technology establishes a network connection immediately when it is plugged in?

- A. PortFast
- B. BPDU guard
- C. UplinkFast
- D. BackboneFast

Correct Answer: C

Q NO: 16

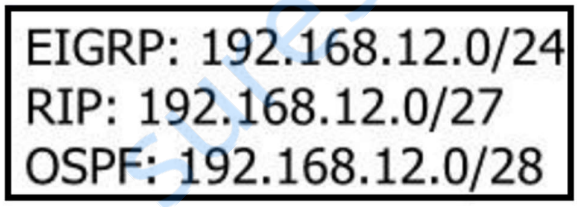
What are two reasons for an engineer to configure a floating state route? (Choose two)

- A. to automatically route traffic on a secondary path when the primary path goes down
- B. to route traffic differently based on the source IP of the packet
- C. to enable fallback static routing when the dynamic routing protocol fails
- D. to support load balancing via static routing
- E. to control the return path of traffic that is sent from the router

Correct Answer: A C

Q NO: 17

Refer to the exhibit. How does the router manage traffic to 192.168.12.16?



- A. It selects the RIP route because it has the longest prefix inclusive of the destination address
- B. It chooses the OSPF route because it has the longest prefix inclusive of the destination address
- C. It load-balances traffic between all three routes
- D. It chooses the EIGRP route because it has the lowest administrative distance

Correct Answer: A

Q NO: 18

Which two conditions must be met before SSH operates normally on a Cisco IOS switch? (Choose two.)

- [x] The **ip domain-name** command must be configured on the switch.
- [ ] A console password must be configured on the switch.
- [ ] IP routing must be enabled on the switch.
- [x] The switch must be running a k9 (crypto) IOS image.
- [ ] Telnet must be disabled on the switch.

Q NO: 19

An engineer needs to configure LLDP to send the port description type length value (TLV). What command sequence must be implemented?

- A. switch#lldp port-description
- B. switch(config)#lldp port-description
- C. switch(config-line)#lldp port-description
- D. switch(config-if)#lldp port-description

Correct Answer: B

Q NO: 20

Refer to the exhibit.

```
SW1(config-line) #line vty 0 15
SW1(config-line) #no login local
SW1(config-line) #password cisco

SW2(config) #username admin1 password abcd1234
SW2(config) #username admin2 password abcd1234
SW2(config-line) #line vty 0 15
SW2(config-line) #login local

SW3(config) #username admin1 secret abcd1234
SW3(config) #username admin2 secret abcd1234
SW3(config-line) #line vty 0 15
SW3(config-line) #login local

SW4(config) #username admin1 secret abcd1234
SW4(config) #username admin2 secret abcd1234
SW4(config-line) #line console 0
SW4(config-line) #login local
```

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An administrator configures four switches for local authentication using passwords that are stored in a cryptographic hash. The four switches must also support SSH access for administrators to manage the network infrastructure. Which switch is configured correctly to meet these requirements?

- A. SW1
- B. SW2
- C. SW3
- D. SW4

Correct Answer: C

Q NO: 21

A network administrator is asked to configure VLANs 2, 3 and 4 for a new implementation. Some ports must be assigned to the new VLANs with unused remaining. Which action should be taken for the unused ports?

A. configure port in the native VLAN
B. configure ports in a black hole VLAN
C. configure in a nondefault native VLAN
D. configure ports as access ports
Answer: B

Q NO: 22

A network administrator must enable DHCP services between two sites. What must be configured for the router to pass DHCPDISCOVER messages on to the server?

- A. a DHCP Relay Agent
- B. DHCP Binding
- C. a DHCP Pool
- D. DHCP Snooping

Correct Answer: A

Q NO: 23

Refer to the exhibit. Which path is used by the router for internet traffic?

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```
SW1(config-line) #line vty 0 15
SW1(config-line) #no login local
SW1(config-line) #password cisco

SW2(config) #username admin1 password abcd1234
SW2(config) #username admin2 password abcd1234
SW2(config-line) #line vty 0 15
SW2(config-line) #login local

SW3(config) #username admin1 secret abcd1234
SW3(config) #username admin2 secret abcd1234
SW3(config-line) #line vty 0 15
SW3(config-line) #login local

SW4(config) #username admin1 secret abcd1234
SW4(config) #username admin2 secret abcd1234
SW4(config-line) #line console 0
SW4(config-line) #login local
```

- A. 209.165.200.0/27
- B. 10.10.10.0/28
- C. 0.0.0.0/0
- D. 10.10.13.0/24

Correct Answer: C

Q NO: 24

Refer to the exhibit.

```
SW1#sh lacp neighbor
Flags:  S - Device is requesting Slow LACPDUs
        F - Device is requesting Fast LACPDUs
        A - Device is in Active mode       P - Device is in Passive mode

Channel group 35 neighbors

Partner's information:

                  LACP port                        Admin  Oper   Port    Port
Port      Flags   Priority  Dev ID          Age    key    Key    Number  State
Et1/0     SP      32768     aabb.cc80.7000   8s    0x0    0x23   0x101   0x3C
Et1/1     SP      32768     aabb.cc80.7000   8s    0x0    0x23   0x102   0x3C
```

Based on the LACP neighbor status, in which mode is the SW1 port channel configured?

- A. passive
- B. mode on
- C. auto
- D. active

Correct Answer: D

Q NO: 25

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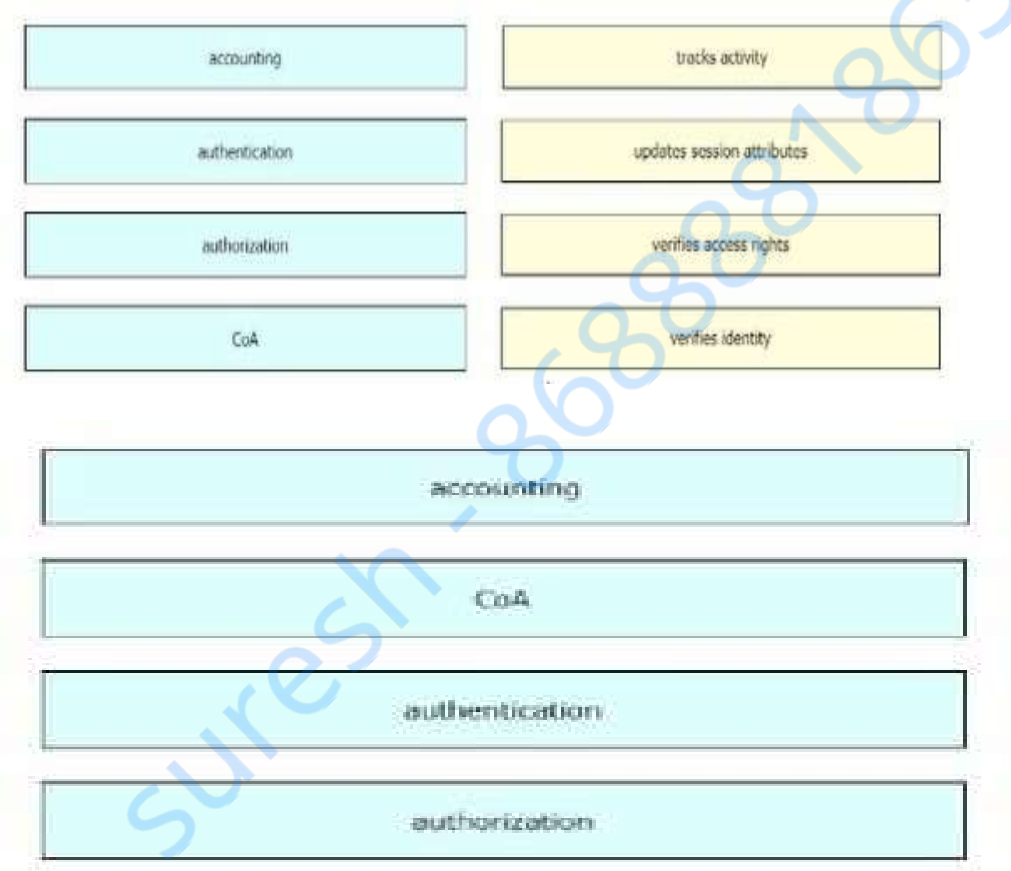
Which command on a port enters the forwarding state immediately when a PC is connected to it?

- A. switch(config)#spanning-tree portfast default
- B. switch(config)#spanning-tree portfast bpduguard default
- C. switch(config-if)#spanning-tree portfast trunk
- D. switch(config-if)#no spanning-tree portfast

Correct Answer: C

Q NO: 26

Drag and drop the AAA terms from the left onto the description on the right.



Q NO: 27

Why was the RFC 1918 address space defined?

A. preserve public IPv6 address space

B. support the NAT protocol

C. reduce instances of overlapping IP addresses

D. conserve public IPv4 addressing

Answer: D

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Q NO: 28

Which two capacities of Cisco DNA Center make it more extensible? (Choose two)

- A. adapters that support all families of Cisco IOS software
- B. SDKs that support interaction with third-party network equipment
- C. customized versions for small, medium, and large enterprises
- D. REST APIs that allow for external applications to interact natively with Cisco DNA Center
- E. modular design that is upgradable as needed

Correct Answer: B D

Q NO: 29

A user configured OSPF and advertised the Gigabit Ethernet interface in OSPF by default, which type of OSPF network does this interface belong?

- A. point-to-multipoint
- B. point-to-point
- C. broadcast
- D. nonbroadcast

Correct Answer: C

Q NO: 30

What are two fundamentals of virtualization? (Choose two)

- A. The environment must be configured with one hypervisor that serves solely as a network manager to monitor SNMP traffic
- B. It allows logical network devices to move traffic between virtual machines and the rest of the physical network
- C. It allows multiple operating systems and applications to run independently on one physical server
- D. It allows a physical router to directly connect NICs from each virtual machine into the network
- E. It requires that some servers, virtual machines and network gear reside on the Internet

Correct Answer: B C

Q NO: 31

Refer to the exhibit. If OSPF Is running on this network, how does Router2 handle traffic from Site B to 10.10.13.128/25 at Site A?

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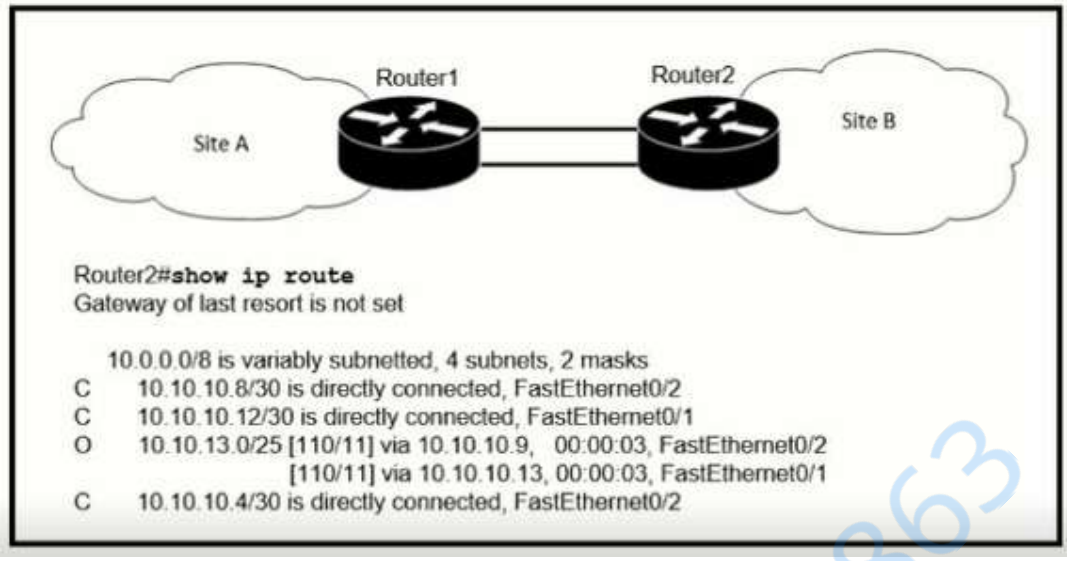

- A. It load-balances traffic out of Fa0/1 and Fa0/2
- B. It is unreachable and discards the traffic
- C. It sends packets out of interface Fa0/2
- D. It sends packets out of interface Fa0/1

Correct Answer: B

Q NO: 32

Which 802.11 frame type is indicated by a probe response after a client sends a probe request?

- A. action
- B. management
- C. control
- D. data

Correct Answer: B

Q NO: 33

How does CAPWAP communicate between an access point in local mode and a WLC?

- A. The access point must directly connect to the WLC using a copper cable
- B. The access point must not be connected to the wired network, as it would create a loop
- C. The access point must be connected to the same switch as the WLC
- D. The access point has the ability to link to any switch in the network, assuming connectivity to the WLC

Correct Answer: D

Q NO: 34

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Which IPv6 address type provides communication between subnets and cannot route on the Internet?

- A. global unicast
- B. unique local
- C. link-local
- D. multicast

Correct Answer: B

Q NO: 35

Refer to the exhibit. What does router R1 use as its OSPF router-ID?

CertBus-R1#show ip interface brief

Interface	IP-Address	OK?	Method	Status	Protocol
FastEthernet0/0	unassigned	YES	NVRAM	administratively down	down
GigabitEthernet1/0	192.168.0.1	YES	NVRAM	up	up
GigabitEthernet2/0	10.10.10.10	YES	manual	up	up
GigabitEthernet3/0	10.10.10.20	YES	manual	up	up
GigabitEthernet4/0	unassigned	YES	NVRAM	administratively down	down
Loopback0	172.16.15.10	YES	manual		

- A. 10.10.1.10
- B. 10.10.10.20
- C. 172.16.15.10
- D. 192.168.0.1

Correct Answer: C

Q NO: 36

Which protocol requires authentication to transfer a backup configuration file from a router to a remote server?

A. TFTP
B. FTP
C. DTP
D. SMTP

Answer: B

Q NO: 37

What is a benefit of VRRP?

- A. It provides traffic load balancing to destinations that are more than two hops from the source
- B. It provides the default gateway redundancy on a LAN using two or more routers
- C. It allows neighbors to share routing table information between each other
- D. It prevents loops in a Layer 2 LAN by forwarding all traffic to a root bridge, which then makes the final forwarding decision

Correct Answer: B

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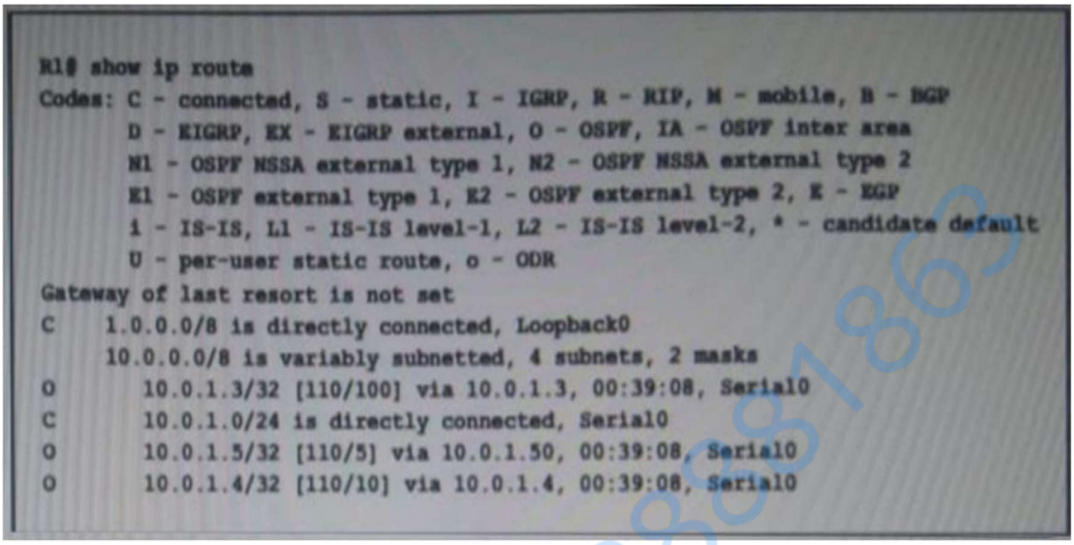
Q NO: 38

Refer to the exhibit. What is the next hop address for traffic that is destined to host 10.0.1.5?



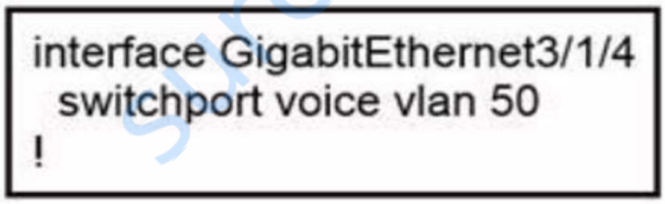
```
R1# show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, * - candidate default
       U - per-user static route, o - ODR
Gateway of last resort is not set
C    1.0.0.0/8 is directly connected, Loopback0
     10.0.0.0/8 is variably subnetted, 4 subnets, 2 masks
O       10.0.1.3/32 [110/100] via 10.0.1.3, 00:39:08, Serial0
C       10.0.1.0/24 is directly connected, Serial0
O       10.0.1.5/32 [110/5] via 10.0.1.50, 00:39:08, Serial0
O       10.0.1.4/32 [110/10] via 10.0.1.4, 00:39:08, Serial0
```

- A. Loopback 0
- B. 10.0.1.4
- C. 10.0.1.50
- D. 10.0.1.3

Correct Answer: C

Q NO: 39

Refer to the exhibit.



```
interface GigabitEthernet3/1/4
 switchport voice vlan 50
!
```

An administrator is tasked with configuring a voice VLAN. What is the expected outcome when a Cisco phone is connected to the GigabitEthernet 3/1/4 port on a switch?

- A. The phone and a workstation that is connected to the phone do not have VLAN connectivity
- B. The phone sends and receives data in VLAN 50, but a workstation connected to the phone sends and receives data in VLAN 1

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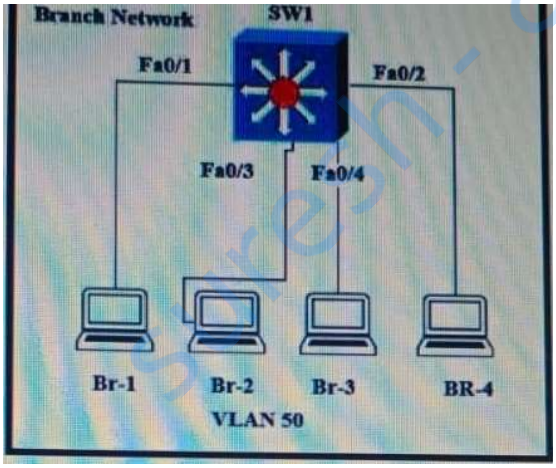
• C. The phone sends and receives data in VLAN 50, but a workstation connected to the phone has no VLAN connected
• D. The phone and a workstation that is connected to the phone send and receive data in VLAN 50
Correct Answer: B

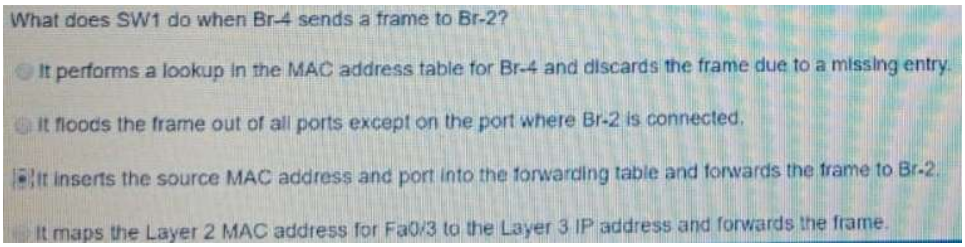
Q NO: 40

A corporate office uses four floors in a building
*** Floor 1 has 24 users**
*** Floor 2 has 29 users**
*** Floor 3 has 28 users**
*** Floor 4 has 22 users**
Which subnet summarizes and gives the most efficient distribution of IP addresses for the router tioconfiguration?
• A. 192.168.0.0/26 as summary and 192.168.0.0/29 for each floor
• B. 192.168.0.0/24 as summary and 192.168.0.0/28 for each floor
• C. 192.168.0.0/23 as summary and 192.168.0.0/25 for each floor
• D. 192.168.0.0/25 as summary and 192.168.0.0/27 for each floor
Correct Answer: D

Q NO: 41




```
SW1#show mac-address-table
Mac Address Table
-------------------------------------------
Vlan    Mac Address Type    Ports
50      000c.8590.bb7d DYNAMIC Fa0/1
50      010a.7a17.45bc DYNAMIC Fa0/3
50      7aa7.4041.0525 DYNAMIC Fa0/4
SW1#
```



Q NO: 42

The service password-encryption command is entered on a router. What is the effect of this configuration?

- A. restricts unauthorized users from viewing clear-text passwords in the running configuration
- B. prevents network administrators from configuring clear-text passwords
- C. protects the VLAN database from unauthorized PC connections on the switch
- D. encrypts the password exchange when a VPN tunnel is established

Correct Answer: A

Q NO: 43

What are two characteristics of a controller-based network? (Choose two)

- A. The administrator can make configuration updates from the CLI
- B. It uses northbound and southbound APIs to communicate between architectural layers.
- C. It moves the control plane to a central point
- D. It decentralizes the control plane, which allows each device to make its own forwarding decisions
- E. It uses Telnet to report system issues

Correct Answer: B C

Q NO: 44

Refer to the exhibit. Which path is used by the router for internet traffic?

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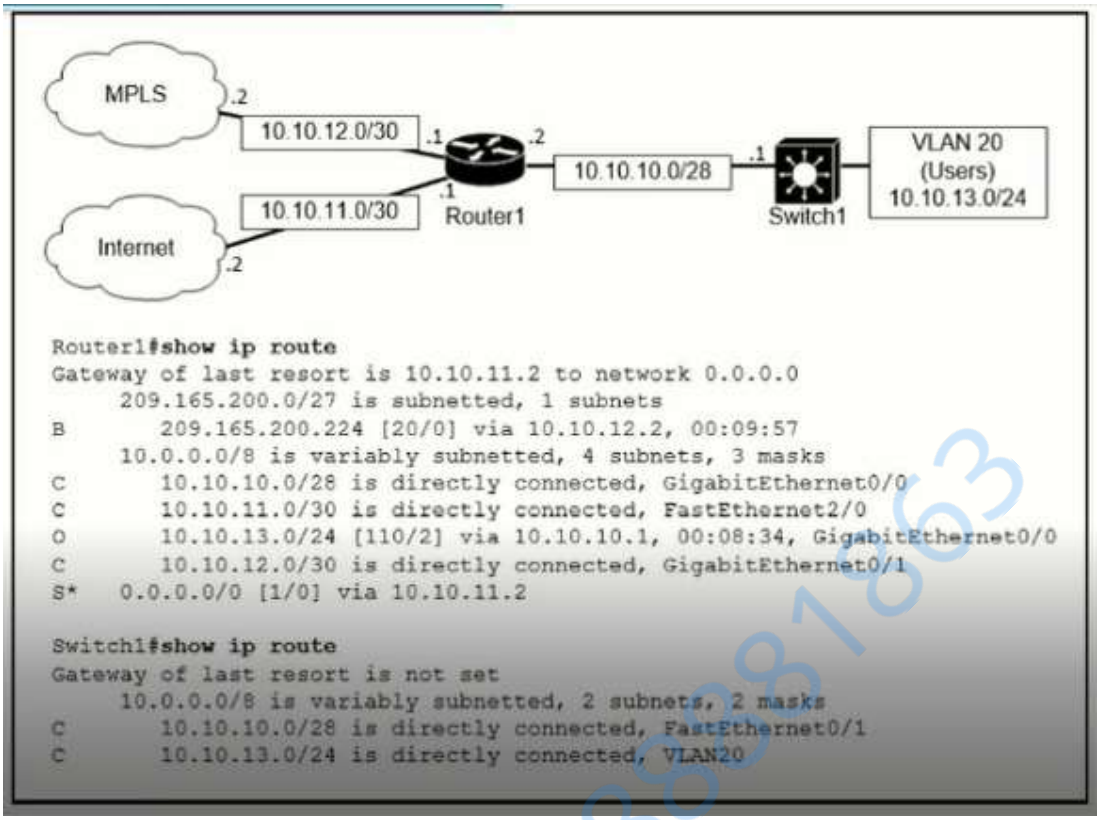

- A. 209.165.200.0/27
- B. 10.10.10.0/28
- C. 0.0.0.0/0
- D. 10.10.13.0/24

Correct Answer: C

Q NO: 45

A network administrator enabled port security on a switch interface connected to a printer. What is
the next configuration action in order to allow the port to learn the MAC address of the printer and
insert it into the table automatically?

- A. enable dynamic MAC address learning
- B. implement static MAC addressing.
- C. enable sticky MAC addressing
- D. implement auto MAC address learning

Correct Answer: C

Q NO: 46

Refer to the exhibit. Which type of configuration is represented in the output?

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```
cisco_ospf_vrf {"R1 default":
    ensure => 'present',
    auto_cost => '100',
}
```

- A. Ansible
- B. JSON
- C. Chef
- D. Puppet

Correct Answer: D

Q NO: 47

A device detects two stations transmitting frames at the same time. This condition occurs after the
first 64 bytes of the frame is received interface counter increments?

- A. collision
- B. CRC
- C. runt
- D. late collision

Correct Answer: D

Q NO: 48

When a switch receives a frame for a known destination MAC address, how is the frame handled?
A. flooded to all ports except the one from which it originated
B. broadcast to all ports
C. forwarded to the first available port
D. sent to the port identified for the known MAC address
Answer: D

Q NO: 49

What is the function of a controller in controller-based networking?
A. It is a pair of core routers that maintain all routing decisions for a campus
B. It centralizes the data plane for the network
C. It is the card on a core router that maintains all routing decisions for a campus
D. It serves as the centralized management point of an SDN architecture
Answer: D

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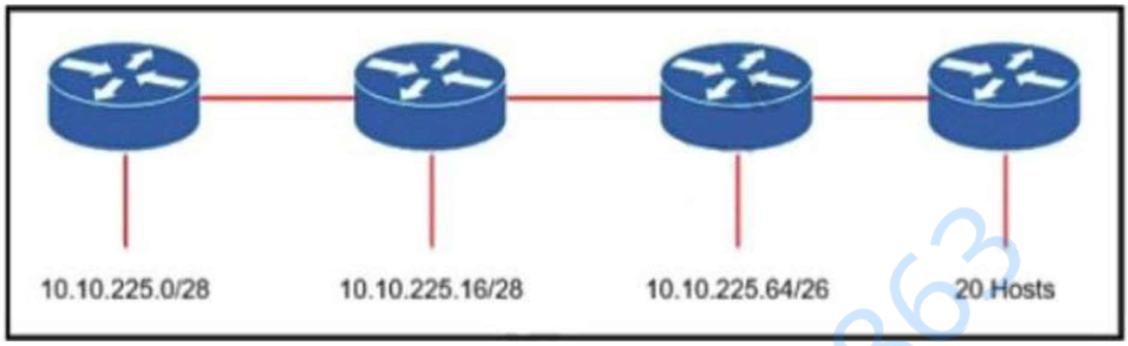
Q NO: 50

Refer to the exhibit. Refer to the exhibit. An engineer must add a subnet for a new office that will add 20 users to the network. Which IPv4 network and subnet mask combination does the engineer assign to minimize wasting addresses?



- A. 10.10.225.48 255.255.255.240
- B. 10.10.225.32 255.255.255.240
- C. 10.10.225.48 255.255.255.224
- D. 10.10.225.32 255.255.255.224

Correct Answer: D

Q NO: 51

How does HSRP provide first hop redundancy?

- A. It load-balances traffic by assigning the same metric value to more than one route to the same destination m the IP routing table
- B. It load-balances Layer 2 traffic along the path by flooding traffic out all interfaces configured with the same VLAN
- C. It forwards multiple packets to the same destination over different routed links in the data path
- D. It uses a shared virtual MAC and a virtual IP address to a group of routers that serve as the default gateway for hosts on a LAN

Correct Answer: D

Q NO: 53

Which WAN topology provides a combination of simplicity quality, and availability?

- A. partial mesh
- B. full mesh
- C. point-to-point
- D. hub-and-spoke

Correct Answer: C

Q NO: 54

What is the primary different between AAA authentication and authorization?

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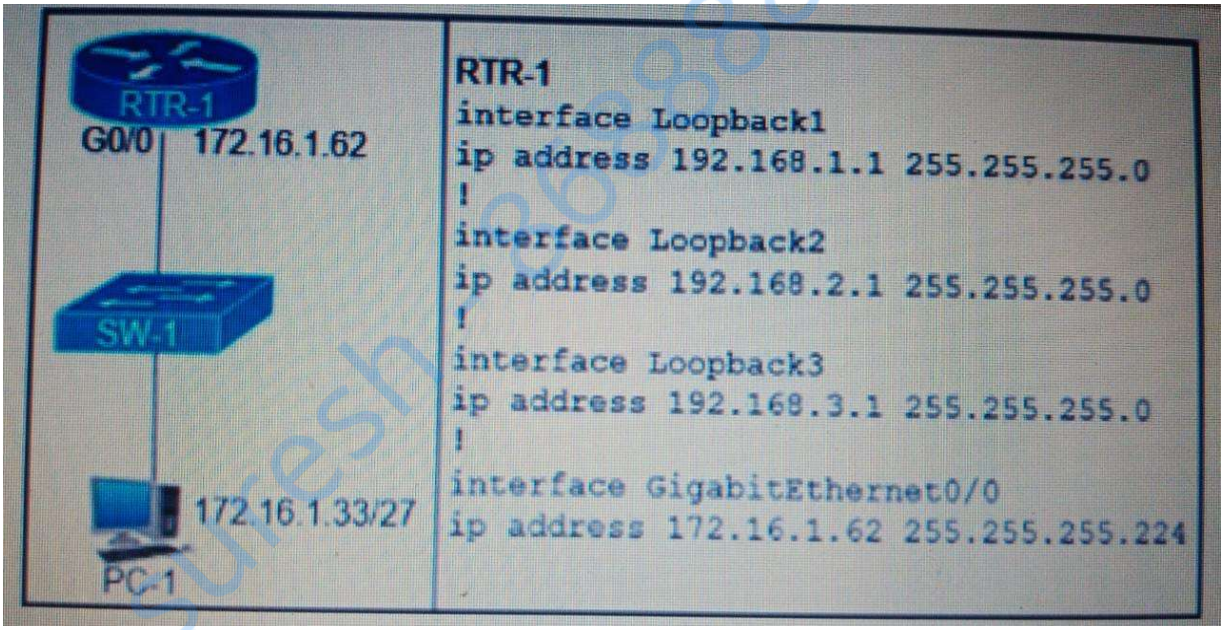
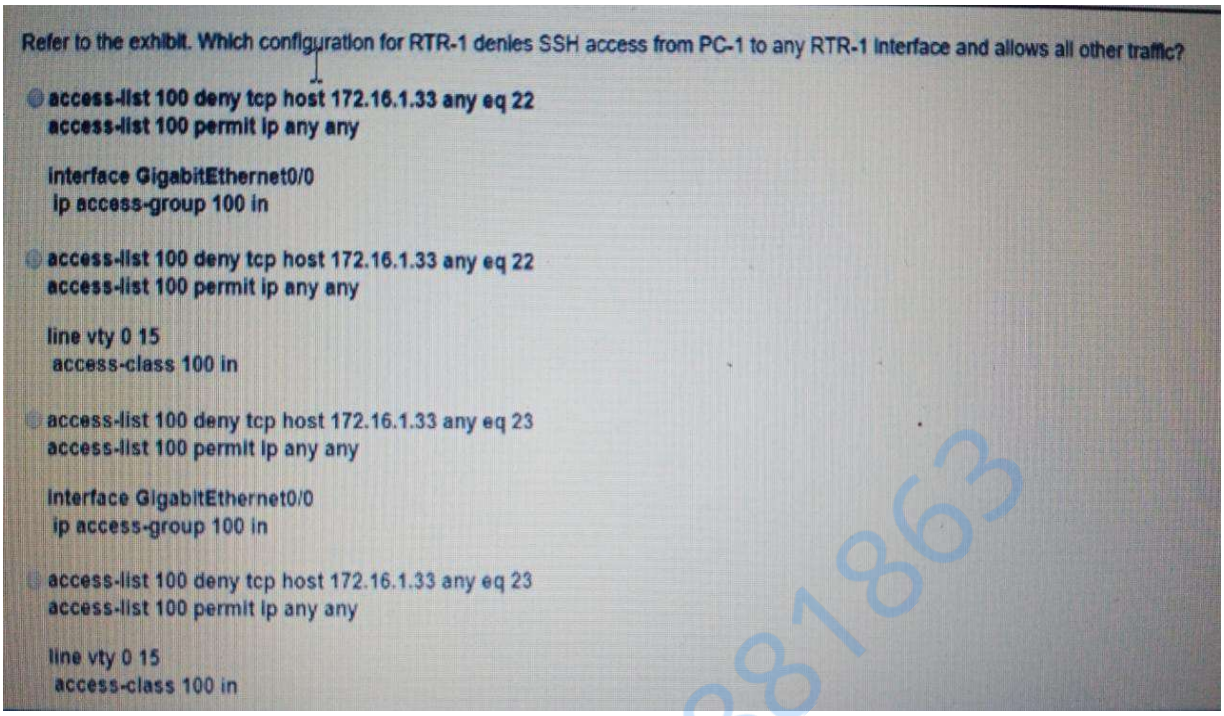
- A. Authentication verifies a username and password, and authorization handles the communication between the authentication agent and the user database
- B. Authentication identifies a user who is attempting to access a system, and authorization validates the users password
- C. Authentication identifies and verifies a user who is attempting to access a system, and authorization controls the tasks the user can perform
- D. Authentication controls the system processes a user can access and authorization logs the activities the user initiates

Correct Answer: C

Q NO: 55





Q NO: 56

Which feature on the Cisco Wireless LAN Controller when enabled restricts management access from
specific networks?

- A. CPU ACL
- B. TACACS
- C. Flex ACL
- D. RADIUS

Correct Answer: A

Q NO: 57

Which two primary drivers support the need for network automation? (Choose two)
A. Increasing reliance on self-diagnostic and self-healing
B. Eliminating training needs
C. Policy-deriven provisioning of resources
D. Reducing hardware footprint
E. Providing a single entry point for resource provisioning
Answer: C E

Q NO: 58

What is a function of TFTP in network operations?

- A. transfers a backup configuration file from a server to a switch using a username and password

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- B. transfers files between file systems on a router
- C. transfers a configuration files from a server to a router on a congested link
- D. transfers IOS images from a server to a router for firmware upgrades

Correct Answer: D

Q NO: 59

A user configured OSPF in a single area between two routers A serial interface connecting R1 and R2 is running encapsulation PPP, by default, which OSPF network type is seen on this interface when the user types show ip ospf interface on R1 or R2?

- A. port-to-multipoint
- B. broadcast
- C. point-to-point
- D. nonbroadcast

Correct Answer: C

Q NO: 60

Which two outcomes are predictable behaviors for HSRP? (Choose two)

- A. The two routers share a virtual IP address that is used as the default gateway for devices on the LAN
- B. The two routers negotiate one router as the active router and the other as the standby router
- C. Each router has a different IP address both routers act as the default gateway on the LAN, and traffic is load balanced between them
- D. The two routers synchronize configurations to provide consistent packet forwarding
- E. The two routed share the same IP address, and default gateway traffic is load-balanced between them

Correct Answer: A B

Q NO: 61

What role does a hypervisor provide for each virtual machine in server virtualization?

- A. infrastructure-as-a-service.
- B. Software-as-a-service
- C. control and distribution of physical resources
- D. services as a hardware controller.

Correct Answer: C

Q NO: 62

Refer to the exhibit.

suresh - 2688881863

```
Switch(config)#hostname R1
R1(config)#interface FastEthernet0/1
R1(config-if)#no switchport
R1(config-if)#ip address 10.100.20.42 255.255.255.0
R1(config-if)#line vty 0 4
R1(config-line)#login
```

An engineer booted a new switch and applied this configuration via the console port. Which additional configuration must be applied to allow administrators to authenticate directly to enable privilege mode via Telnet using a local username and password?

- A.

R1(config)#username admin
R1(config-if)#line vty 0 4
R1(config-line)#password p@ss1234

- B.

R1(config)#username admin
R1(config-if)#line vty 0 4
R1(config-line)#password p@ss1234
R1(config-line)#transport input telnet

- C.

R1(config)#username admin secret p@ss1234
R1(config-if)#line vty 0 4
R1(config-line)#login local
R1(config)#enable secret p@ss1234

- D.

R1(config)#username admin privilege 15 secret p@ss1234
R1(config-if)#line vty 0 4
R1(config-line)#login local

Correct Answer: D

Q NO: 63

What is a characteristic of private IPv4 addressing?

- A. traverse the Internet when an outbound ACL is applied
- B. issued by IANA in conjunction with an autonomous system number
- C. composed of up to 65.536 available addresses
- D. used without tracking or registration

Correct Answer: D

Q NO: 64

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An engineer must configure a WLAN using the strongest encryption type for WPA2-PSK. Which cipher fulfills the configuration requirement?

- A. WEP
- B. RC4
- C. AES
- D. TKIP

Correct Answer: C

Q NO: 65

If a switch port receives a new frame while it is actively transmitting a previous frame, how does it process the frames?

- A. The new frame is delivered first, the previous frame is dropped, and a retransmission request is sent
- B. The previous frame is delivered, the new frame is dropped, and a retransmission request is sent
- C. The new frame is placed in a queue for transmission after the previous frame
- D. The two frames are processed and delivered at the same time

Correct Answer: C

Q NO: 66

An engineer must configure an OSPF neighbor relationship between router R1 and R3 The authentication configuration has been configured and the connecting interfaces are in the same 192.168 1.0/30 sublet. What are the next two steps to complete the configuration? (Choose two)

- A. configure the hello and dead timers to match on both sides
- B. configure the same process ID for the router OSPF process
- C. configure the same router ID on both routing processes
- D. Configure the interfaces as OSPF active on both sides.
- E. configure both interfaces with the same area ID

Correct Answer: A E

Q NO: 67

Which configuration management mechanism uses TCP port 22 by default when communicating Nwith managed nodes?

- A. Ansible
- B. Python
- C. Puppet
- D. Chef

Correct Answer: A

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Q NO: 68

Which command must be entered when a device is configured as an NTP server?

- A. ntp sever
- B. ntp peer
- C. ntp authenticate
- D. ntp master

Correct Answer: D

Q NO: 69

Which type of traffic is sent with pure IPsec?
A. broadcast packets from a switch that is attempting to locate a MAC address at one of several remote sites
B. multicast traffic from a server at one site to hosts at another location
C. spanning-tree updates between switches that are at two different sites
D. unicast messages from a host at a remote site to a server at headquarters
Answer: D

Q NO: 70

Which protocol prompts the Wireless LAN Controller to generate its own local web administration
SSL certificate for GUI access?

- A. HTTPS
- B. RADIUS
- C. TACACS+
- D. HTTP

Correct Answer: A

Q NO: 71

R1 has learned route 10.10.10.0/24 via numerous routing protocols. Which route is installed?

- A. route with the lowest cost
- B. route with the next hop that has the highest IP
- C. route with the shortest prefix length
- D. route with the lowest administrative distance

Correct Answer: D

Q NO: 72

An engineer requires a scratch interface to actively attempt to establish a trunk link with a neighbor

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switch. What command must be configured?

- A. switchport mode trunk
- B. switchport mode dynamic desirable
- C. switchport mode dynamic auto
- D. switchport nonegotiate

Correct Answer: B

Q NO: 73

A packet is destined for 10.10.1.22. Which static route does the router choose to forward the packet?

- A. ip route 10.10.1.0 255.255.255.240 10.10.255.1
- B. ip route 10.10.1.16 255.255.255.252 10.10.255.1
- C. ip route 10.10.1.20 255.255.255.252 10.10.255.1
- D. ip route 10.10.1.20 255.255.255.254 10.10.255.1

Correct Answer: C

Q NO: 74

Which set of action satisfy the requirement for multifactor authentication?

- A. The user swipes a key fob, then clicks through an email link
- B. The user enters a user name and password, and then clicks a notification in an authentication app on a mobile device
- C. The user enters a PIN into an RSA token, and then enters the displayed RSA key on a Nlogin screen
- D. The user enters a user name and password and then re-enters the credentials on a second screen

Correct Answer: B

Q NO: 75

A network engineer must create a diagram of a multivendor network. Which command must be configured on the Cisco devices so that the topology of the network can be mapped?

- A. Device(Config)#lldp run
- B. Device(Config)#cdp run
- C. Device(Config-if)#cdp enable
- D. Device(Config)#flow-sampler-map topology

Correct Answer: A

Q NO: 76

Which two QoS tools provide congestion management? (Choose two.)

A. PBR

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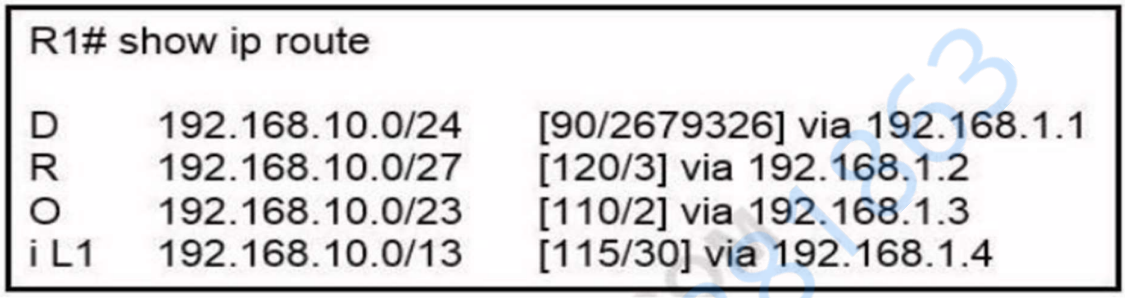
B. CBWFQ
C. FRTS
D. CAR
E. PQ

Answer b d

Q NO: 77

Refer to the exhibit.



How does router R1 handle traffic to 192.168.10.16?

- A. It selects the IS-IS route because it has the shortest prefix inclusive of the destination address
- B. It selects the EIGRP route because it has the lowest administrative distance
- C. It selects the OSPF route because it has the lowest cost
- D. It selects the RIP route because it has the longest prefix inclusive of the destination address

Correct Answer: D

Q NO: 78

Which two values or settings must be entered when configuring a new WLAN in the Cisco Wireless LAN Controller GUI? (Choose two)

- A. management interface settings
- B. QoS settings
- C. Ip address of one or more access points
- D. SSID
- E. Profile name

Correct Answer: D E

Q NO: 79

Refer to the exhibit.

suresh - 9688881263

```
      10.0.0.0/24 is subnetted, 1 subnets
C        10.0.0.0 is directly connected, FastEthernet0/1
C     172.16.0.0/16 is directly connected, FastEthernet0/0
D     192.168.0.0/24 [90/30720] via 172.16.0.2, 00:00:03, FastEthernet0/0
```

Which route type does the routing protocol Code D represent in the output?

- A. internal BGP route
- B. /24 route of a locally configured IP
- C. statically assigned route
- D. route learned through EIGRP

Correct Answer: D

Q NO: 80

Which two actions influence the EIGRP route selection process? (Choose two)

- A. The router calculates the reported distance by multiplying the delay on the exiting Interface by 256
- B. The router calculates the best backup path to the destination route and assigns it as the feasible successor
- C. The router calculates the feasible distance of all paths to the destination route
- D. The advertised distance is calculated by a downstream neighbor to inform the local router of the bandwidth on the link
- E. The router must use the advertised distance as the metric for any given route

Correct Answer: B C

Q NO: 81

Refer to the exhibit.

```
ip arp inspection vlan 5-10
interface fastethernet 0.1
     switchport mode access
     switchport access vlan 5
```

What is the effect of this configuration?

- A. All ARP packets are dropped by the switch
- B. Egress traffic is passed only if the destination is a DHCP server
- C. All ingress and egress traffic is dropped because the interface is untrusted
- D. The switch discard all ingress ARP traffic with invalid MAC-to-IP address bindings

Correct Answer: D

Q NO: 82

Suresh - 8689881863

An engineer must establish a trunk link between two switches. The neighboring switch is set to
trunk or desirable mode. What action should be taken?

- A. configure switchport nonegotiate
- B. configure switchport mode dynamic desirable
- C. configure switchport mode dynamic auto
- D. configure switchport trunk dynamic desirable

Correct Answer: C

Q NO: 83

What is a difference between RADIUS and TACACS+?

- A. RADIUS is most appropriate for dial authentication, but TACACS+ can be used for multiple types of authentication
- B. TACACS+ encrypts only password information and RADIUS encrypts the entire payload
- C. TACACS+ separates authentication and authorization, and RADIUS merges them
- D. RADIUS logs all commands that are entered by the administrator, but TACACS+ logs only start, stop, and interim commands

Correct Answer: C

Q NO: 84

Which JSON data type is an unordered set of attribute- value pairs?

- A. array
- B. string
- C. object
- D. Boolean

Correct Answer: C

Q NO: 85

Where does a switch maintain DHCP snooping information?

- A. in the MAC address table
- B. in the CAM table
- C. in the binding database
- D. in the frame forwarding database

Correct Answer: C

Q NO: 86

Which action must be taken to assign a global unicast IPv6 address on an interface that is derived from the MAC address of that interface?

- A. configure a stateful DHCPv6 server on the network
- B. enable SLAAC on an interface

suresh - 6688881863

- C. disable the EUI-64 bit process
- D. explicitly assign a link-local address

Correct Answer: B

Q NO: 87

Which IPv6 address block forwards packets to a multicast address rather than a unicast address?

- A. 2000::/3
- B. FC00::/7
- C. FE80::/10
- D. FF00::/12

Correct Answer: D

Q NO: 88

Which two conditions must be met before SSH can operate normally on a Cisco IOS switch? (Choose two)

- A. The switch must be running a k9 (crypto) IOS image
- B. The ip domain-name command must be configured on the switch
- C. IP routing must be enabled on the switch
- D. A console password must be configured on the switch
- E. Telnet must be disabled on the switch

Correct Answer: A B

Q NO: 89

Which network plane is centralized and manages routing decisions?

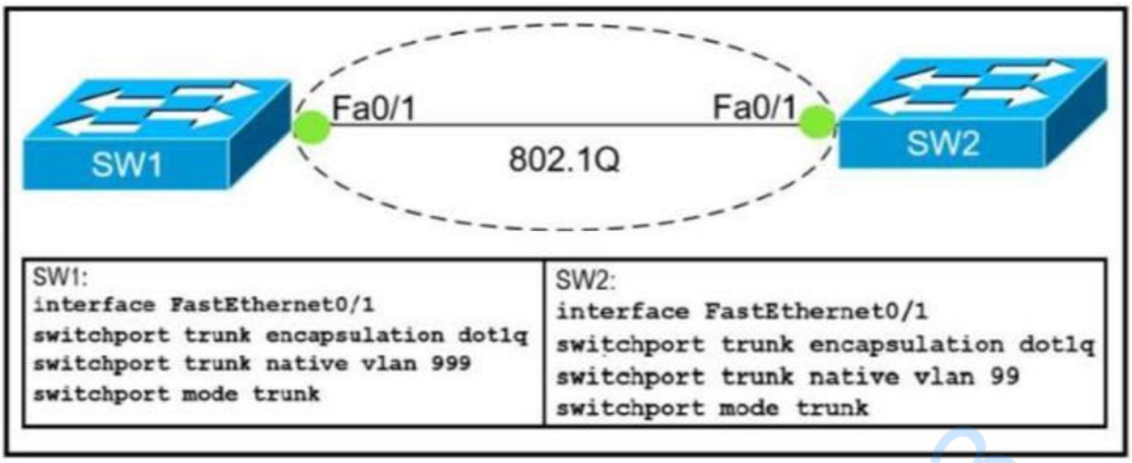
- A. policy plane
- B. management plane
- C. control plane
- D. data plane

Correct Answer: C

Q NO: 90

Refer to Exhibit.

suresh- 8688681863



Which action do the switches take on the trunk link?

- A. The trunk does not form and the ports go into an err-disabled status
- B. The trunk forms but the mismatched native VLANs are merged into a single broadcast domain
- C. The trunk does not form, but VLAN 99 and VLAN 999 are allowed to traverse the link
- D. The trunk forms but VLAN 99 and VLAN 999 are in a shutdown state

Correct Answer: B

Q NO: 92

What benefit does controller-based networking provide versus traditional networking?

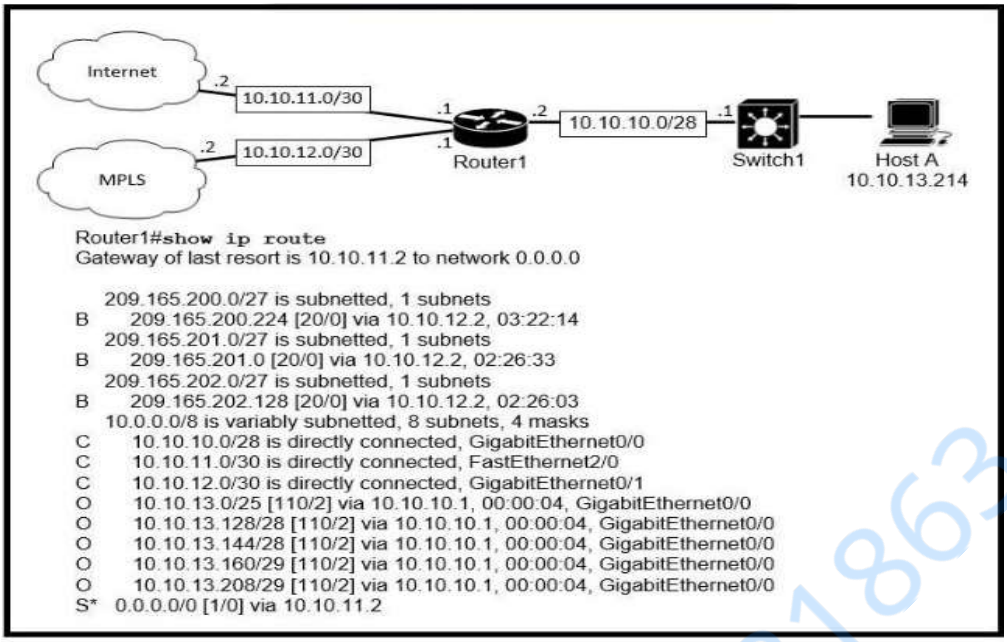
- A. moves from a two-tier to a three-tier network architecture to provide maximum redundancy
- B. provides an added layer of security to protect from DDoS attacks
- C. allows configuration and monitoring of the network from one centralized point
- D. combines control and data plane functionality on a single device to minimize latency

Correct Answer: C

Q NO: 93

Refer to the exhibit.

suresh - 8688881963



Which prefix does Router 1 use for traffic to Host A?

- A. 10.10.10.0/28
- B. 10.10.13.0/25
- C. 10.10.13.144/28
- D. 10.10.13.208/29

Correct Answer: D

Q NO: 94

What is the expected outcome when an EUI-64 address is generated?

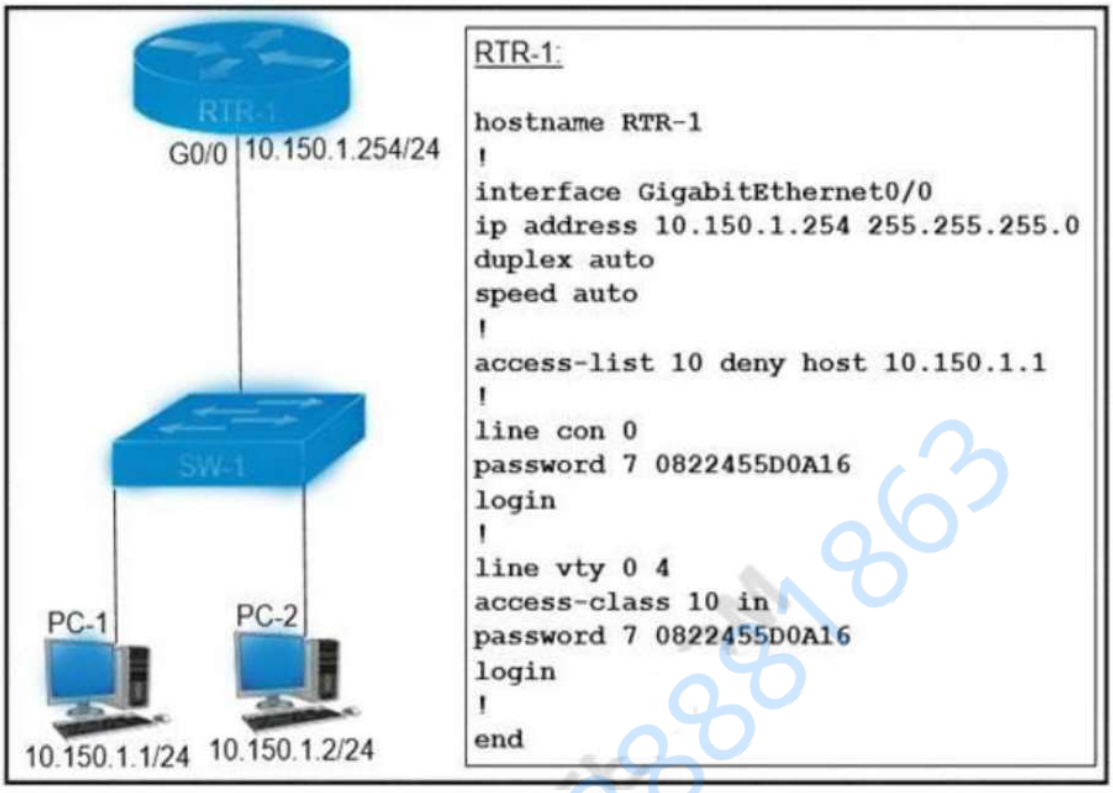
- A. The seventh bit of the original MAC address of the interface is inverted
- B. The interface ID is configured as a random 64-bit value
- C. The characters FE80 are inserted at the beginning of the MAC address of the interface
- D. The MAC address of the interface is used as the interface ID without modification

Correct Answer: A

Q NO: 95

Refer to the exhibit.

suresh - 8688881863



An access list is created to deny Telnet access from host PC-1 to RTR-1 and allow access from all other hosts A Telnet attempt from PC-2 gives this message:"% Connection refused by remote host" Without allowing Telnet access from PC-1, which action must be taken to permit the traffic?

- A. Add the access-list 10 permit any command to the configuration
- B. Remove the access-class 10 in command from line vty 0.4
- C. Add the ip access-group 10 out command to interface g0/0
- D. Remove the password command from line vty 0 4

Correct Answer: A

Q NO: 96

Refer to the exhibit.

suresh - 9688881863

```
Router#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route

Gateway of last resort is 209.165.202.131 to network 0.0.0.0

S*    0.0.0.0/0 [1/0] via 209.165.202.131
      209.165.200.0/27 is subnetted, 1 subnets
S        209.165.200.224 [254/0] via 209.165.202.129
      209.165.201.0/27 is subnetted, 1 subnets
S        209.165.201.0 [1/0] via 209.165.202.130
```

Which command configures a floating static route to provide a backup to the primary link?

- A. ip route 0.0.0.0 0.0.0.0 209.165.202.131
- B. ip route 209.165.201.0 255.255.255.224 209.165.202.130
- C. ip route 0.0.0.0 0.0.0.0 209.165.200.224
- D. ip route 209.165.200.224 255.255.255.224 209.165.202.129 254

Correct Answer: D

Q NO: 97

Which WPA3 enhancement protects against hackers viewing traffic on the Wi-Fi network?

- A. TKiP encryption
- B. AES encryption
- C. scrambled encryption key
- D. SAE encryption

Correct Answer: D

Q NO: 98

Which port type supports the spanning-tree portfast command without additional configuration?

A. access ports
B. Layer 3 main interfaces
C. Layer 3 subinterfaces
D. trunk ports
Answer: A

Q NO: 99

Which command must be entered to configure a DHCP relay?

- A. ip helper-address
- B. ip address dhcp
- C. ip dhcp pool

Suresh - 8688881863

- D. ip dhcp relay

Correct Answer: A

Q NO: 100

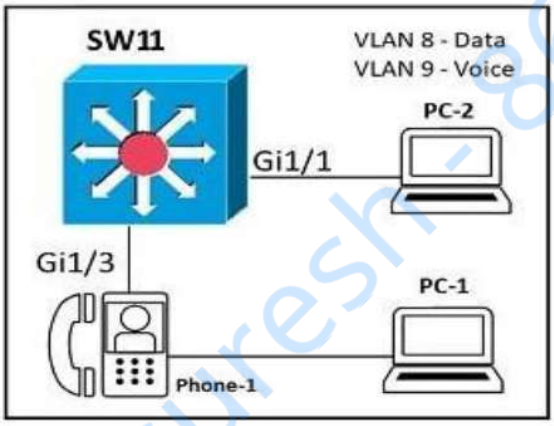
How do traditional campus device management and Cisco DNA Center device management differ in regards to deployment?

- A. Cisco DNA Center device management can deploy a network more quickly than traditional campus device management
- B. Traditional campus device management allows a network to scale more quickly than with Cisco DNA Center device management
- C. Cisco DNA Center device management can be implemented at a lower cost than most traditional campus device management options
- D. Traditional campus device management schemes can typically deploy patches and updates more quickly than Cisco DNA Center device management

Correct Answer: A

Q NO: 101

Refer to the exhibit.



An administrator must configure interfaces Gi1/1 and Gi1/3 on switch SW11 PC-1 and PC-2 must be placed in the Data VLAN and Phone-1 must be placed in the Voice VLAN Which configuration meets these requirements?

suresh-8688881863

```
interface gigabitethernet1/1
 switchport mode access
 switchport access vlan 8
 !
interface gigabitethernet1/3
 switchport mode access
 switchport voice vlan 8
 switchport access vlan 9
```

```
interface gigabitethernet1/1
 switchport mode access
 switchport access vlan 9
 !
interface gigabitethernet1/3
 switchport mode trunk
 switchport trunk vlan 8
 switchport trunk vlan 9
```

```
interface gigabitethernet1/1
 switchport mode access
 switchport access vlan 8
 !
interface gigabitethernet1/3
 switchport mode access
 switchport access vlan 8
 switchport voice vlan 9
```

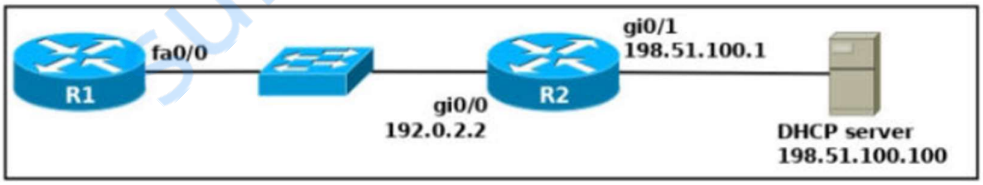
```
interface gigabitethernet1/1
 switchport mode access
 switchport access vlan 8
 !
interface gigabitethernet1/3
 switchport mode trunk
 switchport trunk vlan 8
 switchport voice vlan 9
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: C

Q NO: 102

Refer to the exhibit.



An engineer deploys a topology in which R1 obtains its IP configuration from DHCP. If the switch and DHCP server configurations are complete and correct. Which two sets of commands must be configured on R1 and R2 to complete the task? (Choose two)

- A.

R1(config)# interface fa0/0
R1(config-if)# ip helper-address 198.51.100.100

- B.

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R2(config)# interface gi0/0
R2(config-if)# ip helper-address 198.51.100.100

- C.

R1(config)# interface fa0/0
R1(config-if)# ip address dhcp
R1(config-if)# no shutdown

- D.

R2(config)# interface gi0/0
R2(config-if)# ip address dhcp

- E.

R1(config)# interface fa0/0
R1(config-if)# ip helper-address 192.0.2.2

Correct Answer: B C

Q NO: 103

What is the function of a server?

- A. It transmits packets between hosts in the same broadcast domain
- B. It provides shared applications to end users
- C. It routes traffic between Layer 3 devices
- D. It Creates security zones between trusted and untrusted networks

Correct Answer: B

Q NO: 104

Which configuration is needed to generate an RSA key for SSH on a router?

- A. Configure the version of SSH
- B. Configure VTY access
- C. Create a user with a password
- D. Assign a DNS domain name

Correct Answer: D

Q NO: 105

Refer to the exhibit.

suresh - 8688881863

```
R1# show ip route | begin gateway
Gateway of last resort is 209.165.200.246 to network 0.0.0.0
S* 0.0.0.0/0 [1/0] via 209.165.200.246, Serial0/1/0
      is directly connected, Serial0/1/0
      172.16.0.0/16 is variably subnetted, 2 subnets, 2 masks
S     172.16.3.0/24 [1/0] via 207.165.200.250, Serial0/0/0
O     172.16.3.0/28 [110/84437] via 207.165.200.254, 00:00:28, Serial0/0/1
      207.165.200.0/24 is variably subnetted, 6 subnets, 2 masks
C     207.165.200.244/30 is directly connected, Serial0/1/0
L     207.165.200.245/32 is directly connected, Serial0/1/0
C     207.165.200.248/30 is directly connected, Serial0/0/0
L     207.165.200.249/32 is directly connected, Serial0/0/0
C     207.165.200.252/30 is directly connected, Serial0/0/1
L     207.165.200.253/32 is directly connected, Serial0/0/1
```

A packet is being sent across router R1 to host 172.16.3.14. To which destination does the router send the packet?

- A. 207.165.200.246 via Serial0/1/0
- B. 207.165.200.254 via Serial0/0/0
- C. 207.165.200.254 via Serial0/0/1
- D. 207.165.200.250 via Serial0/0/0

Correct Answer: C

Q NO: 106

How are VLAN hopping attacks mitigated?

A. manually implement trunk ports and disable DTP

B. configure extended VLANs

C. activate all ports and place in the default VLAN

D. enable dynamic ARP inspection

Answer: A

Q NO: 107

What are two differences between optical-fiber cabling and copper cabling? (Choose two)

- A. Light is transmitted through the core of the fiber
- B. A BNC connector is used for fiber connections
- C. The glass core component is encased in a cladding
- D. Fiber connects to physical interfaces using Rj-45 connections
- E. The data can pass through the cladding

Correct Answer: A C

Q NO: 108

What are two benefits of FHRPs? (Choose two)

A. They prevent loops in the Layer 2 network.

B. They allow encrypted traffic.

C. They are able to bundle multiple ports to increase bandwidth

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D. They enable automatic failover of the default gateway.
E. They allow multiple devices to serve as a single virtual gateway for clients in the network
Answer: D E

Q NO: 109

With REST API, which standard HTTP header tells a server which media type is expected by the client?

- A. Accept-Encoding: gzip. deflate
- B. Accept-Patch: text/example; charset=utf-8
- C. Content-Type: application/json; charset=utf-8
- D. Accept: application/json

Correct Answer: D

Q NO: 110

When a WPA2-PSK WLAN is configured in the Wireless LAN Controller, what is the minimum number of characters that is required in ASCII format?

A. 6
- B. 8
- C. 12
- D. 18

Correct Answer: B

Q NO: 111

When OSPF learns multiple paths to a network, how does it select a route?

- A. It multiple the active K value by 256 to calculate the route with the lowest metric
- B. For each existing interface, it adds the metric from the source router to the destination to calculate the route with the lowest bandwidth
- C. It divides a reference bandwidth of 100 Mbps by the actual bandwidth of the existing interface to calculate the router with the lowest cost
- D. It count the number of hops between the source router and the destination to determine the router with the lowest metric

Correct Answer: C

Q NO: 112

Which communication interaction takes place when a southbound API is used?
A. between the SDN controller and PCs on the network
B. between the SDN controller and switches and routers on the network
C. between the SDN controller and services and applications on the network
D. between network applications and switches and routers on the network
Answer: B

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Q NO: 113

Which technology must be implemented to configure network device monitoring with the highest security?

- A. syslog
- B. NetFlow
- C. IP SLA
- D. SNMPv3

Correct Answer: D

Q NO: 114

Which mode must be set for APs to communicate to a Wireless LAN Controller using the Control and Provisioning of Wireless Access Points (CAPWAP) protocol?

A. bridge
B. route
C. autonomous
D. lightweight

Answer: D

Q NO: 115

What is the same for both copper and fiber interfaces when using SFP modules?

- A. They support an inline optical attenuator to enhance signal strength
- B. They provide minimal interruption to services by being hot-swappable
- C. They offer reliable bandwidth up to 100 Mbps in half duplex mode
- D. They accommodate single-mode and multi-mode in a single module

Correct Answer: B

Q NO: 116

Refer to the exhibit.

```
R2#show ip route
C 192.68.1.0/26 is directly connected, FastEthernet0/1
```

Which two prefixes are included in this routing table entry? (Choose two)

A. 192.168.1.17
B. 192.168.1.61
C. 192.168.1.64

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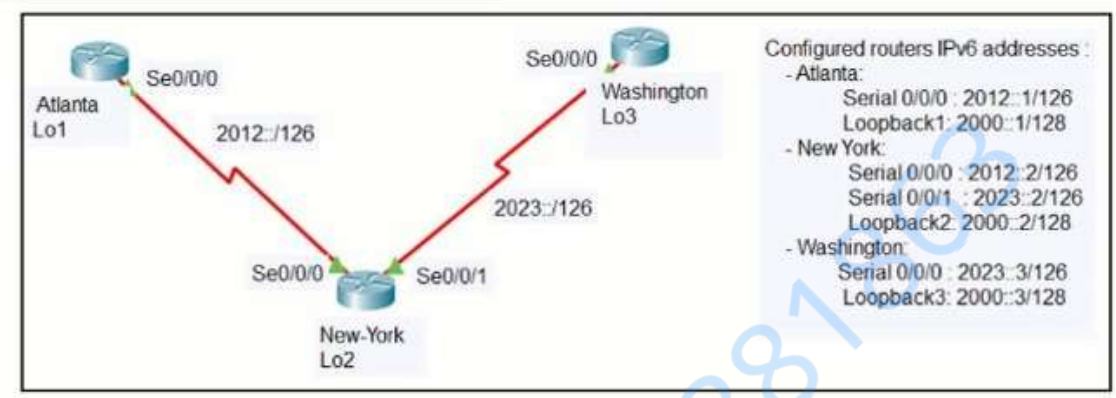
D. 192.168.1.127
E. 192.168.1.254

Answer: A B

Q NO: 117

Refer to the exhibit



An engineer configured the New York router with state routes that point to the Atlanta and Washington sites. When command must be configured on the Atlanta and Washington routers so that both sites are able to reach the loopback2 interface on the New York router?

- A. ipv6 route ::/0 Serial 0/0/1
- B. ipv6 route 0/0 Serial 0/0/0
- C. ipv6 route ::/0 Serial 0/0/0
- D. ip route 0.0.0.0.0.0.0.0 Serial 0/0/0
- E. ipv6 route ::/0 2000::2

Correct Answer: C

Q NO: 118

Which technology can prevent client devices from arbitrarily connecting to the network without state remediation?

- A. 802.1x
- B. IP Source Guard
- C. MAC Authentication Bypass
- D. 802.11n

Correct Answer: A

Q NO: 119

An engineer configured an OSPF neighbor as a designated router. Which state verifies the designated router is in the proper mode?

- A. Exchange

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- B. 2-way
- C. Full
- D. Init

Correct Answer: C

Q NO: 120

A network administrator needs to aggregate 4 ports into a single logical link which must negotiate layer 2 connectivity to ports on another switch What must be configured when using active mode on both sides of the connection?

- A. 802.1q trunks
- B. Cisco vPC
- C. LLDP
- D. LACP

Correct Answer: D

Q NO: 121

What are two characteristics of a public cloud implementation? (Choose two)

A. It is owned and maintained by one party, but it is shared among multiple organizations

B. It enables an organization to fully customize how it deploys network resources

C. It provides services that are accessed over the Internet

D. It is a data center on the public Internet that maintains cloud services for only one company

E. It supports network resources from a centralized third-party provider and privately-owned virtual resources

Answer: A C

Q NO: 122

What prevents a workstation from receiving a DHCP address?

A. DTP

B. STP

C. VTP

D. 802.10

Answer: B

Q NO: 123

Refer to the exhibit.

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Which configuration issue is preventing the OSPF neighbor relationship from being established between the two routers?

- A. R2 is using the passive-interface default command
- B. R1 has an incorrect network command for interface Gi1/0
- C. R2 should have its network command in area 1
- D. R1 interface Gi1/0 has a larger MTU size

Correct Answer: D

Q NO: 124

What is a syslog facility?

A. host that is configured for the system to send log messages

B. password that authenticates a Network Management System to receive log messages

C. group of log messages associated with the configured severity levele

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D. set of values that represent the processes that can generate a log message
Answer: C

Q NO: 125

How do AAA operations compare regarding user identification, user services and access control?

- A. Authorization provides access control and authentication tracks user services
- B. Authentication identifies users and accounting tracks user services
- C. Accounting tracks user services, and authentication provides access control
- D. Authorization identifies users and authentication provides access control

Correct Answer: B

Q NO: 126

A Cisco IP phone receive untagged data traffic from an attached PC. Which action is taken by the phone?

- A. It allows the traffic to pass through unchanged
- B. It drops the traffic
- C. It tags the traffic with the default VLAN
- D. It tags the traffic with the native VLAN

Correct Answer: A

Q NO: 127

What makes Cisco DNA Center different from traditional network management applications and their management of networks?

- A. It only supports auto-discovery of network elements in a greenfield deployment
- B. It modular design allows someone to implement different versions to meet the specific needs of an organization
- C. It abstracts policy from the actual device configuration
- D. It does not support high availability of management functions when operating in cluster mode

Correct Answer: C

Q NO: 128

What is a recommended approach to avoid co-channel congestion while installing access points that use the 2.4 GHz frequency?

- A. different nonoverlapping channels
- B. different overlapping channels
- C. one overlapping channel
- D. one nonoverlapping channel

Correct Answer: A

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Q NO: 129

Refer to the exhibit.

```
CertBus-R1#show ip route | begin gateway
Gateway of last resort is 209.165.200.246 to network 0.0.0.0
S*  0.0.0.0/0 [1/0] via 209.165.200.246, Serial0/1/0 is directly connected, Serial0/1/0

     172.16.0.0/16 is variably subnetted, 3 subnets, 3 masks
S       172.16.0.0/24 [1/0] via 207.165.200.250, Serial0/0/0
O       172.16.0.128/25 [110/38443] via 207.165.200.254, 00:00:23, Serial0/0/1
D       172.16.0.192/29 [90/3184439] via 207.165.200.254, 00:00:25, Serial0/0/1
     209.165.200.0/24 is variably subnetted, 4 subnets, 2 masks
C       209.165.200.248/30 is directly connected, Serial0/0/0
L       209.165.200.249/32 is directly connected, Serial0/0/0
C       209.165.200.252/30 is directly connected, Serial0/0/1
L       209.165.200.253/32 is directly connected, Serial0/0/1
```

If configuring a static default route on the router with the ip route 0.0.0.0 0.0.0.0 10.13.0.1 120 command, how does the router respond?

- A. It ignores the new static route until the existing OSPF default route is removed
- B. It immediately replaces the existing OSPF route in the routing table with the newly configured static route
- C. It starts load-balancing traffic between the two default routes
- D. It starts sending traffic without a specific matching entry in the routing table to GigabitEthernet0/1

Correct Answer: A

Q NO: 130

What is the path for traffic sent from one user workstation to another workstation on a separate
switch in a three-layer architecture model?
A. access – core – distribution – access
B. access – distribution – distribution – access
C. access – core – access
D. access -distribution – core – distribution – access
Answer: D

Q NO: 131

Which unified access point mode continues to serve wireless clients after losing connectivity to the Cisco Wireless LAN Controller?

- A. sniffer
- B. mesh

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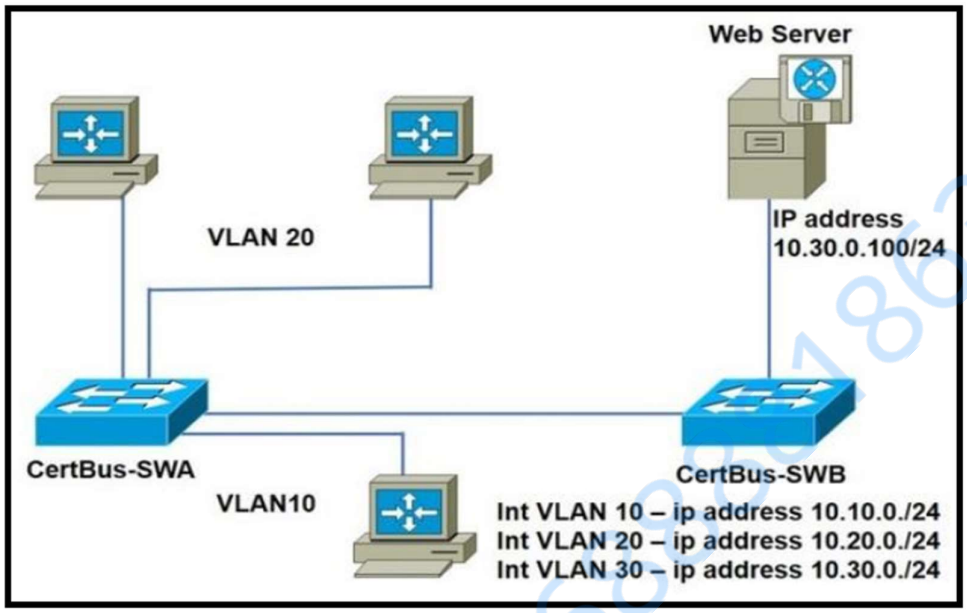
- C. flexconnect
- D. local

Correct Answer: C

Q NO: 132

Refer to the exhibit.



A network engineer must block access for all computers on VLAN 20 to the web server via HTTP. All other computers must be able to access the web server. Which configuration when applied to switch A accomplishes this task?

```
Config t
ip access-list extended wwwblock
deny tcp any host 10.30.0.100 eq 80
int vlan 10
ip address-group wwwblock in
```

```
Config t
ip access-list extended wwwblock
deny tcp any host 10.30.0.100 eq 80
permit ip any any
int vlan 20
ip address-group wwwblock in
```

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```
Config t
ip access-list extended wwwblock
permit ip any any
deny tcp any host 10.30.0.100 eq 80
int vlan 30
ip address-group wwwblock in
```

```
Config t
ip access-list extended wwwblock
permit ip any any
deny tcp any host 10.30.0.100 eq 80
int vlan 20
ip address-group wwwblock in
```

ANSWER : B

Q NO: 133

Which type of ipv6 address is publicly routable in the same way as ipv4 public addresses?

- A. multicast
- B. unique local
- C. link-local
- D. global unicast

Correct Answer: D

Q NO: 13

Using direct sequence spread spectrum, which three 2.4-GHz channels are used to limit collisions?

- A. 1,6.11
- B. 1,5,10
- C. 1,2,3
- D. 5,6,7

Correct Answer: A

Q NO: 135

Refer to the exhibit. What action establishes the OSPF neighbor relationship without forming an adjacency?

- A. modify priority
- B. modify process ID
- C. modify hello interval
- D. modity network type

Correct Answer: C

43. Which IPv6 address block sends packets to a group address rather than a single address?

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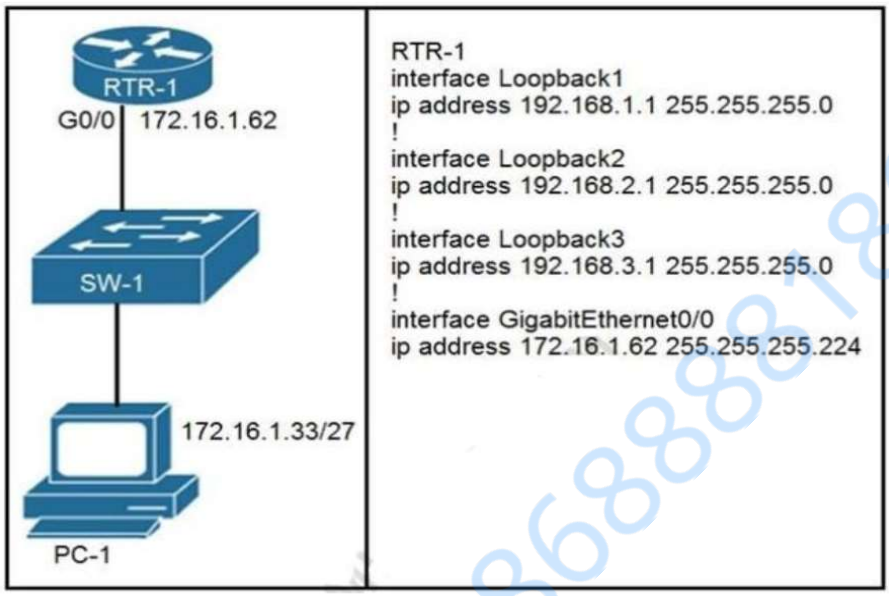
- A. 2000::/3
- B. FC00::/7
- C. FE80::/10
- D. FF00::/8

Correct Answer: D

267. Refer to the exhibit. Which configuration on RTR-1 denies SSH access from PC-1 to any RTR-1 interface and allows all other traffic?



- A.

access-list 100 deny tcp host 172.16.1.33 any eq 22
access-list 100 permit ip any any
interface GigabitEthernet0/0
ip access-group 100 in

- B.

access-list 100 deny tcp host 172.16.1.33 any eq 22
access-list 100 permit ip any any
line vty 0 15
access-class 100 in

- C.

access-list 100 deny tcp host 172.16.1.33 any eq 23
access-list 100 permit ip any any
interface Gigabit Ethernet0/0
ip access-group 100 in

- D.

access-list 100 deny tcp host 172.16.1.33 any eq 23
access-list 100 permit ip any any
line vty 0 15

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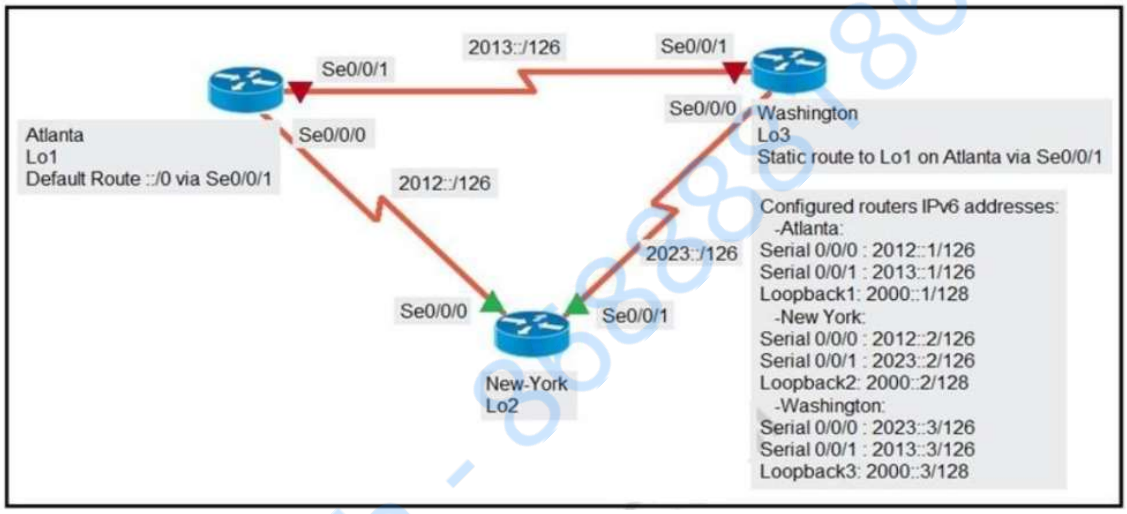
access-class 100 in
Correct Answer: B

340. What are two recommendations for protecting network ports from being exploited when located in an office space outside of an IT closet? (Choose two)

- A. configure static ARP entries
- B. enable the PortFast feature on ports
- C. implement port-based authentication
- D. configure ports to a fixed speed
- E. shut down unused ports

Correct Answer: C E

64. Refer to Exhibit.



An engineer is configuring the NEW York router to reach the Lo1 interface of the Atlanta router using interface Se0/0/0 as the primary path. Which two commands must be configured on
the New York router so that it can reach the Lo1 interface of the Atlanta router via Washington when the link between New York and Atlanta goes down? (Choose two

- A. ipv6 router 2000::1/128 2012::1
- B. ipv6 router 2000::1/128 2012:1 5
- C. ipv6 router 2000::1/128 2012::2
- D. ipv6 router 2000::1/128 2023:2 5
- E. ipv6 router 2000::1/128 2023::3 5

Correct Answer: A E

18. Drag and drop the application protocols from the left onto the transport protocols that is uses on the right.

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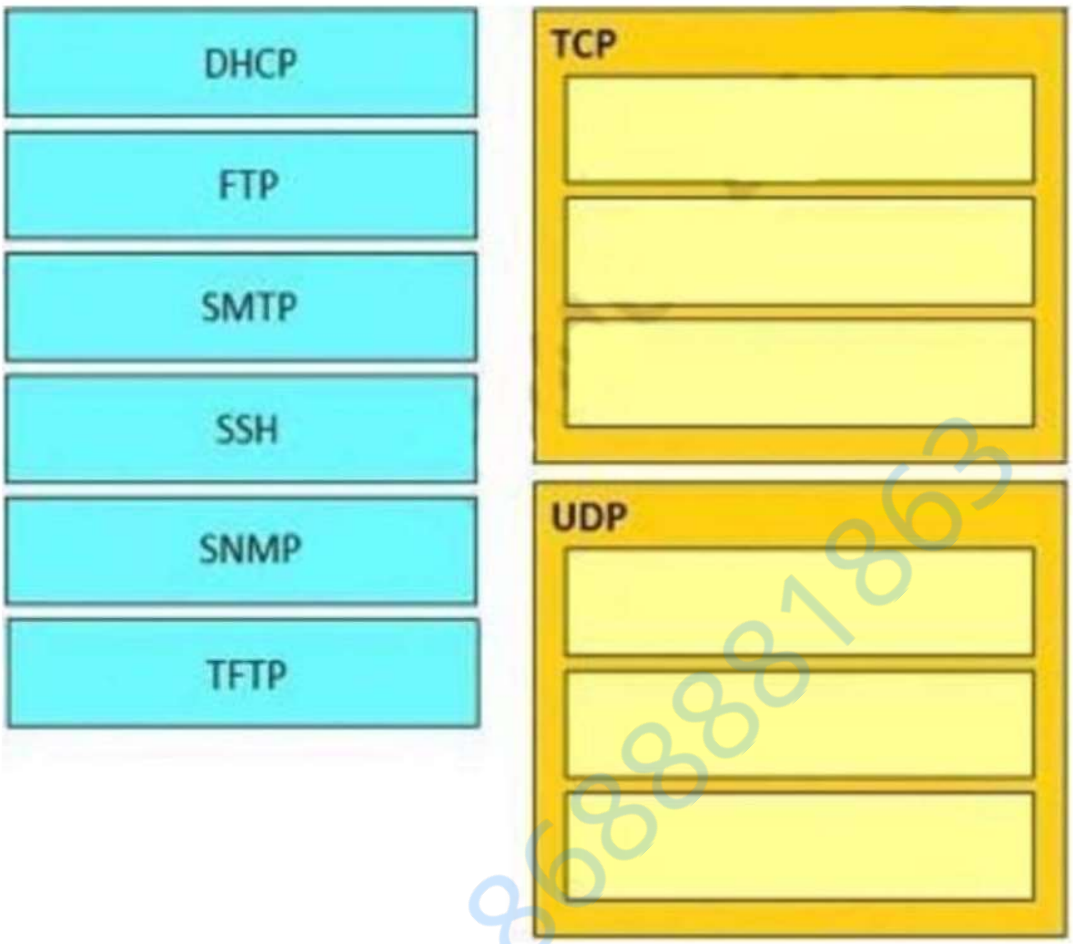

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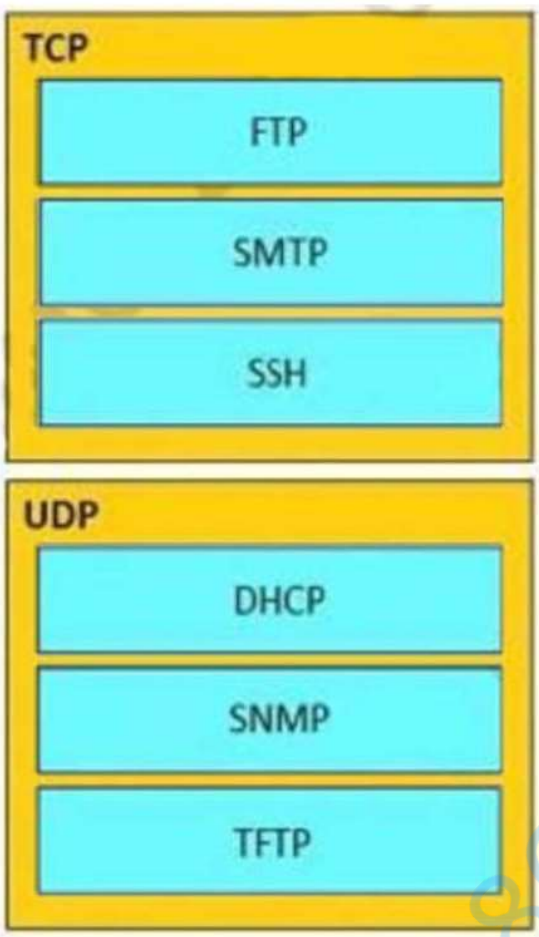


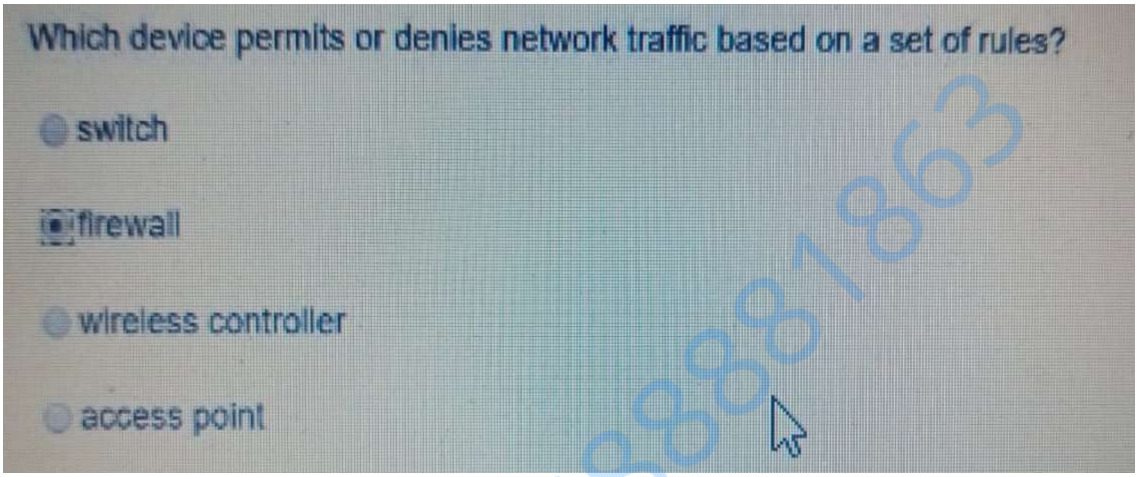
49. Refer to the exhibit. The show ip ospf interface command has been executed on R1. How is OSPF configured?

```
Designated Router (ID) 10.11.11.11, Interface address 10.10.10.1
Backup Designated router (ID) 10.3.3.3, Interface address 10.10.10.3
Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
oob-resync timeout 40
Hello due in 00:00:08
Supports Link-local Signaling(LLS)
Cisco NSF helper support enabled
IETF NSF helper support enabled
Index 1/1/1, flood queue length 0
Next 0x0(0)/0x0(0)/0x0(0)
Last flood scan time is 0 msec, maximum is 6
Last flood scan time is 0 msec, maximum is 1 msec
Neighbor Count is 3, Adjacent neighbor count is 3
Adjacent with neighbor 10.1.1.4
Adjacent with neighbor 10.2.2.2
Adjacent with neighbor 10.3.3.3(Backup Designated Router)
Suppress hello for 0 neighbor(s)
```

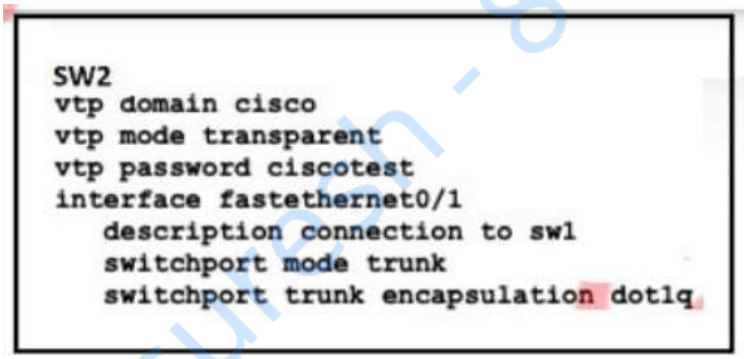
- A. The interface is not participating in OSPF
- B. A point-to-point network type is configured
- C. The default Hello and Dead timers are in use
- D. There are six OSPF neighbors on this interface

Correct Answer: C

Which device permits or denies network traffic based on a set of rules?



33. Refer to Exhibit. How does SW2 interact with other switches in this VTP domain?



- A. It processes VTP updates from any VTP clients on the network on its access ports
- B. It receives updates from all VTP servers and forwards all locally configured VLANs out all trunk ports
- C. It forwards only the VTP advertisements that it receives on its trunk ports
- D. It transmits and processes VTP updates from any VTP Clients on the network on its trunk ports

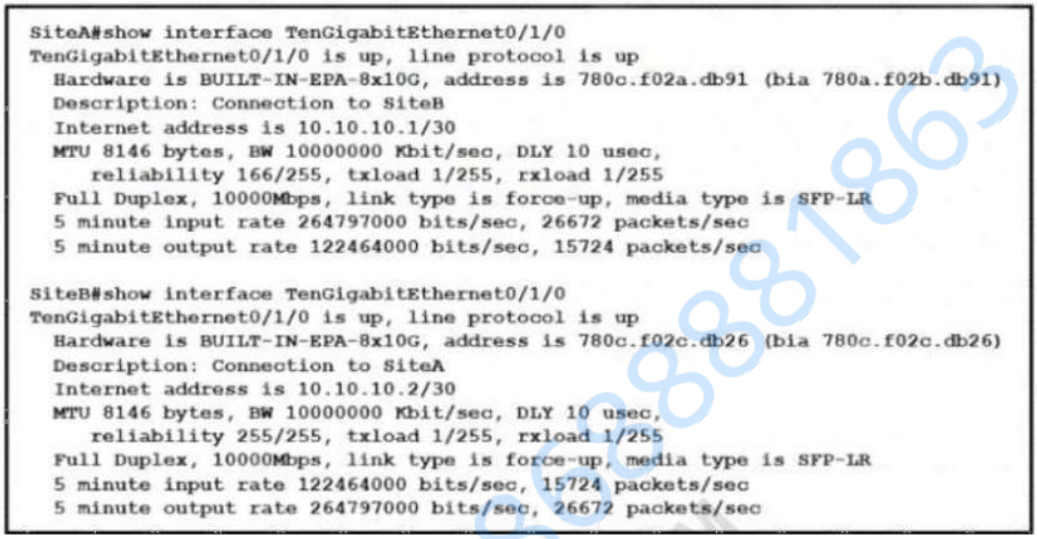
Correct Answer: C

236. By default, how Does EIGRP determine the metric of a route for the routing table?

- A. it uses the bandwidth and delay values of the path to calculate the route metric

- B. it uses a default metric of 10 for all routes that are learned by the router
- C. it uses a reference Bandwidth and the actual bandwidth of the connected link to calculate the route metric
- D. it counts the number of hops between the receiving and destination routers and uses that value as the metric

Correct Answer: A



```
SiteA#show interface TenGigabitEthernet0/1/0
TenGigabitEthernet0/1/0 is up, line protocol is up
  Hardware is BUILT-IN-EPA-8x10G, address is 780c.f02a.db91 (bia 780a.f02b.db91)
  Description: Connection to SiteB
  Internet address is 10.10.10.1/30
  MTU 8146 bytes, BW 10000000 Kbit/sec, DLY 10 usec,
     reliability 166/255, txload 1/255, rxload 1/255
  Full Duplex, 10000Mbps, link type is force-up, media type is SFP-LR
  5 minute input rate 264797000 bits/sec, 26672 packets/sec
  5 minute output rate 122464000 bits/sec, 15724 packets/sec

SiteB#show interface TenGigabitEthernet0/1/0
TenGigabitEthernet0/1/0 is up, line protocol is up
  Hardware is BUILT-IN-EPA-8x10G, address is 780c.f02c.db26 (bia 780c.f02c.db26)
  Description: Connection to SiteA
  Internet address is 10.10.10.2/30
  MTU 8146 bytes, BW 10000000 Kbit/sec, DLY 10 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Full Duplex, 10000Mbps, link type is force-up, media type is SFP-LR
  5 minute input rate 122464000 bits/sec, 15724 packets/sec
  5 minute output rate 264797000 bits/sec, 26672 packets/sec
```

- A. Interface errors are incrementing
- B. An incorrect SFP media type was used at SiteA
- C. High usage is causing high latency
- D. The sites were connected with the wrong cable type

Correct Answer: C

329. A port security violation has occurred on a switch port due to the maximum MAC address count
being exceeded Which command must be configured to increment the security-violation count and
forward an SNMP trap?

- A. switchport port-security violation access
- B. switchport port-security violation protect
- C. switchport port-security violation restrict
- D. switchport port-security violation shutdown

Correct Answer: C

430. Refer to the exhibit. Shortly after SiteA was connected to SiteB over a new single-mode fiber pathusers at SiteA report intermittent connectivity issues with applications hosted at SiteB What is the causeof the intermittent connectivity issue?

Refer to the exhibit.

Router R4 is dynamically learning the path to the server. If R4 is connected to R1 via OSPF Area 20, to R2 via R2 BGP, and to R3 via EIGRP 777, which path is installed in the routing table of R4?

A. the path through R2, because the EBGP administrative distance is 20
B. the path through R2, because the IBGP administrative distance is 200
C. the path through R1, because the OSPF administrative distance is 110
D. the path through R3, because the EIGRP administrative distance is lower than OSPF and BGP

Answer: A

321. What mechanism carries multicast traffic between remote sites and supports encryption?

- A. ISATAP
- B. GRE over iPsec
- C. iPsec over ISATAP
- D. GRE

Correct Answer: B

443. When a WLAN with WPA2 PSK is configured in the Wireless LAN Controller GUI which format is supported?

- A. Unicode
- B. base64
- C. decimal
- D. ASCII

Correct Answer: D

Refer to the exhibit.

An extended ACL has been configured and applied to router R2. The configuration failed to work as intended. Which two changes stop outbound traffic on TCP ports 25 and 80 to 10.0.20.0/26 from the 10.0.10.0/26 subnet while still allowing all other traffic? (Choose two)

A. Add a “permit ip any any” statement to the beginning of ACL 101 for allowed traffic
B. Add a “permit ip any any” statement at the end of ACL 101 for allowed traffic
C. The source and destination IPs must be swapped in ACL 101
D. The ACL must be configured the Gi0/2 interface inbound on R1
E. The ACL must be moved to the Gi0/1 interface outbound on R2

Answer: B C

Question 3

A network analyst is tasked with configured the date and time on a router using EXEC mode.

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The date must be set to 12:00am. Which command should be used?
A. Clock timezone
B. Clock summer-time-recurring
C. Clock summer-time date
D. Clock set
Answer: D

209. Router R1 must send all traffic without a matching routing-table entry to 192.168.1.1. Which configuration accomplishes this task?

- A. R1# config t
R1(config)# ip routing
R1(config)# ip route default-route 192.168.1.1

- B. R1# config t
R1(config)# ip routing
R1(config)# ip route 192.168.1.1 0.0.0.0 0.0.0.0

- C. R1# config t
R1(config)# ip routing
R1(config)# ip route 0.0.0.0 0.0.0.0 192.168.1.1

- D. R1# config t
R1(config)# ip routing
R1(config)# ip default-gateway 192.168.1.1

Correct Answer: C

348. An engineer must configure Interswitch VLAN communication between a Cisco switch and a thirdparty switch. Which action should be taken?
- A. configure IEEE 802.1p
- B. configure IEEE 802.1q
- C. configure ISL
- D. configure DSCP

Correct Answer: B

Question 22
What is the role of a firewall in an enterprise network?
A. determines which packets are allowed to cross from unsecured to secured networks
B. processes unauthorized packets and allows passage to less secure segments of the network
C. forwards packets based on stateless packet inspection
D. explicitly denies all packets from entering an administrative domain
Answer: A

222. What event has occurred if a router sends a notice level message to a syslog server?
- A. A TCP connection has been torn down
- B. An ICMP connection has been built

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- C. An interface line has changed status
- D. A certificate has expired

Correct Answer: C

299. An engineer is configuring NAT to translate the source subnet of 10.10.0.0/24 to any of three addresses 192.168.3.1, 192.168.3.2, 192.168.3.3 . Which configuration should be used?

- A.

enable
configure terminal
ip nat pool mypool 192.168.3.1 192.168.3.3 prefix-length 30
route-map permit 10.10.0.0 255.255.255.0
ip nat outside destination list 1 pool mypool
interface g1/1
ip nat inside
interface g1/2
ip nat outside

- B.

enable
configure terminal
ip nat pool mypool 192.168.3.1 192.168.3.3 prefix-length 30
access-list 1 permit 10.10.0.0 0.0.0.254
ip nat inside source list 1 pool mypool
interface g1/1
ip nat inside
interface g1/2
ip nat outside

- C.

enable
configure terminal
ip nat pool mypool 192.168.3.1 192.168.3.3 prefix-length 30
access-list 1 permit 10.10.0.0 0.0.0.255
ip nat inside source list 1 pool mypool
interface g1/1
ip nat inside
interface g1/2
ip nat outside

- D.

enable
configure terminal
ip nat pool mypool 192.168.3.1 192.168.3.3 prefix-length 30
access-list 1 permit 10.10.0.0 0.0.0.255
ip nat outside destination list 1 pool mypool

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interface g1/1
ip nat inside
interface g1/2
ip nat outside
Correct Answer: C

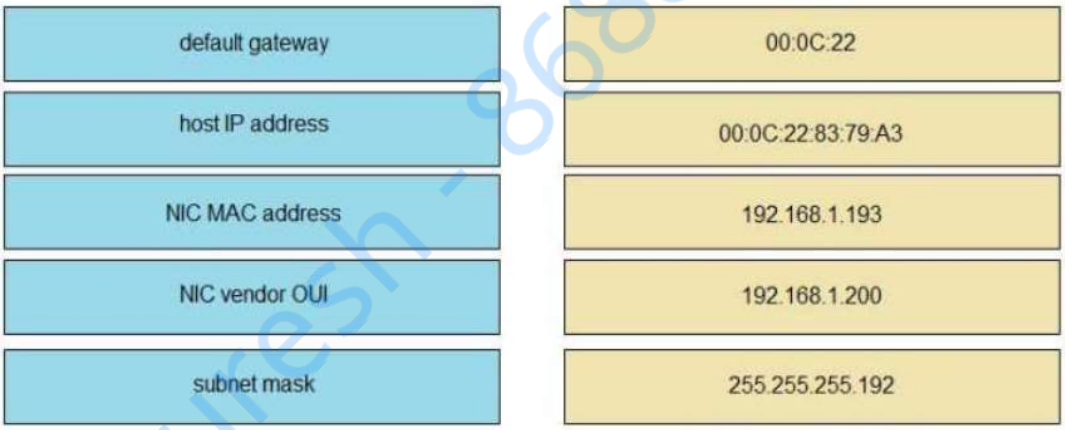
5. Refer to the exhibit.

```
[root#HostTime =]# ip route
default via 192.168.1.193 dev eth1 proto static
192.168.1.0/26 dev sth1 proto kernel scope link src 192.168.1.200 metric 1

[root#HostTime =]# ip addr show eth1
eth1:mtu 1500 qdisc pfifo_fast qlan 1000
   link/ether 00:0C:22:83:79:A3 brd ff:ff:ff:ff:ff:ff
   inet 192.168.1.200/26 hrd 192.168.1.255 scope global eth1
   inet6 fe80::20c::29ff:fe89:79b3/64 scope link
   valid_lft forever preferred_lft forever
```

Drag and drop the networking parameters from the left onto the correct values on the right.

Select and Place:



Answer area

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NIC vendor OUI

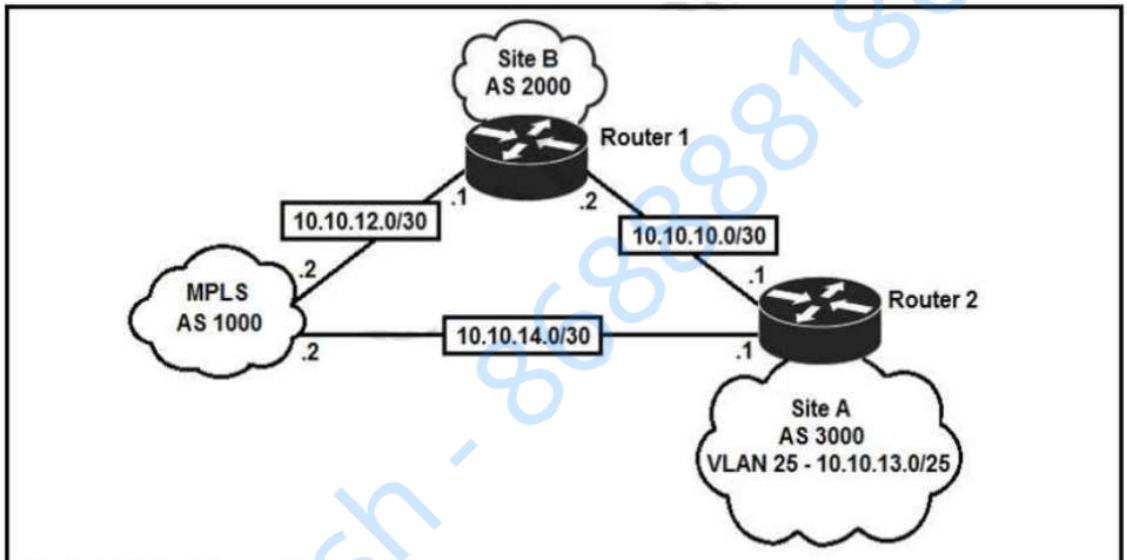
NIC MAC address

default gateway

host IP address

subnet mask

52. Refer to the exhibit.




```
Router1#show ip route
Gateway of last resort is 10.10.11.2 to network 0.0.0.0
     10.0.0.0/8 is variably subnetted, 8 subnets, 4 masks
C        10.10.10.0/28 is directly connected, GigabitEthernet0/0
C        10.10.11.0/30 is directly connected, FastEthernet2/0
O        10.10.13.0/25 [110/2] via 10.10.10.1, 00:00:17, GigabitEthernet0/0
O        10.10.13.128/28 [110/2] via 10.10.10.1, 00:33:38, GigabitEthernet0/0
O        10.10.13.144/28 [110/2] via 10.10.10.1, 00:33:38, GigabitEthernet0/0
O        10.10.13.160/29 [110/2] via 10.10.10.1, 00:33:38, GigabitEthernet0/0
O        10.10.13.208/30 [110/2] via 10.10.10.1, 00:33:39, GigabitEthernet0/0
O        10.10.13.252/30 [110/2] via 10.10.10.1, 00:33:39, GigabitEthernet0/0
S*   0.0.0.0/0 [1/0] via 10.10.11.2
```

An engineer is bringing up a new circuit to the MPLS provider on the Gi0/1 interface of Router1. The new circuit uses eBGP and teams the route to VLAN25 from the BGP path. What is the expected behaviour for the traffic flow for route 10.10.13.0/25?

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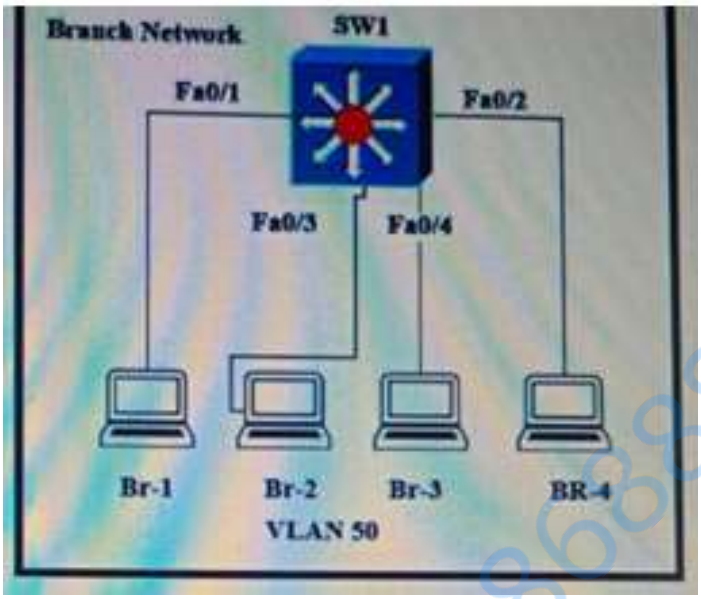
A. Traffic to 10.10.13.0.25 is load balanced out of multiple interfaces
• B. Route 10.10.13.0/25 is updated in the routing table as being learned from interface Gi0/1
• C. Traffic to 10.10.13.0/25 is a symmetrical
• D. Route 10.10.13.0/25 learned via the Gi0/0 interface remains in the routing table
Correct Answer: D

Q no: 55



Refer to the exhibit. The entire mac address table for sw1 is shown here:

What does sw1 do when Br-4 sends a frame to Br-2?

A It performs a lookup in the mac address table

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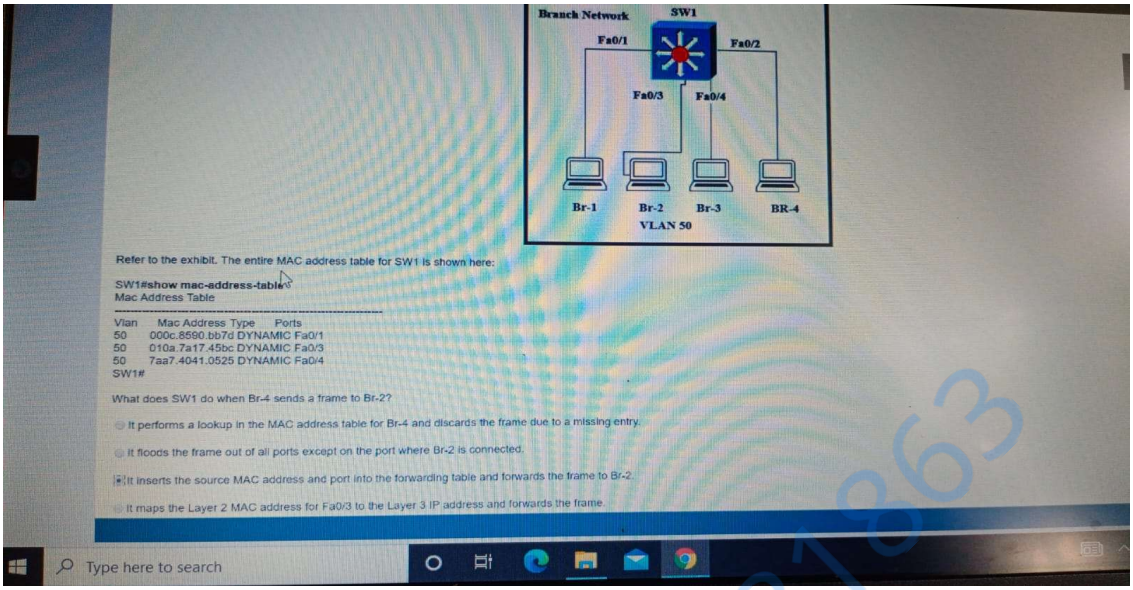

282. In which two ways does a password manager reduce the chance of a hacker stealing a user's
password? (Choose two)

- A. It automatically provides a second authentication factor that is unknown to the original user
- B. It uses an internal firewall to protect the password repository from unauthorized access
- C. It protects against keystroke logging on a compromised device or web site
- D. It stores the password repository on the local workstation with built-in antivirus and antimalware functionality
- E. It encourages users to create stronger passwords

Correct Answer: C E

92. Which API is used in controller-based architectures to interact with edge devices?

- A. overlay
- B. northbound
- C. underlay
- D. southbound

Correct Answer: D

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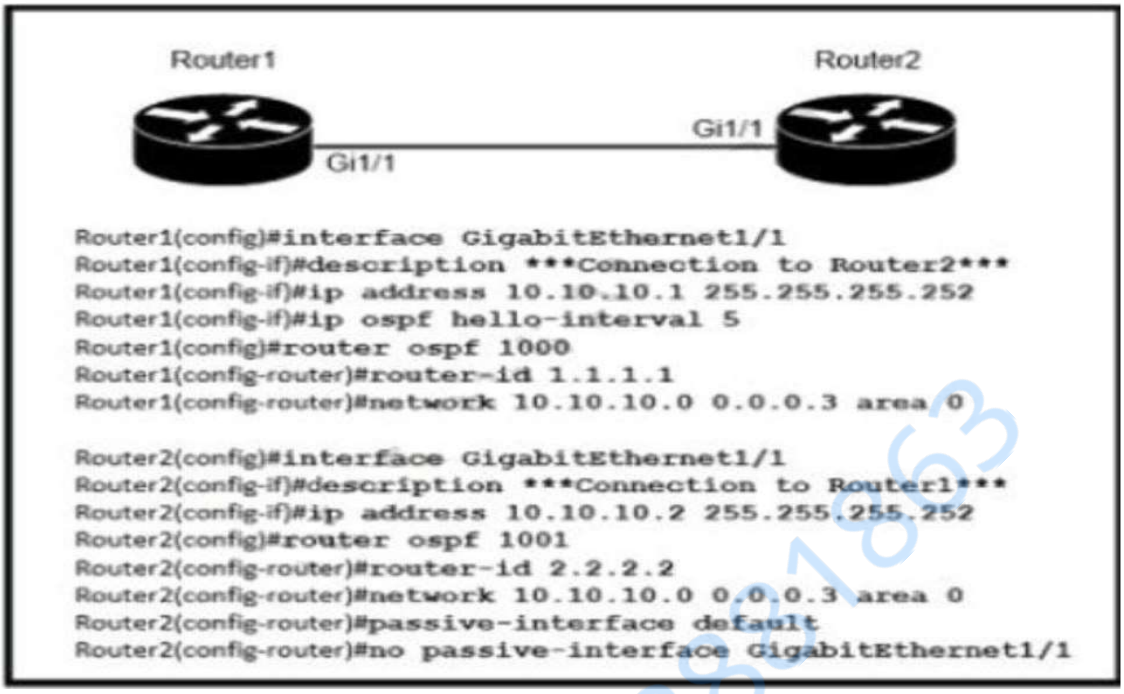
230. Refer to the exhibit.



After the configuration is applied, the two routers fail to establish an OSPF neighbor relationship. what is the reason for the problem?

- A. The OSPF router IDs are mismatched
- B. Router2 is using the default hello timer
- C. The network statement on Router1 is misconfigured
- D. The OSPF process IDs are mismatched

Correct Answer: B

Question 24

25. Drag the descriptions of IP protocol transmissions from the left onto the IP traffic types on the right

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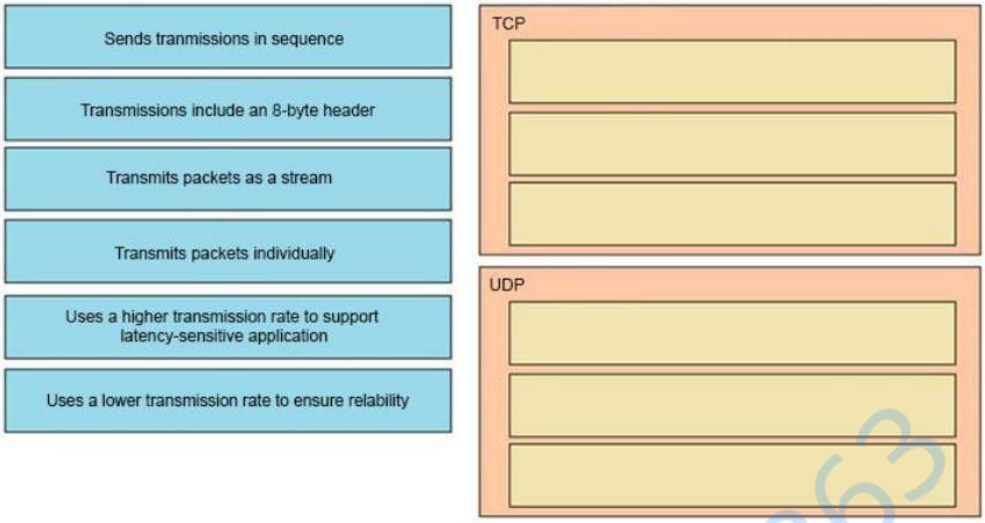
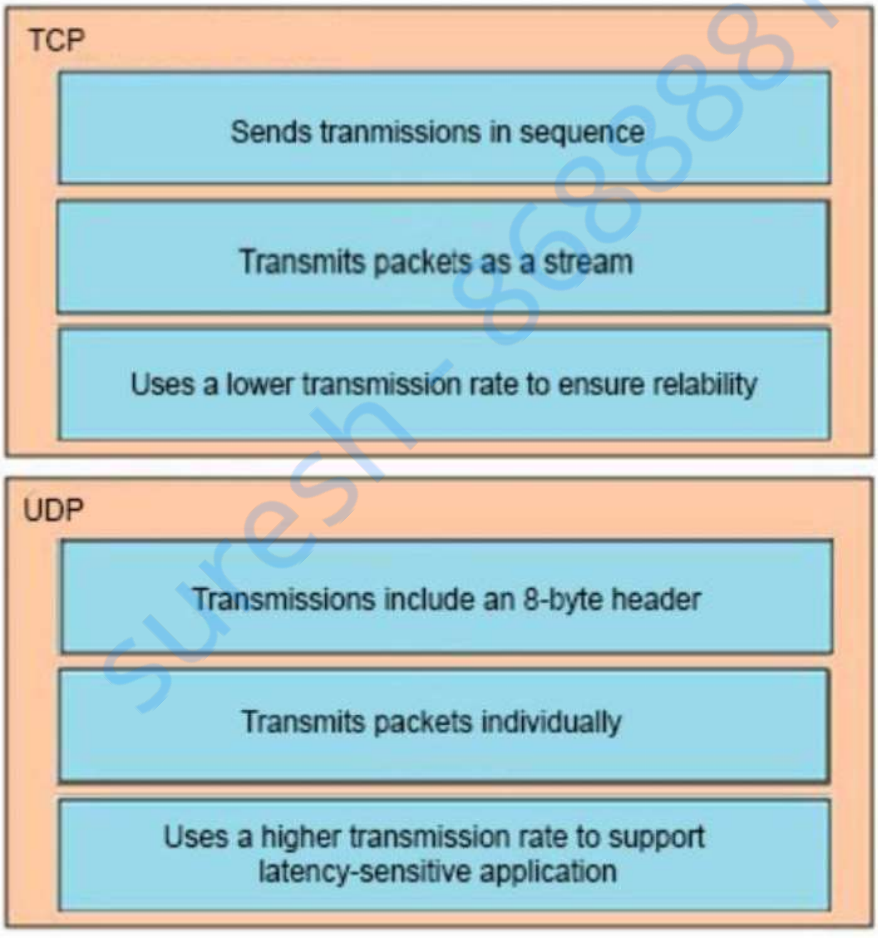


ANSWER AREA



a

the sw1 interface g0/1 is in the down/down state. What are two reasons for the interface condition? (choose two)

A there is a speed mismatch

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B The interface is error-disabled

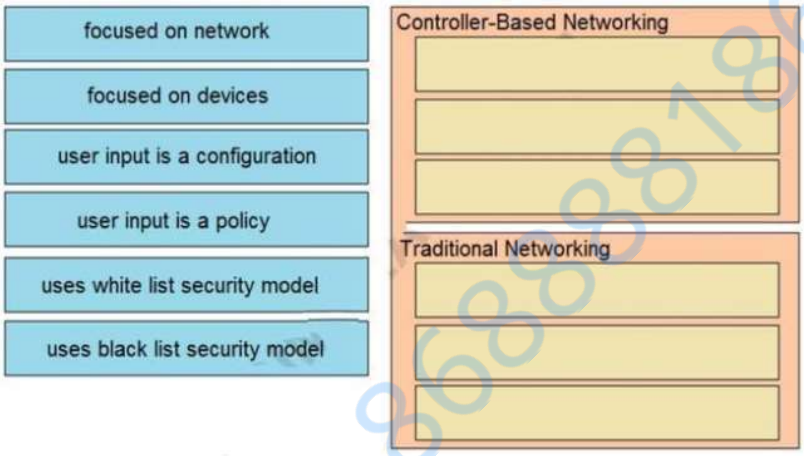
C There is a duplex mismatch

D The interface is shut down

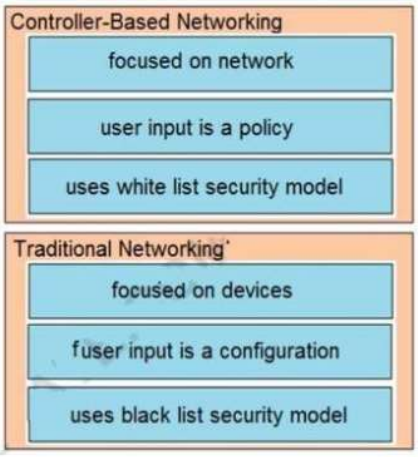
E There is a protocol mismatch

Answer B D

21. Drag and drop the characteristics of networking from the left onto the correct networking types onthe right.



Correct Answer:



me

37. Router A learns the same route from two different neighbors, one of the neighbor routers is an OSPF neighbor and the other is an EIGRP neighbor. What is the administrative distance of the route that will be installed in the routing table?

- A. 20
- B. 90
- C. 110

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• D. 115

Correct Answer: B

414. Which condition must be met before an NMS handles an SNMP trap from an agent?

• A. The NMS software must be loaded with the MIB associated with the trap

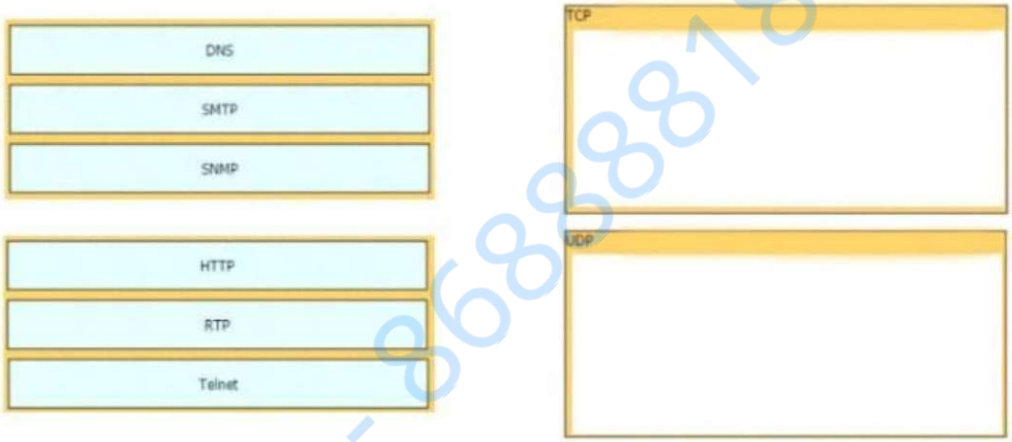
• B. The NMS must be configured on the same router as the SNMP agent

• C. The NMS must receive a trap and an inform message from the SNMP agent within a configured interval

• D. The NMS must receive the same trap from two different SNMP agents to verify that it is reliable

Correct Answer: A

35. Drag and drop the TCP/IP protocols from the left onto the transmission protocols on the right.



Correct Answer:

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402. Why does a switch flood a frame to all ports?

- A. The frame has zero destination MAC addresses
- B. The source MAC address of the frame is unknown
- C. The source and destination MAC addresses of the frame are the same
- D. The destination MAC address of the frame is unknown

Correct Answer: D

36. What are two reasons that cause late collisions to increment on an Ethernet interface? (Choose two)

- A. when the sending device waits 15 seconds before sending the frame again
- B. when the cable length limits are exceeded
- C. when one side of the connection is configured for half-duplex
- D. when Carriner Sense Multiple Access/Collision Detection is used
- E. when a collision occurs after the 32nd byte of a frame has been transmitted

Correct Answer: B C

84. Which statement correctly compares traditional networks and controller-based networks?

- A. Only traditional networks offer a centralized control plane
- B. Only traditional networks natively support centralized management
- C. Traditional and controller-based networks abstract policies from device configurations
- D. Only controller-based networks decouple the control plane and the data plane

Correct Answer: D

33. Drag and drop the characteristics of network architectures from the left onto the type of architectureon the right.

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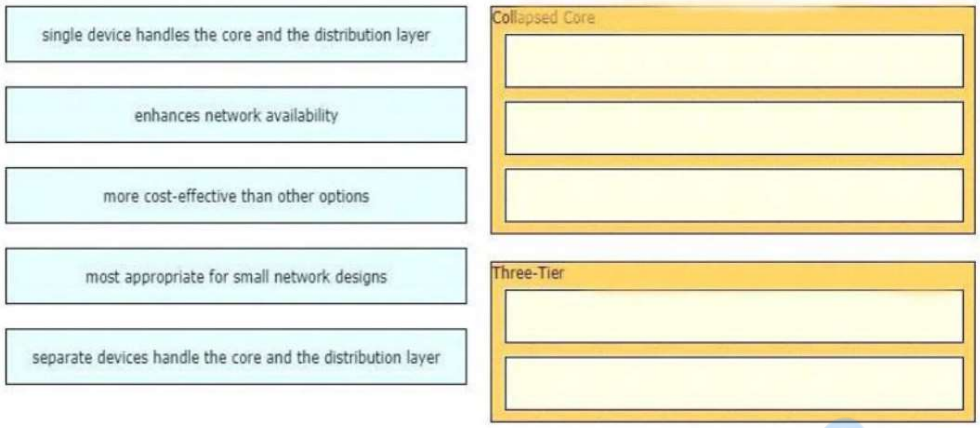
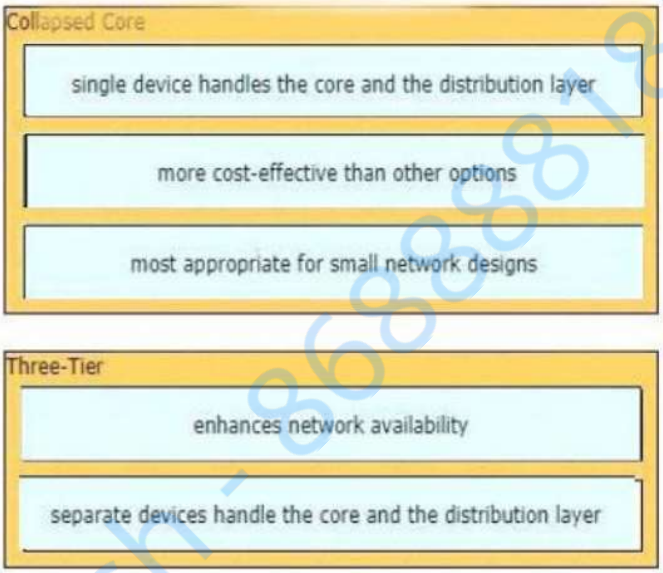


Correct Answer:



Question 32

An implementer is preparing hardware for virtualization to create virtual machines on a host. What is
needed to provide communication between hardware and virtual machines?

A. straight cable

B. router

C. hypervisor

D. switch

Answer: C

42. Refer to the exhibit. Which route does R1 select for traffic that is destined to 192 168.16.2?

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```
CertBus-R1#show ip route

D       192.168.16.0/26  [90/2679326]  via 192.168.1.1
R       192.168.16.0/24  [120/3]  via 192.168.1.2
O       192.168.16.0/21  [110/3]  via 192.168.1.3
i  L1   192.168.16.0/27  [115/3]  via 192.168.1.4
```

- A. 192.168.16.0/21
- B. 192.168.16.0/24
- C. 192.168 26.0/26
- D. 192.168.16.0/27

Correct Answer: D

1. What are two benefits of network automation? (Choose two)

- A. reduced operational costs
- B. reduced hardware footprint
- C. faster changes with more reliable results
- D. fewer network failures
- E. increased network security

Correct Answer: A C

240. Refer to the exhibit.

```
SW1#show run int gig 0/1
interface GigabitEthernet0/1
 switchport access vlan 11
 switchport trunk allowed vlan 1-10
 switchport trunk encapsulation dot1q
 switchport trunk native vlan 5
 switchport mode trunk
 speed 1000
 duplex full
```

Which action is expected from SW1 when the untagged frame is received on the GigabitEthernet0/1 interface?

- A. The frame is processed in VLAN 5
- B. The frame is processed in VLAN 11
- C. The frame is processed in VLAN 1

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- D. The frame is dropped

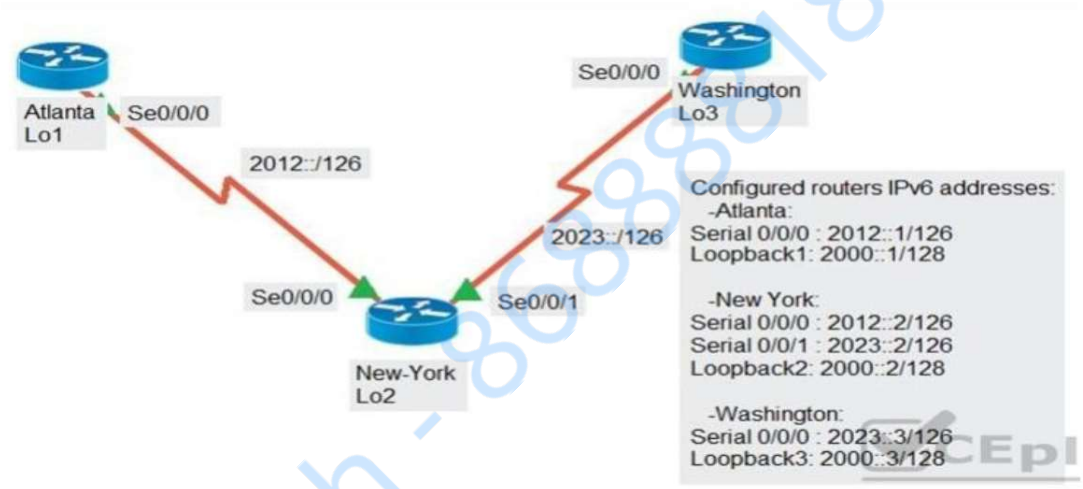
Correct Answer: A

344. Which CRUD operation modifies an existing table or view?

- A. read
- B. create
- C. replace
- D. update

Correct Answer: D

70. Refer to the exhibit. The New York router is configured with static routes pointing to the Atlanta and Washington sites. Which two tasks must be performed so that the Serial0/0/0 interfaces on the Atlanta and Washington routers can reach one another? (Choose two)



- A. Configure the ipv6 route 2012::/126 2023::1 command on the Washington router
- B. Configure the ipv6 route 2023::/126 2012::1 command on the Atlanta router
- C. Configure the Ipv6 route 2012::/126 s0/0/0 command on the Atlanta router
- D. Configure the ipv6 route 2023::/126 2012::2 command on the Atlanta router
- E. Configure the ipv6 route 2012::/126 2023::2 command on the Washington router

Correct Answer: D E

251. Refer to the exhibit. Which two commands when used together create port channel 10? (Choose two)

Switch#show etherchannel summary
[output omitted]

Group	Port-channel	Protocol	Ports	
10	Po10(SU)	LACP	Gi0/0(P)	Gi0/1(P)
20	Po20(SU)	LACP	Gi0/2(P)	Gi0/3(P)

- A. int range g0/0-1
channel-group 10 mode active
- B. int range g0/0-1
channel-group 10 mode desirable
- C. int range g0/0-1
channel-group 10 mode passive
- D. int range g0/0-1
channel-group 10 mode auto
- E. int range g0/0-1
channel-group 10 mode on

Correct Answer: A C

217. While examining excessive traffic on the network, it is noted that all incoming packets on an interface appear to be allowed even though an IPv4 ACL is applied to the interface. Which two misconfigurations cause this behavior? (Choose two)

- A. The packets fail to match any permit statement
- B. A matching permit statement is too high in the access test
- C. A matching permit statement is too broadly defined
- D. The ACL is empty
- E. A matching deny statement is too high in the access list

Correct Answer: B C

433. Which security program element involves installing badge readers on data-center doors to allow workers to enter and exit based on their job roles?

- A. role-based access control
- B. biometrics
- C. multifactor authentication
- D. physical access control

Correct Answer: D

116. Refer to the exhibit. The *default-information originate* command is configured under the R1 OSPF configuration. After testing, workstations on VLAN 20 at Site B cannot reach a DNS server on the Internet. Which action corrects the configuration issue?

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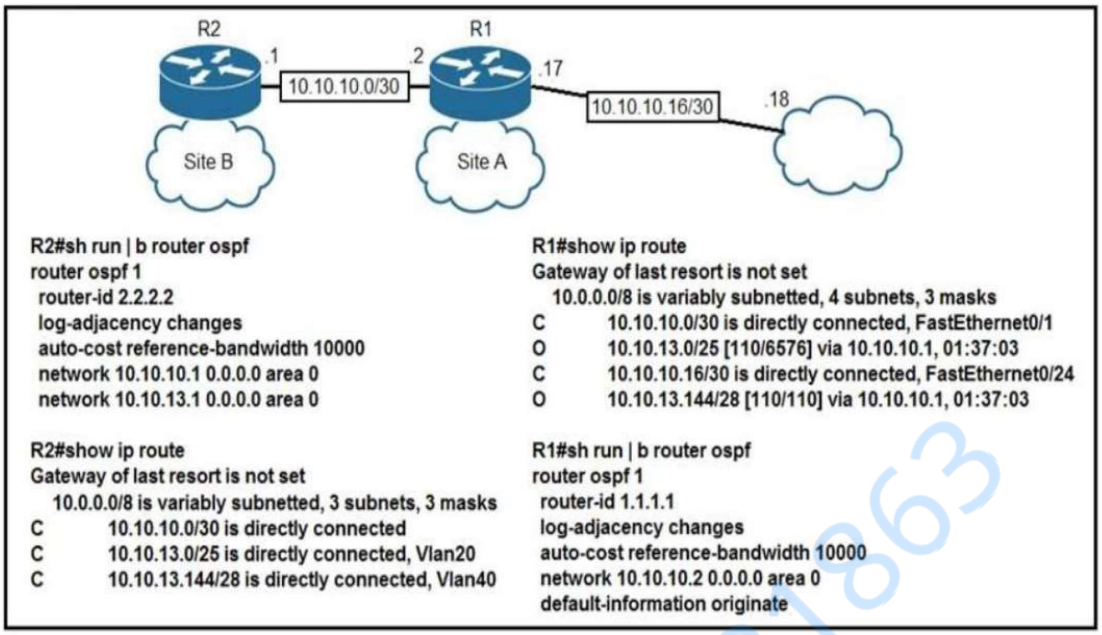

- A. Add the default-information originate command on R2
- B. Add the always keyword to the default-information originate command on R1
- C. Configure the ip route 0.0.0.0 0.0.0.0 10.10.10.18 command on R1
- D. Configure the ip route 0.0.0.0 0.0.0.0 10.10.10.2 command on R2

Correct Answer: C

Question 53

Refer to the exhibit.

```
R1#show ip route
Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route
       o - ODR, P - periodic downloaded static route

Gateway of last resort is 192.168.30.10 to network 0.0.0.0

     192.168.30.0/29 is subnetted, 2 subnets
C       192.168.30.0 is directly connected, FastEthernet0/0
C       192.168.30.8 is directly connected, Serial0/0.1
     192.168.10.0/24 is variably subnetted, 2 subnets, 2 masks
O IA    192.168.10.32/28 [110/193] via 192.168.30.10, 00:11:34, Serial0/0.1
O IA    192.168.10.0/27 [110/192] via 192.168.30.10, 00:11:34, Serial0/0.1
     192.168.20.0/30 is subnetted, 1 subnets


O IA    192.168.20.0 [110/128] via 192.168.30.10, 00:11:34, Serial0/0.1
     192.168.50.0/32 is subnetted, 1 subnets
C       192.168.50.1 is directly connected, Loopback0
O*IA 0.0.0.0/0 [110/84] via 192.168.30.10, 00:11:21, Serial0/0.1
```

What is the metric of the route to the 192.168.10.33/28 subnet?

A. 84

B. 110

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C. 128
D. 192
E. 193
Answer: E

86. Refer to the exhibit. With which metric was the route to host 172.16.0.202 learned?

```
CertBus-R1#show ip route | begin gateway
Gateway of last resort is 209.165.200.246 to network 0.0.0.0
S*  0.0.0.0/0 [1/0] via 209.165.200.246, Serial0/1/0 is directly connected, Serial0/1/0

     172.16.0.0/16 is variably subnetted, 3 subnets, 3 masks
S       172.16.0.0/24 [1/0] via 207.165.200.250, Serial0/0/0
O       172.16.0.128/25 [110/38443] via 207.165.200.254, 00:00:23, Serial0/0/1
D       172.16.0.192/29 [90/3184439] via 207.165.200.254, 00:00:25, Serial0/0/1
     209.165.200.0/24 is variably subnetted, 4 subnets, 2 masks
C       209.165.200.248/30 is directly connected, Serial0/0/0
L       209.165.200.249/32 is directly connected, Serial0/0/0
C       209.165.200.252/30 is directly connected, Serial0/0/1
L       209.165.200.253/32 is directly connected, Serial0/0/1
```

.A. 0
- B. 110
- C. 38443
- D. 3184439

Correct Answer: C

431

What are two benefits of using the PortFast feature? (Choose two)
A. Enabled interfaces are automatically placed in listening state
B. Enabled interfaces wait 50 seconds before they move to the forwarding state
C. Enabled interfaces never generate topology change notifications.
D. Enabled interfaces that move to the learning state generate switch topology change notifications
E. Enabled interfaces come up and move to the forwarding state immediately
Answer: C E

431. Refer to the exhibit. An engineer must configure GigabitEthernet1/1 to accommodate voice and data traffic Which configuration accomplishes this task?

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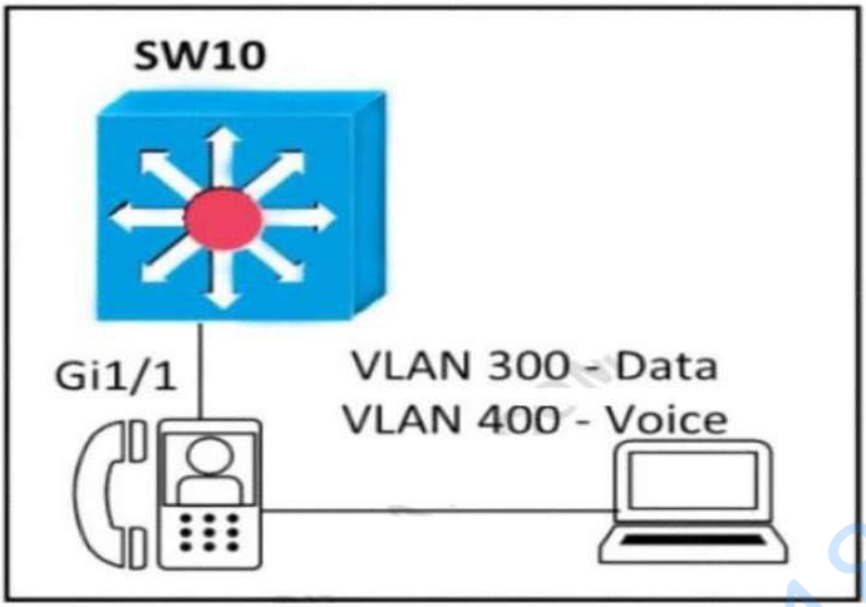

A
```
interface gigabitethernet1/1
switchport mode access
switchport access vlan 300
switchport voice vlan 400
```

B
```
interface gigabitethernet1/1
switchport mode trunk
switchport trunk vlan 300
switchport voice vlan 400
```

C
```
interface gigabitethernet1/1
switchport mode trunk
switchport trunk vlan 300
switchport trunk vlan 400
```

D
```
interface gigabitethernet1/1
switchport mode access
switchport voice vlan 300
switchport access vlan 400
```

Correct Answer: A

Question 34

Which QoS tool can you use to optimize voice traffic on a network that is primarily intended for data
traffic?

A. WRED
B. FIFO
C. PQ
D.WFQ
Answer: C

78. When a site-to-site VPN is used, which protocol is responsible for the transport of user data?

- A. IKEv2
- B. IKEv1
- C. IPsec
- D. MD5

Correct Answer: C

295. An organization secures its network with multi-factor authentication using an authenticator app on employee smartphones. How is the applic secured in the case of a user's smartphone being lost or stolen?

- A. The application requires the user to enter a PIN before it provides the second factor
- B. the application challenges a user by requiring an administrator password to reactivate when the smartphone is rebooted
- C. The application requires an aadministrator password to reactivate after a configured interval
- D. The application verifies that the user is in a specific location before it provides the second factor

Correct Answer: A

233. Refer to the exhibit. Router R1 Fa0/0 cannot ping router R3 Fa0/1. Which action must be taken in router R1 to help resolve the configuration issue?

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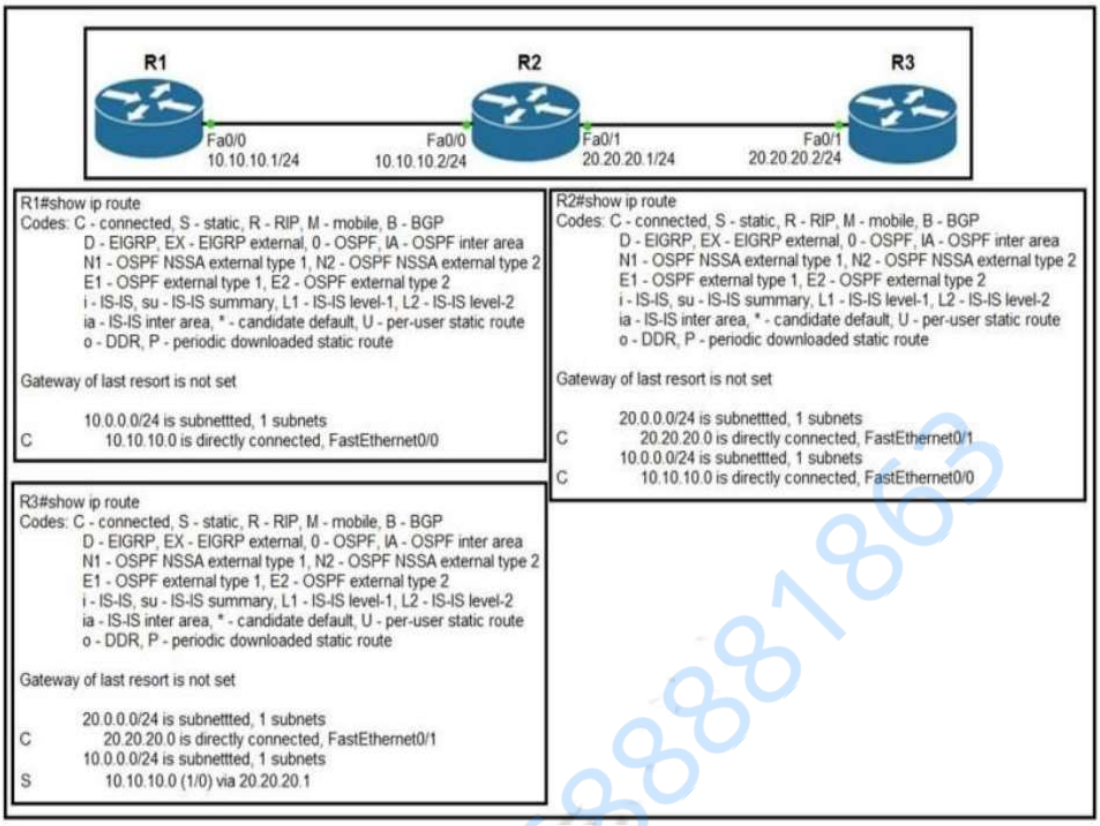

- A. set the default network as 20.20.20.0/24
- B. set the default gateway as 20.20.20.2
- C. configure a static route with Fa0/1 as the egress interface to reach the 20.20.20.0/24 network
- D. configure a static route with 10.10.10.2 as the next hop to reach the 20.20.20.0/24 network

Correct Answer: D

9. Drag drop the descriptions from the left on to the correct configuration-management technologies on the right.

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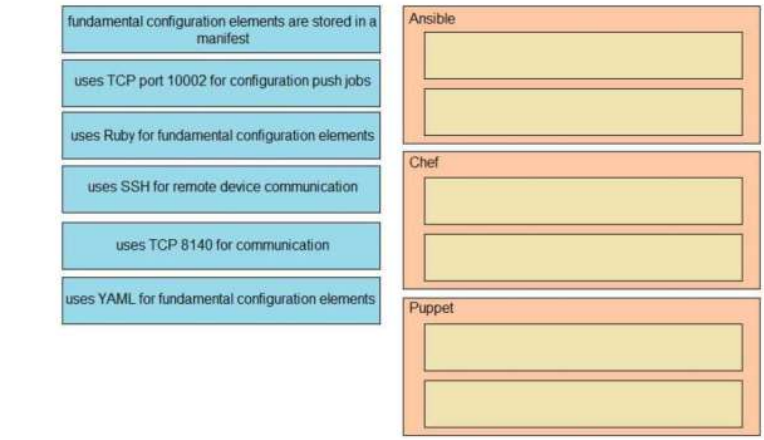
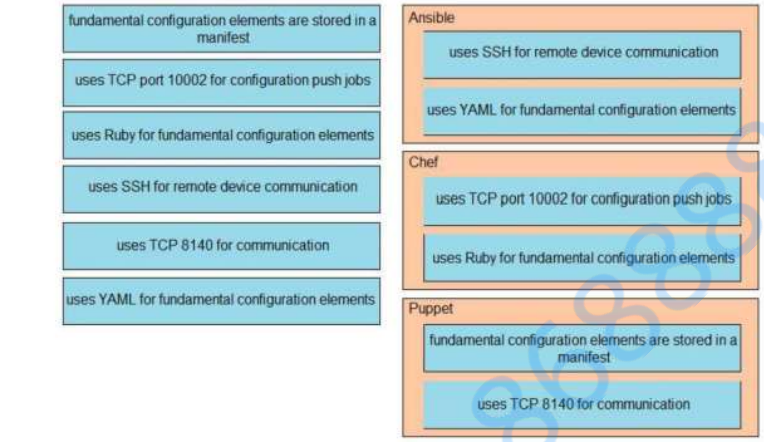
Select and Place:



Correct Answer:



Question 50

Which plane is centralized by an SON controller?

A. data plane

B. management plane

C. control plane

D. services plane

Answer: C

Question 18

Where is the interface between the control plane and data plane within the software-defined architecture?

A. application layer and the management layer

B. application layer and the infrastructure layer

C. control layer and the application layer

D. control layer and the infrastructure layer

Answer: D

Question 49

Which function is performed by DHCP snooping?

A. rate-limits certain traffic

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B. listens to multicast traffic for packet forwarding
C. provides DDoS mitigation
D. propagates VLAN information between switches
Answer: A

429. When deploying syslog, which severity level logs informational messages?
- A. 0
- B. 2
- C. 4
- D. 6

Correct Answer: D

Question 31
When a client and server are not on the same physical network, which device is used to forward
requests and replies between client and server for DHCP?
A. DHCP relay agent
B. DHCP server
C. DHCPDISCOVER
D. DHCPOFFER
Answer: A

294. When the active router in an HSRP group fails, which router assumes the role and forwards packets?
- A. forwarding
- B. backup
- C. standby
- D. listening

Correct Answer: C

437. Which protocol does an access point use to draw power from a connected switch?
- A. Internet Group Management Protocol
- B. Adaptive Wireless Path Protocol
- C. Cisco Discovery Protocol
- D. Neighbor Discovery Protocol

Correct Answer: C

27. Refer to the exhibit

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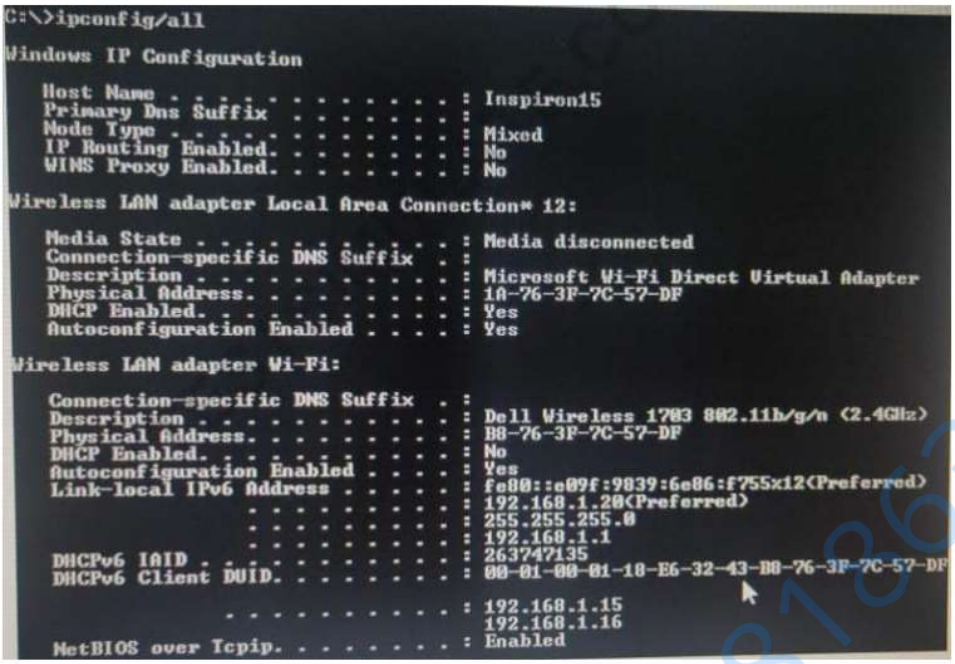

An engineer is tasked with verifying network configuration parameters on a client workstation to report back to the team lead. Drag and drop the node identifiers from the left onto the network parameters on the right.

192.168.1.1	broadcast address
192.168.1.20	default gateway
192.168.1.254	host IP address
192.168.1.255	last assignable IP address in the subnet
B8-76-3F-7C-57-DF	MAC address

Correct Answer:

192.168.1.1	broadcast address
192.168.1.20	default gateway
192.168.1.254	host IP address
192.168.1.255	last assignable IP address in the subnet
B8-76-3F-7C-57-DF	MAC address

91. When configuring a WLAN with WPA2 PSK in the Cisco Wireless LAN Controller GUI, which two formats are available to select? (Choose two)

- A. ASCII
- B. base64
- C. binary
- D. decimal

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- E. hexadecimal

Correct Answer: A E

206. What is a characteristic of spine-and-leaf architecture?

- A. Each device is separated by the same number of hops
- B. It provides variable latency
- C. It provides greater predictability on STP blocked ports
- D. Each link between leaf switches allows for higher bandwidth

Correct Answer: A

Question 30

Which two protocols must be disabled to increase security for management connections to a Wireless
LAN Controller? (Choose two)

A. Telnet
B. SSH
C. HTTP
D. HTTPS
E. TFTP

Answer: A C

300. An office has 8 floors with approximately 30-40 users per floor .What command must be configured on the router Switched Virtual Interface to use address space efficiently?

- A. ip address 192.168.0.0 255.255.0.0
- B. ip address 192.168.0.0 255.255.254.0
- C. ip address 192.168.0.0 255.255.255.128
- D. ip address 192.168.0.0 255.255.255.224

Correct Answer: B

380. Refer to the exhibit. A network administrator has been tasked with securing VTY access to a router.
Which access-list entry accomplishes this task?

- A. access-list 101 permit tcp 10.1.10 0.0.0.255 172.16.10 0.0.0.255 eq ssh
- B. access-list 101 permit tcp 10.11.0 0.0.0.255 172.16.10 0.0.0.255 eq scp
- C. access-list 101 permit tcp 10.11.0 0.0.0.255 172.16.10 0.0.0.255 eq telnet
- D. access-list 101 permit tcp 10.1.10 0.0.0.255 172.16.10 0.0.0.255 eq https

Correct Answer: A

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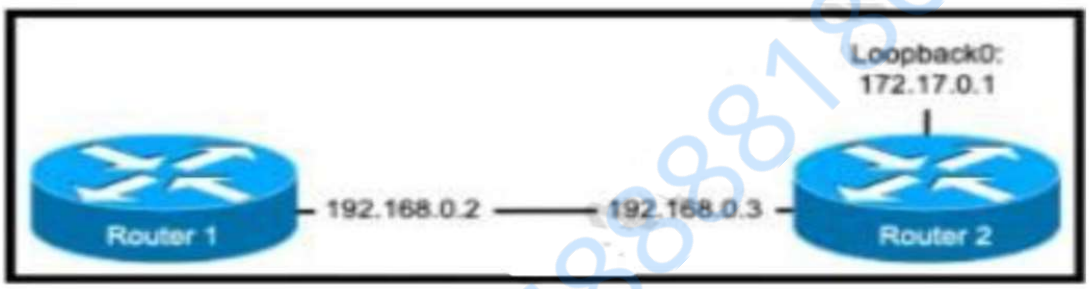
387. How does a Cisco Unified Wireless network respond to Wi-Fi channel overlap?

- A. It alternates automatically between 2.4 GHz and 5 GHz on adjacent access points
- B. It allows the administrator to assign channels on a per-device or per-interface basis
- C. It segregates devices from different manufacturers onto different channels
- D. It analyzes client load and background noise and dynamically assigns a channel

Correct Answer: A

400. Refer to the exhibit. The `ntp server 192.168.0.3` command has been configured on router 1 to make it an NTP client of router 2. Which command must be configured on router 2 so that it operates in server-only mode and relies only on its internal clock?



- A. Router2(config)#ntp passive
- B. Router2(config)#ntp server 172.17.0.1
- C. Router2(config)#ntp master 4
- D. Router2(config)#ntp server 192.168.0.2

Correct Answer: C

90. Which statement about Link Aggregation when implemented on a Cisco Wireless LAN Controller is true?

- A. To pass client traffic two or more ports must be configured
- B. The EtherChannel must be configured in “mode active”
- C. When enabled, the WLC bandwidth drops to 500 Mbps
- D. One functional physical port is needed to pass client traffic

Correct Answer: D

Answer: A

Question 23

What is the benefit of configuring PortFast on an interface?

A. After the cable is connected, the interface uses the fastest speed setting available for that

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cable type
B. The frames entering the interface are marked with higher priority and then processed faster by a switch
C. After the cable is connected, the interface is available faster to send and receive user data
D. Real-time voice and video frames entering the interface are processed faster
Answer: C

Question 46
Which two events occur automatically when a device is added to Cisco DNA Center? (Choose two)
A. The device is assigned to the Global site.
B. The device is placed into the Unmanaged state.
C. The device is placed into the Provisioned state.
D. The device is placed into the Managed state.
E. The device is assigned to the Local site.
Answer: A D

Question 44
An engineer configures interface Gi1/0 on the company PE router to connect to an ISP. Neighbor discovery is disabled.

```
interface Gi1/0
description HQ_DC3392-9383
duplex full
speed 100
negotiation auto
lldp transmit
lldp receive
```

Which action is necessary to complete the configuration if the ISP uses third-party network devices?
A. Enable LLDP globally
B. Disable autonegotiation
C. Disable Cisco Discovery Protocol on the interface
D. Enable LLDP-MED on the ISP device
Answer: A

288. Refer to the exhibit. A network administrator assumes a task to complete the connectivity between PC A and the File Server Switch A and Switch B have been partially configured with VLANs 10, 11, 12, and 13 What is the next step in the configuration?

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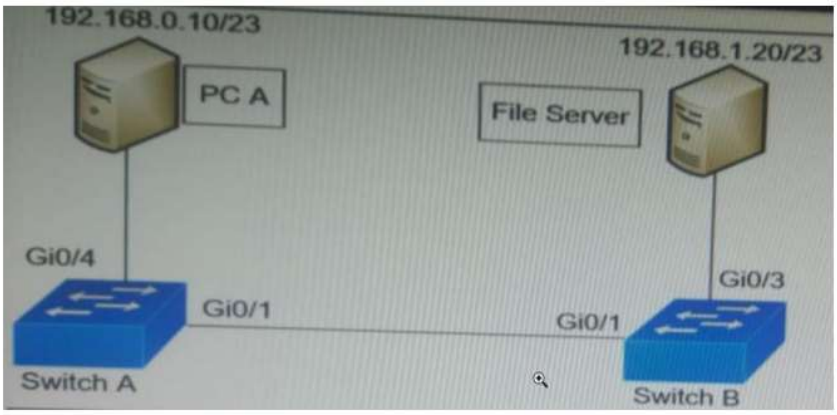

Switch A
Vlan 10,11,12,13

```
interface GigabitEthernet0/1
 switchport mode trunk
 switchport trunk allowed vlan 10-12
!
interface GigabitEthernet0/4
 switchport access vlan 13
 switchport mode access
```

Switch B
Vlan 10,11,12,13

```
interface GigabitEthernet0/1
switchport mode trunk
!
interface GigabitEthernet0/3
 switchport access vlan 13
 switchport mode access
```

- A. Add PDA to VLAN 10 and the File Server to VLAN 11 for VLAN segmentation
- B. Add VLAN 13 to the trunk links on Switch A and Switch B for VLAN propagation
- C. Add a router on a stick between Switch A and Switch B allowing for Inter VLAN routing
- D. Add PC A to the same subnet as the File Server allowing for intra-VLAN communication

Correct Answer: B

367. In which situation is private IPv4 addressing appropriate for a new subnet on the network of an organization?

- A. There is limited unique address space, and traffic on the new subnet will stay local within the organization
- B. The network has multiple endpoint listeners, and it is desired to limit the number of broadcasts
- C. Traffic on the subnet must traverse a site-to-site VPN to an outside organization
- D. The ISP requires the new subnet to be advertised to the internet for web services

Correct Answer: A

24. Drag the descriptions of device management from the left onto the types of device management on the right.

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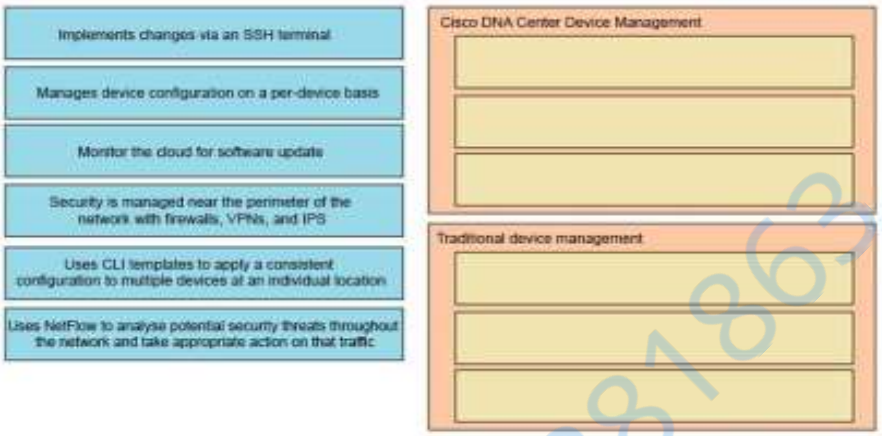
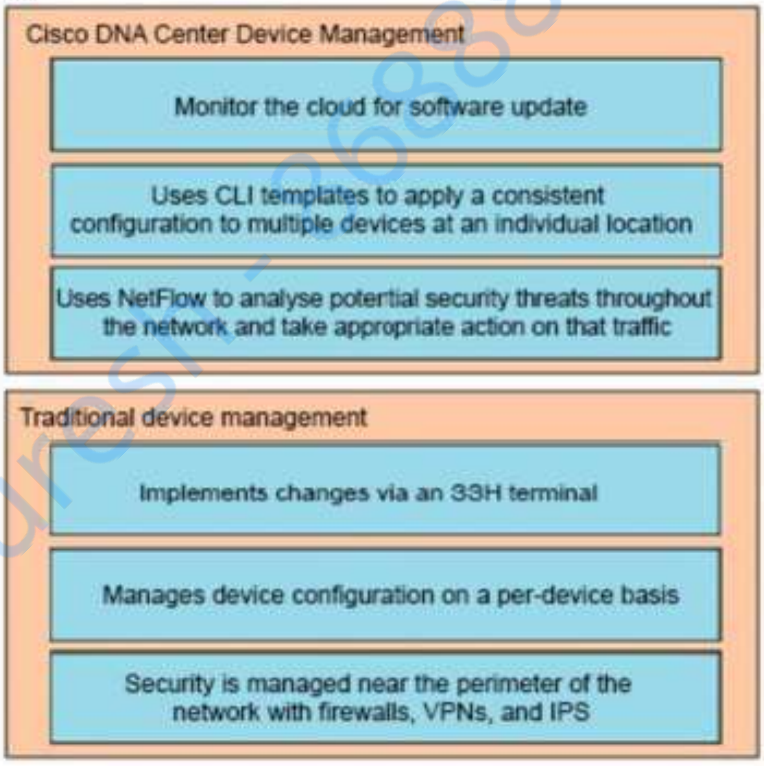
Which action does the router take as it forwards a packet through the network?
A. The router replaces the original source and d



Correct Answer:



estination MAC addresses with the sending router
MAC address as the source and neighbor MAC address as the destination
B. The router replaces the source and destination labels with the sending router interface label as a
source and the next hop router label as a destination

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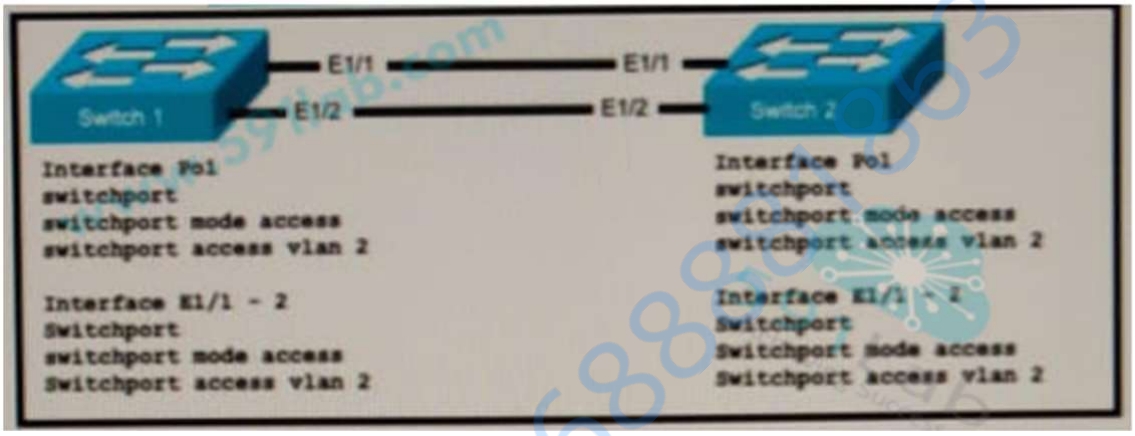
C. The router encapsulates the source and destination IP addresses with the sending router IP address
as the source and the neighbor IP address as the destination
D. The router encapsulates the original packet and then includes a tag that identifies the source router
MAC address and transmits it transparently to the destination
Answer: A

Refer to the exhibit. An engineer is configuring an EtherChannel using LACP between Switches 1 and 2.
Which configuration must be applied so that only Switch 1 sends LACP initiation packets?



A.
```
Switch1(config-if)#channel-group 1 mode on
Switch2(config-if)#channel-group 1 mode active
```

B.
```
Switch1(config-if)#channel-group 1 mode active
Switch2(config-if)#channel-group 1 mode passive
```

C.
```
Switch1(config-if)#channel-group 1 mode passive
Switch2(config-if)#channel-group 1 mode active
```

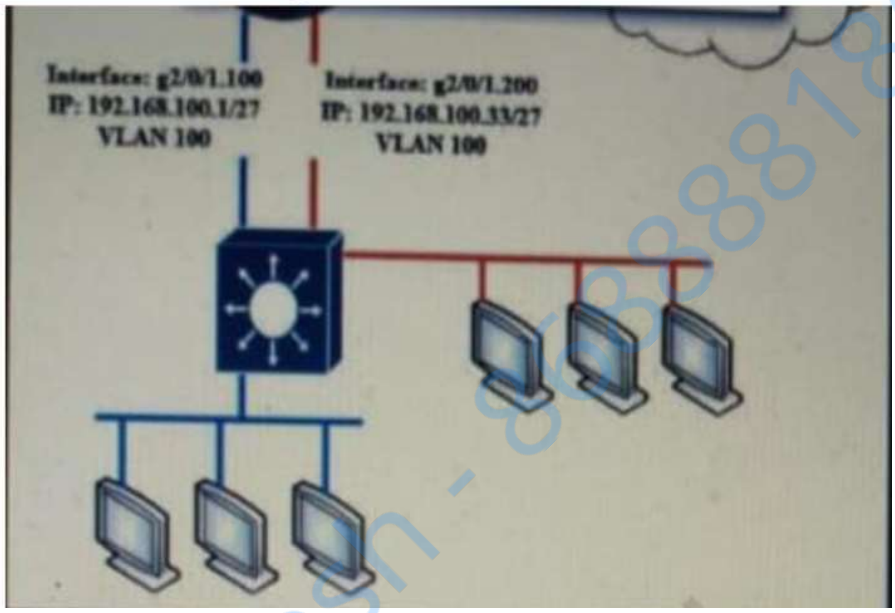
D.
```
Switch1(config-if)#channel-group 1 mode on
Switch2(config-if)#channel-group 1 mode passive
```

Answer:B

Which two conditions must be met before SSH operates normally on a Cisco IOS switch? (Choose two.)

- [x] The **ip domain-name** command must be configured on the switch.
- [ ] A console password must be configured on the switch.
- [ ] IP routing must be enabled on the switch.
- [x] The switch must be running a k9 (crypto) IOS image.
- [ ] Telnet must be disabled on the switch.

407. Refer to Exhibit. Which configuration must be applied to the router that configures PAT to translate all addresses in VLAN 200 while allowing devices on VLAN 100 to use their own IP addresses?



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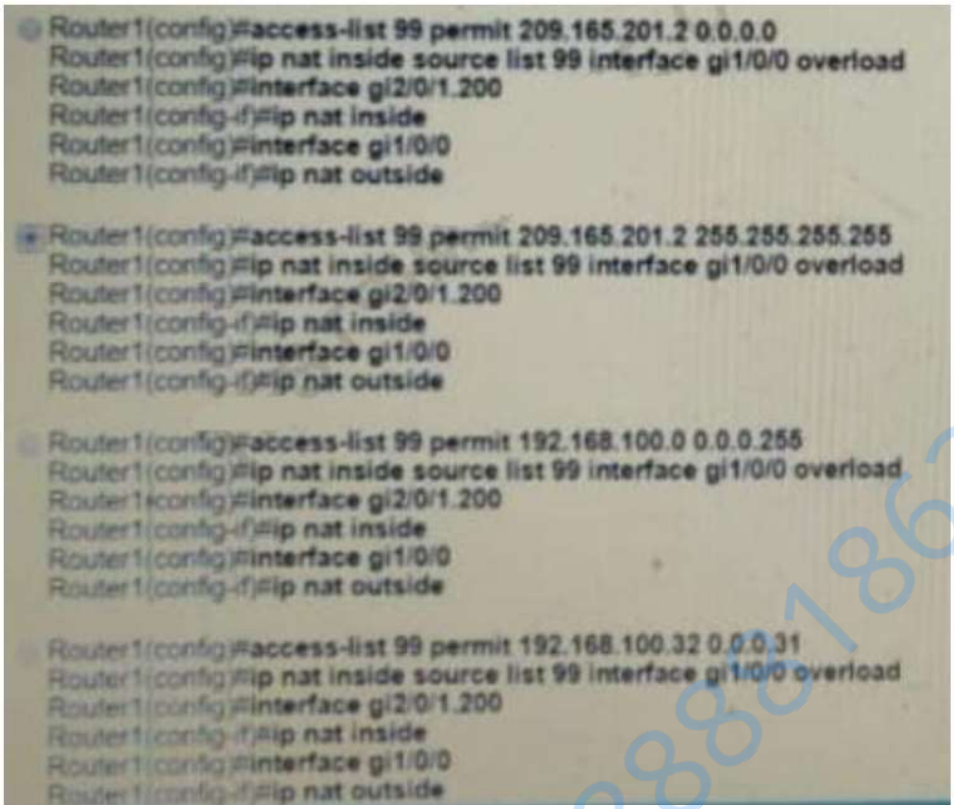

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: D

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An engineer is required to verify that the network parameters are valid for the users wireless LAN connectivity on a /24 subnet. Drag and drop the values from the left onto the network parameters on the right. Not all values are used.

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192.168.1.1	host IP address
192.168.1.255	broadcast address
192.168.1.20	network address
B8-76-3F-7C-57-DF	default gateway
1A-76-3F-7C-57-DF	MAC address
192.168.1.254	last assignable IP address in the subnet
192.168.1.0	

Answer:

+ host IP address: 192.168.1.20
+ broadcast address: 192.168.1.255
+ network address: 192.168.1.0
+ default gateway: 192.168.1.1
+ MAC address: B8-76-3F-7C-57-DF
+ last assignable IP address in the subnet: 192.168.1.254

5. Refer to the exhibit. The entire Marketing-SW1 MAC address table is shown here:

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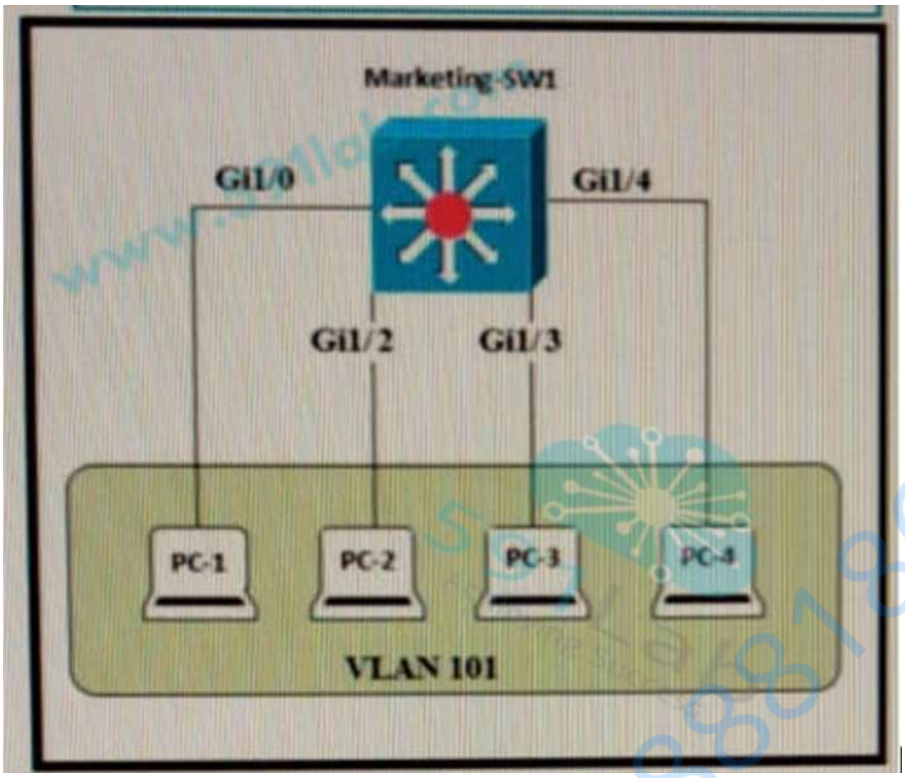



```
Marketing-SW1#show mac-address-table
Mac Address Table
-------------------------------------------

VLAN    MAC Address       Type        Ports
101     000a.[redacted]   DYNAMIC     Gi1/0
101     3966.[redacted]   DYNAMIC     Gi1/2
101     00d0.[redacted]   DYNAMIC     Gi1/3
```

What does the switch do when PC-4 sends a frame to PC-1?

A. It performs a lookup in the MAC address table and discards the frame due to a missing entry.

B. It maps the Layer 2 MAC address to the Layer 3 IP address and forwards the frame.

C. It inserts the source MAC address and port into the table and forwards the frame to PC-1.

D. It floods the frame out of all ports except on the port where PC-1 is connected.

Answer:C

Question 27

Which two components are needed to create an Ansible script that configures a VLAN on a switch? (Choose two)

A. task

B. cookbook

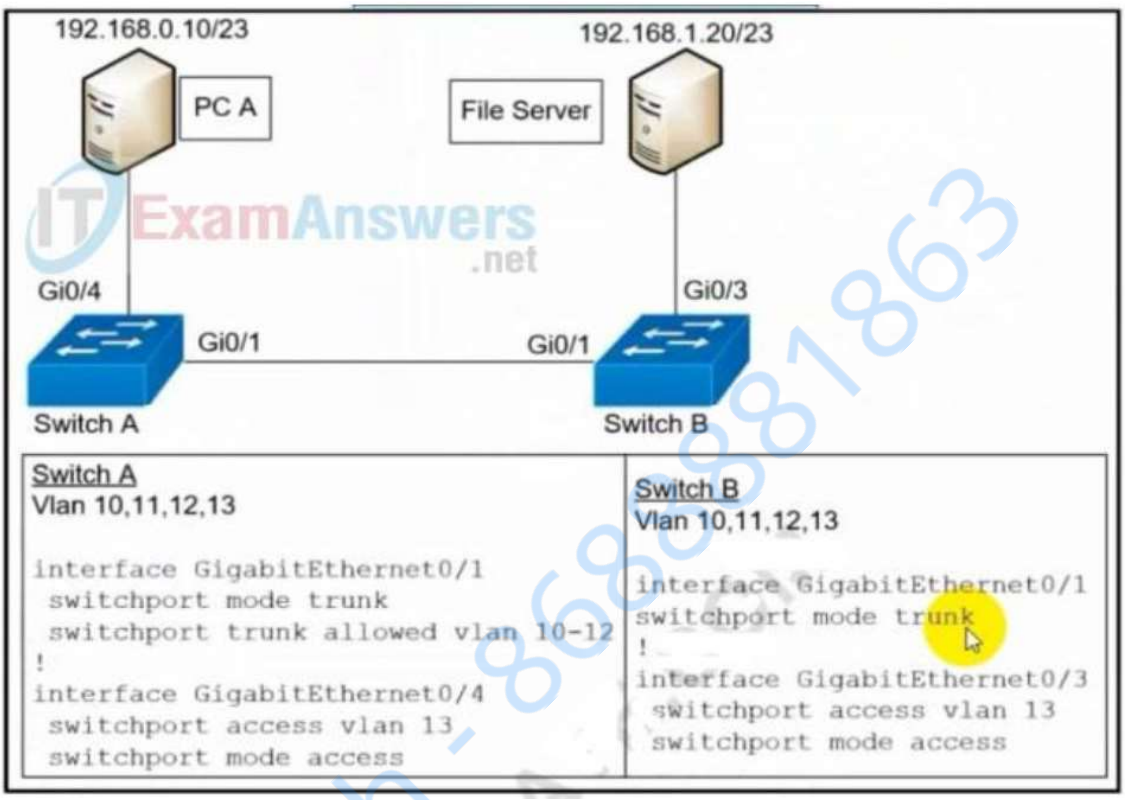
C. recipe

D. model

E. playbook

Answer: A E

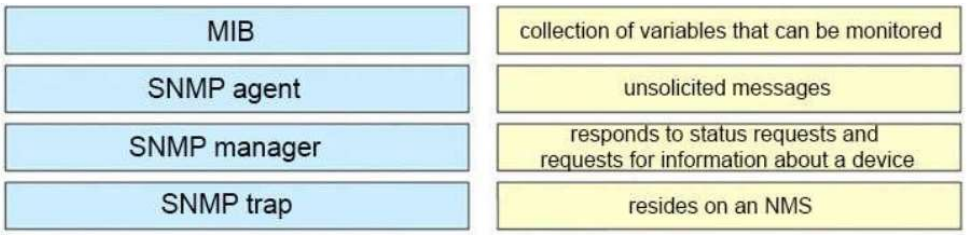
392. Refer to the exhibit. A network engineer must configured communication between PC A and the File Server. To prevent interruption for any other communications, which command must be configured?



- A. Switch trunk allowed vlan 12
- B. Switchport trunk allowed vlan none
- C. Switchport trunk allowed vlan add 13
- D. Switchport trunk allowed vlan remove 10-11

Correct Answer: C

29. Drag and drop the SNMP components from the left onto the descriptions on the right.



Correct Answer:

Question 1

Which output displays a JSON data representation?

A.

{
“response”,{
“taskId”,{};
“url”,”string”
};
“version”, “string”
}

B.

{
“response”:{
“taskId”,{};
“url”,”string”
};
“version”; “string”
}

C.

{
“response”- {
“taskId”- {};
“url”-“string”
},
“version”-“string”
}

D.

{

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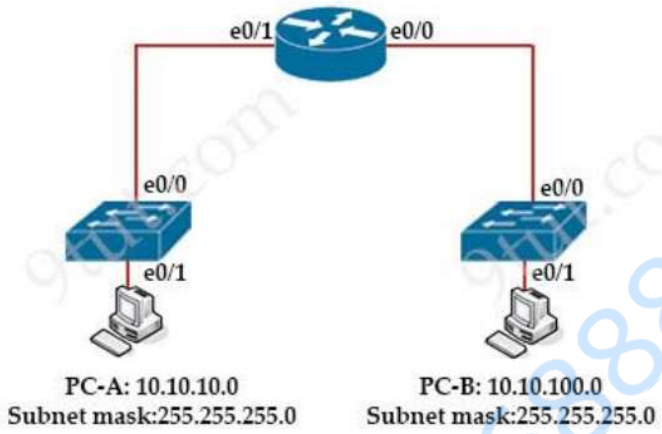
“response”:{
“taskId”:{},
“url”:”string”
},
“version”: “string”
}
Answer: D

Question 5
Refer to the exhibit



When PC-A sends traffic to PC-B, which network component is in charge of receiving the packet from PC-A verifying the IP addresses, and forwarding the packet to PC-B?
A. Layer 2 switch
B. firewall
C. Load balancer
D. Router
Answer: D

315. What are two benefits of controller-based networking compared to traditional networking?

- A. controller-based increases network bandwidth usage, while traditional lightens the load on the network
- B. controller-based inflates software costs, while traditional decreases individual licensing costs
- C. Controller-based reduces network configuration complexity, while traditional increases the potential for errors
- D. Controller-based provides centralization of key IT functions. While traditional requires distributes management function
- E. controller-based allows for fewer network failure, while traditional increases failure rates

Correct Answer: C D

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Question 4
How does the dynamically-learned MAC address feature function?
A. It requires a minimum number of secure MAC addresses to be filled dynamically
B. Switches dynamically learn MAC addresses of each connecting CAM table
C. The ports are restricted and learn up to a maximum of 10 dynamically-learned addresses
D. The CAM table is empty until ingress traffic arrives at each port
Answer: D

Question 11
In QoS, which prioritization method is appropriate for interactive voice and video?
A. expedited forwarding
B. traffic policing
C. round-robin scheduling
D. low-latency queuing
Answer: A

Which two tasks must be performed to configure NTP to a trusted server in client mode on a single network device? (Choose two.)

A. Enable NTP authentication.

B. Verify the time zone.

C. Specify the IP address of the NTP server.

D. Set the NTP server private key.

E. Disable NTP broadcasts.

Answer: *AC*

343. What is a function of a remote access VPN?

- A. used cryptographic tunneling to protect the privacy of data for multiple users simultaneously
- B. used exclusively when a user is connected to a company's internal network
- C. establishes a secure tunnel between two branch sites
- D. allows the users to access company internal network resources through a secure tunnel

Correct Answer: D

310. How do TCP and UDP differ in the way they guarantee packet delivery?

- A. TCP uses checksum, acknowledgement, and retransmissions, and UDP uses checksums only
- B. TCP uses retransmissions, acknowledgement and parity checks and UDP uses cyclic redundancy checks only

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• C. TCP uses checksum, parity checks, and retransmissions, and UDP uses acknowledgements only
• D. TCP uses two-dimensional parity checks, checksums, and cyclic redundancy checks and UDP uses retransmissions only
Correct Answer: A

82. R1 has learned route 192.168.12.0/24 via IS-IS. OSPF, RIP. and Internal EIGRP Under normal operating
conditions, which routing protocol is installed in the routing table?
• A. IS-IS
• B. RIP
• C. Internal EIGRP
• D. OSPF
Correct Answer: C

2.
Which virtual MAC address is used by VRRP group 1?
A. 0007.c061.bc01
B. 0500.3978.8451
C. 0000.5E00.0101
D. 0050.0c05.ad81
Answer:C

353. Refer to the exhibit. A network administrator must permit SSH access to remotely manage routers in a network. The operations team resides on the 10.20.1.0/25 network. Which command will accomplish this task?

```
interface GigabitEthernet0/1
ip address 192.168.1.2 255.255.255.0
ip access-group 2699 in
!
access-list 2699 deny icmp any 10.10.1.0 0.0.0.255 echo
access-list 2699 deny ip any 10.20.1.0 0.0.0.255
access-list 2699 permit ip any 10.10.1.0 0.0.0.255
access-list 2699 permit tcp any 10.20.1.0 0.0.0.127 eq 22
```

• A. access-list 2699 permit udp 10.20.1.0 0.0.0.255
• B. no access-list 2699 deny tcp any 10.20.1.0 0.0.0.127 eq 22
• C. access-list 2699 permit tcp any 10.20.1.0 0.0.0.255 eq 22
• D. no access-list 2699 deny ip any 10.20.1.0 0.0.0.255
Correct Answer: D

Question 1
Which level of severity must be set to get informational syslogs?
A. alert
B. critical

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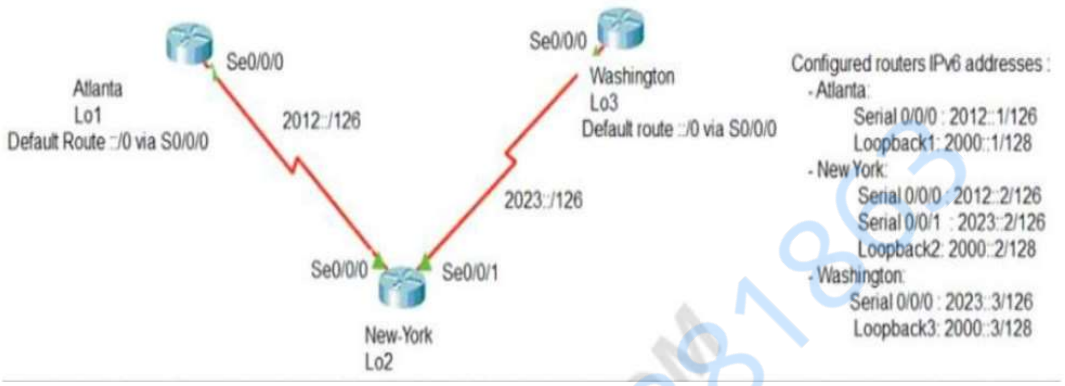
C. notice
D. debug
Answer: D

285. Refer to Exhibit. The loopback1 interface of the Atlanta router must reach the loopback3 interface of the Washington router. Which two static host routes must be configured on the NEW York router? (Choose two)



- A. ipv6 route 2000::1/128 2012::1
- B. ipv6 route 2000::3/128 2023::3
- C. ipv6 route 2000::3/128 s0/0/0
- D. ipv6 route 2000::1/128 2012::2
- E. ipv6 route 2000::1/128 s0/0/1

Correct Answer: A B

395. Which implementation provides the strongest encryption combination for the wireless environment?

- A. WPA2 + AES
- B. WPA + AES
- C. WEP
- D. WPA + TKIP

Correct Answer: A

35. Which two encoding methods are supported by REST APIs? (Choose two)

- A. YAML
- B. JSON
- C. EBCDIC
- D. SGML
- E. XML

Correct Answer: BE

266. Refer to the exhibit. If the network environment is operating normally, which type of device must be connected to interface FastEthernet 0/1?

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```
ip arp inspection vlan 2-10
interface fastethernet 0/1
        ip arp inspection trust
```

- A. DHCP client
- B. access point
- C. router
- D. PC

Correct Answer: C

20. Refer to the exhibit. What is the effect of this configuration?

```
ip arp inspection vlan 2
interface fastethernet 0/1
        switchport mode access
        switchport access vlan 2
```

- A. The switch port interface trust state becomes untrusted
- B. The switch port remains administratively down until the interface is connected to another switch
- C. Dynamic ARP inspection is disabled because the ARP ACL is missing
- D. The switch port remains down until it is configured to trust or untrust incoming packets

Correct Answer: A

385. What is the maximum bandwidth of a T1 point-to-point connection?

- A. 1.544 Mbps
- B. 2.048 Mbps
- C. 34.368 Mbps
- D. 43.7 Mbps

Correct Answer: A

Question 29

In software-defined architecture, which place handles switching for traffic through a Cisco router?

A. Data

B. Control

C. Management

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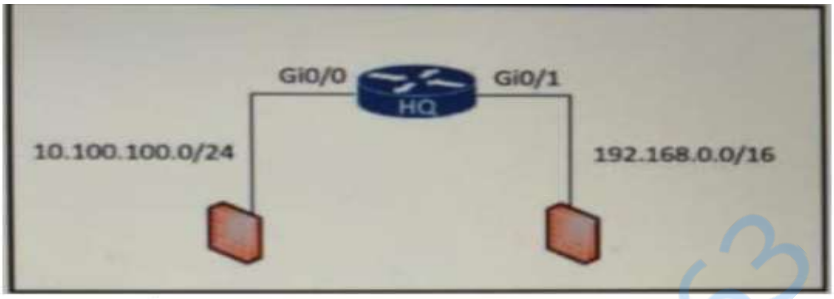
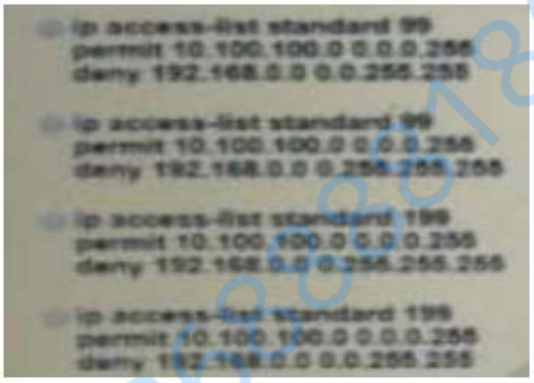
D. Application
Answer: A

412. Refer to the exhibit. An access list is required to permit traffic from any host on interface G0/0 and deny traffic from interface G/0/1. Which access list must be applied?





- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: A

11.
What is the purpose of using First Hop Redundancy Protocol on a specific subnet?
A. filters traffic based on destination IP addressing
B. forwards multicast hello messages between routers
C. sends the default route to the hosts on a network
D. ensures a loop-free physical topology
Answer: C

10.
What is the difference in data transmission delivery and reliability between TCP and UDP?

A. TCP requires the connection to be established before transmitting data. UDP transmits data at a higher rate without ensuring packet delivery.

B. TCP transmits data at a higher rate and ensures packet delivery. UDP retransmits lost data to ensure applications receive the data on the remote end.

C. UDP sets up a connection between both devices before transmitting data. TCP uses the threeway handshake to transmit data with a reliable connection.

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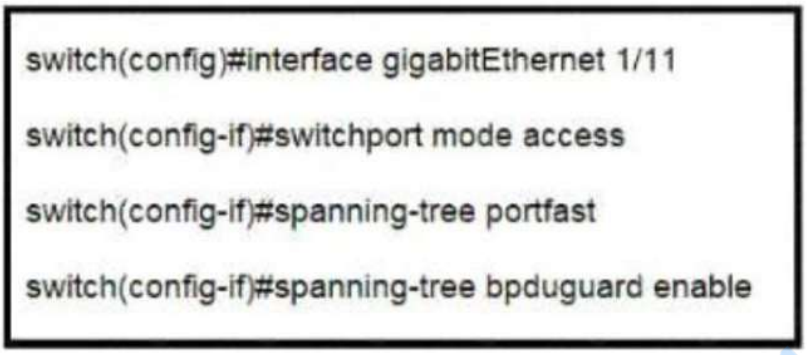
D. UDP is used for multicast and broadcast communication. TCP is used for unicast communication and transmits data at a higher rate with error checking.

Answer:A

383. Refer to the exhibit. What is the result if Gig1/11 receives an STP BPDU?



- A. The port transitions to STP blocking
- B. The port transitions to the root port
- C. The port immediately transitions to STP forwarding.
- D. The port goes into error-disable state

Correct Answer: D

53. Which statement identifies the functionality of virtual machines?

- A. Virtualized servers run most efficiently when they are physically connected to a switch that is separate from the hypervisor
- B. The hypervisor can virtualize physical components including CPU, memory, and storage
- C. Each hypervisor can support a single virtual machine and a single software switch
- D. The hypervisor communicates on Layer 3 without the need for additional resources

Correct Answer: B

250. Refer to the exhibit. To which device does Router1 send packets that are destined to host 10.10.13.165?

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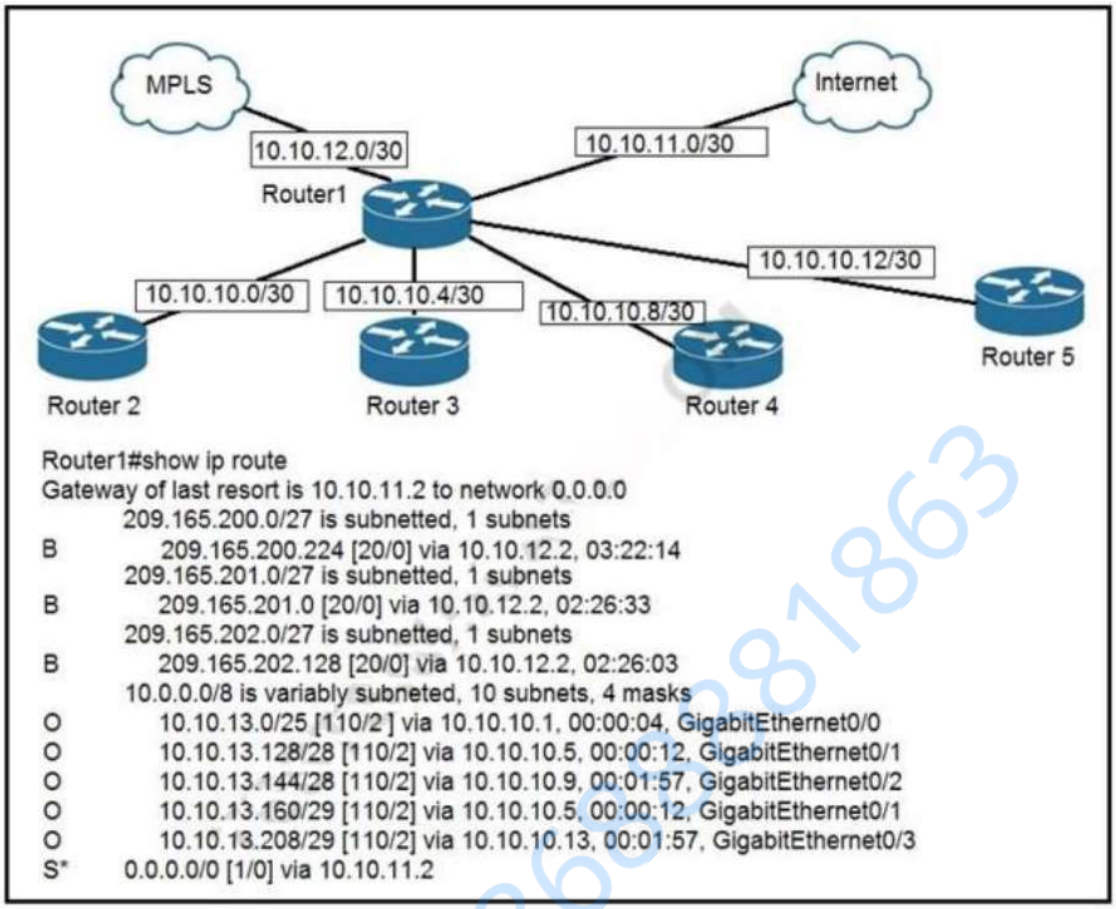


```
Router1#show ip route
Gateway of last resort is 10.10.11.2 to network 0.0.0.0
      209.165.200.0/27 is subnetted, 1 subnets
B        209.165.200.224 [20/0] via 10.10.12.2, 03:22:14
      209.165.201.0/27 is subnetted, 1 subnets
B        209.165.201.0 [20/0] via 10.10.12.2, 02:26:33
      209.165.202.0/27 is subnetted, 1 subnets
B        209.165.202.128 [20/0] via 10.10.12.2, 02:26:03
      10.0.0.0/8 is variably subneted, 10 subnets, 4 masks
O        10.10.13.0/25 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O        10.10.13.128/28 [110/2] via 10.10.10.5, 00:00:12, GigabitEthernet0/1
O        10.10.13.144/28 [110/2] via 10.10.10.9, 00:01:57, GigabitEthernet0/2
O        10.10.13.160/29 [110/2] via 10.10.10.5, 00:00:12, GigabitEthernet0/1
O        10.10.13.208/29 [110/2] via 10.10.10.13, 00:01:57, GigabitEthernet0/3
S*    0.0.0.0/0 [1/0] via 10.10.11.2
```

- A. Router2
- B. Router3
- C. Router4
- D. Router5

Correct Answer: B

Question 2

What is a characteristic of cloud-based network topology?

A. physical workstations are configured to share resources

B. services are provided by a public, private, or hybrid deployment

C. onsite network services are provided with physical Layer 2 and Layer 3 components

D. wireless connections provide the sole access method to services

Answer: B

Question 51

What are two similarities between UTP Cat 5e and Cat 6a cabling? (Choose two)

A. Both support runs of up to 100 meters.

B. Both support runs of up to 55 meters.

C. Both operate at a frequency of 500 MHz.

D. Both support speeds of at least 1 Gigabit.

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E. Both support speeds up to 10 Gigabit.
Answer: A D

71. Which result occurs when PortFast is enabled on an interface that is connected to another switch?

- A. Spanning tree may fail to detect a switching loop in the network that causes broadcast storms
- B. VTP is allowed to propagate VLAN configuration information from switch to switch automatically
- C. Root port choice and spanning tree recalculation are accelerated when a switch link goes down
- D. After spanning tree converges PortFast shuts down any port that receives BPDUS

Correct Answer: A

434. Which network action occurs within the data plane?

- A. compare the destination IP address to the IP routing table
- B. run routing protocols (OSPF, EIGRP, RIP, BGP)
- C. make a configuration change from an incoming NETCONF RPC
- D. reply to an incoming ICMP echo request

Correct Answer: A

149. Which two command sequences must you configure on a switch to establish a Layer 3 EtherChannel with an open-standard protocol? (Choose two)

- A. interface GigabitEthernet0/0/1
channel-group 10 mode on
- B. interface GigabitEthernet0/0/1
channel-group 10 mode active
- C. interface GigabitEthernet0/0/1
channel-group 10 mode auto
- D. interface port-channel 10
switchport
switchport mode trunk
- E. interface port-channel 10
no switchport
ip address 172.16.0.1.255.255.255.0

Correct Answer: B E

372. What is the effect when loopback interfaces and the configured router ID are absent during the OSPF Process configuration?

- A. No router ID is set, and the OSPF protocol does not run
- B. The highest up/up physical interface IP address is selected as the router ID

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- C. The lowest IP address is incremented by 1 and selected as the router ID
- D. The router ID 0.0.0.0 is selected and placed in the OSPF process

Correct Answer: B

Question 40

What does physical access control regulate?

A. access to specific networks based on business function

B. access to servers to prevent malicious activity

C. access to computer networks and file systems

D. access to networking equipment and facilities

Answer: D

Question 35

On workstations running Microsoft Windows, which protocol provides the default gateway for the device?

A. STP

B. DNS

C. SNMP

D. DHCP

Answer: D

Question 55

Which access layer threat-mitigation technique provides security based on identity?

A. using a non-default native VLAN

B. Dynamic ARP Inspection

C. DHCP snooping

D. 802.1x

Answer: D

430. Refer to the exhibit.

```
SiteA#show interface TenGigabitEthernet0/1/0
TenGigabitEthernet0/1/0 is up, line protocol is up
  Hardware is BUILT-IN-EPA-8x10G, address is 780c.f02a.db91 (bia 780a.f02b.db91)
  Description: Connection to SiteB
  Internet address is 10.10.10.1/30
  MTU 8146 bytes, BW 10000000 Kbit/sec, DLY 10 usec,
     reliability 166/255, txload 1/255, rxload 1/255
  Full Duplex, 10000Mbps, link type is force-up, media type is SFP-LR
  5 minute input rate 264797000 bits/sec, 26672 packets/sec
  5 minute output rate 122464000 bits/sec, 15724 packets/sec

SiteB#show interface TenGigabitEthernet0/1/0
TenGigabitEthernet0/1/0 is up, line protocol is up
  Hardware is BUILT-IN-EPA-8x10G, address is 780c.f02c.db26 (bia 780c.f02c.db26)
  Description: Connection to SiteA
  Internet address is 10.10.10.2/30
  MTU 8146 bytes, BW 10000000 Kbit/sec, DLY 10 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Full Duplex, 10000Mbps, link type is force-up, media type is SFP-LR
  5 minute input rate 122464000 bits/sec, 15724 packets/sec
  5 minute output rate 264797000 bits/sec, 26672 packets/sec
```

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Shortly after SiteA was connected to SiteB over a new single-mode fiber path users at SiteA report intermittent connectivity issues with applications hosted at SiteB What is the cause of the intermittent connectivity issue?

- A. Interface errors are incrementing
- B. An incorrect SFP media type was used at SiteA
- C. High usage is causing high latency
- D. The sites were connected with the wrong cable type

Correct Answer: C

QUESTION 47

Which two command sequences must be configured on a switch to establish a Layer 3 EtherChannel with an open-standard protocol? (Choose two.)

A. interface port-channel 10
switchport
switchport mode trunk

B. interface GigabitEthernet0/0/1
channel-group 10 mode active

C. interface GigabitEthernet0/0/1
channel-group 10 mode auto

D. interface GigabitEthernet0/0/1
channel-group 10 mode on

E. interface port-channel 10
no switchport
ip address 172.16.0.1 255.255.255.0

Answer: BE

404. What is a network appliance that checks the state of a packet to determine whether the packet islegitimate?

- A. Layer 2 switch
- B. load balancer
- C. firewall
- D. LAN controller

Correct Answer: C

287. Which goal is achieved by the implementation of private IPv4 addressing on a network?

- A. allows servers and workstations to communicate across public network boundaries

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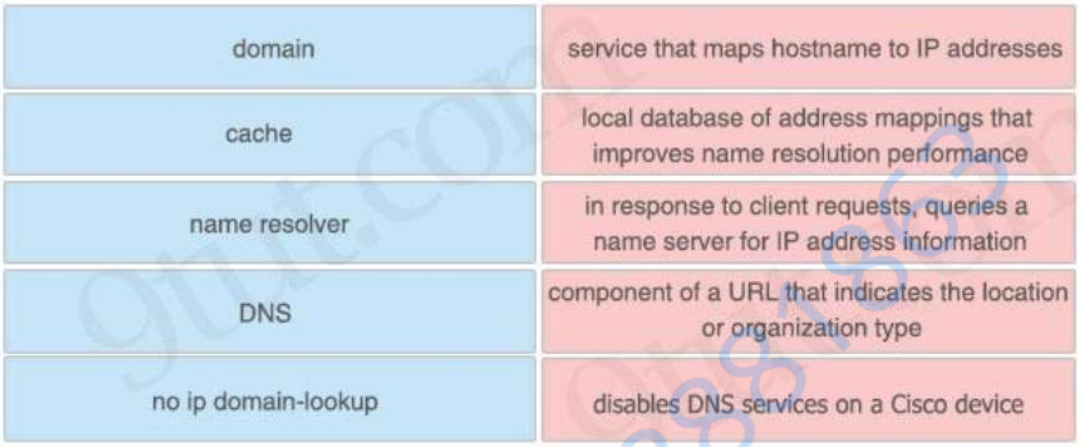
- B. provides a reduction in size of the forwarding table on network routers
- C. allows communication across the Internet to other private networks
- D. provides an added level of protection against Internet exposure

Correct Answer: D

Question 41

Drag and drop the DNS lookup components from the left onto the functions on the right.



nswer:

+ service that maps hostname to IP addresses: DNS
+ local database of address mappings that improves name resolution performance: cache
+ in response to client requests, queries a name server for IP address information: name resolver
+ component of a URL that indicates the location or organization type: domain
+ disables DNS services on a Cisco device: no ip domain-lookup

Question 43

Which action does the router take as it forwards a packet through the network?

A. The router replaces the original source and destination MAC addresses with the sending router MAC address as the source and neighbor MAC address as the destination

B. The router replaces the source and destination labels with the sending router interface label as a source and the next hop router label as a destination

C. The router encapsulates the source and destination IP addresses with the sending router IP address as the source and the neighbor IP address as the destination

D. The router encapsulates the original packet and then includes a tag that identifies the source router MAC address and transmits it transparently to the destination

Answer: A

67. Which action is taken by a switch port enabled for PoE power classification override?

- A. When a powered device begins drawing power from a PoE switch port a syslog message is generated
- B. As power usage on a PoE switch port is checked data flow to the connected device is temporarily paused
- C. If a switch determines that a device is using less than the minimum configured power it assumes the device has failed and disconnects
- D. If a monitored port exceeds the maximum administrative value for power, the port is shutdown and err disabled

Correct Answer: D

336. What is the primary function of a Layer 3 device?

- A. to analyze traffic and drop unauthorized traffic from the Internet
- B. to transmit wireless traffic between hosts
- C. to pass traffic between different networks
- D. forward traffic within the same broadcast domain

Correct Answer: C

216. What is an advantage of Cisco DNA Center versus traditional campus device management?

- A. It supports numerous extensibility options including cross-domain adapters and third-party SDKs
- B. It supports high availability for management functions when operating in cluster mode
- C. It enables easy autodiscovery of network elements m a brownfield deployment
- D. It is designed primarily to provide network assurance

Correct Answer: A

Which goal is achieved by the implementation of private IPv4 addressing on a network?

- allows communication across the Internet to other private networks
- provides a reduction in size of the forwarding table on network routers
- allows servers and workstations to communicate across public network boundaries
- provides an added level of protection against Internet exposure

What is a network appliance that checks the state of a packet to determine whether the packet is legitimate?

- firewall
- Layer 2 switch
- load balancer
- LAN controller

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Q1.

```
Designated Router (ID) 10.11.11.11, Interface address 10.10.10.1
Backup Designated router (ID) 10.3.3.3, Interface address 10.10.10.3
Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
oob-resync timeout 40
Hello due in 00:00:08
Supports Link-local Signaling (LLS)
Cisco NSF helper support enabled
IETF NSF helper support enabled
Index 1/1/1, flood queue length 0
Next 0x0(0)/0x0(0)/0x0(0)
Last flood scan length is 1, maximum is 6
Last flood scan time is 0 msec, maximum is 1 msec
Neighbor Count is 3, Adjacent neighbor count is 3
Adjacent with neighbor 10.1.1.4
Adjacent with neighbor 10.2.2.2
Adjacent with neighbor 10.3.3.3 (Backup Designated Router)
Suppress hello for 0 neighbor(s)
```

Refer to the exhibit The show ip ospf interface command has been executed on R1 How is OSPF configured?

A. The interface is not participating in OSPF
B. A point-to-point network type is configured
C. The default Hello and Dead timers are in use
D. There are six OSPF neighbors on this interface.

Q2.

A network engineer must configure two new subnets using the address block 10.70 128 0/19 to meet these requirements

- The first subnet must support 24 hosts.
- The second subnet must support 472 hosts
- Both subnets must use the longest subnet mask possible from the address block.

Which two configurations must be used to configure the new subnets and meet a requirement to use the first available address in each subnet for the router interfaces'? (Choose two.)

A.

```
interface vlan 1148
ip address 10.70.148.1 255.255.254.0
```

B.

```
interface vlan 3002
ip address 10.70.147.17 255.255.255.224
```

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C.

```
interface vlan 4722
ip address 10.70.133.17 255.255.255.192
```

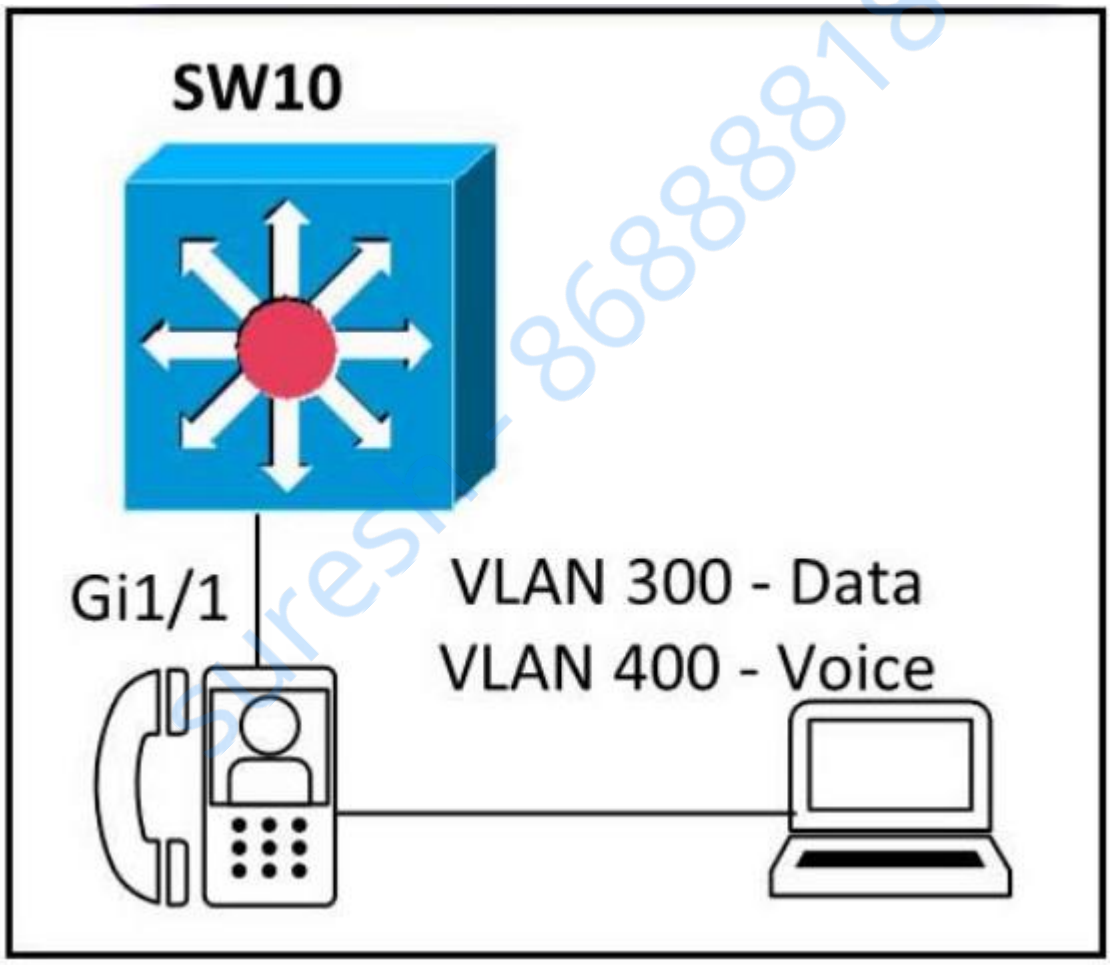
D.

```
interface vlan 1234
ip address 10.70.159.1 255.255.254.0
```

E.

```
interface vlan 155
ip address 10.70.155.65 255.255.255.224
```

Q3.



Refer to the exhibit An engineer must configure GigabitEthernet1/1 to accommodate voice and data traffic. Which configuration accomplishes this task?

A.

```
interface gigabitethernet1/1
switchport mode access
switchport access vlan 300
switchport voice vlan 400
```

B.

```
interface gigabitethernet1/1
switchport mode access
switchport voice vlan 300
switchport access vlan 400
```

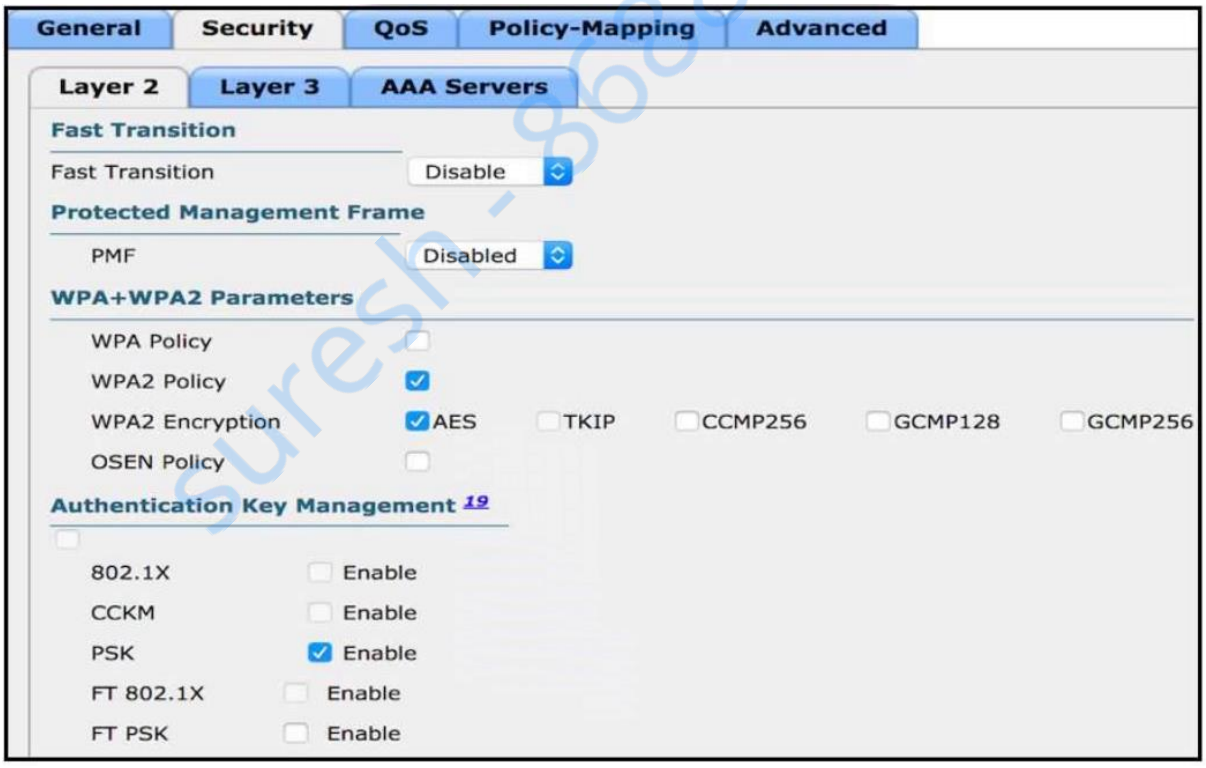
C.

```
interface gigabitethernet1/1
switchport mode trunk
switchport trunk vlan 300
switchport voice vlan 400
```

D.

```
interface gigabitethernet1/1
switchport mode trunk
switchport trunk vlan 300
switchport trunk vlan 400
```

Q4.



Refer to the exhibit Users need to connect to the wireless network with IEEE 802.11r-compatible devices The connection must be maintained as users travel between floors or to other areas in the building. What must be the configuration of the connection?

A. Disable AES encryption.

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B. Enable Fast Transition and select the FT 802 1x option
C. Enable Fast Transition and select the FT PSK option.
D. Select the WPA Policy option with the CCKM option

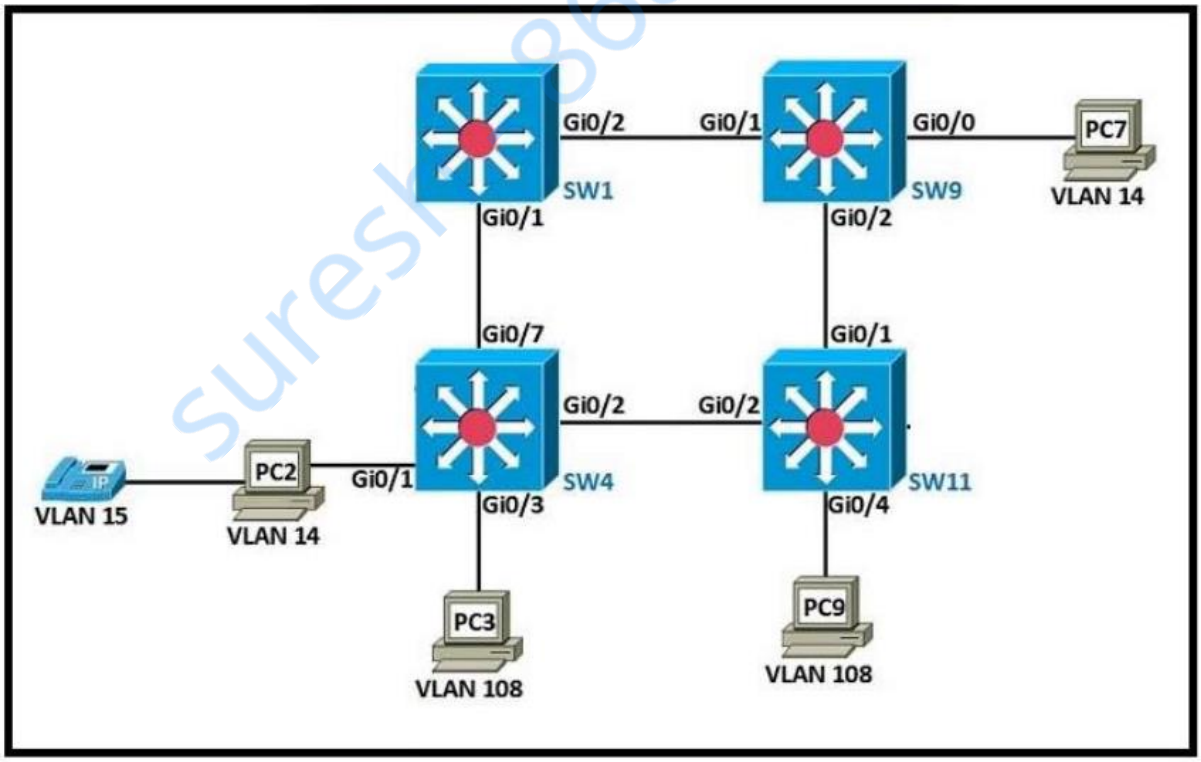
Q5.

Which JSON data type is an unordered set of attribute-value pairs?
A. object
B. Boolean
C. array
D. string

Q6.

Which function is performed by the collapsed core layer in a two-tier architecture?
A. applying security policies
B. enforcing routing policies
C. marking interesting traffic for data policies
D. attaching users to the edge of the network

Q7.



Refer to the exhibit The following must be considered
- SW1 is fully configured for all traffic.
- The SW4 and SW9 links to SW1 have been configured

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- The SW4 interface Gi0/1 and Gi0/0 on SW9 have been configured
- The remaining switches have had all VLANs added to their VLAN database.

Which configuration establishes a successful ping from PC2 to PC7 without interruption to traffic flow between other PCs?

A.

```
SW4
interface Gi0/7
switchport mode trunk
switchport trunk allowed vlan 108
!
interface Gi0/2
switchport mode access
switchport access vlan 14

SW11#
interface Gi0/2
switchport mode trunk
switchport trunk allowed vlan 14,108
!
interface Gi0/1
switchport mode trunk
switchport trunk allowed vlan 14,108

SW9#
interface Gi0/2
switchport mode access
switchport access vlan 14
```

B.

```
SW4#
interface Gi0/2
switchport mode trunk
switchport trunk allowed vlan 14,108

SW11#
interface Gi0/2
switchport mode trunk
switchport trunk allowed vlan 14,108
!
interface Gi0/1
switchport mode trunk
switchport trunk allowed vlan 14,108

SW9#
interface Gi0/2
switchport mode trunk
switchport trunk allowed vlan 14
```

C.

```
SW4#
interface Gi0/2
switchport mode trunk
switchport trunk allowed vlan 14

SW11#
interface Gi0/1
switchport mode trunk
switchport trunk allowed vlan 14

SW9#
interface Gi0/2
switchport mode trunk
switchport trunk allowed vlan 108
```

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D.

```
SW4#
interface Gi0/2
switchport mode access
switchport access vlan 14

SW11#
interface Gi0/2
switchport mode access
switchport access vlan 14
!
interface Gi0/0
switchport mode access
switchport access vlan 14
!
interface Gi0/1
switchport mode trunk

SW9#
interface Gi0/2
switchport mode access
```

Q8.

```
R1#show ip route
#output suppressed

Gateway of last resort is 192.168.14.4 to network 0.0.0.0

C       172.16.1.128/25 is directly connected, GigabitEthernet1/1/0
C       192.168.12.0/24 is directly connected, FastEthernet0/0
C       192.168.13.0/24 is directly connected, FastEthernet0/1
C       192.168.14.0/24 is directly connected, FastEthernet1/0
C       172.16.16.1 is directly connected, Loopback1
    192.168.10.0/24 is variably subnetted, 3 subnets, 3 masks
0       192.168.10.0/24 [110/2] via 192.168.14.4, 00:02:01, FastEthernet1/0
0       192.168.10.32/27 [110/11] via 192.168.13.3, 00:00:52, FastEthernet0/1
0       192.168.0.0/16 [110/2] via 192.168.15.5, 00:05:01, FastEthernet1/1
D       192.168.10.1/32 [90/52778] via 192.168.12.2, 00:03:44, FastEthernet0/0
0*E2    0.0.0.0/0 [110/1] via 192.168.14.4, 00:00:10, FastEthernet1/0
```

Refer to the exhibit If R1 receives a packet destined to 172.16.1.1, to which IP address does it send the packet?

A. 192 168 12.2
B. 192.168 13.3
C. 192 168.14.4
D. 192 168 155

Q9.

What is the same for both copper and fiber interfaces when using SFP modules'?

A. They accommodate single-mode and multi-mode in a single module
B. They provide minimal interruption to services by being hot-swappable
C. They offer reliable bandwidth up to 100 Mbps in half duplex mode
D. They support an inline optical attenuator to enhance signal strength

Q10.

The service password-encryption command is entered on a router. What is the effect of this configuration?

A. protects the VLAN database from unauthorized PC connections on the switch
B. restricts unauthorized users from viewing clear-text passwords in the running configuration
C. prevents network administrators from configuring clear-text passwords
D. encrypts the password exchange when a VPN tunnel is established

Q11.

A corporate office uses four floors in a building

- Floor 1 has 24 users
- Floor 2 has 29 users
- Floor 3 has 28 users
- Floor 4 has 22 users.

Which subnet summarizes and gives the most efficient distribution of IP addresses for the router configuration'?

A. 192.168.0.0/26 as summary and 192 168.0.0/29 for each floor
B. 192 168 0.0/23 as summary and 192 168.0.0/25 for each floor
C. 192 168 0.0/24 as summary and 192 168.0.0/28 for each floor
D. 192.168.0.0/25 as summary and 192.168.0.0/27 for each floor

Q12.

```
R1#sho ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route
       o - ODR, P - periodic downloaded static route, H - NHRP, l - LISP
       + - replicated route, % - next hop override

Gateway of last resort is 10.56.0.1 to network 0.0.0.0

S*    0.0.0.0/0 [1/0] via 10.56.0.1
      10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C        10.56.0.0/17 is directly connected, Vlan56
L        10.56.0.19/32 is directly connected, Vlan56
C        10.56.128.0/18 is directly connected, Vlan57
L        10.56.128.19/32 is directly connected, Vlan57
```

Refer to the exhibit When router R1 is sending traffic to IP address 10 56.192 1. which interface or next hop address does it use to route the packet?

A. 10 56.0.1
B. 0.0.0.0/0

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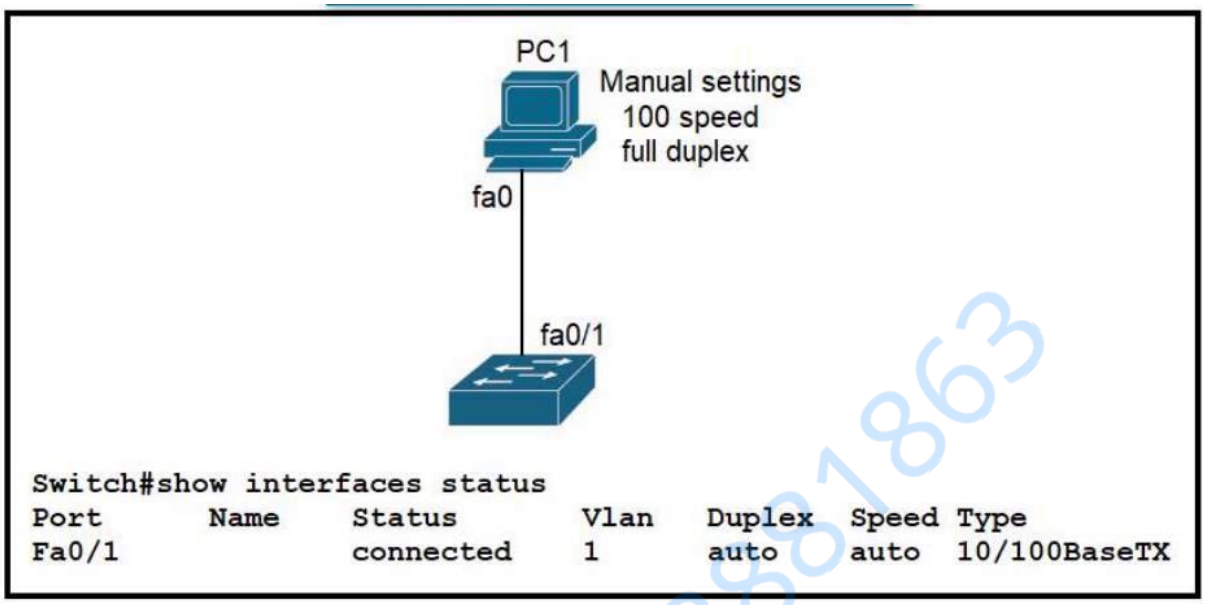
C. Vlan57
D. 10.56 128.19

Q13.



Refer to the exhibit. The link between PC1 and the switch is up, but it is performing poorly Which interface condition is causing the performance problem?
A. There is an issue with the fiber on the switch interface.
B. There is a duplex mismatch on the interface
C. There is an interface type mismatch.
D. There is a speed mismatch on the interface.

Q14.

What is a function of a remote access VPN?
A. used exclusively when a user is connected to a company's internal network
B. establishes a secure tunnel between two branch sites
C. allows the users to access company internal network resources through a secure tunnel
D. uses cryptographic tunneling to protect the privacy of data for multiple users simultaneously

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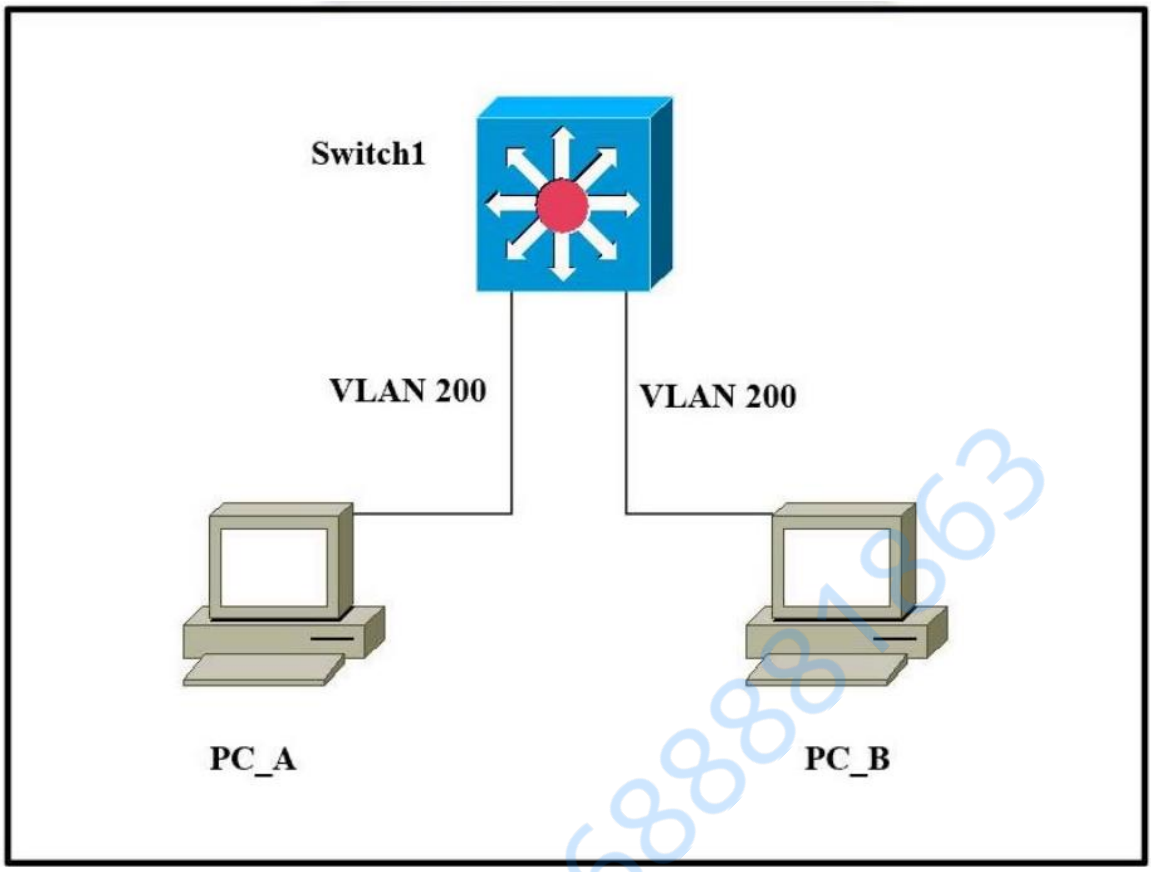
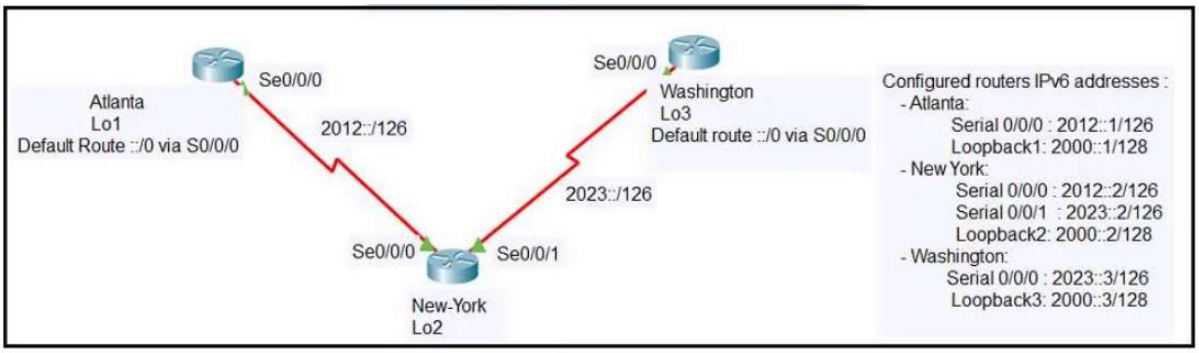
Q15.



Refer to the exhibit What is expected when PC_A sends data to PC_B after their initial communication?

A. The source MAC address is changed.
B. The destination MAC address is replaced with ffff ffff.ffff
C. The source and destination MAC addresses remain the same.
D. The switch rewrites the source and destination MAC addresses with its own

Q16.



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Refer to the exhibit The loopback1 interface of the Atlanta router must reach the loopback3 interface of the Washington router Which two static host routes must be configured on the New York router? (Choose two.)

A. ipv6 route 2000::3/128 2023::3
B. ipv6 route 2000::1/128 2012::1
C. ipv6 route 2000:: 1/128 s0/0/1
D. ipv6 route 2000::1/128 2012::2
E. ipv6 route 2000::3/128 s0/0/0

Q17.

R1 as an NTP server must have
- NTP authentication enabled
- NTP packets sourced from Interface loopback 0
- NTP stratum 2
- NTP packets only permitted to client IP 209.165.200.225

How should R1 be configured?

A.
```
ntp authenticate
ntp authentication-key 2 sha1 CISCO123
ntp source Loopback0
ntp access-group server-only 10
ntp master 2
!
access-list 10 permit udp host 209.165.200.225 any eq 123
```

B.
```
ntp authenticate
ntp authentication-key 2 md5 CISCO123
ntp interface Loopback0
ntp access-group server-only 10
ntp stratum 2
!
access-list 10 permit 209.165.200.225
```

C.
```
ntp authenticate
ntp authentication-key 2 md5 CISCO123
ntp source Loopback0
nntp access-group server-only 10
ntp master 2
!
access-list 10 permit 209.165.200.225
```

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D.
```
ntp authenticate
ntp authentication-key 2 md5 CISCO123
ntp source Loopback0
ntp access-group server-only 10
ntp stratum 2
!
access-list 10 permit udp host 209.165.200.225 any eq 123
```

Q18.

An engineer needs to configure LLDP to send the port description type length value (TLV) Which command sequence must be implemented?

A. switch(config-line)#lldp port-description
B. switch(config)#lldp port-description
C. switch#lldp port-description
D. switch(config-if)#lldp port-description

Q19.

What are two fundamentals of virtualization? (Choose two.)

A. It requires that some servers, virtual machines and network gear reside on the Internet
B. It allows logical network devices to move traffic between virtual machines and the rest of the physical network
C. The environment must be configured with one hypervisor that serves solely as a network manager to monitor SNMP traffic
D. It allows multiple operating systems and applications to run independently on one physical server
E. It allows a physical router to directly connect NICs from each virtual machine into the network

Q20.

In software-defined architecture, which plane handles switching for traffic through a Cisco router?

A. control
B. data
C. management
D. application

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Q21.

A Cisco engineer is configuring a factory-default router with these three passwords:

- The user EXEC password for console access is p4ssw0rd1
- The user EXEC password for Telnet access is s3cr3t2
- The password for privileged EXEC mode is priv4t3p4ss Which command sequence must the engineer configure?

A.
```
enable secret priv4t3p4ss
!
line con 0
password p4ssw0rd1
!
line vty 0 15
password s3cr3t2
```

B.
```
enable secret priv4t3p4ss
!
line con 0
password p4ssw0rd1
login
!
line vty 0 15
password s3cr3t2
login
```

C.
```
enable secret priv4t3p4ss
!
line con 0
password login p4ssw0rd1
!
line vty 0 15
password login s3cr3t2
login
```

D.
```
enable secret privilege 15 priv4t3p4ss
!
line con 0
password p4ssw0rd1
login
!
line vty 0 15
password s3cr3t2
login
```

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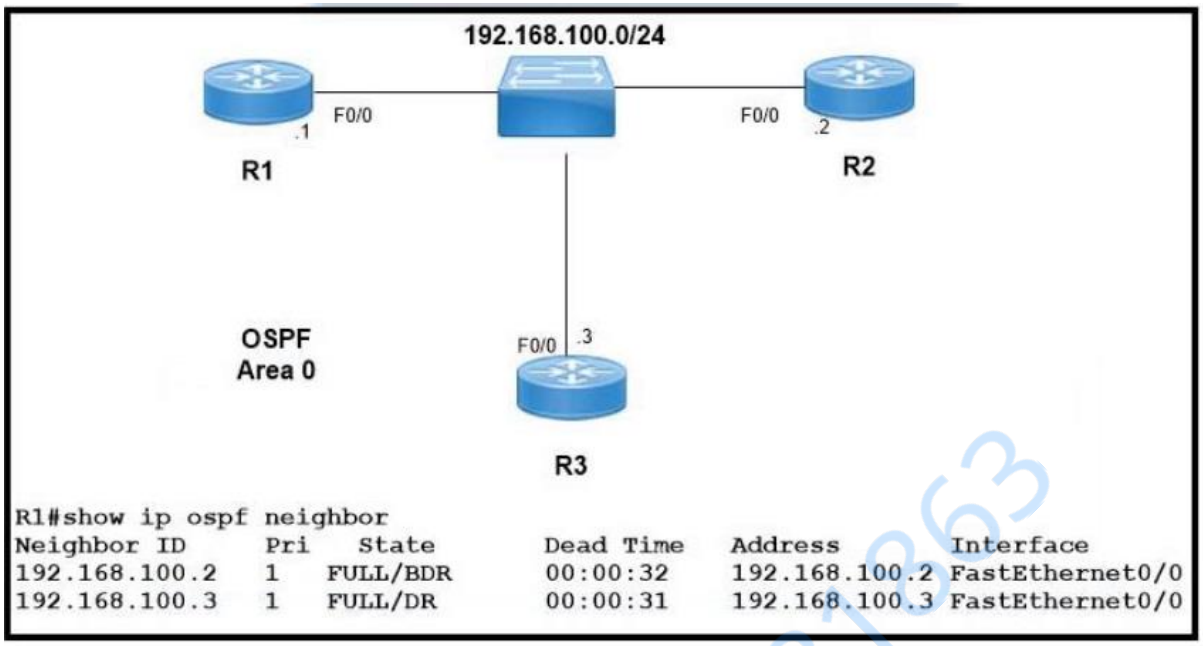
Q22.




```
R1#show ip ospf neighbor
Neighbor ID     Pri   State           Dead Time   Address         Interface
192.168.100.2   1     FULL/BDR        00:00:32    192.168.100.2   FastEthernet0/0
192.168.100.3   1     FULL/DR         00:00:31    192.168.100.3   FastEthernet0/0
```

Refer to the exhibit. Which two configurations must the engineer apply on this network so that R1 becomes the DR? (Choose two)

A. R3(config)#interface fastethernet 0/0
   R3(config-if)#ip ospf priority 0
B. R1 (config)#router ospf 1
   R1(config-router)#router-id 192.168.100.1
C. R1 (config)#interface fastethernet 0/0
   R1(config-if)#ip ospf priority 200
D. R1 (config)#interface fastethernet 0/0
   R1(config-if)#ip ospf priority 0
E. R3(config)#interface fastethernet 0/0
   R3(config-if)#ip ospf priority 200

Q23.

A network engineer must create a diagram of a multivendor network Which command must be configured on the Cisco devices so that the topology of the network is allowed to be mapped?

A. Device(config)#lldp run
B. Device(config)#cdp run
C. Device(config-if)#cdp enable
D. Device(config)#flow-sampler-map topology

Q24.

A router running EIGRP has learned the same route from two different paths. Which parameter does the router use to select the best path?

A. as-path

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B. administrative distance
C. metric
D. cost

Q25.

Which action implements physical access control as part of the security program of an organization'?
A. setting up IP cameras to monitor key infrastructure
B. configuring a password for the console port
C. backing up syslogs at a remote location
D. configuring enable passwords on network devices

Q26.

Which two command sequences must be configured on a switch to establish a Layer 3 EtherChannel with an open-standard protocol? (Choose two.)

A.
```
interface GigabitEthernet0/0/1
 channel-group 10 mode active
```

B.
```
interface GigabitEthernet0/0/1
 channel-group 10 mode auto
```

C.
```
interface port-channel 10
 switchport
 switchport mode trunk
```

D.
```
interface port-channel 10
 no switchport
 ip address 172.16.0.1 255.255.255.0
```

E.
```
interface GigabitEthernet0/0/1
 channel-group 10 mode on
```

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Q27.

```
R1# show ip route

D      192.168.16.0/26 [90/2679326] via 192.168.1.1
R      192.168.16.0/24 [120/3] via 192.168.1.2
O      192.168.16.0/21 [110/2] via 192.168.1.3
i L1   192.168.16.0/27 [115/30] via 192.168.1.4
```

Refer to the exhibit Which route does R1 select for traffic that is destined to 192 168.16.2?

A. 192 168 16.0/21
B. 192.168.16.0/24
C. 192 168 16.0/26
D. 192 168 16.0/27

Q28.

```
R1# show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, * - candidate default
       U - per-user static route, o - ODR
Gateway of last resort is not set
C    172.16.0.0/16 is directly connected, Loopback0
     172.16.0/16 is variably subnetted, 4 subnets, 2 masks
O       172.16.1.3/3  [110/100] via 192.168.7.40, 00:39:08, Serial0
C       172.16.1.0/24 is directly connected, Serial0
O       172.16.1.184/29 [110/5] via 192.168.7.35, 00:39:08, Serial0
O       172.16.3.0/24 [110/10] via 192.168.7.4, 00:39:08, Gigabit Ethernet 0/0
D       172.16.1.0/28 [90/10]  via 192.168.7.7, 00:39:08, Gigabit Ethernet 0/0
```

Refer to the exhibit Load-balanced traffic is coming in from the WAN destined to a host at 172.16.1.190 Which next-hop is used by the router to forward the request?

A. 192.168.7.4
B. 192.168.7.7
C. 192.168.7.35
D. 192 168 7.40

Q29.

Refer to the exhibit A network engineer must configure R1 so that it sends all packets destined to the 10.0.0.0/24 network to R3, and all packets destined to PC1 to R2. Which configuration must the engineer implement?

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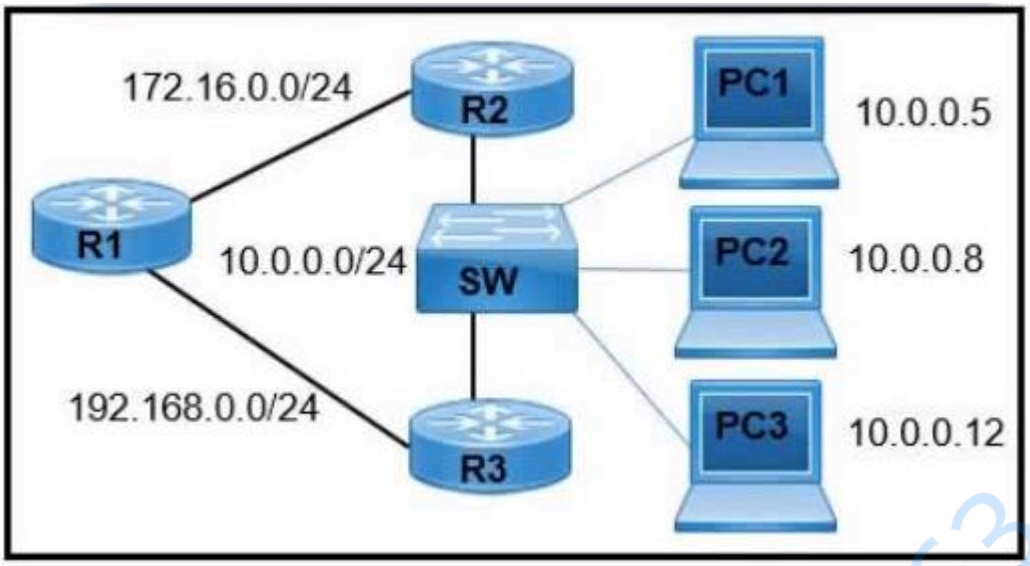

A. R1(config)#**ip route 10.0.0.0 255.255.255.0 172.16.0.2**
R1(config)#**ip route 10.0.0.5 255.255.255.255 192.168.0.2**

B. R1(config)#**ip route 10.0.0.0 255.255.0.0 172.16.0.2**
R1(config)#**ip route 10.0.0.5 255.255.255.255 192.168.0.2**

C. R1(config)#**ip route 10.0.0.0 255.255.255.0 192.168.0.2**
R1(config)#**ip route 10.0.0.5 255.255.255.255 172.16.0.2**

D. R1(config)#**ip route 10.0.0.0 255.255.0.0 192.168.0.2**
R1(config)#**ip route 10.0.0.0 255.255.255.0 172.16.0.2**

Q30.

```
1 [
2     { "switch": "3750", "port": e2 },
3     { "router": "2951", "port": e20 }.
4     { "switch": "3750", "port": e23 }
5 ]
```

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Refer to the exhibit What is represented beginning with line 1 and ending with line 5?

A. object
B. value
C. key
D. array

Q31.

An engineer is tasked to configure a switch with port security to ensure devices that forward unicasts, multicasts, and broadcasts are unable to flood the port The port must be configured to permit only two random MAC addresses at a time. Drag and drop the required configuration commands from the left onto the sequence on the right. Not all commands are used.

ANSWER:

1 1 22 63 54

Q32.

Which two capabilities of Cisco DNA Center make it more extensible as compared to traditional campus device management? (Choose two.)
A. customized versions for small, medium, and large enterprises
B. SDKs that support interaction with third-party network equipment
C. REST APIs that allow for external applications to interact natively
D. modular design that is upgradable as needed
E. adapters that support all families of Cisco IOS software

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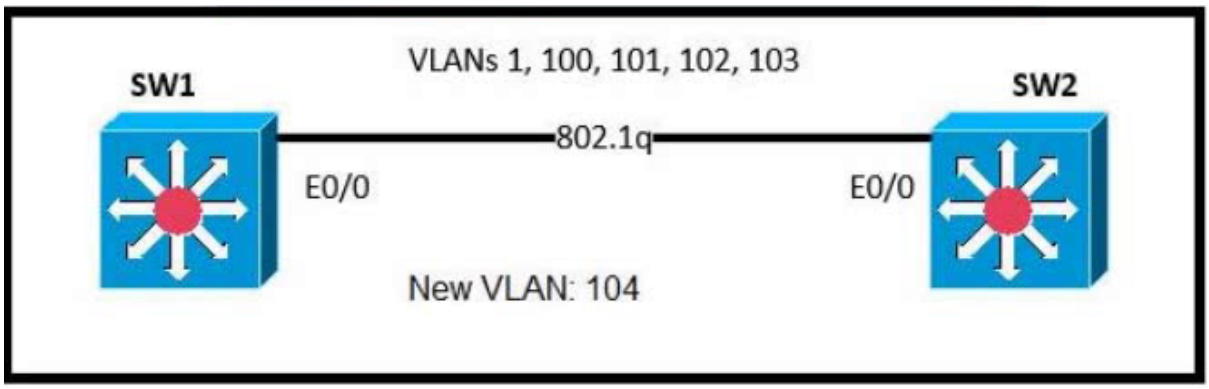
Q33.



Refer to the exhibit An engineer is asked to insert the new VLAN into the existing trunk without modifying anything previously configured. Which command accomplishes this task?

A. switchport trunk allowed vlan 100-104
B. switchport trunk allowed vlan 104
C. switchport trunk allowed vlan all
D. switchport trunk allowed vlan add 104

Q34.

What are two benefits of network automation? (Choose two.)

A. fewer network failures
B. reduced operational costs
C. reduced hardware footprint
D. increased network security
E. faster changes with more reliable results

Q35.

Aside from discarding, which two states does the switch port transition through while using RSTP (802 1w)? (Choose two.)

A. blocking
B. speaking
C. listening
D. learning
E. forwarding

Q36.

A network engineer is configuring a switch so that it is remotely reachable via SSH The engineer has already configured the host name on the router Which additional command must the engineer configure before entering the command to generate the RSA key?

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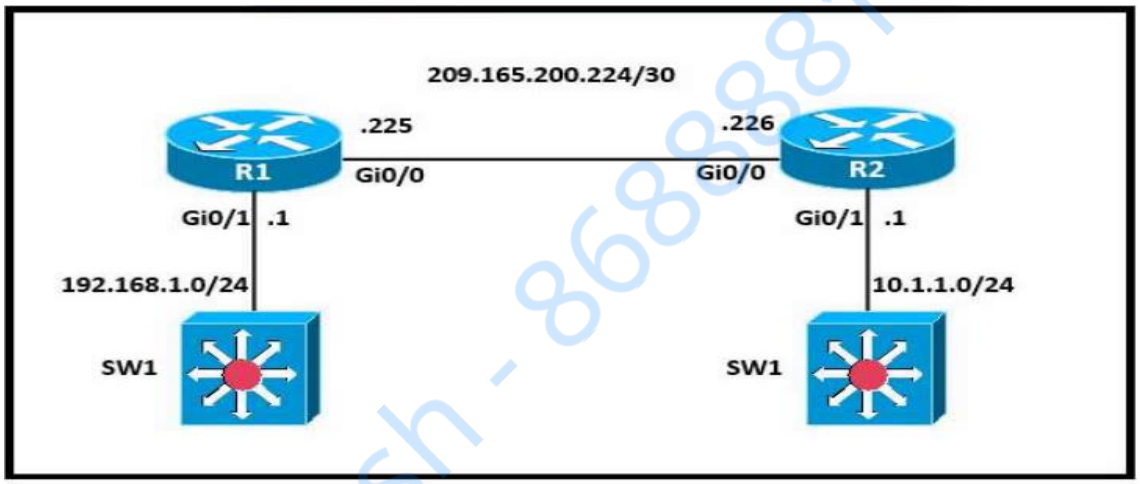
A. password password
B. ip ssh authentication-retries 2
C. ip domain-name domain
D. crypto key generate rsa modulus 1024

Q37.

Why was the RFC 1918 address space defined?
A. conserve public IPv4 addressing
B. support the NAT protocol
C. preserve public IPv6 address space
D. reduce instances of overlapping IP addresses

Q38.



Refer to the exhibit A network engineer is in the process of establishing IP connectivity between two sites. Routers R1 and R2 are partially configured with IP addressing Both routers have the ability to access devices on their respective LANs. Which command set configures the IP connectivity between devices located on both LANs in each site?

A.
R1
ip route 192.168.1.1 255.255.255.0 GigabitEthernet0/1
R2
ip route 10.1.1.1 255.255.255.0 GigabitEthernet0/1

B.
R1
ip route 192.168.1.0 255.255.255.0 GigabitEthernet0/0
R2
ip route 10.1.1.1 255.255.255.0 GigabitEthernet0/0

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C.

R1
ip route 0.0.0.0 0.0.0.0 209.165.200.225
R2
ip route 0.0.0.0 0.0.0.0 209.165.200.226

D.

R1
ip route 0.0.0.0 0.0.0.0 209.165.200.226
R2
ip route 0.0.0.0 0.0.0.0 209.165.200.225

Q39.

An organization secures its network with multi-factor authentication using an authenticator app on employee smartphones. How is the application secured in the case of a user's smartphone being lost or stolen?

A. The application verifies that the user is in a specific location before it provides the second factor
B. The application requires the user to enter a PIN before it provides the second factor.
C. The application requires an administrator password to reactivate after a configured interval
D. The application challenges a user by requiring an administrator password to reactivate when the smartphone is rebooted

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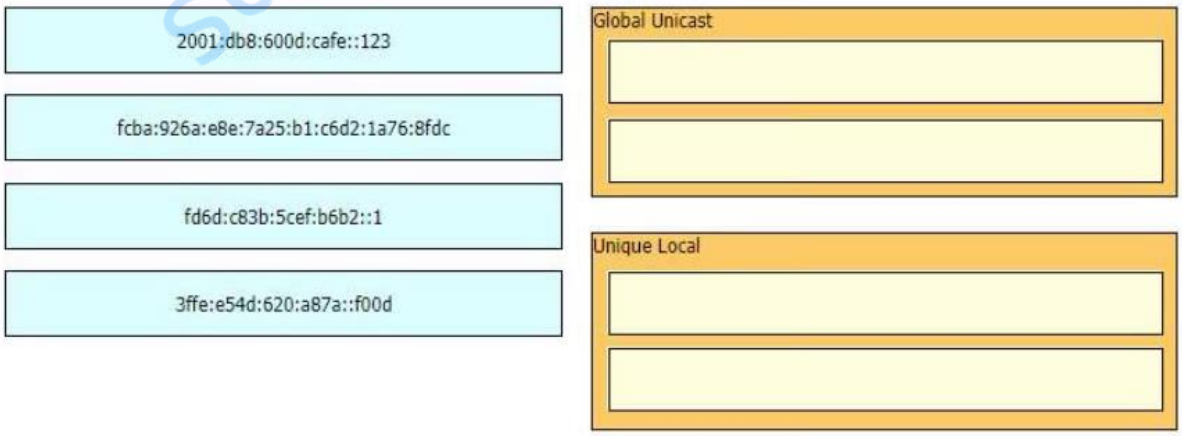
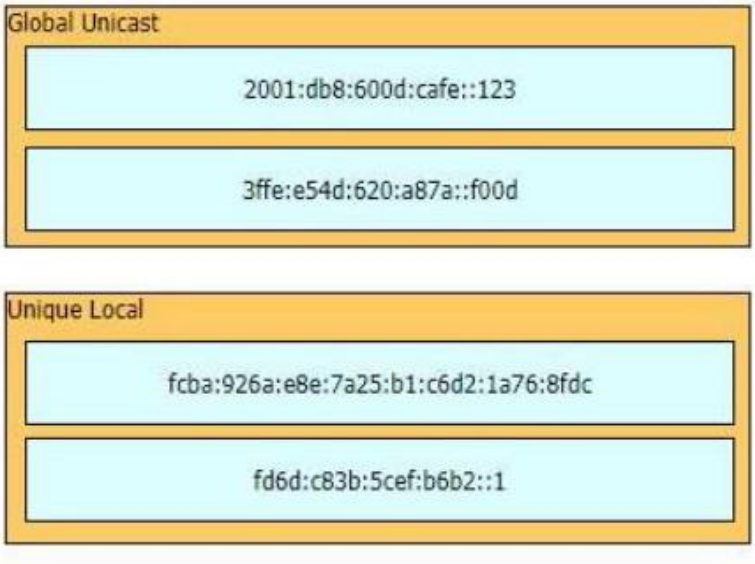
Q40.

Drag and drop the IPv6 addresses from the left onto the corresponding address types on the right.



ANSWER:



Q41.

Which type of organization should use a collapsed-core architecture?
A. small and needs to reduce networking costs
B. large and must minimize downtime when hardware fails
C. large and requires a flexible, scalable network design
D. currently small but is expected to grow dramatically in the near future

Q42.

When configuring a WLAN with WPA2 PSK in the Cisco Wireless LAN Controller GUI. which two formats are available to select? (Choose two)
A. ASCII
B. binary
C. base64
D. decimal
E. hexadecimal

Q43.

Which command implies the use of SNMPv3?
A. snmp-server user
B. snmp-server host
C. snmp-server enable traps
D. snmp-server community

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Q44.

```
ip arp inspection vlan 5-10
interface fastethernet 0/1
   switchport mode access
   switchport access vlan 5
```

Refer to the exhibit What is the effect of this configuration?

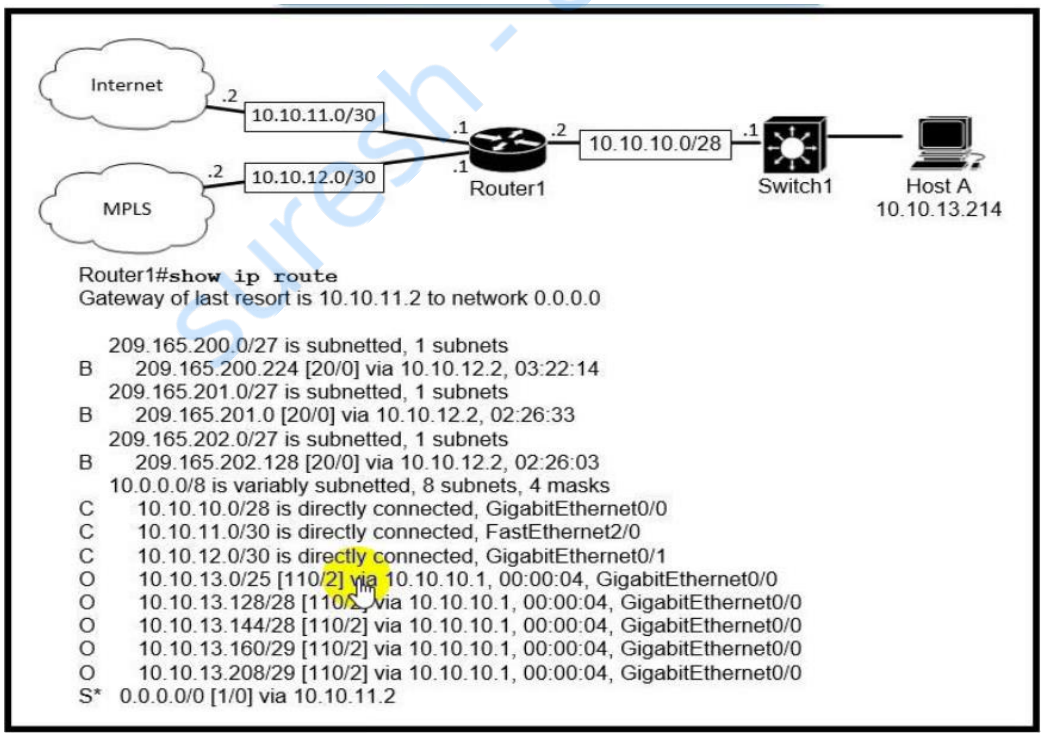
A. Egress traffic is passed only if the destination is a DHCP server.
B. All ARP packets are dropped by the switch
C. All ingress and egress traffic is dropped because the interface is untrusted.
D. The switch discards all ingress ARP traffic with invalid MAC-to-IP address bindings

Q45.

When deploying syslog which severity level logs informational messages?

A. 0
B. 2
C. 4
D. 6

Q46.




```
Router1#show ip route
Gateway of last resort is 10.10.11.2 to network 0.0.0.0

     209.165.200.0/27 is subnetted, 1 subnets
B       209.165.200.224 [20/0] via 10.10.12.2, 03:22:14
     209.165.201.0/27 is subnetted, 1 subnets
B       209.165.201.0 [20/0] via 10.10.12.2, 02:26:33
     209.165.202.0/27 is subnetted, 1 subnets
B       209.165.202.128 [20/0] via 10.10.12.2, 02:26:03
     10.0.0.0/8 is variably subnetted, 8 subnets, 4 masks
C       10.10.10.0/28 is directly connected, GigabitEthernet0/0
C       10.10.11.0/30 is directly connected, FastEthernet2/0
C       10.10.12.0/30 is directly connected, GigabitEthernet0/1
O       10.10.13.0/25 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O       10.10.13.128/28 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O       10.10.13.144/28 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O       10.10.13.160/29 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O       10.10.13.208/29 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
S*   0.0.0.0/0 [1/0] via 10.10.11.2
```

Refer to the exhibit Which prefix does Router1 use for traffic to Host A?

A. 10.10 100/28

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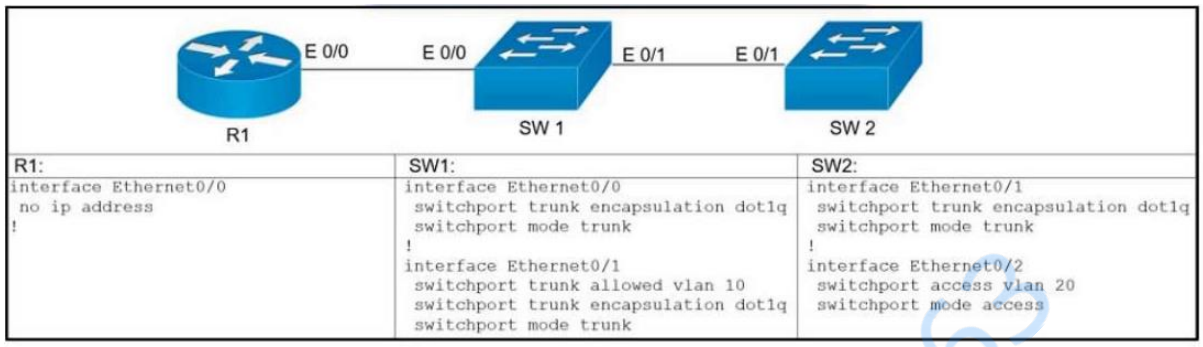
B. 10 10 130/25
C. 10.10.13.144/28
D. 10.10.13.208/29

Q47.



R1:	SW1:	SW2:
interface Ethernet0/0 no ip address !	interface Ethernet0/0 switchport trunk encapsulation dot1q switchport mode trunk ! interface Ethernet0/1 switchport trunk allowed vlan 10 switchport trunk encapsulation dot1q switchport mode trunk	interface Ethernet0/1 switchport trunk encapsulation dot1q switchport mode trunk ! interface Ethernet0/2 switchport access vlan 20 switchport mode access

Refer to the exhibit Which commands are needed to add a sub-interface to Ethernet/0 on R1 to allow for VLAN 20, with IP address 10.20.20.1/24?

A.
```
R1(config)#interface ethernet0/0
R1(config-if)#encapsulation dot1q 20
R1(config-if)#ip address 10.20.20.1 255.255.255.0
```

B.
```
R1(config)#interface ethernet0/0.20
R1(config-if)#encapsulation dot1q 20
R1(config-if)#ip address 10.20.20.1 255.255.255.0
```

C.
```
R1(config)#interface ethernet0/0.20
R1(config-if)#ip address 10.20.20.1 255.255.255.0
```

D.
```
R1(config)#interface ethernet0/0
R1(config-if)#ip address 10.20.20.1 255.255.255.0
```

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Q48.

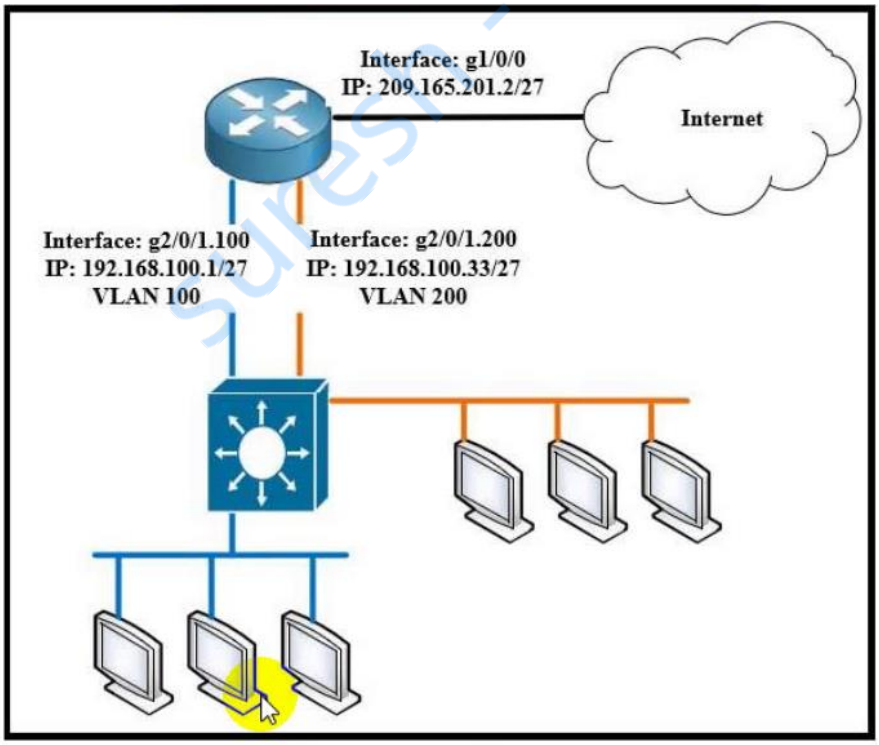
```
SiteA#show interface TenGigabitEthernet0/1/0
TenGigabitEthernet0/1/0 is up, line protocol is up
  Hardware is BUILT-IN-EPA-8x10G, address is 780c.f02a.db91 (bia 780a.f02b.db91)
  Description: Connection to SiteB
  Internet address is 10.10.10.1/30
  MTU 8146 bytes, BW 10000000 Kbit/sec, DLY 10 usec,
     reliability 166/255, txload 1/255, rxload 1/255
  Full Duplex, 10000Mbps, link type is force-up, media type is SFP-LR
  5 minute input rate 264797000 bits/sec, 26672 packets/sec
  5 minute output rate 122464000 bits/sec, 15724 packets/sec

SiteB#show interface TenGigabitEthernet0/1/0
TenGigabitEthernet0/1/0 is up, line protocol is up
  Hardware is BUILT-IN-EPA-8x10G, address is 780c.f02c.db26 (bia 780c.f02c.db26)
  Description: Connection to SiteA
  Internet address is 10.10.10.2/30
  MTU 8146 bytes, BW 10000000 Kbit/sec, DLY 10 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Full Duplex, 10000Mbps, link type is force-up, media type is SFP-LR
  5 minute input rate 122464000 bits/sec, 15724 packets/sec
  5 minute output rate 264797000 bits/sec, 26672 packets/sec
```

Refer to the exhibit Shortly after SiteA was connected to SiteB over a new single-mode fiber path, users at SiteA report intermittent connectivity issues with applications hosted at SiteB What is the cause of the intermittent connectivity issue?

A. High usage is causing high latency
B. Interface errors are incrementing.
C. The sites were connected with the wrong cable type.
D. An incorrect SFP media type was used at SiteA

Q49.



Refer to the exhibit Which configuration must be applied to the router that configures PAT to translate all addresses in VLAN 200 while allowing devices on VLAN 100 to use their own IP addresses?

A.
```
Router1(config)#access-list 99 permit 192.168.100.0 0.0.0.255
Router1(config)#ip nat inside source list 99 interface gi1/0/0 overload
Router1(config)#interface gi2/0/1.200
Router1(config-if)#ip nat inside
Router1(config)#interface gi1/0/0
Router1(config-if)#ip nat outside
```

B.
```
Router1(config)#access-list 99 permit 209.165.201.2 255.255.255.255
Router1(config)#ip nat inside source list 99 interface gi1/0/0 overload
Router1(config)#interface gi2/0/1.200
Router1(config-if)#ip nat inside
Router1(config)#interface gi1/0/0
Router1(config-if)#ip nat outside
```

C.
```
Router1(config)#access-list 99 permit 209.165.201.2 0.0.0.0
Router1(config)#ip nat inside source list 99 interface gi1/0/0 overload
Router1(config)#interface gi2/0/1.200
Router1(config-if)#ip nat inside
Router1(config)#interface gi1/0/0
Router1(config-if)#ip nat outside
```

D.
```
Router1(config)#access-list 99 permit 192.168.100.32 0.0.0.31
Router1(config)#ip nat inside source list 99 interface gi1/0/0 overload
Router1(config)#interface gi2/0/1.200
Router1(config-if)#ip nat inside
Router1(config)#interface gi1/0/0
Router1(config-if)#ip nat outside
```

Q50.

Which service is missing when RADIUS is selected to provide management access to the WLC?

A. authorization
B. authentication
C. accounting
D. confidentiality

Q51.

```
     10.0.0.0/24 is subsetted, 1 subnets
C         10.0.0.0 is directly connected, FastEthernet0/1
C    172.160.0/16 is directly connected, FastEthernet0/0
D    192.168.0.0/24 [90/30720] via 172.16.0.2, 00:00:03, FastEthernet0/0
```

Refer to the exhibit Which route type does the routing protocol Code D represent in the output?

A. internal BGP route
B. statically assigned route
C. 724 route of a locally configured IP
D. route learned through EIGRP

Q52.

```
R1# sh ip ospf int gig0/0
Gig0/0 is up, line protocol is up
  Internet Address 10.201.24.8/28, Area 1, Attached via Network Statement
  Process ID 100, Router ID 192.168.1.1, Network Type BROADCAST, Cost: 1
  Topology-MTID    Cost    Disabled    Shutdown      Topology Name
        0           1         no          no            Base
  Transmit Delay is 1 sec, State DR, Priority 1
  Designated Router (ID) 192.168.1.1, Interface address 10.201.24.8
  No backup designated router on this network
  Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
    oob-resync timeout 40
    Hello due in 00:00:07

R2#sh ip ospf int gig0/0
gig0/0 is up, line protocol is up
  Internet Address 10.201.24.1/28, Area 1
  Process ID 100, Router ID 172.16.1.1, Network Type BROADCAST, Cost: 1
  Transmit Delay is 1 sec, State DR, Priority 1
  Designated Router (ID) 172.16.1.1, Interface address 10.201.24.1
  No backup designated router on this network
  Timer intervals configured, Hello 20, Dead 80, Wait 80, Retransmit 5
```

Refer to the exhibit Which action establishes the OSPF neighbor relationship without forming an adjacency?

A. modify process ID
B. modify priority
C. modify network type
D. modify hello interval

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Q53.

```
interface GigabitEthernet0/1
ip address 192.168.1.2 255.255.255.0
ip access-group 2699 in
!
access-list 2699 deny icmp any 10.10.1.0 0.0.0.255 echo
access-list 2699 deny ip any 10.20.1.0 0.0.0.255
access-list 2699 permit ip any 10.10.1.0 0.0.0.255
access-list 2699 permit tcp any 10.20.1.0 0.0.0.127 eq 22
```

Refer to the exhibit A network administrator must permit SSH access to remotely manage routers in a network The operations team resides on the 10.20 1 0/25 network. Which command will accomplish this task?

A. access-list 2699 permit udp 10.20.1.0 0.0.0.255
B. no access-list 2699 deny tcp any 10.20.1.0 0.0.0.127 eq 22
C. access-list 2699 permit tcp any 10.20.1.0 0.0.0.255 eq 22
D. no access-list 2699 deny ip any 10.20.1.0 0.0.0.255

Q54.

What is the purpose of using First Hop Redundancy Protocol on a specific subnet?

A. ensures a loop-free physical topology
B. filters traffic based on destination IP addressing
C. sends the default route to the hosts on a network
D. forwards multicast hello messages between routers

Q55.

Which action does the router take as it forwards a packet through the network?

A. The router replaces the source and destination labels with the sending router interface label as a source and the next hop router label as a destination
B. The router encapsulates the original packet and then includes a tag that identifies the source router MAC address and transmits it transparently to the destination
C. The router encapsulates the source and destination IP addresses with the sending router IP address as the source and the neighbor IP address as the destination
D. The router replaces the original source and destination MAC addresses with the sending router MAC address as the source and neighbor MAC address as the destination.

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Q56.

By default, how does EIGRP determine the metric of a route for the routing table?

A. It uses the bandwidth and delay values of the path to calculate the route metric.
B. It uses a default metric of 10 for all routes that are learned by the router.
C. It counts the number of hops between the receiving and destination routers and uses that value as the metric
D. It uses a reference bandwidth and the actual bandwidth of the connected link to calculate the route metric.

Q57.

Which function forwards frames to ports that have a matching destination MAC address?

A. frame flooding
B. frame filtering
C. frame pushing
D. frame switching

Q58.

Which configuration management mechanism uses TCP port *22* by default when communicating with managed nodes?

A. Puppet
B. Chef
C. Ansible
D. Python

Q59.

Which two network actions occur within the data plane? (Choose two.)

A. Run routing protocols.
B. Make a configuration change from an incoming NETCONF RPC
C. Add or remove an 802 1Q trunking header
D. Match the destination MAC address to the MAC address table.
E. Reply to an incoming ICMP echo request

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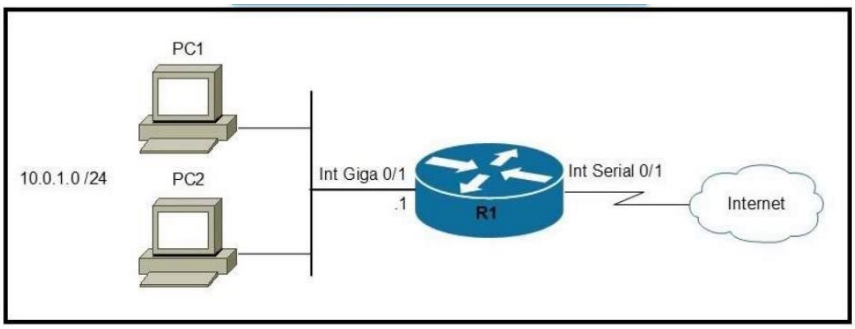
Q60.



Refer to the exhibit Which two commands must be configured on router R1 to enable the router to accept secure remote-access connections? (Choose two.)

A. ip ssh pubkey-chain
B. username cisco password 0 cisco
C. crypto key generate rsa
D. transport input telnet
E. login console

Q61.

Which interface mode must be configured to connect the lightweight APs in a centralized architecture"

A. WLAN dynamic
B. Trunk
C. Access
D. management

Q62.

```
R1#show run
Building configuration...
!
hostname R1
!
username CNAC password 0 cona123
!
ip domain-name CNAC.com
!
interface GigabitEthernet0/0/0
 ip address 192.168.1.10 255.255.255.0
 duplex auto
 speed auto
!
line vty 0 15
 login local

R1#show crypto key mypubkey rsa

R1#show ssh
%No SSHv2 server connections running.
%No SSHv1 server connections running.
```

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Refer to the exhibit Which two commands must be added to update the configuration of router R1 so that it accepts only encrypted connections? (Choose two.)

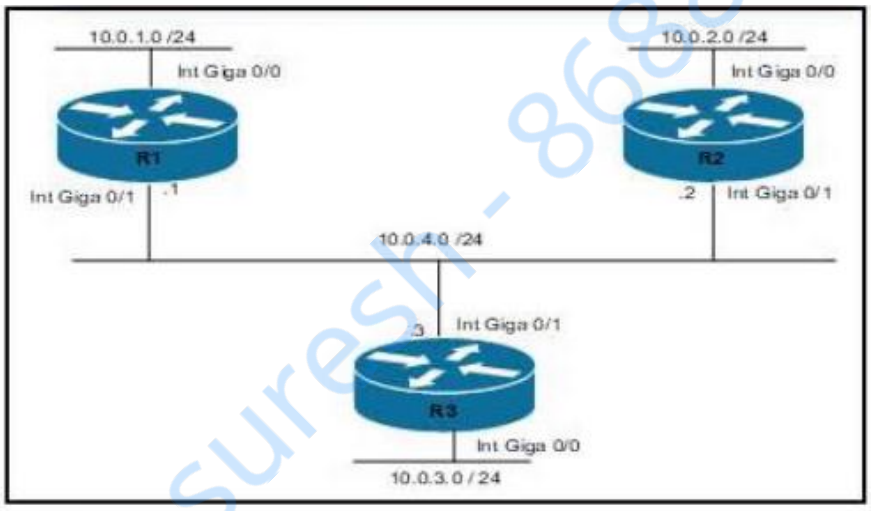
A. transport input ssh
B. username CNAC secret R!41!3705926@
C. crypto key generate rsa 1024
D. line vty 0 4
E. IP ssh version 2

Q63.

What is a benefit of VRRP?

A. It provides the default gateway redundancy on a LAN using two or more routers
B. It provides traffic load balancing to destinations that are more than two hops from the source
C. It prevents loops in a Layer 2 LAN by forwarding all traffic to a root bridge, which then makes the final forwarding decision.
D. It allows neighbors to share routing table information between each other

Q64.



Refer to the exhibit Routers R1 and R3 have the default configuration The router R2 priority is set to 99 Which commands on R3 configure it as the DR in the 10 0.4.0/24 network?

A. R3(config)#interface Gig0/0
R3(config-if)#ip ospf priority 100
B. R3(config)3interface Gig0/0
R3(config-if)#ip ospf priority 1
C. R3(config)#interface Gig0/1
R3(config-if)#ip ospf priority 0
D. R3(config)#interface Gig0/1
R3(config-if)#ip ospf priority 100

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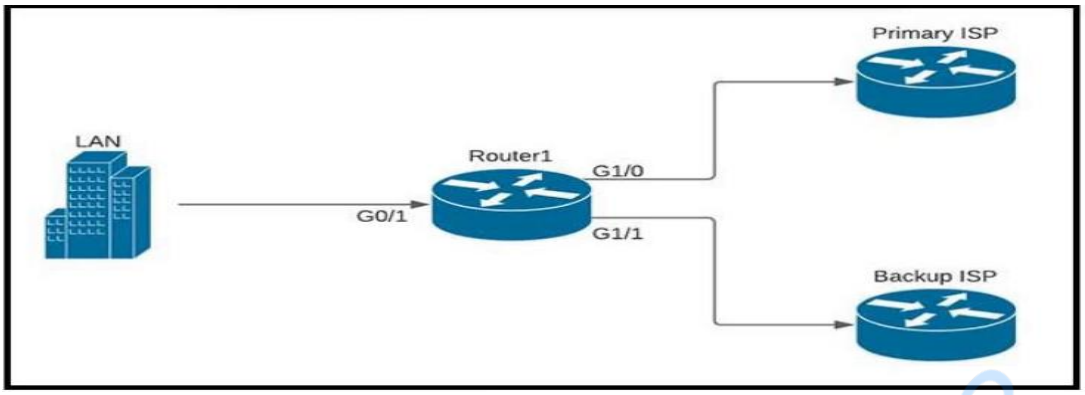
Q65.



Refer to the exhibit. A company is configuring a failover plan and must implement the default routes in such a way that a floating static route will assume traffic forwarding when the primary link goes down Which primary route configuration must be used?

A. ip route 0.0.0.0 0.0.0.0 192.168.0.2
B. ip route 0.0.0.0 0.0.0.0 192.168.0.2 GigabitEthernet1/0
C. ip route 0.0.0.0 0.0.0.0 192.168.0.2 floating
D. ip route 0.0.0.0 0.0.0.0 192.168.0.2 tracked

Q66.

Which QoS traffic handling technique retains excess packets in a queue and reschedules these packets for later transmission when the configured maximum bandwidth has been surpassed?

A. traffic policing
B. weighted random early detection
C. traffic prioritization
D. traffic shaping

Q67.

What is a function of Opportunistic Wireless Encryption in an environment?

A. provide authentication
B. protect traffic on open networks
C. offer compression
D. increase security by using a WEP connection

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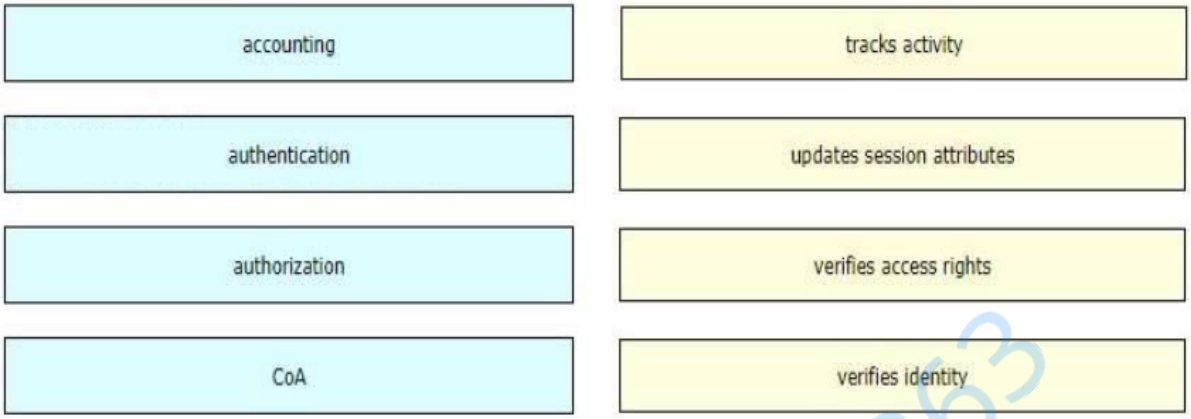
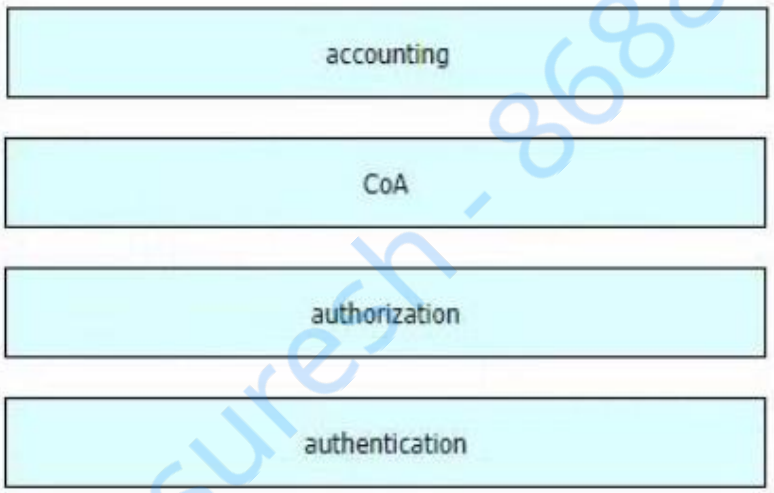
Q68.

Drag and drop the AAA terms from the left onto the descriptions on the right



ANSWER:



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Q69.

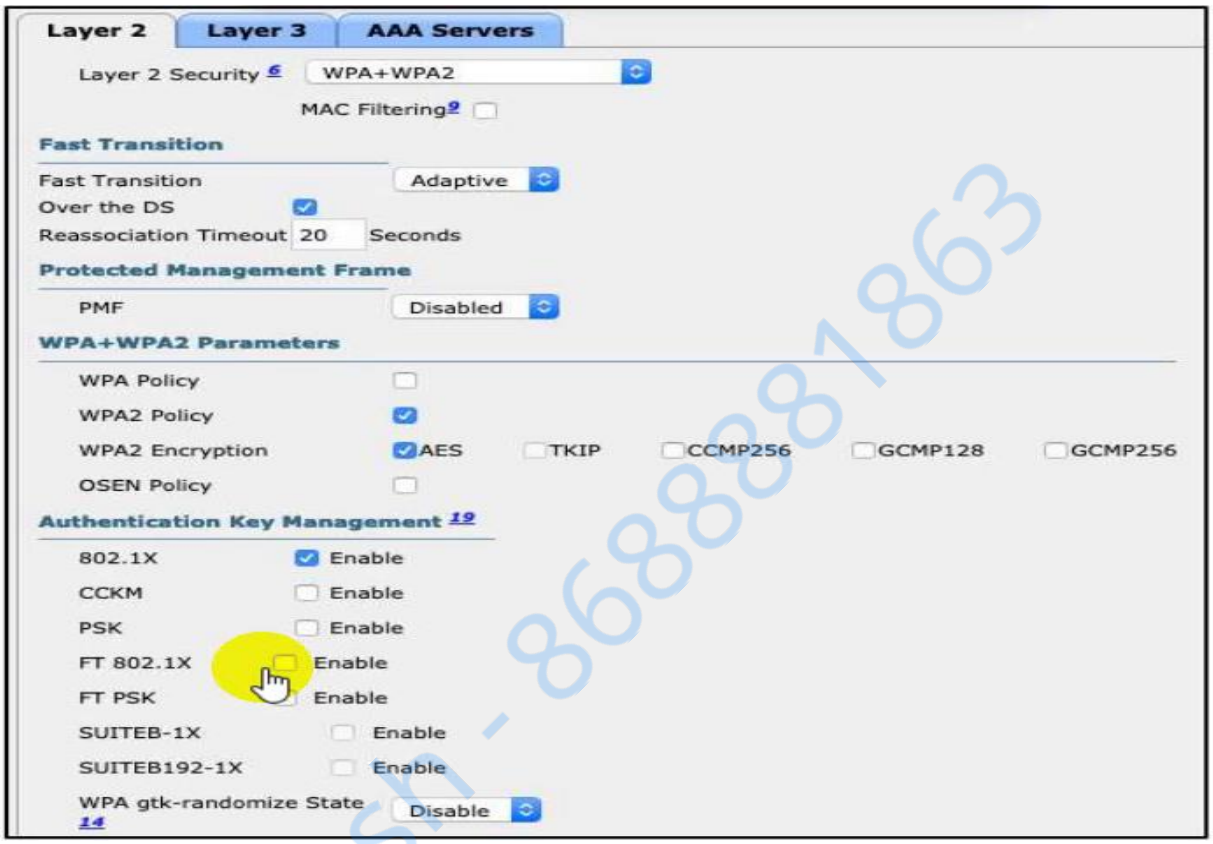
A network administrator is setting up a new IPv6 network using the 64-bit address 2001 0EB8 00C1 2200:0001 0000 0000:0331/64. To simplify the configuration, the administrator has decided to compress the address. Which IP address must the administrator configure?

A. ipv6 address 2001:EB8:C1:22:1::331/64
B. ipv6 address 21:EB8:C1:2200:1::331/64

C. ipv6 address 2001:EB8:C1:2200:1:0000:331/64
D. ipv6 address 2001:EB8:C1:2200:1::331/64

Q70.

Refer to the exhibit Clients on the WLAN are required to use 802 11 r action must be taken to meet the requirement



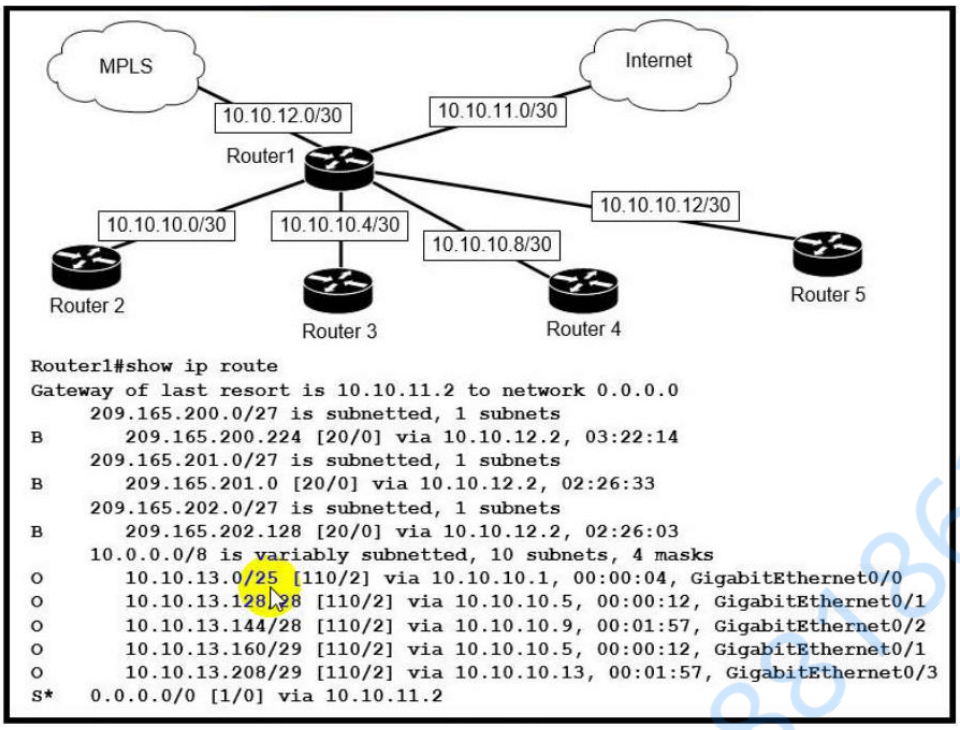
?

A. Under Protected Management Frames, set the PMF option to Required.
B. Enable CCKM under Authentication Key Management.
C. Set the Fast Transition option and the WPA gtk-randomize State to disable.
D. Set the Fast Transition option to Enable and enable FT 802.1X under Authentication Key Management.

Q71.

Which command must be entered to configure a DHCP relay?
A. ip dhcp relay
B. ip dhcp pool
C. ip address dhcp
D. ip helper-address

Q72.



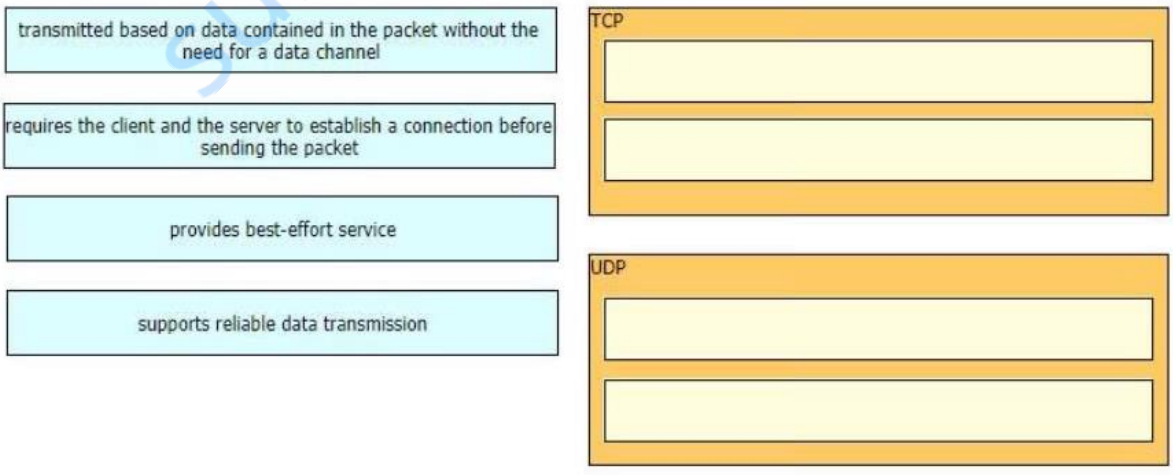

```
Router1#show ip route
Gateway of last resort is 10.10.11.2 to network 0.0.0.0
     209.165.200.0/27 is subnetted, 1 subnets
B       209.165.200.224 [20/0] via 10.10.12.2, 03:22:14
     209.165.201.0/27 is subnetted, 1 subnets
B       209.165.201.0 [20/0] via 10.10.12.2, 02:26:33
     209.165.202.0/27 is subnetted, 1 subnets
B       209.165.202.128 [20/0] via 10.10.12.2, 02:26:03
     10.0.0.0/8 is variably subnetted, 10 subnets, 4 masks
O       10.10.13.0/25 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O       10.10.13.128/28 [110/2] via 10.10.10.5, 00:00:12, GigabitEthernet0/1
O       10.10.13.144/28 [110/2] via 10.10.10.9, 00:01:57, GigabitEthernet0/2
O       10.10.13.160/29 [110/2] via 10.10.10.5, 00:00:12, GigabitEthernet0/1
O       10.10.13.208/29 [110/2] via 10.10.10.13, 00:01:57, GigabitEthernet0/3
S*   0.0.0.0/0 [1/0] via 10.10.11.2
```

Refer to the exhibit Which next-hop IP address does Router1 use for packets destined to host 10.10 13.158?

A. 10.10.10.9
B. 10.10.10.5
C. 10.10.11 2
D. 10.10.12.2

Q73.

Drag and drop the TCP or UDP details from the left onto their corresponding protocols on the right



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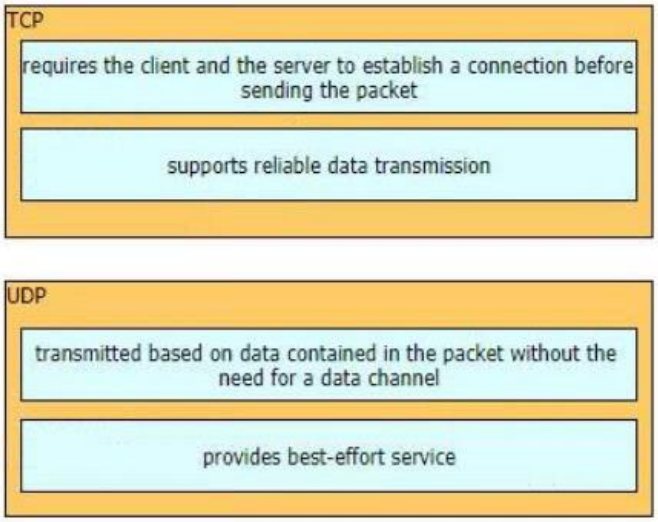
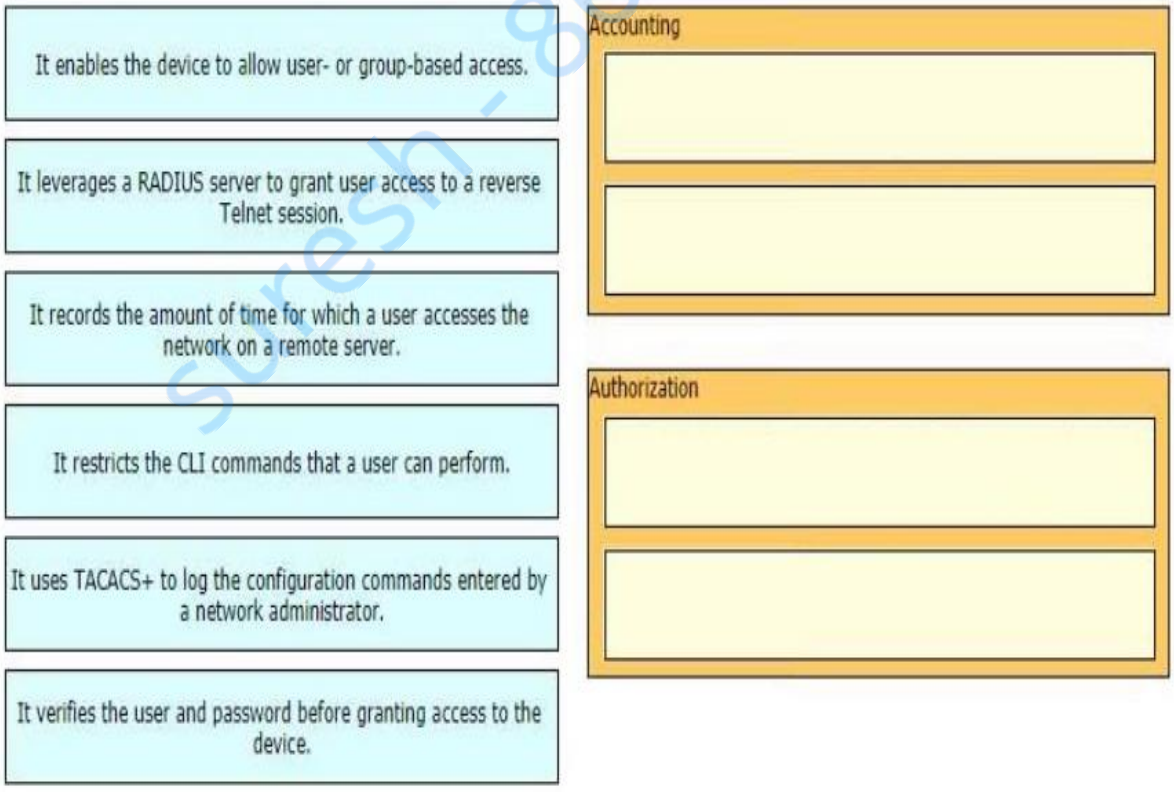
ANSWER:



Q74.

Drag and drop the AAA features from the left onto the corresponding AAA security services on the right. Not all options are used.



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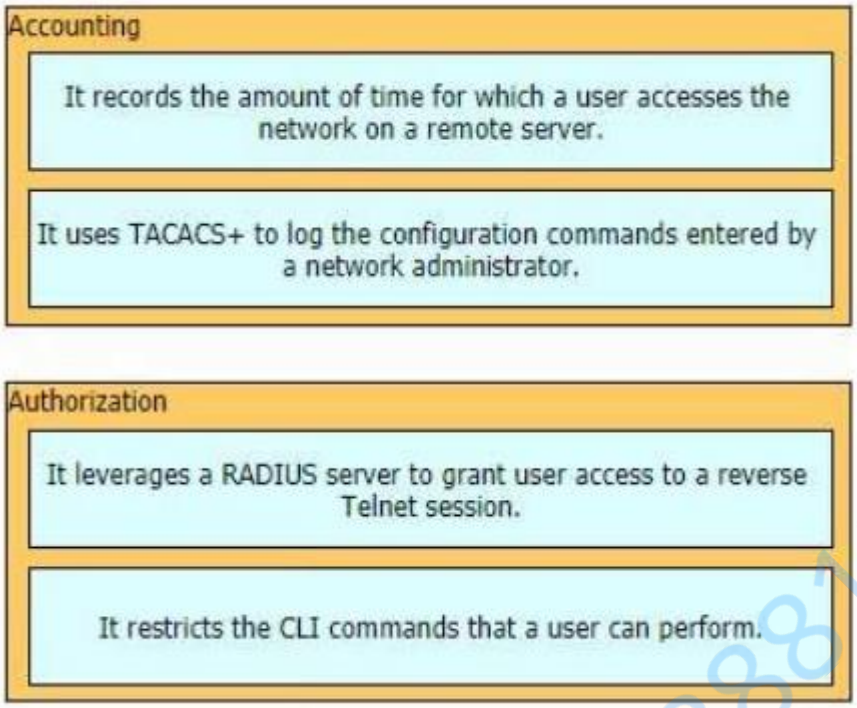
ANSWER:

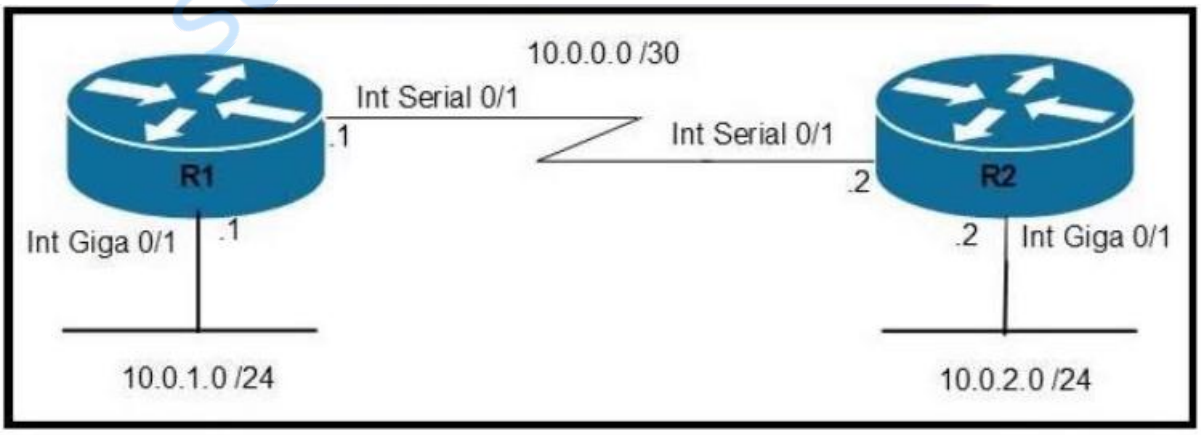


Q75.

Which field within the access-request packet is encrypted by RADIUS?

A. authorized services
B. password
C. authenticator
D. username

Q76.



Refer to the exhibit Which command configures OSPF on the point-to-point link between routers R1 and R2?

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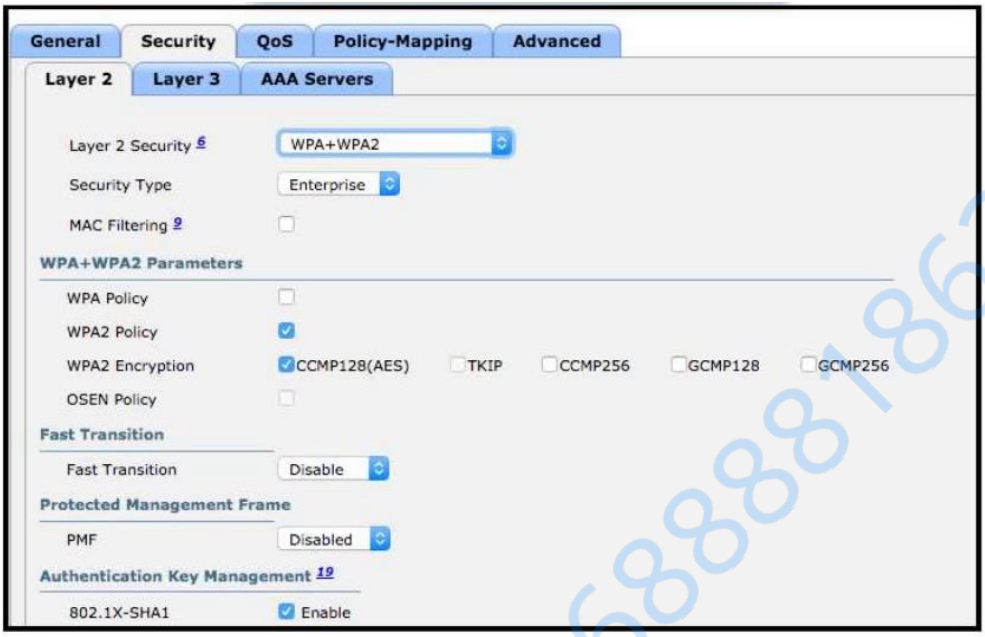
A. router-id 10.0.0.15
B. neighbor 10.1.2.0 cost 180
C. network 10.0.0.0 0.0.0.255 area 0
D. ip ospf priority 100

Q77.



Refer to the exhibit What must be configured to enable 802 11 w on the WLAN?
A. Set Fast Transition to Enabled.
B. Enable WPA Policy
C. Set PMF to Required
D. Enable MAC filtering

Q78.

```
R1# show ip route | begin gateway
Gateway of last resort is 209.165.200.246 to network 0.0.0.0
S* 0.0.0.0/0 [1/0] via 209.165.200.246, Serial0/1/0
      is directly connected, Serial0/1/0
      172.16.0.0/16 is variably subnetted, 3 subnets, 3 masks
S     172.16.0.0/24 [1/0] via 207.165.200.250, Serial0/0/0
O     172.16.0.128/25 [110/38443] via 207.165.200.254, 00:00:23, Serial0/0/1
D     172.16.0.192/29 [90/3184439] via 207.165.200.254, 00:00:25, Serial0/0/1
      209.165.200.0/24 is variably subnetted, 4 subnets, 2 masks
C     209.165.200.248/30 is directly connected, Serial0/0/0
L     209.165.200.249/32 is directly connected, Serial0/0/0
C     209.165.200.252/30 is directly connected, Serial0/0/1
L     209.165.200.253/32 is directly connected, Serial0/0/1
```

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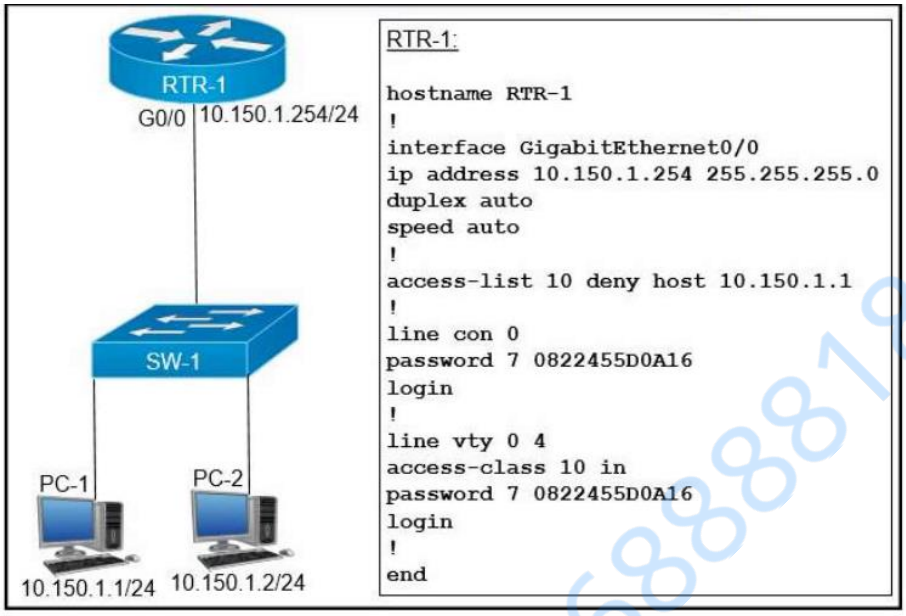
Refer to the exhibit With which metric was the route to host 172.16.0.202 learned'?

A. 0
B. 110
C. 38443
D. 3184439

Q79.



Refer to the exhibit An access list is created to deny Telnet access from host PC-1 to RTR-1 and allow access from all other hosts A Telnet attempt from PC-2 gives this message:"% Connection refused by remote host." Without allowing Telnet access from PC-1, which action must be taken to permit the traffic?

A. Add the access-list 10 permit any command to the configuration.
B. Remove the access-class 10 in command from line vty 0 4
C. Add the ip access-group 10 out command to interface g0/0
D. Remove the password command from line vty 0 4

Q80.

```
CPE# show ip route
     192.168.1.0/24 is variably subnetted, 3 subnets, 3 masks
B    192.168.1.0/24 [20/1] via 192.168.12.2, 00:00:06
R    192.168.1.128/25 [120/5] via 192.168.13.3, 00:02:35, Ethernet0/1
O    192.168.1.192/26 [110/11] via 192.168.14.4, 00:02:23, Ethernet0/2
D    192.168.1.224/27 [90/1024640] via 192.168.15.5, 00:01:40, Ethernet0/3
```

Refer to the exhibit All traffic enters the CPE router from interface Serial 0/3 with an IP address of 192.168.50.1. Web traffic from the WAN is destined for a LAN network where servers are load- balanced. An IP packet with a destination address

of the HTTP virtual IP of 192.168.1.250 must be forwarded Which routing table entry does the router use?

A. 192.168.1.0/24 via 192.168.12.2
B. 192 168 1.128/25 via 192.168 13.3
C. 192 168 1.192/26 via 192 168 14 4
D. 192.168 1.224/27 via 192.168 15.5

Q81.

What is the effect of the spanning-tree portfast command?

A. It immediately puts the port into the forwarding state when the switch is reloaded
B. It enables BPDU messages
C. It minimizes spanning-tree convergence time
D. It immediately enables the port in the listening state.

Q82.

A wireless administrator has configured a WLAN however, the clients need access to a less congested 5-GHz network for their voice quality Which action must be taken to meet the requirement?

A. enable RX-SOP
B. enable DTIM
C. enable Band Select
D. enable AAA override

Q83.

Which CRUD operation corresponds to the HTTP GET method?

A. create
B. read
C. delete
D. update

Q84.

What differentiates device management enabled by Cisco DNA Center from traditional campus device management?

A. CLI-oriented device
B. centralized
C. device-by-device hands-on
D. per-device

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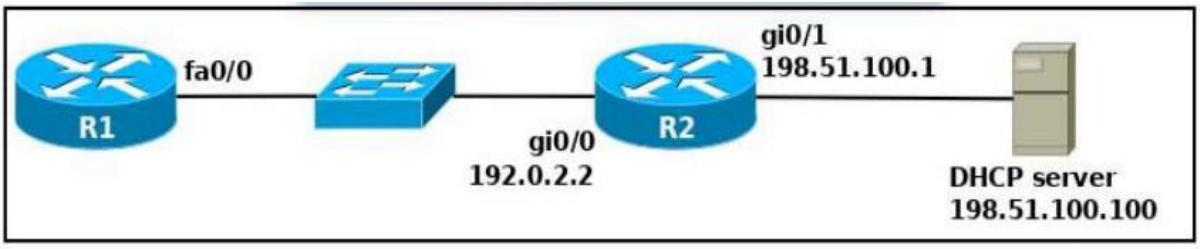
Q85.



Refer to the exhibit An engineer deploys a topology in which R1 obtains its IP configuration from DHCP. If the switch and DHCP server configurations are complete and correct, which two sets of commands must be configured on R1 and R2 to complete the task? (Choose two)

A.
```
R2(config)# interface gi0/0
R2(config-if)# ip helper-address 198.51.100.100
```

B.
```
R1(config)# interface fa0/0
R1(config-if)# ip address dhcp
R1(config-if)# no shutdown
```

C.
```
R1(config)# interface fa0/0
R1(config-if)# ip helper-address 192.0.2.2
```

D.
```
R1(config)# interface fa0/0
R1(config-if)# ip helper-address 198.51.100.100
```

E.
```
R2(config)# interface gi0/0
R2(config-if)# ip address dhcp
```

Q86.

Which type of IPv6 address is similar to a unicast address but is assigned to multiple devices on the same network at the same time?

A. global unicast address
B. link-local address
C. anycast address
D. multicast address

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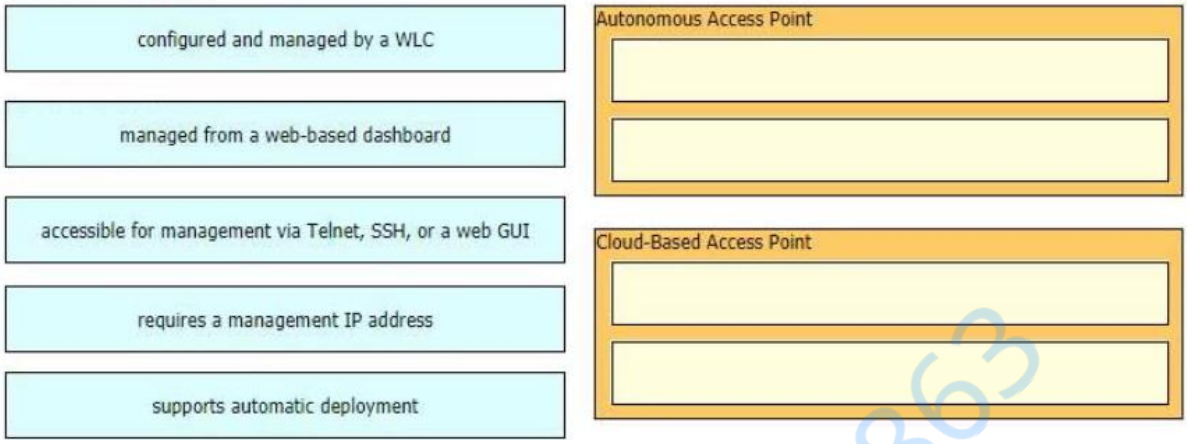
Q87.

Drag and drop the facts about wireless architectures from the left onto the types of access point on the right Not all options are used



ANSWER:

3 4 to AUTONOMOUS

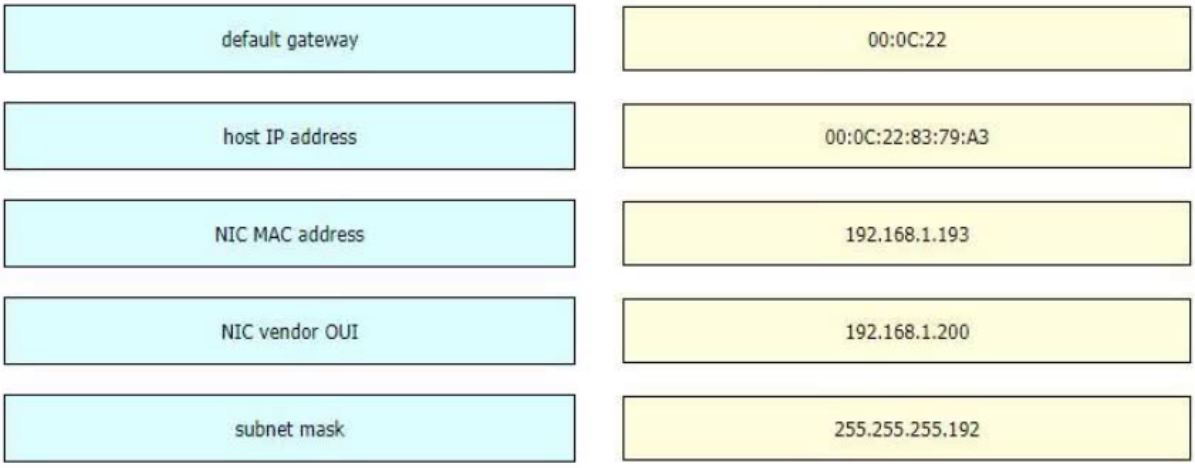
2 5 to CLOUD

Q88.

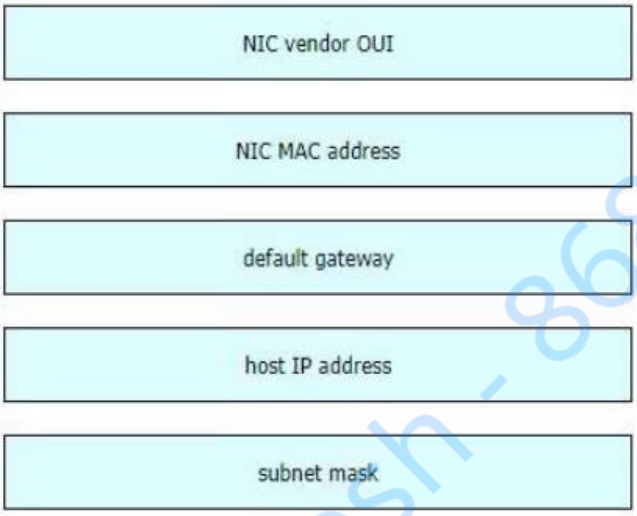
```
[root@HostTest ~]# ip route
default via 192.168.1.193 dev eth1  proto static
192.168.1.0/26 dev eth1  proto kernel  scope link  src 192.168.1.200  metric 1

[root@HostTest ~]# ip addr show eth1
eth1:  mtu 1500 qdisc pfifo_fast qlen 1000
   link/ether 00:0C:22:83:79:A3 brd ff:ff:ff:ff:ff:ff
   inet 192.168.1.200/26 brd 192.168.1.255 scope global eth1
   inet6 fe80::20c:29ff:fe89:79b3/64 scope link
   valid_lft forever preferred_lft forever
```

Refer to the exhibit Drag and drop the networking parameters from the left onto the correct values on the right.



ANSWER:



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Q89.

Which 802. 11 frame type is Association Response?

A. management
B. control
C. protected frame
D. action

Q90.

Router R1 must send all traffic without a matching routing-table entry to 192 168 1 1
Which configuration accomplishes this task?

A.
```
R1#config t
R1(config)#ip routing
R1(config)#ip route 0.0.0.0 0.0.0.0 192.168.1.1
```

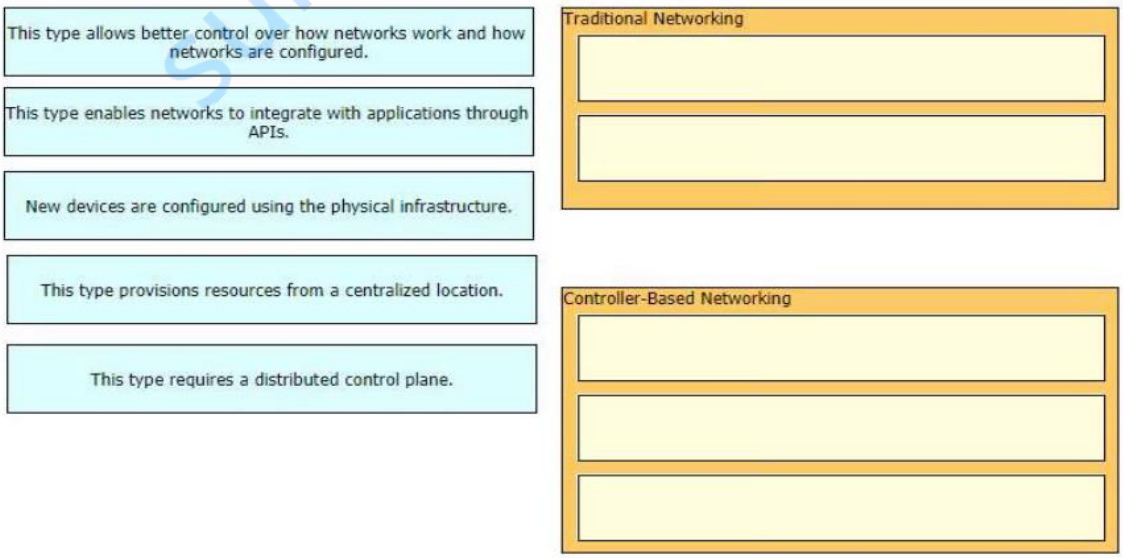
B.
```
R1#config t
R1(config)#ip routing
R1(config)#ip default-gateway 192.168.1.1
```

C.
```
R1#config t
R1(config)#ip routing
R1(config)#ip route default-route 192.168.1.1
```

D.
```
R1#config t
R1(config)#ip routing
R1(config)#ip route 192.168.1.1 0.0.0.0 0.0.0.0
```

Q91.

Drag and drop the statements about networking from the left onto the corresponding networking types on the right



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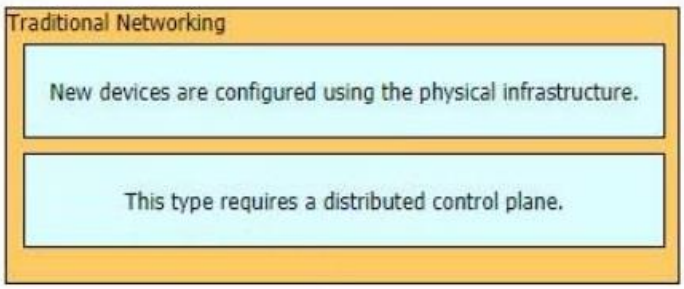
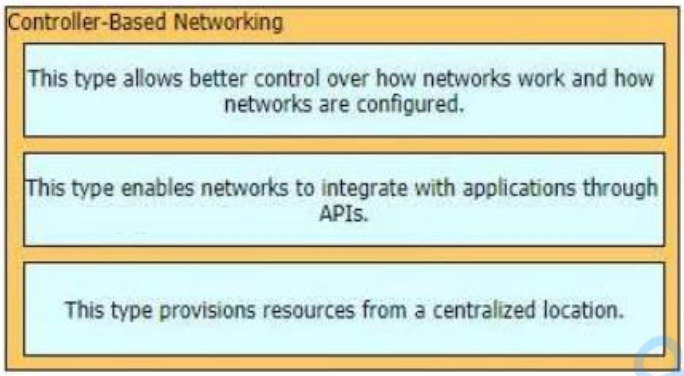
ANSWER:





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Q92.

Which protocol does an access point use to draw power from a connected switch?

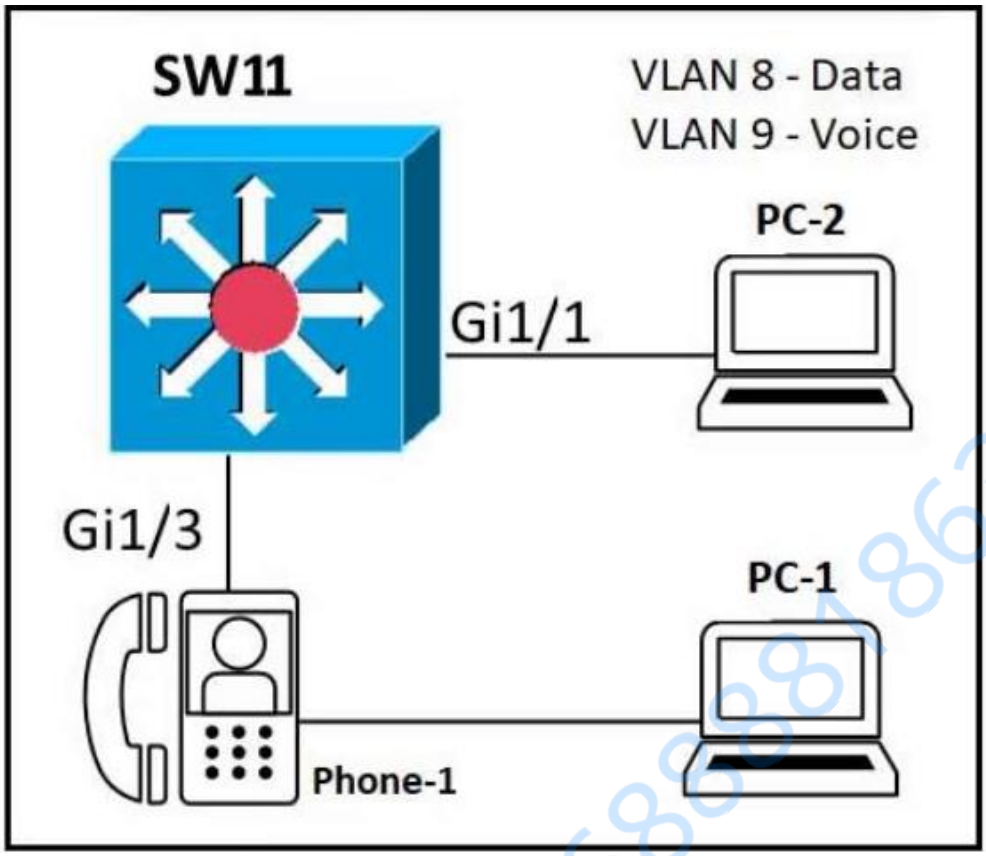
A. Internet Group Management Protocol
B. Cisco Discovery Protocol
C. Neighbor Discovery Protocol
D. Adaptive Wireless Path Protocol

Q93.

What is a capability of FTP in network management operations?

A. offers proprietary support at the session layer when transferring data
B. uses separate control and data connections to move files between server and client
C. encrypts data before sending between data resources
D. devices are directly connected and use UDP to pass file information

Q94.



Refer to the exhibit An administrator must configure interfaces Gi1/1 and Gi1/3 on switch SW11 PC-1 and PC-2 must be placed in the Data VLAN, and Phone-1 must be placed in the Voice VLAN Which configuration meets these requirements?

A.

```
interface gigabitethernet1/1
switchport mode access
switchport access vlan 8
!
interface gigabitethernet1/3
switchport mode access
switchport access vlan 8
switchport voice vlan 9
```

B.

```
interface gigabitethernet1/1
switchport mode access
switchport access vlan 8
!
interface gigabitethernet1/3
switchport mode trunk
switchport trunk vlan 8
switchport voice vlan 9
```

C.

```
interface gigabitethernet1/1
switchport mode access
switchport access vlan 9
!
interface gigabitethernet1/3
switchport mode trunk
switchport trunk vlan 8
switchport trunk vlan 9
```

D.

```
interface gigabitethernet1/1
switchport mode access
switchport access vlan 8
!
interface gigabitethernet1/3
switchport mode access
switchport voice vlan 8
switchport access vlan 9
```

Q95.

Which type of network attack overwhelms the target server by sending multiple packets to a port until the half-open TCP resources of the target are exhausted?

A. SYN flood
B. reflection
C. teardrop
D. amplification

Q96.

What are two characteristics of an SSID? (Choose two.)

A. It uniquely identifies a client in a WLAN.
B. It is at most 32 characters long
C. It uniquely identifies an access point in a WLAN
D. It provides secured access to a WLAN.
E. It can be hidden or broadcast in a WLAN

Q97.

What are network endpoints?

A. support inter-VLAN connectivity
B. a threat to the network if they are compromised
C. act as routers to connect a user to the service provider network

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D. enforce policies for campus-wide traffic going to the Internet

Q98.

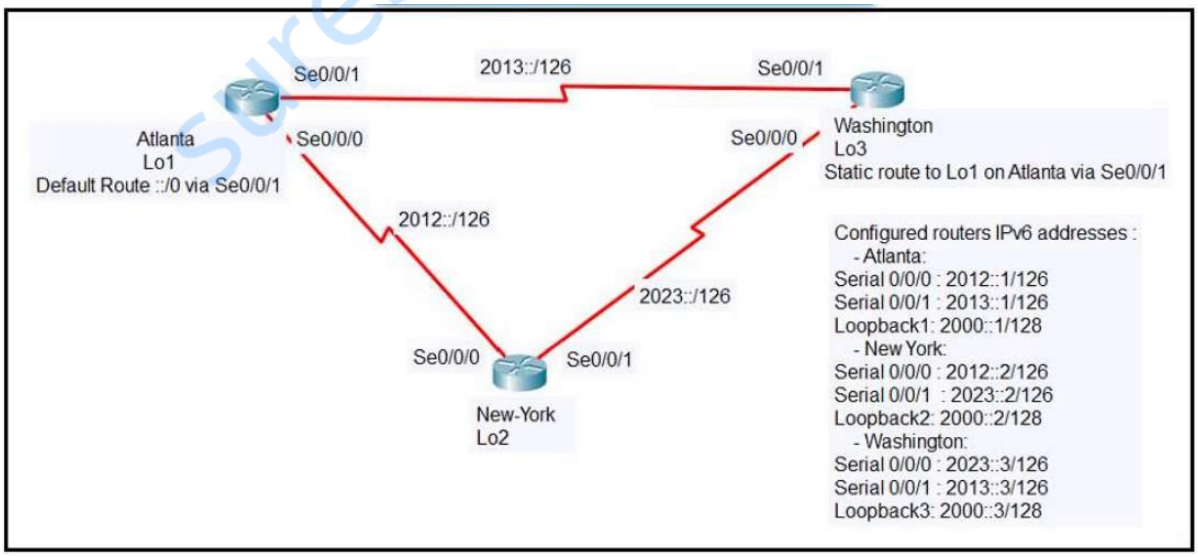
```
Switch#show etherchannel summary
[output omitted]

Group  Port-channel  Protocol    Ports
------+-------------+-----------+-----------------------
10     Po10(SU)         LACP      Gi0/0(P)    Gi0/1(P)
20     Po20(SU)         LACP      Gi0/2(P)    Gi0/3(P)
```

Refer to the exhibit Which two commands when used together create port channel 10? (Choose two.)

A. int range g0/0-1
channel-group 10 mode active
B. int range g0/0-1
channel-group 10 mode desirable
C. int range g0/0-1
channel-group 10 mode passive
D. int range g0/0-1
channel-group 10 mode auto
E. int range g0/0-1
channel-group 10 mode on

Q99.



Refer to the exhibit An engineer is configuring the New York router to reach the Lo1 interface of the Atlanta router using interface Se0/0/0 as the primary path Which

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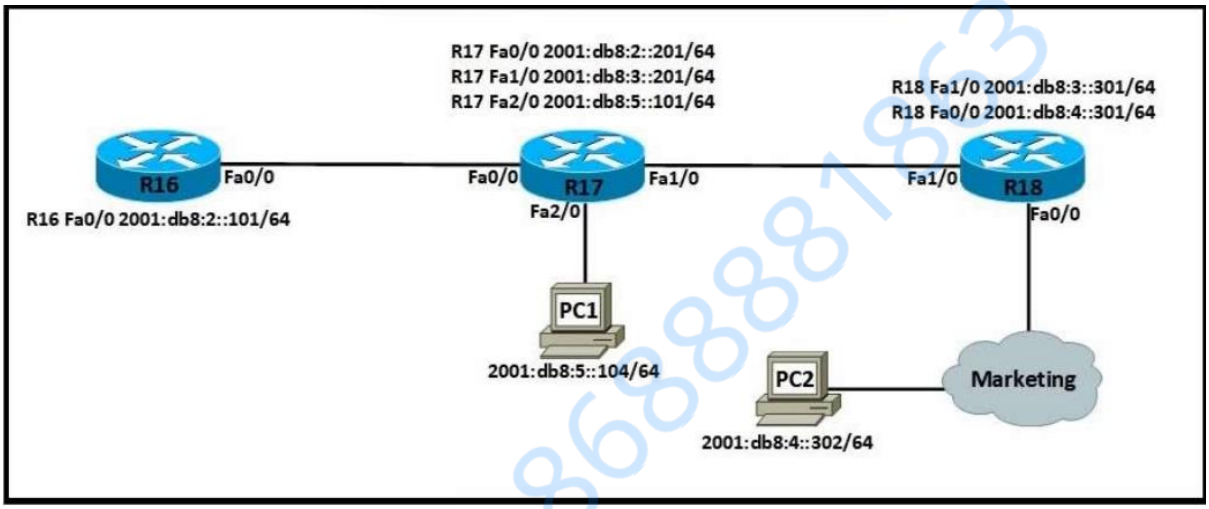
two commands must be configured on the New York router so that it reaches the Lo1 interface of the Atlanta router via Washington when the link between New York and Atlanta goes down? (Choose two.)

A. ipv6 route 2000::1/128 2012::1
B. ipv6 route 2000::1/128 2012::1 5
C. ipv6 route 2000::1/128 2012::2
D. ipv6 route 2000::1/128 2023::2
E. ipv6 route 2000::1/128 2023::3 5

Q100.



Refer to the exhibit Which IPv6 configuration is required for R17 to successfully ping the WAN interface on R18?

A.

```
R17#
!
no ip domain lookup
ip cef
ipv6 cef
!
interface FastEthernet0/0
no ip address
duplex auto
speed auto
ipv6 address 2001:DB8:2::201/64
!
interface FastEthernet1/0
no ip address
duplex auto
speed auto
ipv6 address 2001:DB8:3::201/64
!
no cdp log mismatch duplex
ipv6 route 2001:DB8:4::/64 2001:DB8:4::302
```

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B.

```
R17#
!
no ip domain lookup
ip cef
!
interface FastEthernet0/0
no ip address
duplex auto
speed auto
ipv6 address 2001:DB8:3::201/64
!
interface FastEthernet1/0
no ip address
duplex auto
speed auto
ipv6 address 2001:DB8:2::201/64
!
no cdp log mismatch duplex
ipv6 route 2001:DB8:4::/64 2001:DB8:5::101
```

C.

```
R17#
!
no ip domain lookup
ip cef
ipv6 unicast-routing
!
interface FastEthernet0/0
no ip address
duplex auto
speed auto
ipv6 address 2001:DB8:2::201/64
!
interface FastEthernet1/0
no ip address
duplex auto
speed auto
ipv6 address 2001:DB8:3::201/64
!
no cdp log mismatch duplex
ipv6 route 2001:DB8:4::/64 2001:DB8:3::301
```

D.

```
R17#
!
no ip domain lookup
ip cef
ipv6 unicast-routing
!
interface FastEthernet0/0
no ip address
duplex auto
speed auto
ipv6 address 2001:DB8:2::201/64
!
interface FastEthernet1/0
no ip address
duplex auto
speed auto
ipv6 address 2001:DB8:3::201/64
!
no cdp log mismatch duplex
ipv6 route 2001:DB8:4::/64 2001:DB8:2::201
```

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Q101.

An engineer requires a switch interface to actively attempt to establish a trunk link with a neighbor switch What command must be configured?

A. switchport mode trunk
B. switchport mode dynamic auto
C. switchport mode dynamic desirable
D. switchport nonegotiate

Q102.

```
A# show ip ospf neighbor
Neighbor ID  Pri   State           Dead Time  Address     Interface
172.1.1.1    1     EXCHANGE/  -    00:00:36   172.16.32.1 Serial0.1
```

Refer to the exhibit An engineer assumes a configuration task from a peer Router A must establish an OSPF neighbor relationship with neighbor 172.1.1.1 The output displays the status of the adjacency after 2 hours. What is the next step in the configuration process for the routers to establish an adjacency?

A. Configure router A to use the same MTU size as router B
B. Configure a point-to-point link between router A and router B.
C. Set the router B OSPF ID to the same value as its IP address.
D. Set the router B OSPF ID to a nonhost address

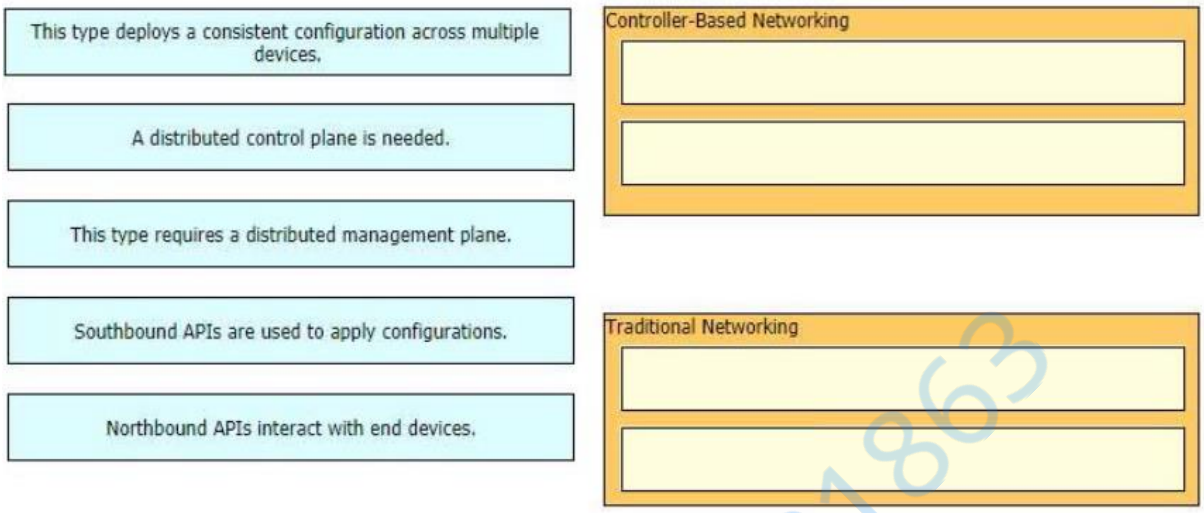
Q103.

What is a difference between RADIUS and TACACS+?

A. TACACS+ separates authentication and authorization, and RADIUS merges them
B. RADIUS is most appropriate for dial authentication but TACACS+ is also used for multiple types of authentication
C. TACACS+ encrypts only password information, and RADIUS encrypts the entire payload
D. RADIUS logs all commands that are entered by the administrator, but TACACS+ logs only start, stop, and interim commands.

Q104.

Drag and drop the statements about networking from the left onto the corresponding networking types on the right Not all statements are used.



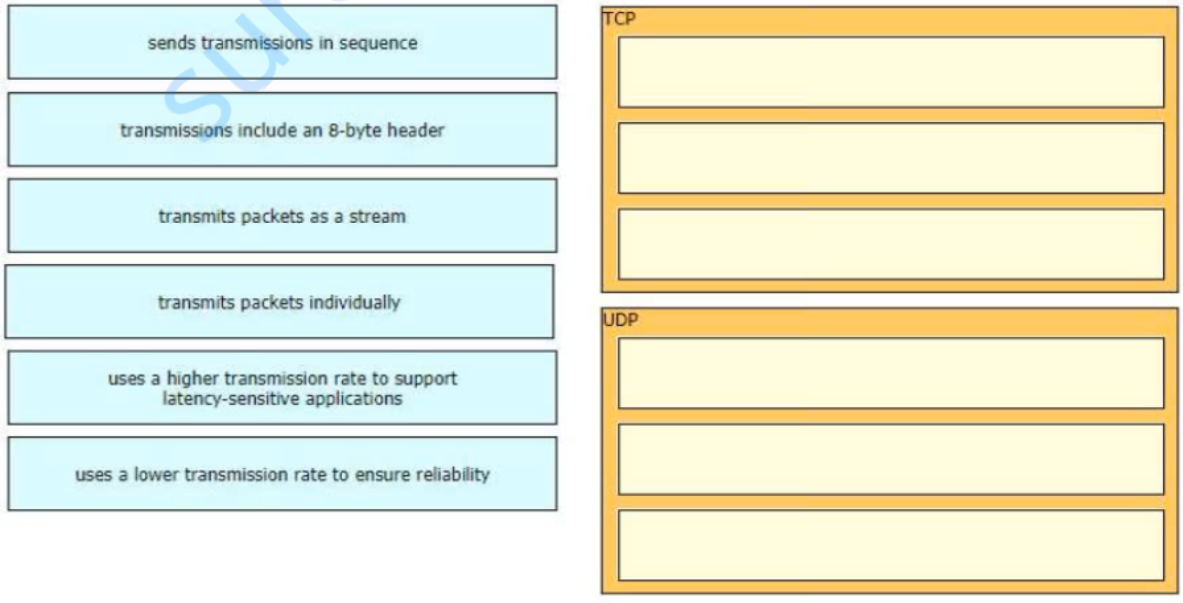
ANSWER:

2 3 to TRADITIONAL

4 6 to CONROLLER

Q105.

Drag and drop the descriptions of IP protocol transmissions from the left onto the IP traffic types on the right



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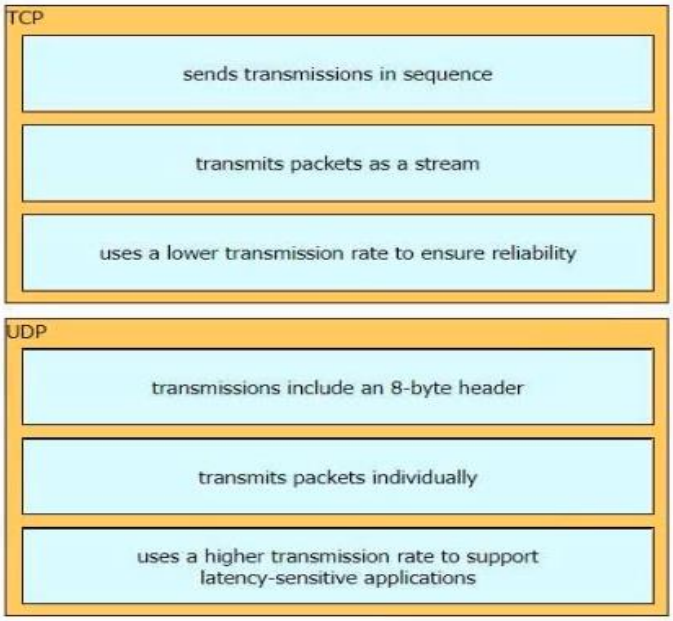
ANSWER:



Q106.

What is the function of the controller in a software-defined network?
A. forwarding packets
B. multicast replication at the hardware level
C. making routing decisions
D. fragmenting and reassembling packets

Q107.

OSPF must be configured between routers R1 and R2 Which OSPF configuration must be applied to router R1 to avoid a DR'BDR election?

A.

```
router ospf 1
network 192.168.1.1 0.0.0.0 area 0

interface e1/1
ip address 192.168.1.1 255.255.255.252
ip ospf cost 0
```

B.

```
router ospf 1
network 192.168.1.1 0.0.0.0 area 0
hello interval 15

interface e1/1
ip address 192.168.1.1 255.255.255.252
```

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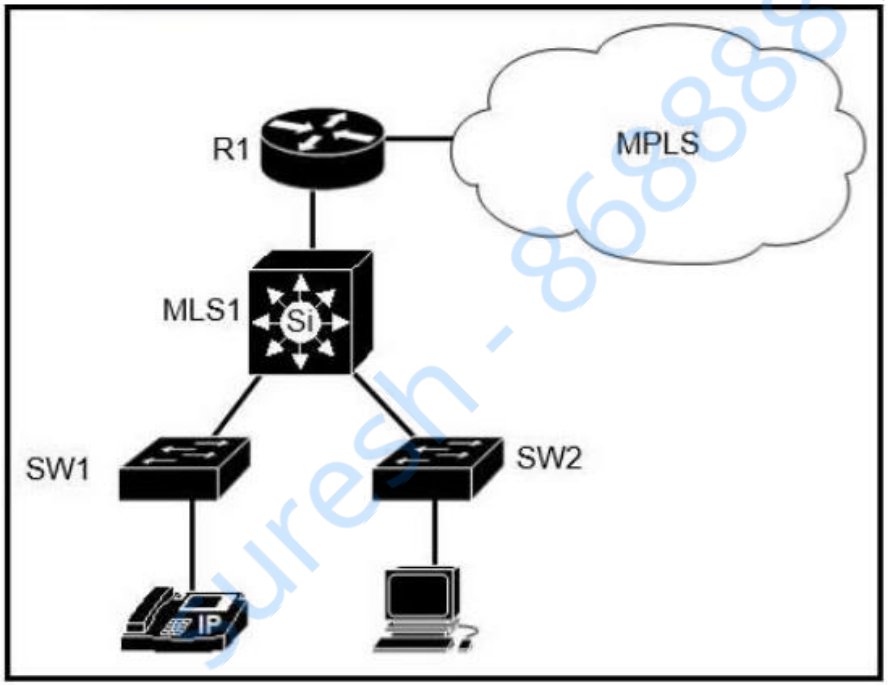
C.
```
router ospf 1
network 192.168.1.1 0.0.0.0 area 0

interface e1/1
ip address 192.168.1.1 255.255.255.252
ip ospf network broadcast
```

D.
```
router ospf 1
network 192.168.1.1 0.0.0.0 area 0

interface e1/1
ip address 192.168.1.1 255.255.255.252
ip ospf network point-to-point
```

Q108.



Refer to the exhibit Which plan must be implemented to ensure optimal QoS marking practices on this network?

A. Trust the IP phone markings on SW1 and mark traffic entering SW2 at SW2
B. As traffic traverses MLS1 remark the traffic, but trust all markings at the access layer.
C. Remark traffic as it traverses R1 and trust all markings at the access layer.
D. As traffic enters from the access layer on SW1 and SW2, trust all traffic markings.

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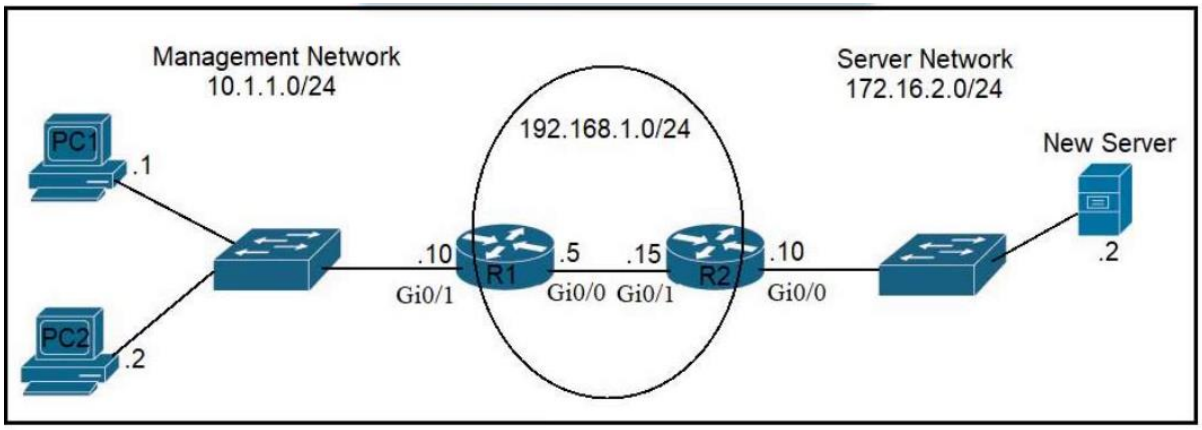
Q109.



Refer to the exhibit An engineer is updating the R1 configuration to connect a new server to the management network. The PCs on the management network must be blocked from pinging the default gateway of the new server. Which command must be configured on R1 to complete the task?

A. R1(config)#ip route 172.16.2.0 255.255.255.0 192.168.1.15
B. R1(config)#ip route 172.16.2.2 255.255.255.248 gi0/1
C. R1 (config)#ip route 172.16.2.2 255.255.255.255 gi0/0
D. R1 (config)#ip route 172.16.2.0 255.255.255.0 192.168.1.5

Q110.

The SW1 interface g0/1 is in the down/down state What are two reasons for the interface condition? (Choose two)

A. There is a protocol mismatch
B. The interface is shut down
C. There is a speed mismatch.
D. There is a duplex mismatch.
E. The interface is error-disabled

Q111.

What is a characteristic of private IPv4 addressing'?

A. composed of up to 65,536 available addresses
B. issued by IANA in conjunction with an autonomous system number
C. used without tracking or registration
D. traverse the Internet when an outbound ACL is applied

Q112.

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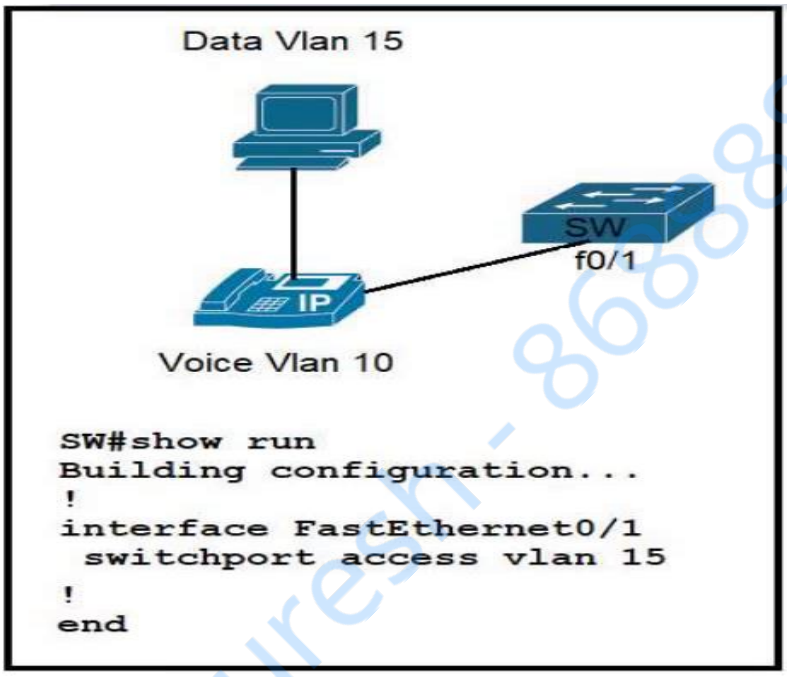
Wh ose two.)

A. Interface FastEthernet0/1
B. switchport trunk allowed vlan add 10
C. vlan 10
D. private-vlan isolated
E. clear-text password that authenticates connections

Q113.



Refer to the exhibit All VLANs are present in the VLAN database. Which command sequence must be applied to complete the configuration'?

A.
```
interface FastEthernet0/1
 switchport mode access
 switchport voice vlan 10
```

B.
```
interface FastEthernet0/1
 switchport trunk native vlan 10
 switchport trunk allowed vlan 10,15
```

C.
```
Interface FastEthernet0/1
switchport trunk allowed vlan add 10
vlan 10
 private-vlan isolated
```

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D.

```
interface FastEthernet0/1
 switchport mode trunk
 switchport trunk allowed vlan 10,15
```

Q114.

```
SW1#show run int gig 0/1
interface GigabitEthernet0/1
 switchport access vlan 11
 switchport trunk allowed vlan 1-10
 switchport trunk encapsulation dot1q
 switchport trunk native vlan 5
 switchport mode trunk
 speed 1000
 duplex full
```

Refer to the exhibit Which action is expected from SW1 when the untagged frame is received on the GigabitEthernet0/1 interface?

A. The frame is processed in VLAN 11
B. The frame is processed in VLAN 5.
C. The frame is processed in VLAN 1.
D. The frame is dropped.

Q115.

What is a function of TFTP in network operations?

A. transfers IOS images from a server to a router for firmware upgrades
B. transfers configuration files from a server to a router on a congested link
C. transfers a backup configuration file from a server to a switch using a username and password
D. transfers files between file systems on a router

Q116.

Drag and drop the descriptions of AAA services from the left onto the corresponding services on the right

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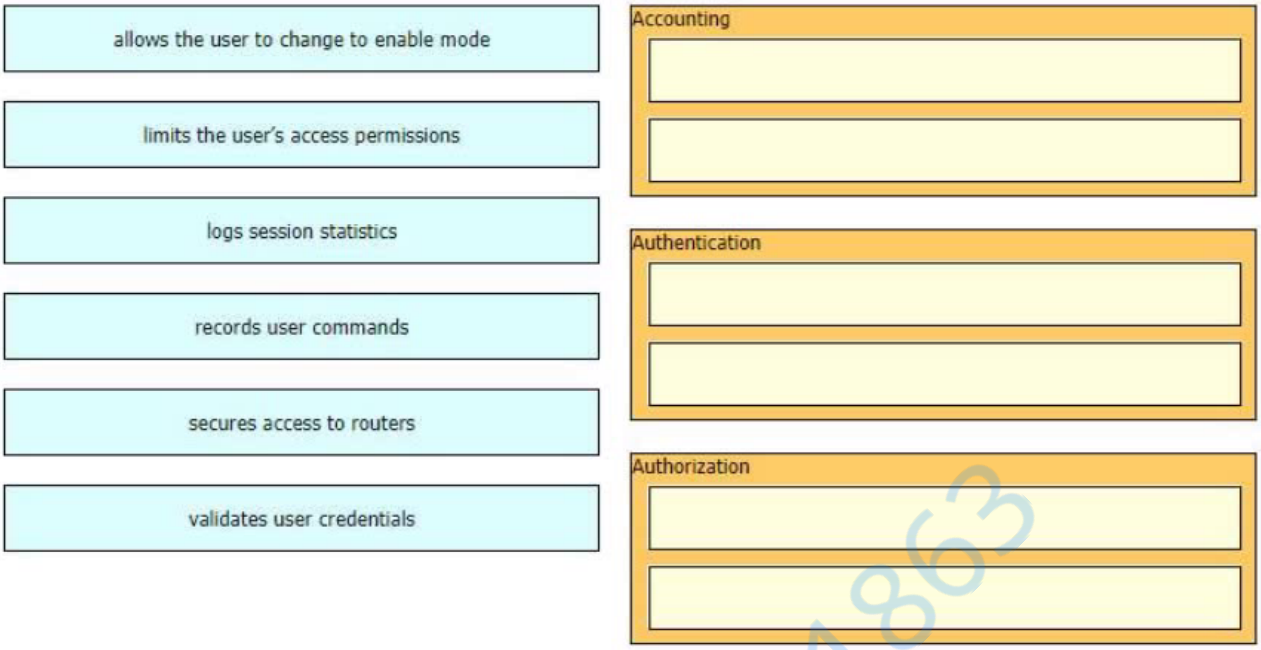
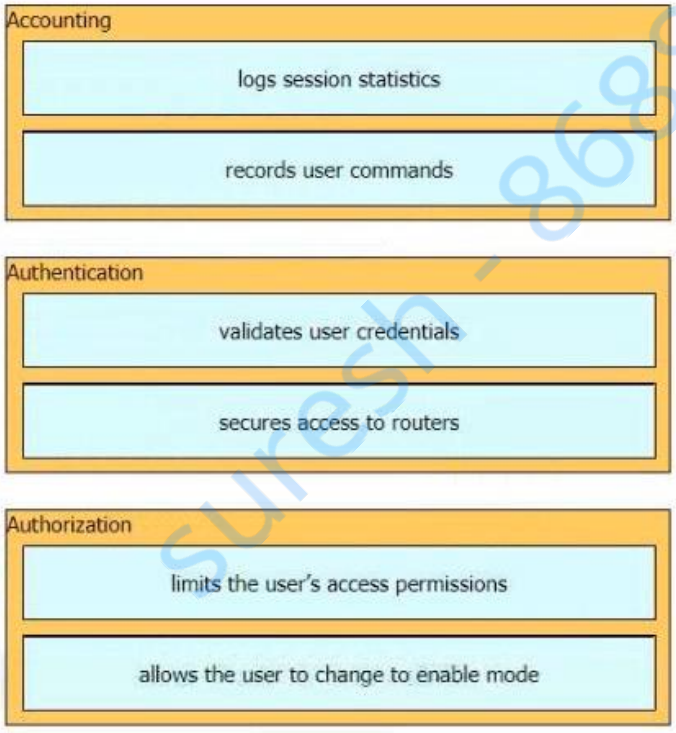


ANSWER:



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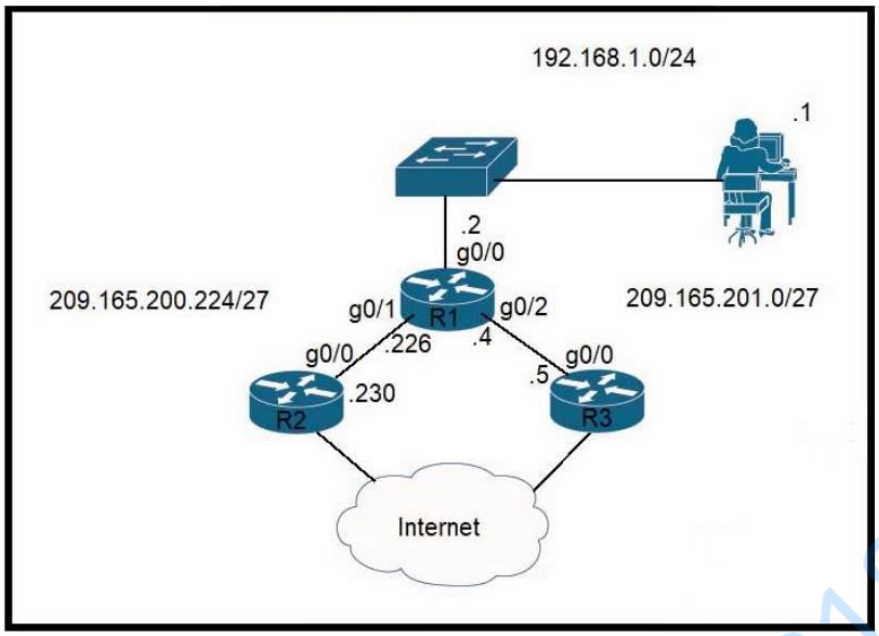
Q117.



Refer to the exhibit Router R1 currently is configured to use R3 as the primary route to the Internet, and the route uses the default administrative distance settings. A network engineer must configure R1 so that it uses R2 as a backup, but only if R3 goes down Which command must the engineer configure on R1 so that it correctly uses R2 as a backup route, without changing the administrative distance configuration on the link to R3?

A. ip route 0.0.0.0 0.0.0.0 209.165.201.5 10
B. ip route 0.0.0.0 0.0.0.0 g0/1 1
C. ip route 0.0.0.0 0.0.0.0 209.165.200.226 1
D. ip route 0.0.0.0 0.0.0.0 g0/1 6

Q118.

```
R1# show ip route

D       192.168.10.0/24   [90/2679326]   via 192.168.1.1
R       192.168.10.0/27   [120/3]    via 192.168.1.2
O       192.168.10.0/23   [110/2]    via 192.168.1.3
i  L1   192.168.10.0/13   [115/30]    via 192.168.1.4
```

Refer to the exhibit How does router R1 handle traffic to 192.168 10 16?

A. It selects the EIGRP route because it has the lowest administrative distance

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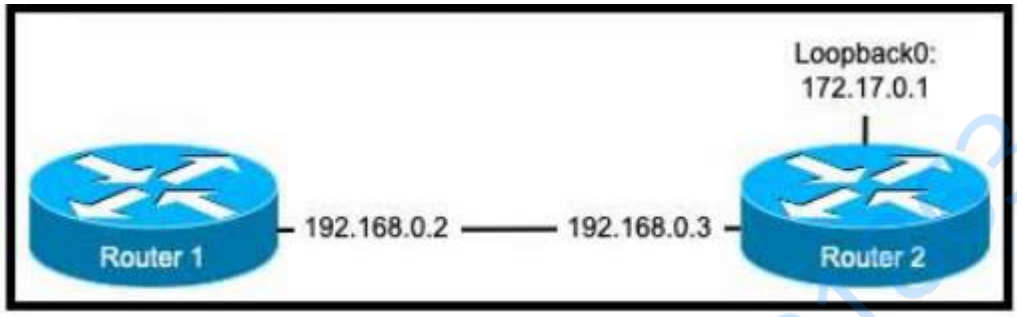
B. It selects the IS-IS route because it has the shortest prefix inclusive of the destination address
C. It selects the OSPF route because it has the lowest cost
D. It selects the RIP route because it has the longest prefix inclusive of the destination address.

Q119.

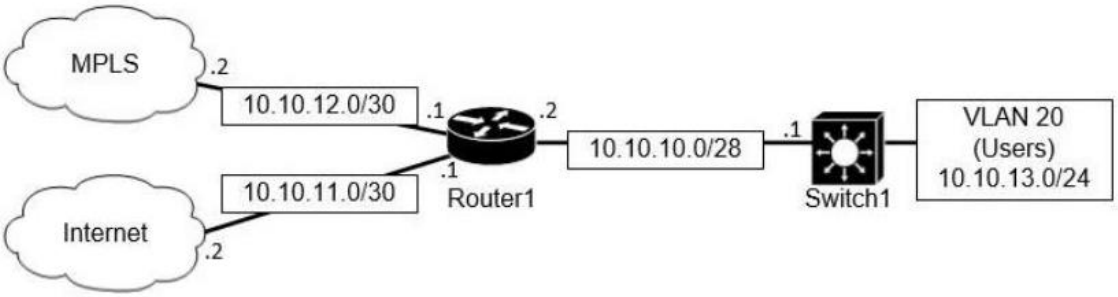


Refer to the exhibit The ntp server 192.168.0.3 command has been configured on router 1 to make it an NTP client of router 2. Which command must be configured on router 2 so that it operates in server-only mode and relies only on its internal clock?
A. Router2(config)#ntp server 172.17.0.1
B. Router2(config)#ntp server 192.168.0.2
C. Router2(config)#ntp master 4
D. Router2 (config)#ntp passive

Q120.

How do servers connect to the network in a virtual environment?
A. a software switch on a hypervisor that is physically connected to the network
B. a virtual switch that links to an access point that is physically connected to the network
C. wireless to an access point that is physically connected to the network
D. a cable connected to a physical switch on the network

Q121.




```
Router1#show ip route
Gateway of last resort is 10.10.11.2 to network 0.0.0.0
     209.165.200.0/27 is subnetted, 1 subnets
B       209.165.200.224 [20/0] via 10.10.12.2, 00:09:57
     10.0.0.0/8 is variably subnetted, 4 subnets, 3 masks
C       10.10.10.0/28 is directly connected, GigabitEthernet0/0
C       10.10.11.0/30 is directly connected, FastEthernet2/0
O       10.10.13.0/24 [110/2] via 10.10.10.1, 00:08:34, GigabitEthernet0/0
C       10.10.12.0/30 is directly connected, GigabitEthernet0/1
S*   0.0.0.0/0 [1/0] via 10.10.11.2

Switch1#show ip route
Gateway of last resort is not set
     10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C       10.10.10.0/28 is directly connected, FastEthernet0/1
C       10.10.13.0/24 is directly connected, VLAN20
```

Refer to the exhibit Which path is used by the router for Internet traffic?

A. 10.10 13.0/24
B. 209.165 200.0/27
C. 10.0.0.0/0
D. 10.10.10.0/28

Q122.

Which output displays a JSON data representation?

A.

```
{
 "response", {
  "taskId", {};
  "url", "string"
 };
 "version", "string"
}
```

B.

```
{
 "response": {
  "taskId": {},
  "url": "string"
 },
 "version": "string"
}
```

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C.

```
{
  "response": {
    "taskId": {};
    "url": "string"
  };
  "version": "string"
}
```

D.

```
{
  "response"- {
    "taskId"- {},
    "url"- "string"
  },
  "version"- "string"
}
```

Q123.

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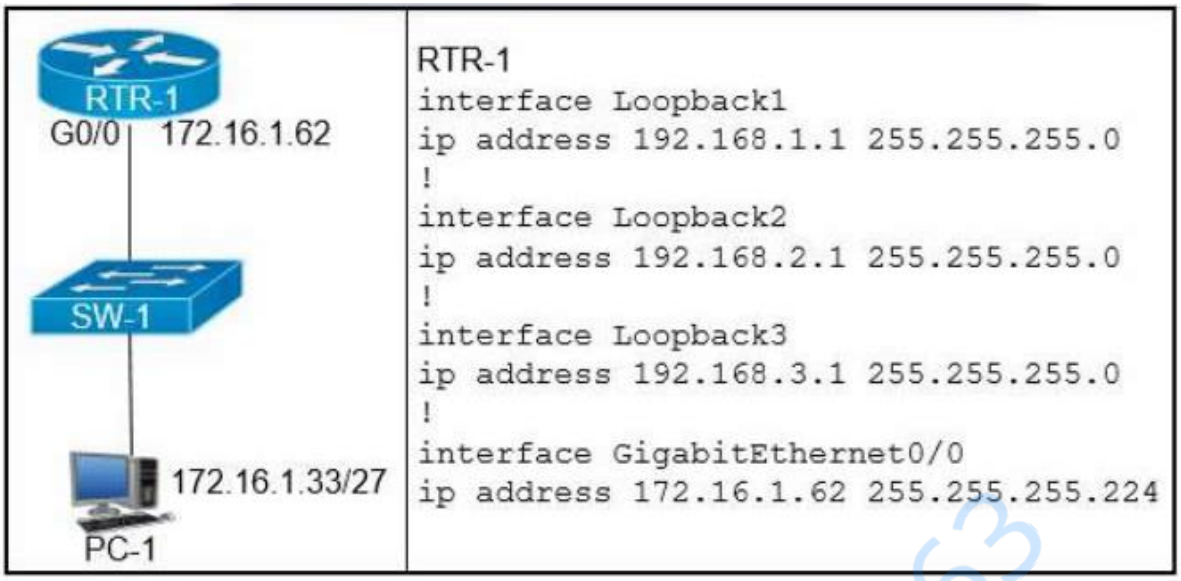

Refer to the exhibit Which configuration for RTR-1 denies SSH access from PC-1 to any RTR-1 interface and allows all other traffic?

A.
```
access-list 100 deny tcp host 172.16.1.33 any eq 22
access-list 100 permit ip any any

interface GigabitEthernet0/0
 ip access-group 100 in
```

B.
```
access-list 100 deny tcp host 172.16.1.33 any eq 22
access-list 100 permit ip any any

line vty 0 15
 access-class 100 in
```

C.
```
access-list 100 deny tcp host 172.16.1.33 any eq 23
access-list 100 permit ip any any

interface GigabitEthernet0/0
 ip access-group 100 in
```

D.
```
access-list 100 deny tcp host 172.16.1.33 any eq 23
access-list 100 permit ip any any

line vty 0 15
 access-class 100 in
```

Q124.

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After installing a new Cisco ISE server which task must the engineer perform on the Cisco WLC to connect wireless clients on a specific VLAN based on their credentials?

A. Disable the LAG Mode on Next Reboot.
B. Enable the Event Driven RRM.
C. Enable the Allow AAA Override.
D. Enable the Authorize MIC APs against auth-list or AAA

Q125.

Which condition must be met before an NMS handles an SNMP trap from an agent?

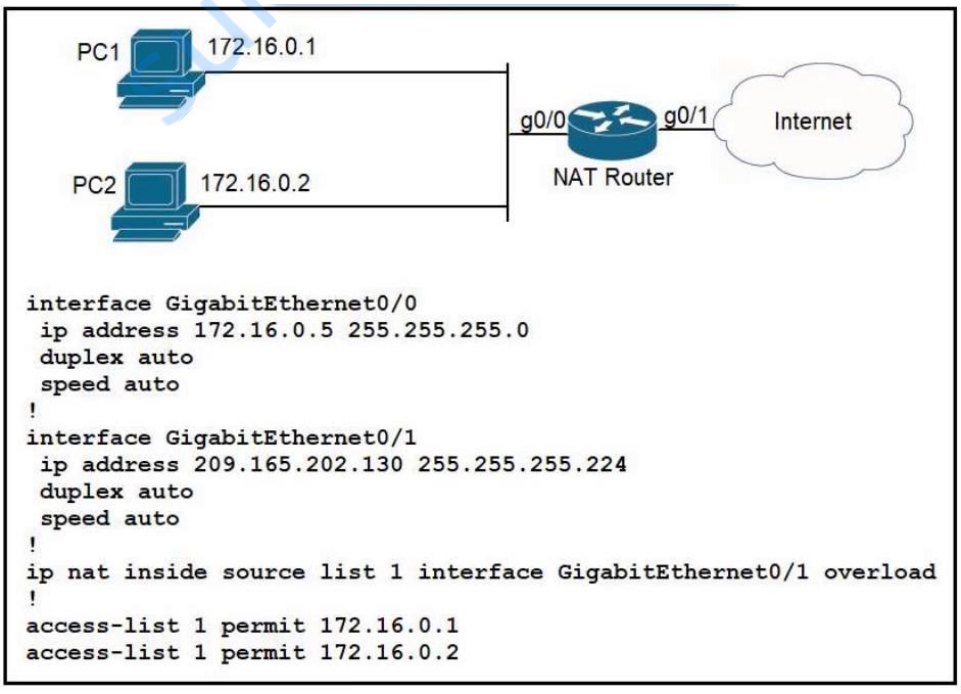
A. The NMS must receive a trap and an inform message from the SNMP agent within a configured interval.
B. The NMS must be configured on the same router as the SNMP agent
C. The NMS software must be loaded with the MIB associated with the trap.
D. The NMS must receive the same trap from two different SNMP agents to verify that it is reliable.

Q126.

Which two encoding methods are supported by REST APIs? (Choose two.)

A. JSON
B. YAML
C. XML
D. EBCDIC
E. SGML

Q127.



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Refer to the exhibit How should the configuration be updated to allow PC1 and PC2 access to the Internet*?

A. Modify the configured number of the second access list
B. Change the ip nat inside source command to use interface GigabitEthernet0/0
C. Remove the overload keyword from the ip nat inside source command
D. Add either the ip nat {inside|outside} command under both interfaces

Q128.

What is a difference between local AP mode and FlexConnect AP mode?
A. FlexConnect AP mode bridges the traffic from the AP to the WLC when local switching is configured.
B. Local AP mode causes the AP to behave as if it were an autonomous AP
C. FlexConnect AP mode fails to function if the AP loses connectivity with the WLC
D. Local AP mode creates two CAPWAP tunnels per AP to the WLC.

Q129.

```
Cat9300# show cdp
Global CDP information:
    Sending CDP packets every 60 seconds
    Sending a holdtime value of 180 seconds
    Sending CDPv2 advertisements is enabled
```

Refer to the exhibit Which action must be taken so that neighboring devices rapidly discover switch Cat9300?
A. Enable portfast on the ports that connect to neighboring devices.
B. Configure the cdp timer 10 command on switch Cat9300.
C. Configure the cdp holdtime 10 command on switch Cat9300
D. Configure the cdp timer 10 command on the neighbors of switch Cat9300

Q130.

What is a requirement when configuring or removing LAG on a WLC?
A. The incoming and outgoing ports for traffic flow must be specified if LAG is enabled.
B. The management interface must be reassigned if LAG is disabled
C. The controller must be rebooted after enabling or reconfiguring LAG
D. Multiple untagged interfaces on the same port must be supported

Q131.

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What is a function of an endpoint on a network?

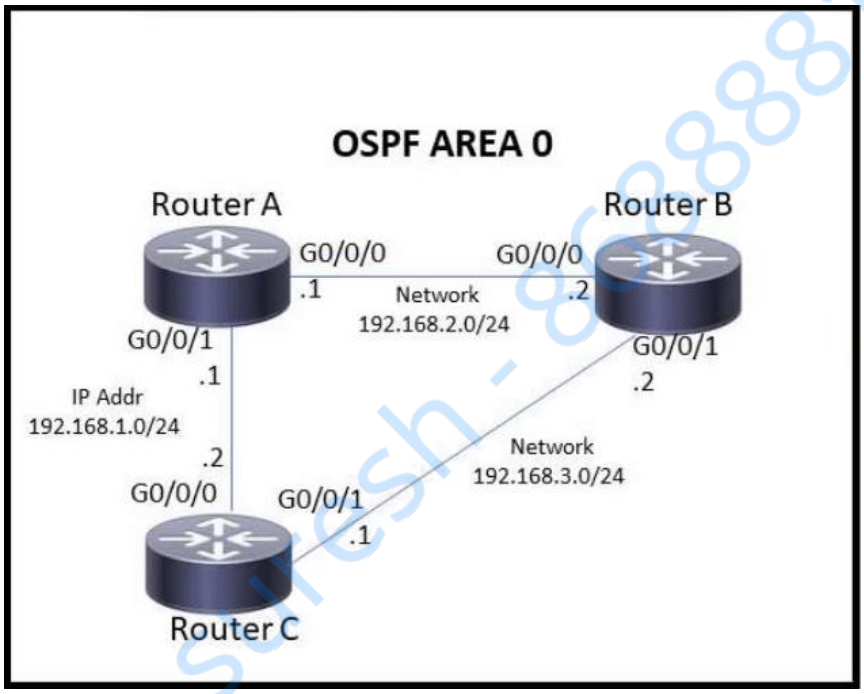
A. provides wireless services to users in a building
B. connects server and client devices to a network
C. allows users to record data and transmit to a file server
D. forwards traffic between VLANs on a network

Q132.

Which protocol is used for secure remote CLI access?

A. HTTP
B. Telnet
C. SSH
D. HTTPS

Q133.



Refer to the exhibit Which action must be taken to ensure that router A is elected as the DR for OSPF area 0?

A. Configure the router A interfaces with the highest OSPF priority value within the area
B. Configure router B and router C as OSPF neighbors of router A
C. Configure the OSPF priority on router A with the lowest value between the three routers.
D. Configure router A with a fixed OSPF router ID

Q134.

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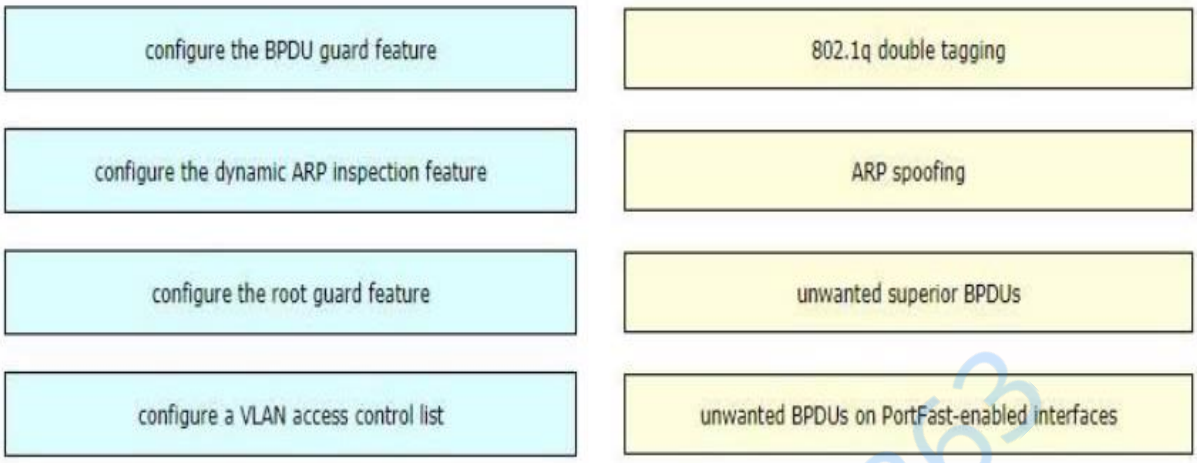
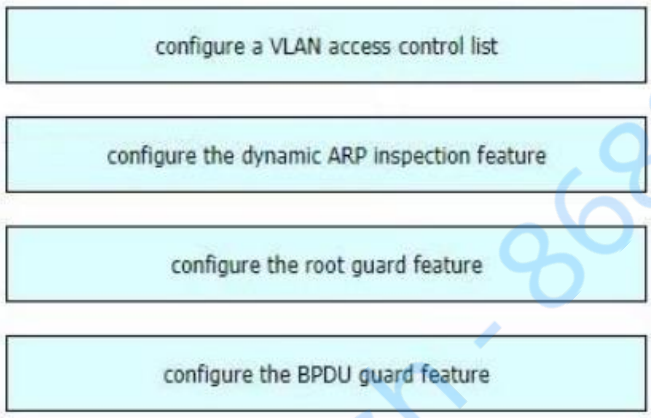
Drag and drop the threat-mitigation techniques from the left onto the types of threat or attack they mitigate on the right



ANSWER:



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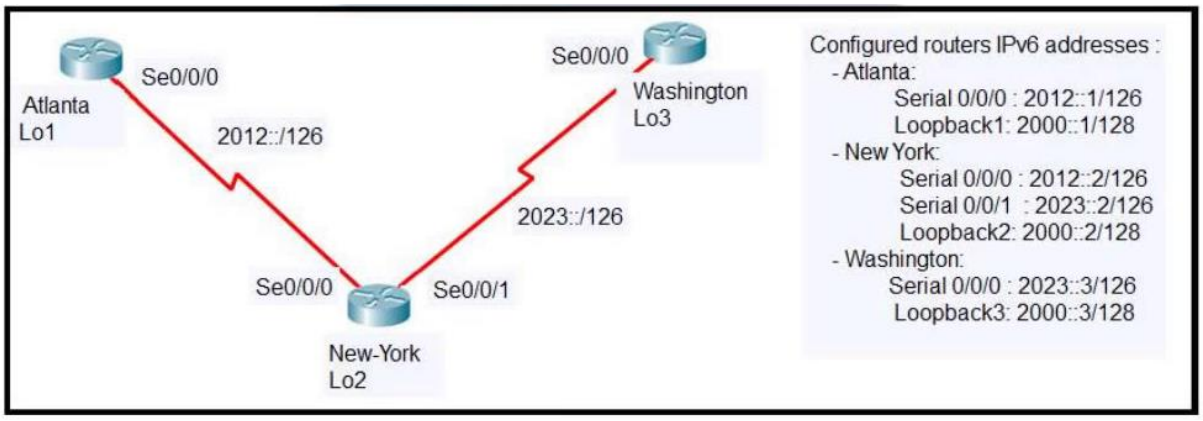
Q135.

What is the function of a controller in controller-based networking?

A. It serves as the centralized management point of an SDN architecture
B. It is a pair of core routers that maintain all routing decisions for a campus
C. It centralizes the data plane for the network.
D. It is the card on a core router that maintains all routing decisions for a campus.

Q136.



Refer to the exhibit. The New York router is configured with static routes pointing to the Atlanta and Washington sites. Which two tasks must be performed so that the Se0/0/0 interfaces on the Atlanta and Washington routers reach one another? (Choose two.)

A. Configure the ipv6 route 2023::/126 2012::2 command on the Atlanta router
B. Configure the ipv6 route 2012: 7126 s0/0/0 command on the Atlanta router
C. Configure the ipv6 route 2012:7126 2023: :1 command on the Washington router
D. Configure the ipv6 route 2023:7126 2012::1 command on the Atlanta router.
E. Configure the ipv6 route 2012:7126 2023::2 command on the Washington router.

Q137.

```
EIGRP   10.10.10.0/24[90/1441]    via   F0/10
EIGRP   10.10.10.0/24[90/144]     via   F0/11
EIGRP   10.10.10.0/24[90/1441]    via   F0/12
OSPF    10.10.10.0/24[110/20]     via   F0/13
OSPF    10.10.10.0/24[110/30]     via   F0/14
```

Refer to the exhibit. Packets received by the router from BGP enter via a serial interface at 209.165.201.10. Each route is present within the routing table. Which interface is used to forward traffic with a destination IP of 10.10 10 24?

A. F0/10
B. F0/11
C. F0/12
D. F0/1

Q138.

Which IPv6 address block sends packets to a group address rather than a single address'?

A. 2000:/3
B. FC00:/7
C. FE80:/10
D. FF00:/8

Q139.

After a recent security breach and a RADIUS failure, an engineer must secure the console port of each enterprise router with a local username and password. Which configuration must the engineer apply to accomplish this task?

A.
```
aaa new-model
line con 0
password plaintextpassword
privilege level 15
```

B.
```
aaa new-model
aaa authorization exec default local
aaa authentication login default radius
username localuser privilege 15 secret plaintextpassword
```

C.
```
username localuser secret plaintextpassword
line con 0
no login local
privilege level 15
```

D.
```
username localuser secret plaintextpassword
line con 0
login authentication default
privilege level 15
```

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Q140.

Which WPA3 enhancement protects against hackers viewing traffic on the Wi-Fi network?

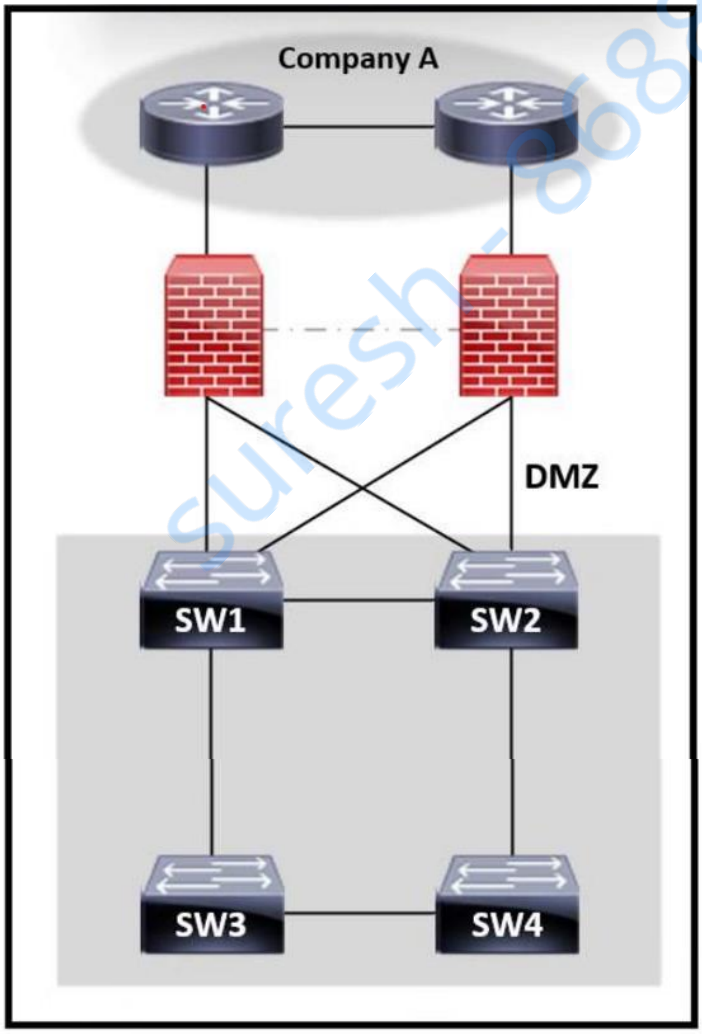
A. SAE encryption
B. scrambled encryption key
C. AES encryption
D. TKIP encryption

Q141.

What is an appropriate use for private IPv4 addressing?

A. on the public-facing interface of a firewall
B. on hosts that communicates only with other internal hosts
C. to allow hosts inside to communicate in both directions with hosts outside the organization
D. on internal hosts that stream data solely to external resources

Q142.



ot of a spanning tree for VLAN 10 if speed?

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SW1: VLAN 10 - 32778 0018.1843.3cb0
SW2: VLAN 10 - 24586 004a.13e9.3912
SW3: VLAN 10 - 28682 0022.55cf.cc00
SW4: VLAN 10 - 64000 0022.66ed.a29f

A. SW1
B. SW2
C. SW3
D. SW4

Q143.

An engineer must establish a trunk link between two switches. The neighboring switch is set to trunk or desirable mode. Which action should be taken

A. configure switchport mode dynamic desirable
B. configure switchport nonegotiate
C. configure switchport trunk dynamic desirable
D. configure switchport mode dynamic auto

Q144.

An engineer has configured the domain name, user name and password on the local router What is the next step to complete the configuration for a Secure Shell access RSA key"

A. crypto key generate rsa
B. crypto key import rsa pern
C. crypto key zeroize rsa
D. crypto key pubkey-chain rsa

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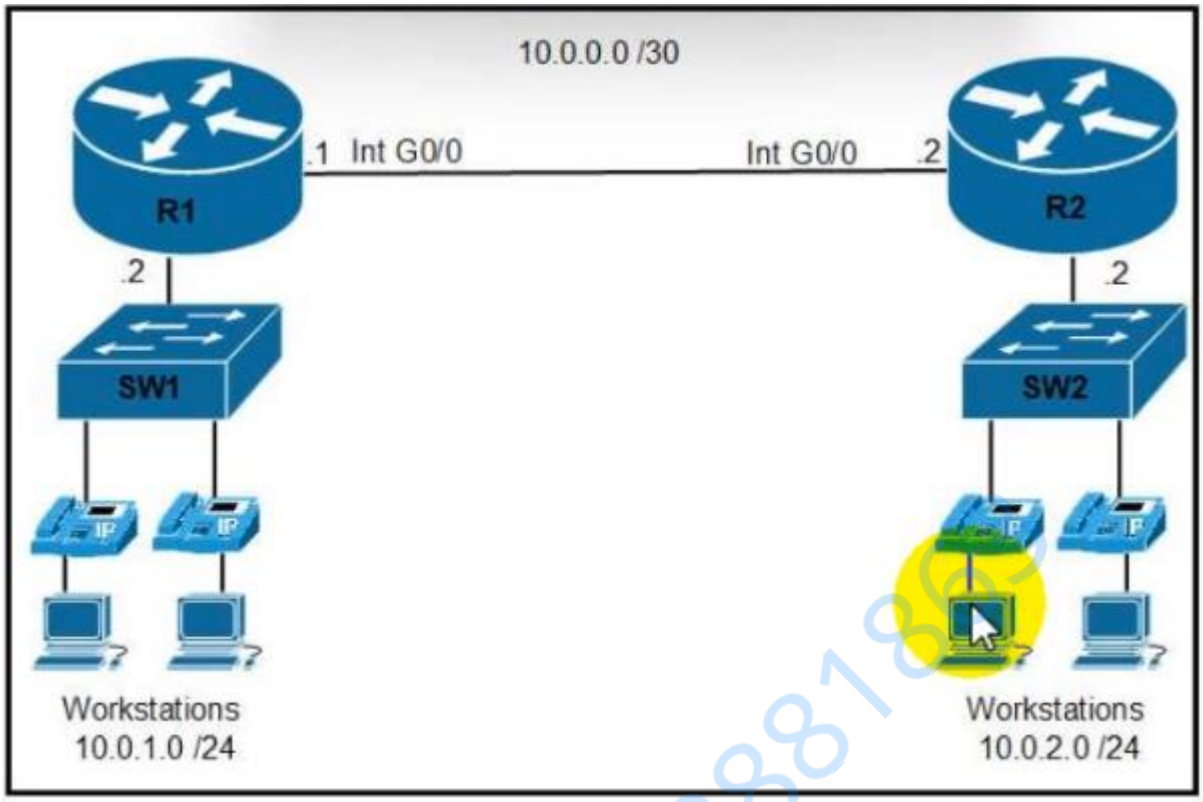
Q145.



Refer to the exhibit An engineer is asked to configure router R1 so that it forms an OSPF single-area neighbor relationship with R2. Which command sequence must be implemented to configure the router?

A.
```
router ospf 10
  network 10.0.0.0 0.0.0.3 area 0
  network 10.0.2.0 0.0.0.255 area 0
```

B.
```
router ospf 10
  network 10.0.0.0 0.0.0.3 area 0
  network 10.0.1.0 0.0.0.255 area 0
```

C.
```
router ospf 100
  network 10.0.0.0 0.0.0.3 area 0
  network 10.0.2.0 255.255.255.0 area 0
```

D.
```
router ospf 100
  network 10.0.0.0 0.0.0.252 area 0
  network 10.0.1.0 0.0.0.255 area 0
```

Q146.

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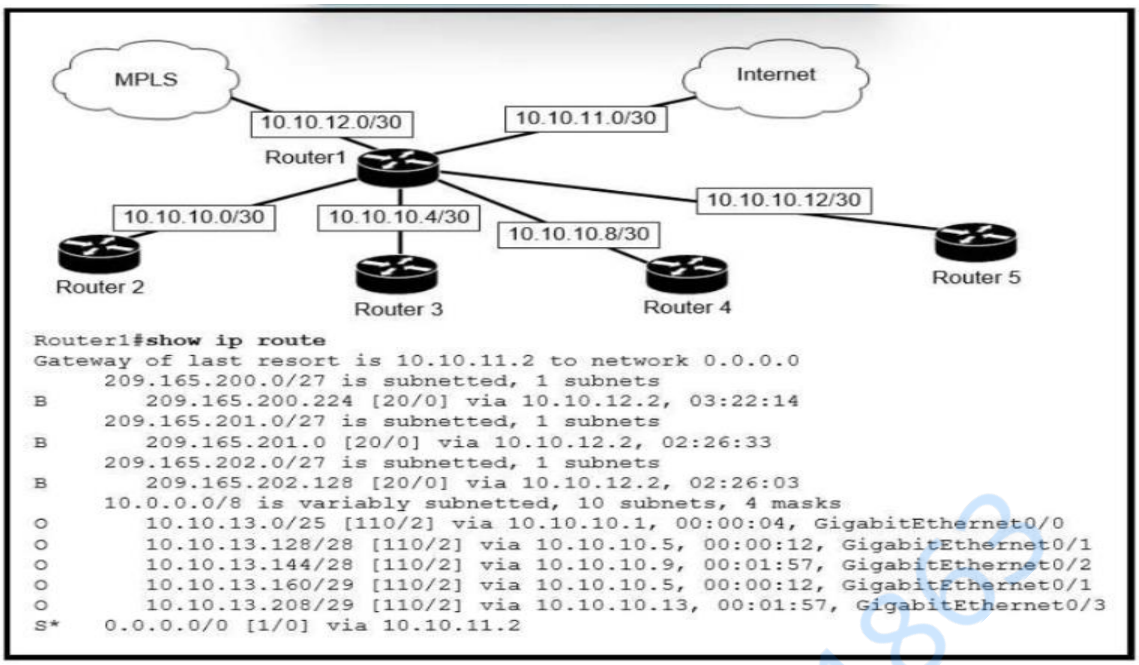
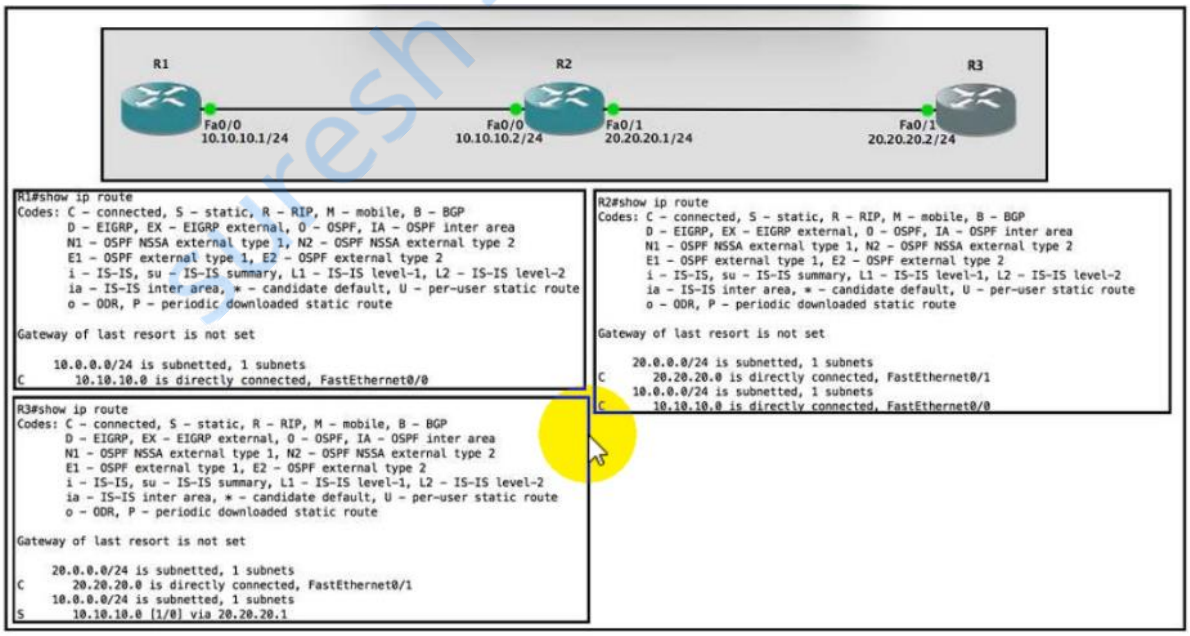



```
Router1#show ip route
Gateway of last resort is 10.10.11.2 to network 0.0.0.0
      209.165.200.0/27 is subnetted, 1 subnets
B        209.165.200.224 [20/0] via 10.10.12.2, 03:22:14
      209.165.201.0/27 is subnetted, 1 subnets
B        209.165.201.0 [20/0] via 10.10.12.2, 02:26:33
      209.165.202.0/27 is subnetted, 1 subnets
B        209.165.202.128 [20/0] via 10.10.12.2, 02:26:03
      10.0.0.0/8 is variably subnetted, 10 subnets, 4 masks
O        10.10.13.0/25 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O        10.10.13.128/28 [110/2] via 10.10.10.5, 00:00:12, GigabitEthernet0/1
O        10.10.13.144/28 [110/2] via 10.10.10.9, 00:01:57, GigabitEthernet0/2
O        10.10.13.160/29 [110/2] via 10.10.10.5, 00:00:12, GigabitEthernet0/1
O        10.10.13.208/29 [110/2] via 10.10.10.13, 00:01:57, GigabitEthernet0/3
S*    0.0.0.0/0 [1/0] via 10.10.11.2
```

Refer to the exhibit To which device does Router1 send packets that are destined to host 10.10 13.165?

A. Router2
B. Router3
C. Router4
D. Router5

Q147.



Refer to the exhibit Router R1 FaO/O is unable to ping router R3 FaO/1 Which action must be taken in router R1 to help resolve the configuration issue?

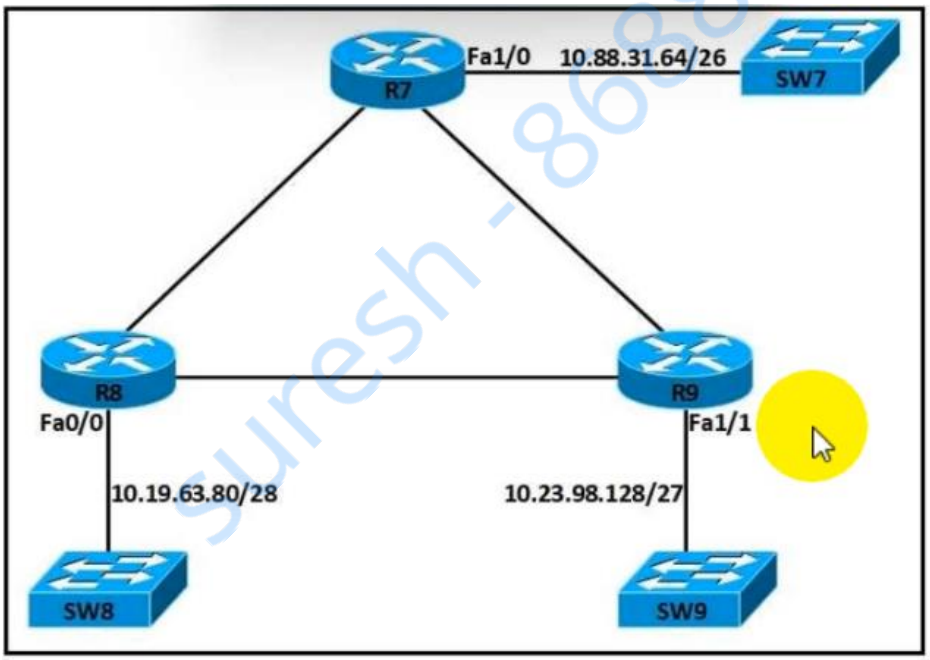
A. set the default network as 20.20.20.0/24

B. set the default gateway as 20.20 20.2
C. configure a static route with 10.10.10.2 as the next hop to reach the 20.20.20.0/24 network
D. configure a static route with Fa0/1 as the egress interface to reach the 20 20.20 0/24 network

Q148.

What are two functions of a server on a network? (Choose two)
A. runs applications that send and retrieve data for workstations that make requests
B. handles requests from multiple workstations at the same time
C. runs the same operating system in order to communicate with other servers
D. housed solely in a data center that is dedicated to a single client achieves redundancy by exclusively using virtual server clustering

Q149.



Refer to the exhibit Each router must be configured with the last usable IP address in the subnet. Which configuration fulfills this requirement?

A.

```
R7#
interface FastEthernet1/0
ip address 10.88.31.127 255.255.255.192

R8#
interface FastEthernet0/0
ip address 10.19.63.95 255.255.255.240

R9#
interface FastEthernet1/1
ip address 10.23.98.159 255.255.255.224
```

B.

```
R7#
interface FastEthernet1/0
ip address 10.88.31.126 255.255.255.240

R8#
interface FastEthernet0/0
ip address 10.19.63.94 255.255.255.192

R9#
interface FastEthernet1/1
ip address 10.23.98.158 255.255.255.248
```

C.

```
R7#
interface FastEthernet1/0
ip address 10.88.31.127 255.255.255.240

R8#
interface FastEthernet0/0
ip address 10.19.63.95 255.255.255.192

R9#
interface FastEthernet1/1
ip address 10.23.98.159 255.255.255.248
```

D.

```
R7#
interface FastEthernet1/0
ip address 10.88.31.126 255.255.255.192

R8#
interface FastEthernet0/0
ip address 10.19.63.94 255.255.255.240

R9#
interface FastEthernet1/1
ip address 10.23.98.158 255.255.255.224
```

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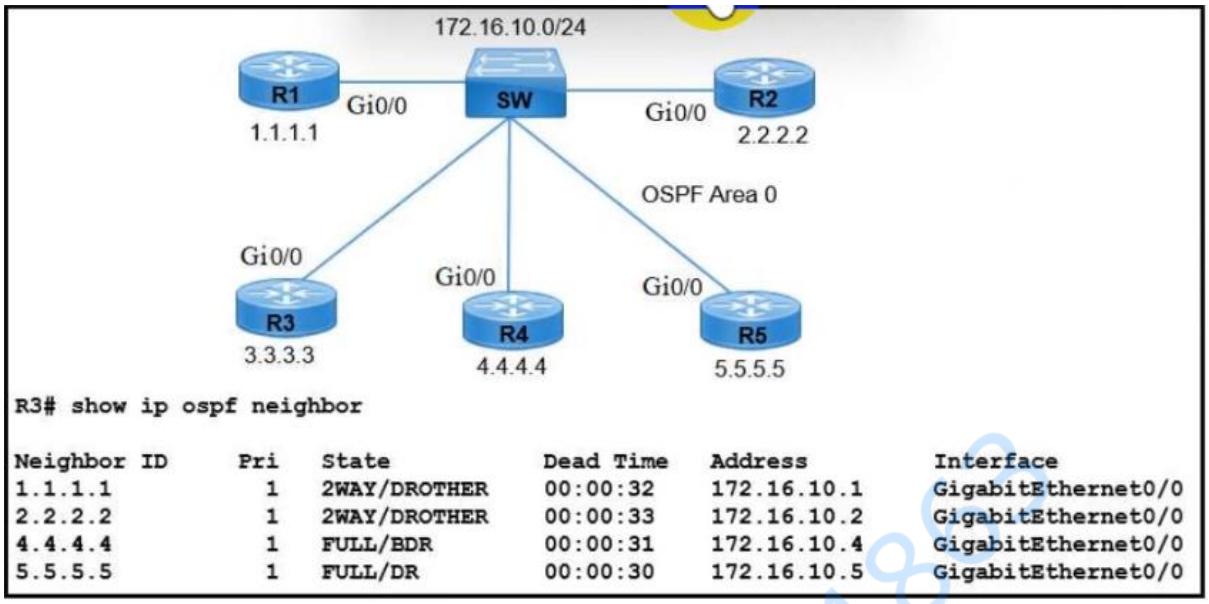
Q150.




```
R3# show ip ospf neighbor

Neighbor ID     Pri   State           Dead Time   Address         Interface
1.1.1.1           1   2WAY/DROTHER    00:00:32    172.16.10.1     GigabitEthernet0/0
2.2.2.2           1   2WAY/DROTHER    00:00:33    172.16.10.2     GigabitEthernet0/0
4.4.4.4           1   FULL/BDR        00:00:31    172.16.10.4     GigabitEthernet0/0
5.5.5.5           1   FULL/DR         00:00:30    172.16.10.5     GigabitEthernet0/0
```

Refer to the exhibit R5 is the current DR on the network, and R4 is the BDR. Their interfaces are flapping, so a network engineer wants the OSPF network to elect a different DR and BDR Which set of configurations must the engineer implement?

A.
```
R3(config)#interface gi0/0
R3(config-if)#ip ospf priority 255

R2(config)#interface gi0/0
R2(config-if)#ip ospf priority 240
```

B.
```
R5(config)#interface gi0/0
R5(config-if)#ip ospf priority 120

R4(config)#interface gi0/0
R4(config-if)#ip ospf priority 110
```

C.
```
R2(config)#interface gi0/0
R2(config-if)#ip ospf priority 259

R3(config)#interface gi0/0
R3(config-if)#ip ospf priority 256
```

D.
```
R4(config)#interface gi0/0
R4(config-if)#ip ospf priority 20

R5(config)#interface gi0/0
R5(config-if)#ip ospf priority 10
```

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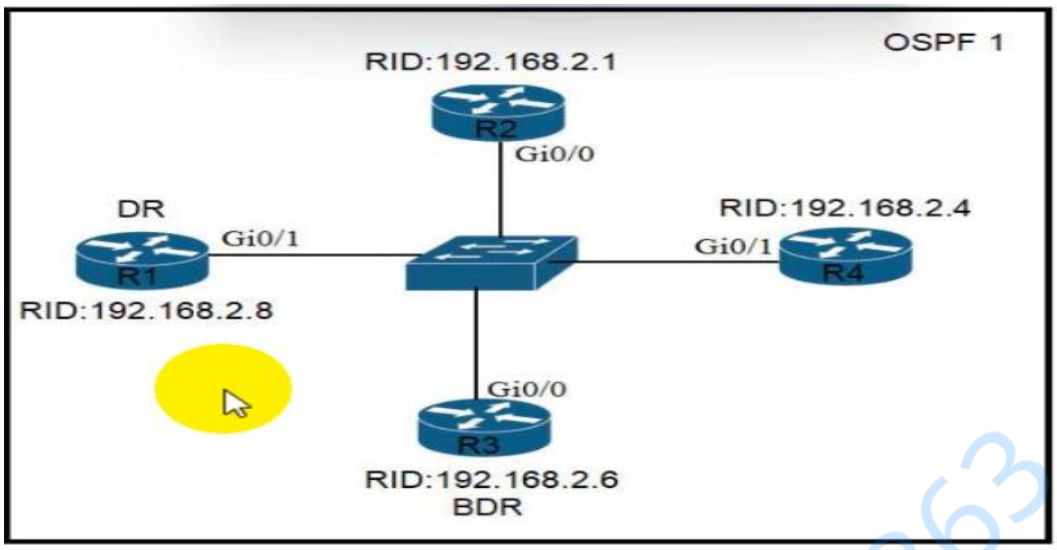
Q151.



Refer to the exhibit All routers in the network are configured. R2 must be the DR. After the engineer connected the devices, R1 was elected as the DR. Which command sequence must be configured on R2 to be elected as the DR in the network?

A.
```
R2(config)#interface gi0/0
R2(config-if)#ip ospf priority 100
```

B.
```
R2(config)#router ospf 1
R2(config-router)#router-id 192.168.2.7
```

C.
```
R2(config)#router ospf 1
R2(config-router)#router-id 10.100.100.100
```

D.
```
R2(config)#interface gi0/0
R2(config-if)#ip ospf priority 1
```

Q152.

```
R1#show ip interface brief
Interface                  IP-Address      OK? Method Status                Protocol
FastEthernet0/0            unassigned      YES NVRAM  administratively down down
GigabitEthernet1/0         192.168.0.1     YES NVRAM  up                    up
GigabitEthernet2/0         10.10.1.10      YES manual up                    up
GigabitEthernet3/0         10.10.10.20     YES manual up                    up
GigabitEthernet4/0         unassigned      YES NVRAM  administratively down down
Loopback0                  172.16.15.10    YES manual
```

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Refer to the exhibit What does router R1 use as its OSPF router-ID?
A.10.10.1 10
B.10 10.10 20
C.172.16.15 10
D.192 168 0 1

Q153.

Which type of port is used to connect to the wired network when an autonomous AP maps two VLANs to its WLANs"
A. access
B. LAG
C. trunk
D. EtherChannel

Q154.

What occurs when PortFast is enabled on an interface that is connected to another switch"
A. Spanning-tree fails to detect a switching loop increasing the likelihood of broadcast storms
B. VTP is allowed to propagate VLAN configuration information from switch to switch automatically
C. After spanning-tree converges, PortFast shuts down any port that receives BPDUs.
D. Root port choice and spanning-tree recalculation are accelerated when a switch link goes down

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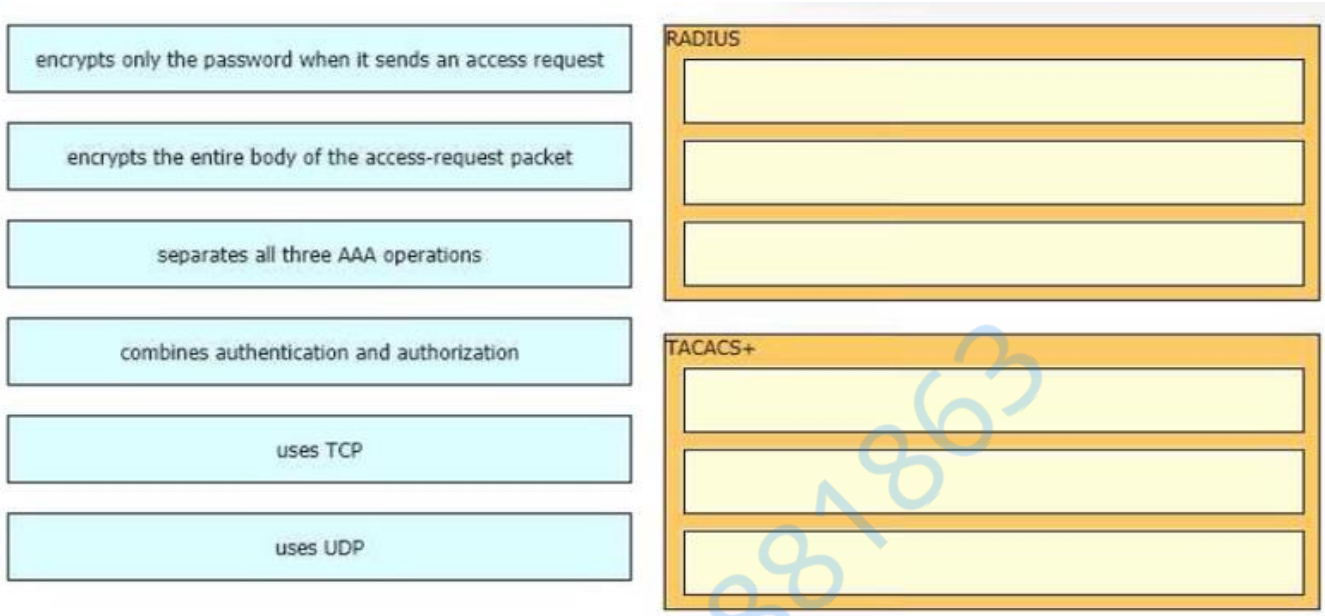
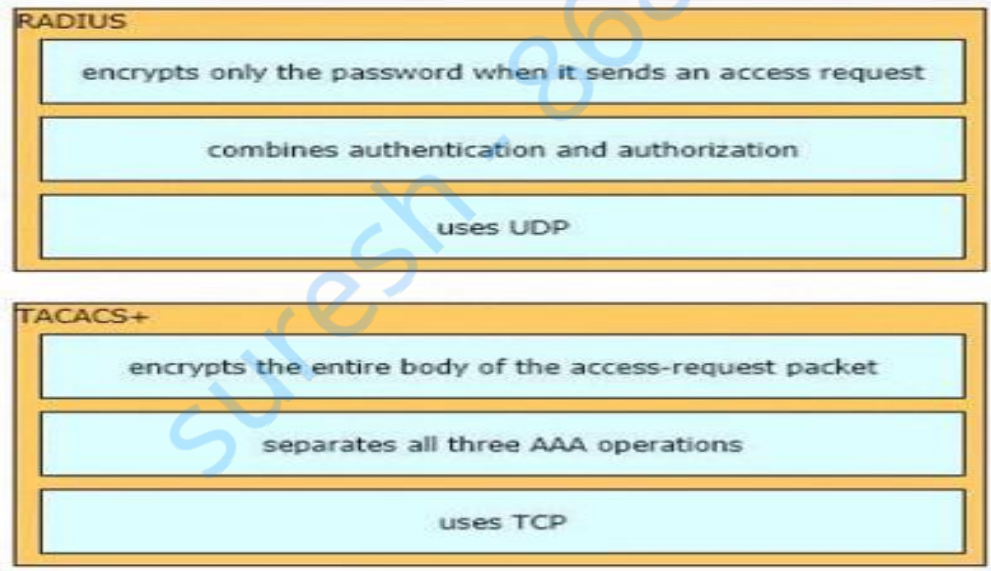
Q155.

Drag and drop the functions of AAA supporting protocols from the left onto the protocols on the right



ANSWER:



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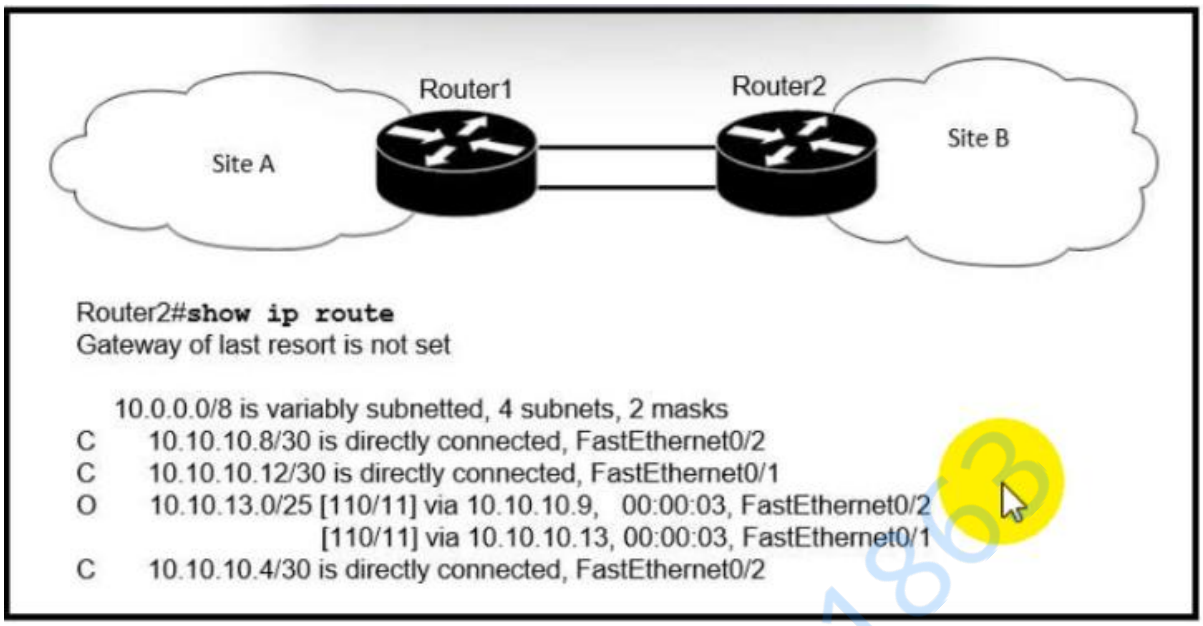
Q156.



Refer to the exhibit If OSPF is running on this network, how does Router2 handle traffic from Site 8 to 10.10.13.128/25 at Site A?

A. It sends packets out of interface Fa0/1
B. It is unreachable and discards the traffic.
C. It load-balances traffic out of Fa0/1 and Fa0/2.
D. It sends packets out of interface Fa0/2.

Q157.

Which set of 2 4 GHz nonoverlapping wireless channels is standard in the United States?

A. channels 1,6, 11, and 14
B. channels 2, 7, 9, and 11
C. channels 2, 7, and 11
D. channels 1,6, and 11

Q158.

Which IPv6 address type provides communication between subnets and is unable to route on the Internet"'

A. unique local
B. link-local
C. global unicast
D. multicast

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Q159.

```
R1# show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set
       10.0.0.0/24 is subnetted, 5 subnets
D      10.1.2.0/24 [90/2170112] via 10.165.20.226, 00:01:30, Serial0/0
D      10.1.3.0/24 [90/2170112] via 10.165.20.226, 00:01:30, Serial0/0
D      10.1.2.0/25 [90/2170112] via 10.165.20.126, 00:01:30, Serial0/0
D      10.1.3.0/25 [90/2170112] via 10.165.20.146, 00:01:30, Serial0/0
D      10.1.4.0/25 [90/2170112] via 10.165.20.156, 00:01:30, Serial0/0
       192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks
C      192.18.10.0/24 is directly connected, GigabitEthernet0/0
       192.168.21.0/24 is variably subnetted, 2 subnets, 2 masks
C      192.168.11.0/24 is directly connected, GigabitEthernet0/1
      10.165.20.0/24 is variably subnetted, 2 subnets, 2 masks
C     10.165.20.224/24 is directly connected, Serial0/0
S      10.1.2.112/28 [1/0] via 10.165.20.166
```

Refer to the exhibit What is the next hop for traffic entering R1 with a destination of 10.1.2 126?

A. 10.165.20126
B. 10 165.20 146
C. 10.165.20.166.
D. 10 165.20 226

Q160.

Which JSON data type is an unordered set of attribute-value pairs?

A. array
B. Boolean
C. string
D. object

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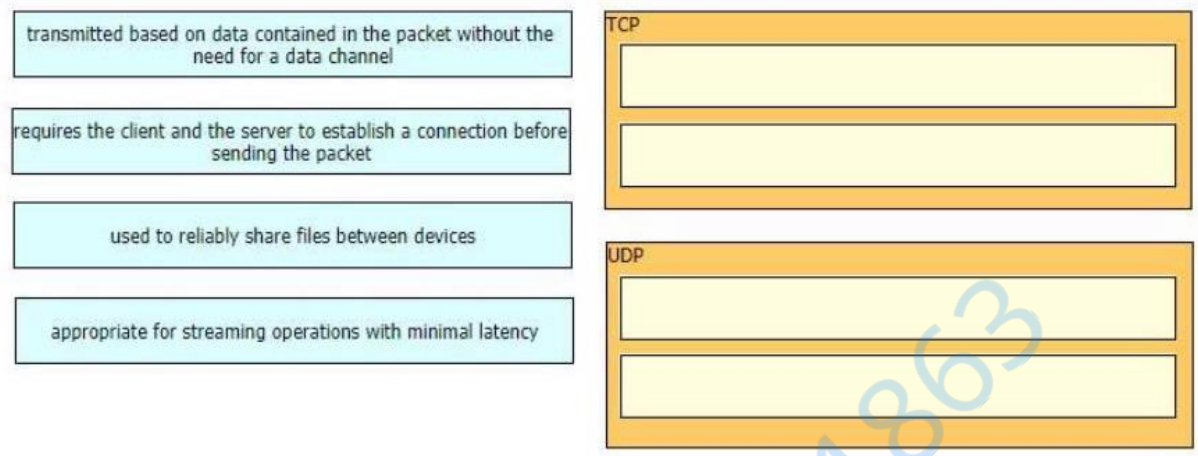
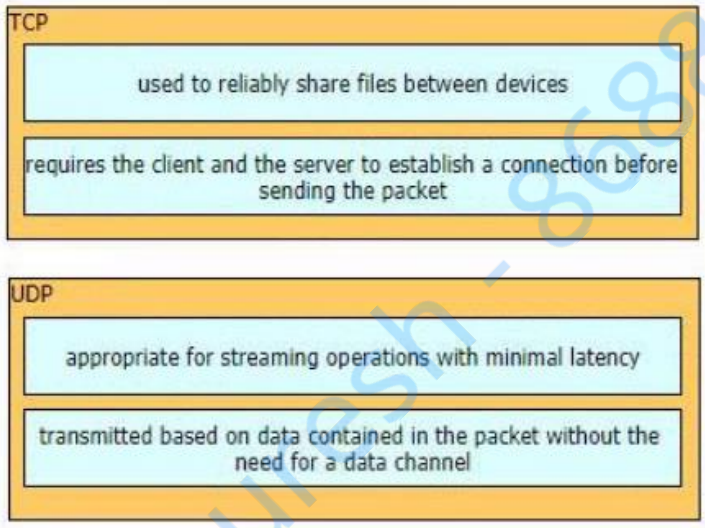
Q161.

Drag and drop the TCP or UDP details from the left onto their corresponding protocols on the right



ANSWER:



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Q162.

What is a characteristic of spine-and-leaf architecture?

A. Each link between leaf switches allows for higher bandwidth
B. It provides greater predictability on STP blocked ports
C. Each device is separated by the same number of hops
D. It provides variable latency.

Q163.

What are two differences between optical-fiber cabling and copper cabling[7]? (Choose two.)

A. Fiber connects to physical interfaces using RJ-45 connections
B. The glass core component is encased in a cladding
C. A BNC connector is used for fiber connections
D. The data can pass through the cladding.
E. Light is transmitted through the core of the fiber

Q164.

What makes Cisco DNA Center different from traditional network management applications and their management of networks?

A. It abstracts policy from the actual device configuration
B. It only supports auto-discovery of network elements in a greenfield deployment
C. Its modular design allows the implementation of different versions to meet the specific needs of an organization.
D. It omits support for high availability of management functions when operating in cluster mode.

Q165.

```
Switch2# show lldp
Global LLDP Information
    Status: ACTIVE
    LLDP advertisements are sent every 30 seconds
    LLDP hold time advertised is 120 seconds
    LLDP interface reinitialization delay is 2 seconds
```

Refer to the exhibit A network engineer must update the configuration on Switch2 so that it sends LLDP packets every minute and the information sent via LLDP is refreshed every 3 minutes. Which configuration must the engineer apply?

A.
```
Switch2(config)#lldp timer 60
Switch2(config)#lldp tlv-select 180
```

B.
```
Switch2(config)#lldp timer 1
Switch2(config)#lldp tlv-select 3
```

C.
```
Switch2(config)#lldp timer 60
Switch2(config)#lldp holdtime 180
```

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D.

```
Switch2(config)#lldp timer 1
Switch2(config)#lldp holdtime 3
```

Q166.

A network administrator needs to aggregate 4 ports into a single logical link which must negotiate layer 2 connectivity to ports on another switch What must be configured when using active mode on both sides of the connection?

A. LLDP
B. LACP
C. Cisco vPC
D. 802 1q trunks

Q167.

```
SW1(config-line)#line vty 0 15
SW1(config-line)#no login local
SW1(config-line)#password cisco

SW2(config)#username admin1 password abcd1234
SW2(config)#username admin2 password abcd1234
SW2(config-line)#line vty 0 15
SW2(config-line)#login local

SW3(config)#username admin1 secret abcd1234
SW3(config)#username admin2 secret abcd1234
SW3(config-line)#line vty 0 15
SW3(config-line)#login local

SW4(config)#username admin1 secret abcd1234
SW4(config)#username admin2 secret abcd1234
SW4(config-line)#line console 0
SW4(config-line)#login local
```

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Refer to the exhibit An administrator configures four switches for local authentication using passwords that are stored as a cryptographic hash The four switches must also support SSH access for administrators to manage the network infrastructure Which switch is configured correctly to meet these requirements'?

A. SW1
B. SW2
C. SW3
D. SW4

Q168.

An engineer must configure an OSPF neighbor relationship between router R1 and R3 The authentication configuration has been configured and the connecting interfaces are in the same 192 168.1.0/30 subnet What are the next two steps to complete the configuration? (Choose two.)

A. configure the same router ID on both routing processes
B. configure the same process ID for the router OSPF process
C. configure the hello and dead timers to match on both sides
D. configure both interfaces with the same area ID
E. configure the interfaces as OSPF active on both sides

Q169.

```
cisco_ospf_vrf {"R1 default":
    ensure => 'present',
    auto_cost => '100',
}
```

Refer to the exhibit. Which type of configuration is represented in the output?

A. JSON
B. Puppet
C. Chef
D. Ansible

Q170.

How do TCP and UDP fit into a query-response model?

A. TCP avoids using sequencing and UDP avoids using acknowledgments
B. TCP establishes a connection prior to sending data, and UDP sends immediately.
C. TCP encourages out-of-order packet delivery, and UDP prevents re-ordering.
D. TCP uses error detection for packets, and UDP uses error recovery.

Q171.

What is the purpose of the ip address dhcp command?

A. to configure an interface as a DHCP relay
B. to configure an interface as a DHCP client
C. to configure an interface as a DHCP helper
D. to configure an interface as a DHCP server

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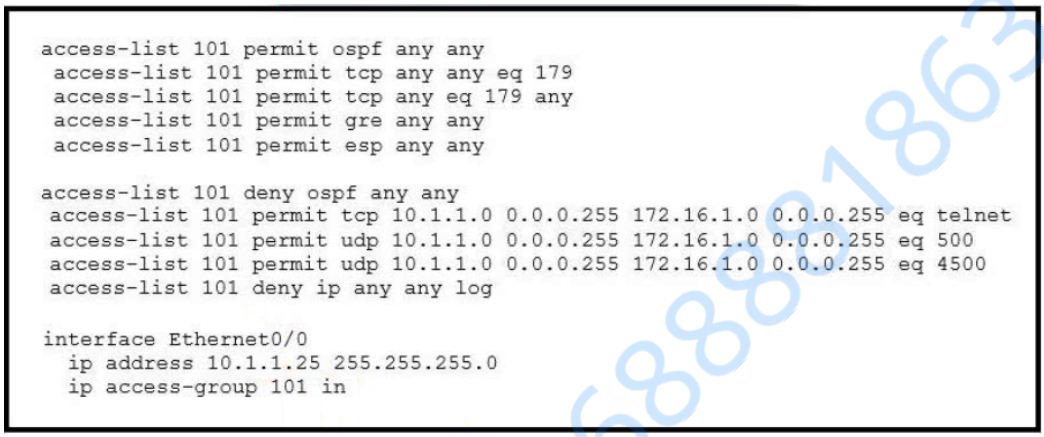
Q172.

When a WPA2-PSK WLAN is configured in the Wireless LAN Controller, what is the minimum number of characters that is required in ASCII format?

A. 06
B. 8
C. 12
D. 18

Q173.



```
access-list 101 permit ospf any any
 access-list 101 permit tcp any any eq 179
 access-list 101 permit tcp any eq 179 any
 access-list 101 permit gre any any
 access-list 101 permit esp any any

access-list 101 deny ospf any any
 access-list 101 permit tcp 10.1.1.0 0.0.0.255 172.16.1.0 0.0.0.255 eq telnet
 access-list 101 permit udp 10.1.1.0 0.0.0.255 172.16.1.0 0.0.0.255 eq 500
 access-list 101 permit udp 10.1.1.0 0.0.0.255 172.16.1.0 0.0.0.255 eq 4500
 access-list 101 deny ip any any log

interface Ethernet0/0
  ip address 10.1.1.25 255.255.255.0
  ip access-group 101 in
```

Refer to the exhibit A network administrator has been tasked with securing VTY access to a router Which access-list entry accomplishes this task?

A. access-list 101 permit tcp 10.1.1.0 0.0.0.255 172.16.1.0 0.0.0.255 eq telnet
B. access-list 101 permit tcp 10.1.1.0 0.0.0.255 172.16.1.0 0.0.0.255 eq scp
C. access-list 101 permit tcp 10.1.1.0 0.0.0.255 172.16.1.0 0.0.0.255 eq https
D. access-list 101 permit tcp 10.1.1.0 0.0.0.255 172.16.1.0 0.0.0.255 eq ssh

Q174.

What provides centralized control of authentication and roaming in an enterprise network?

A. a lightweight access point
B. a wireless LAN controller
C. a firewall
D. a LAN switch

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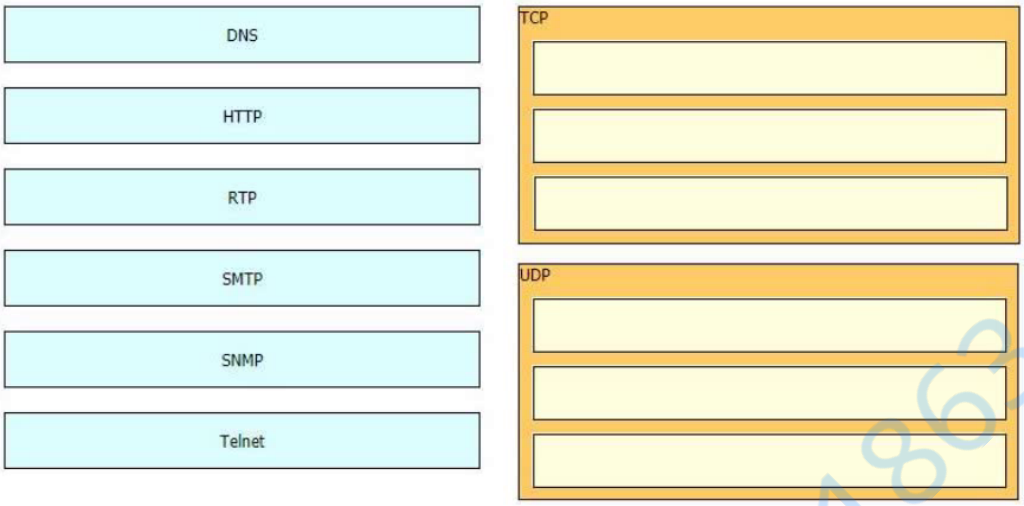
Q175.

Drag and drop the TCP/IP protocols from the left onto their primary transmission protocols on the right.



ANSWER:

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Q176.

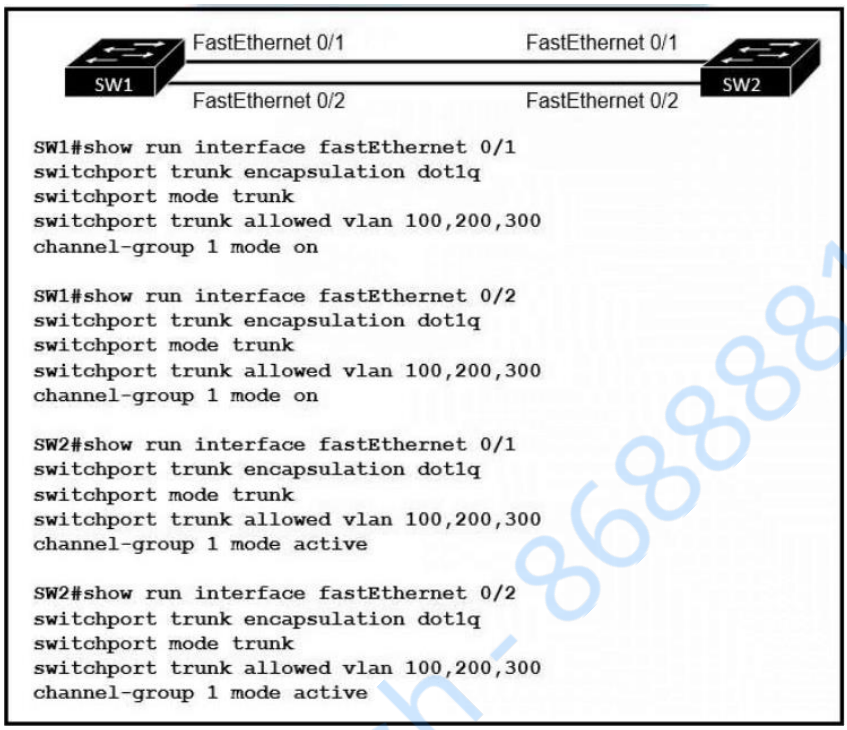
Which event has occurred if a router sends a notice level message to a syslog server?

A. An ICMP connection has been built
B. A TCP connection has been torn down
C. A certificate has expired.
D. An interface line has changed status.

Q177.

Which wireless security protocol relies on Perfect Forward Secrecy?
A. WEP
B. WPA2
C. WPA
D. WPA3

Q178.



Refer to the exhibit An engineer built a new L2 LACP EtherChannel between SW1 and SW2 and executed these show commands to verify the work establish an LACP port channel?
A. Change the channel-group mode on SW1 to desirable
B. Change the channel-group mode on SW1 to active or passive
C. Change the channel-group mode on SW2 to auto
D. Configure the interface port-channel 1 command on both switches

Q179.

Which two events occur automatically when a device is added to Cisco DNA Center? (Choose two.)
A. The device is assigned to the Local site
B. The device is placed into the Unmanaged state
C. The device is placed into the Managed state.
D. The device is placed into the Provisioned state.
E. The device is assigned to the Global site.

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Q180.

```
R1#show run
!
router ospf 1
auto-cost reference-bandwidth 100000
!
interface GigabitEthernet0/0
bandwidth 10000000
!
interface GigabitEthernet0/1
bandwidth 100000000
!
interface GigabitEthernet0/2
ip ospf cost 100
!
interface GigabitEthernet0/3
ip ospf cost 1000
end
```

Refer to the exhibit Router R1 resides in OSPF Area 0. After updating the R1 configuration to influence the paths that it will use to direct traffic, an engineer verified that each of the four Gigabit interfaces has the same route to 10 10.0.0/16. Which interface will R1 choose to send traffic to reach the route?

A. GigabitEthernet0/0
B. GigabitEthernet0/1
C. GigabitEthernet0/2
D. GigabitEthernet0/3

Q181.

A network engineer is installing an IPv6-only capable device The client has requested that the device IP address be reachable only from the internal network Which type of IPv6 address must the engineer assign?

A. IPv4-compatible IPv6 address
B. unique local address
C. link-local address
D. aggregatable global address

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Q182.

What are two recommendations for protecting network ports from being exploited when located in an office space outside of an IT closet? (Choose two)

A. implement port-based authentication
B. configure ports to a fixed speed
C. shut down unused ports
D. configure static ARP entries
E. enable the PortFast feature on ports

Q183.

```
R1# show ip route | begin gateway
Gateway of last resort is 209.165.200.254 to network 0.0.0.0
S* 0.0.0.0/0 [1/0] via 209.165.200.254, Serial0/0/1
                   is directly connected, Serial0/0/1
      172.16.0.0/16 is variably subnetted, 3 subnets, 2 masks
C     172.16.1.0/24 is directly connected, FastEthernet0/0
L     172.16.1.1/32 is directly connected, FastEthernet0/0
R     172.16.2.0/24 [120/2] via 207.165.200.250, 00:00:25, Serial0/0/0
O     192.168.1.0/24 [110/4437] via 207.165.200.254, 00:00:17, Serial0/0/1
D     192.168.2.0/24 [90/84437] via 207.165.200.254, 00:00:15, Serial0/0/1
      207.165.200.0/24 is variably subnetted, 5 subnets, 2 masks
S     207.165.200.244/30 [1/1] via 207.165.200.254, Serial0/0/1
C     207.165.200.248/30 is directly connected, Serial0/0/0
L     207.165.200.249/32 is directly connected, Serial0/0/0
C     207.165.200.252/30 is directly connected, Serial0/0/1
L     207.165.200.253/32 is directly connected, Serial0/0/1
```

Refer to the exhibit Which network prefix was learned via EIGRP?

A. 172 160.0/16
B. 207.165 200.0/24
C. 192.168.1.0/24
D. 192 168 2.0/24

Q184.

A user configured OSPF in a single area between two routers A serial interface connecting R1 and R2 is running encapsulation PPP. By default which OSPF network type is seen on this interface when the user types show ip ospf interface on R1 or R2?

A. point-to-multipoint
B. nonbroadcast
C. broadcast
D. point-to-point

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Q185.

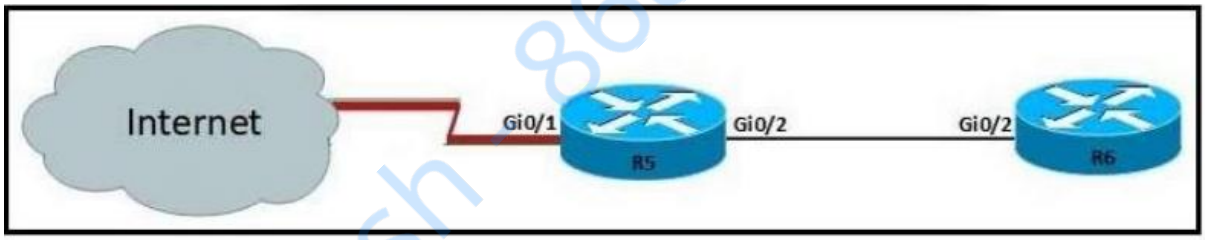
```
Gateway of last resort is 10.12.0.1 to network 0.0.0.0

O*E2    0.0.0.0/0 [110/1] via 10.12.0.1, 00:00:01, GigabitEthernet0/0
        10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C       10.0.0.0/24 is directly connected, GigabitEthernet0/0
L       10.0.0.2/32 is directly connected, GigabitEthernet0/0
C       10.13.0.0/24 is directly connected, GigabitEthernet0/1
L       10.13.0.2/32 is directly connected, GigabitEthernet0/1
```

Refer to the exhibit If configuring a static default route on the router with the ip route 0.0.0.0 0.0.0.0 10.13.0.1 120 command how does the router respond?

A. It immediately replaces the existing OSPF route in the routing table with the newly configured static route
B. It starts load-balancing traffic between the two default routes
C. It ignores the new static route until the existing OSPF default route is removed.
D. It starts sending traffic without a specific matching entry in the routing table to GigabitEthernet0/1.

Q186.



Refer to the exhibit. For security reasons, automatic neighbor discovery must be disabled on the R5 Gi0/1 interface These tasks must be completed • Disable all neighbor discovery methods on R5 interface Gi0/1

- Permit neighbor discovery on R5 interface Gi0/2.
- Verify there are no dynamically learned neighbors on R5 interface Gi0/1.
- Display the IP address of R6's interface Gi0/2

Which configuration must be used'?

A.
```
R5(config)#int Gi0/1
R5(config-if)#no cdp enable
R5(config-if)#exit
R5(config)#lldp run
R5(config)#no cdp run
R5#sh cdp neighbor detail
R5#sh lldp neighbor
```

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B.

```
R5(config)#int Gi0/1
R5(config-if)#no cdp enable
R5(config-if)#exit
R5(config)#no lldp run
R5(config)#cdp run
R5#sh cdp neighbor
R5#sh lldp neighbor
```

C.

```
R5(config)#int Gi0/1
R5(config-if)#no cdp run
R5(config-if)#exit
R5(config)#lldp run
R5(config)#cdp enable
R5#sh cdp neighbor
R5#sh lldp neighbor
```

D.

```
R5(config)#int Gi0/1
R5(config-if)#no cdp enable
R5(config-if)#exit
R5(config)#no lldp run
R5(config)#cdp run
R5#sh cdp neighbor detail
R5#sh lldp neighbor
```

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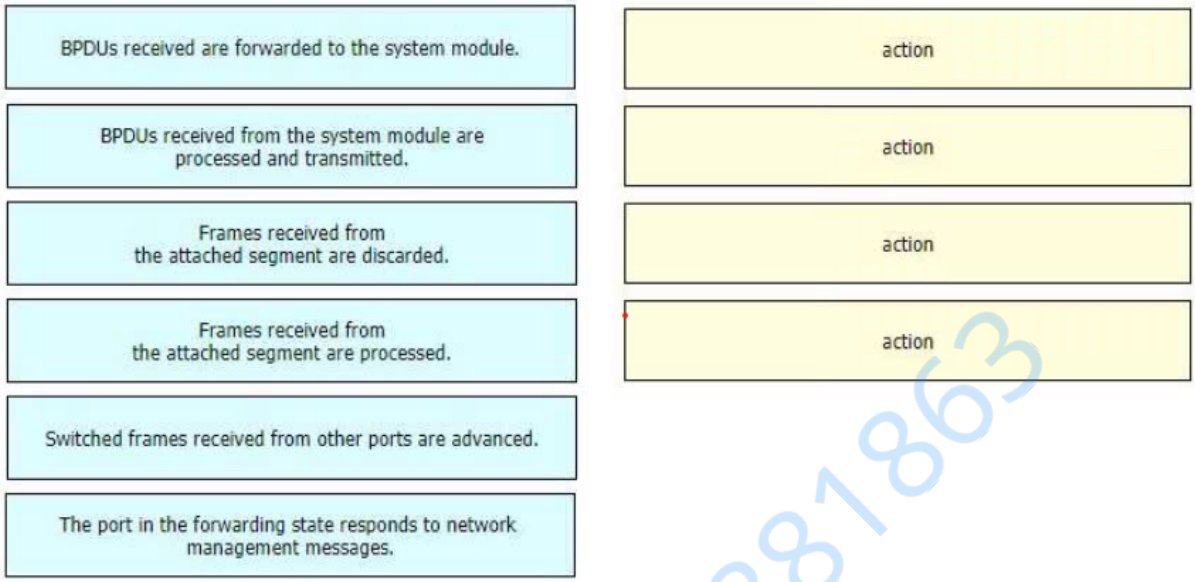
Q187.

In which way does a spine-and-leaf architecture allow for scalability in a network when additional access ports are required?

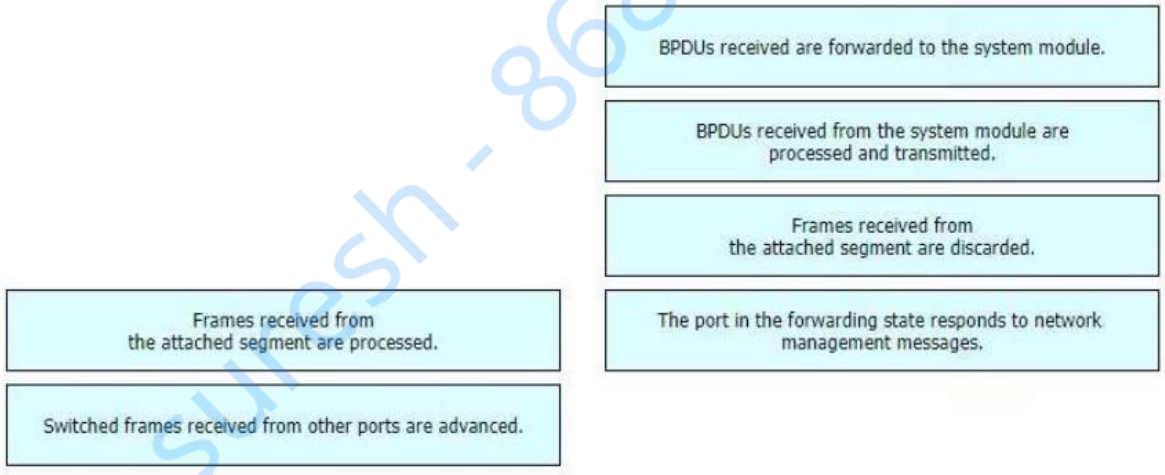
A. A leaf switch is added with connections to every spine switch.
B. A leaf switch is added with a single connection to a core spine switch
C. A spine switch and a leaf switch are added with redundant connections between them
D. A spine switch is added with at least 40 GB uplinks.

Q188.

Drag and drop the Rapid PVST+ forwarding state actions from the left to the right
Not all actions are used



ANSWER:



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Q189.

```
Switch#show ip dhcp snooping
Switch DHCP snooping is enabled
Switch DHCP gleaning is disabled
DHCP snooping is configured on following VLANs:
1
DHCP snooping is operational on following VLANs:
1
DHCP snooping is configured on the following L3 Interfaces:
Insertion of option 82 is disabled
circuit-id default format: vlan-mod-port
remote-id: aabb.cc00.6500 (MAC)
Option 82 on untrusted port is not allowed
Verification of hwaddr field is enabled
Verification of giaddr field is enabled
DHCP snooping trust/rate is configured on the following Interfaces:
Interface Trusted Allow option Rate limit (pps)
```

```
Switch#show ip dhcp snooping statistics detail
Packets Processed by DHCP Snooping = 34
Packets Dropped Because
IDB not known = 0
Queue full = 0
Interface is in errdisabled = 0
Rate limit exceeded = 0
Received on untrusted ports = 32
Nonzero giaddr = 0
Source mac not equal to chaddr = 0
No binding entry = 0
Insertion of opt82 fail = 0
Unknown packet = 0
Interface Down = 0
Unknown output interface = 0
Misdirected Packets = 0
Packets with Invalid Size = 0
Packets with Invalid Option = 0
```

Refer to the exhibit The DHCP server and clients are connected to the same switch. What is the next step to complete the DHCP configuration to allow clients on VLAN 1 to receive addresses from the DHCP server?

A. Configure the ip dhcp snooping trust command on the interface that is connected to the DHCP server
B. Configure the ip dhcp relay information option command on the interface that is connected to the DHCP server
C. Configure the ip dhcp relay information option command on the interface that is connected to the DHCP client
D. Configure the ip dhcp snooping trust command on the interface that is connected to the DHCP client

Q190.

What is the primary purpose of a First Hop Redundancy Protocol?

A. It reduces routing failures by allowing Layer 3 load balancing between OSPF neighbors that have the same link metric.
B. It allows directly connected neighbors to share configuration information.
C. It reduces routing failures by allowing more than one router to represent itself as the default gateway of a network.
D. It allows a router to use bridge priorities to create multiple loop-free paths to a single destination.

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Q191.

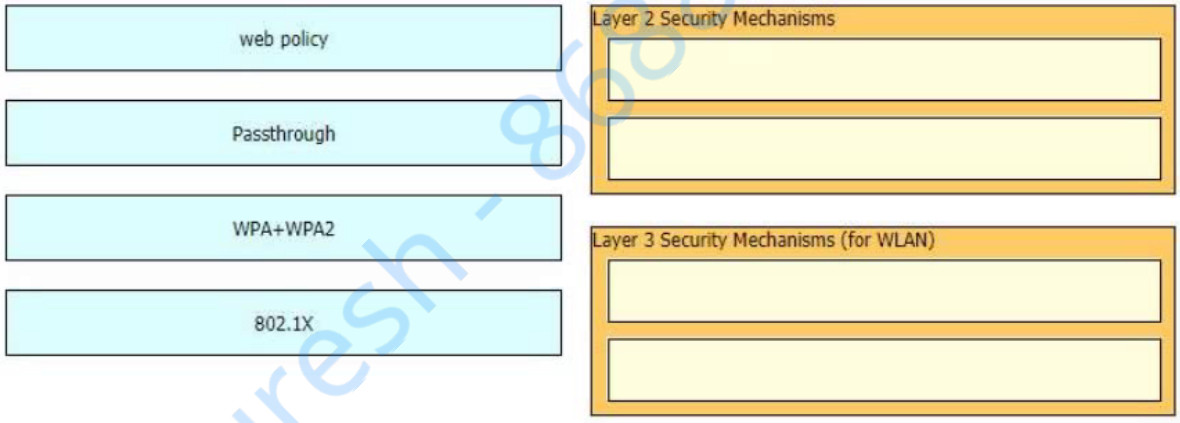
```
ip arp inspection vlan 2
interface fastethernet 0/1
   switchport mode access
   switchport access vlan 2
```

Refer to the exhibit. What is the effect of this configuration?

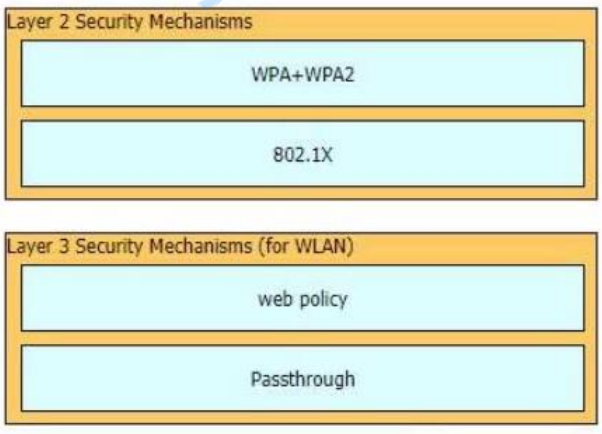
A. Dynamic ARP Inspection is disabled because the ARP ACL is missing.
B. The switch port remains down until it is configured to trust or untrust incoming packets.
C. The switch port interface trust state becomes untrusted.
D. The switch port remains administratively down until the interface is connected to another switch

Q192.

Drag and drop the Cisco Wireless LAN Controller security settings from the left onto the correct security mechanism categories on the right



ANSWER:



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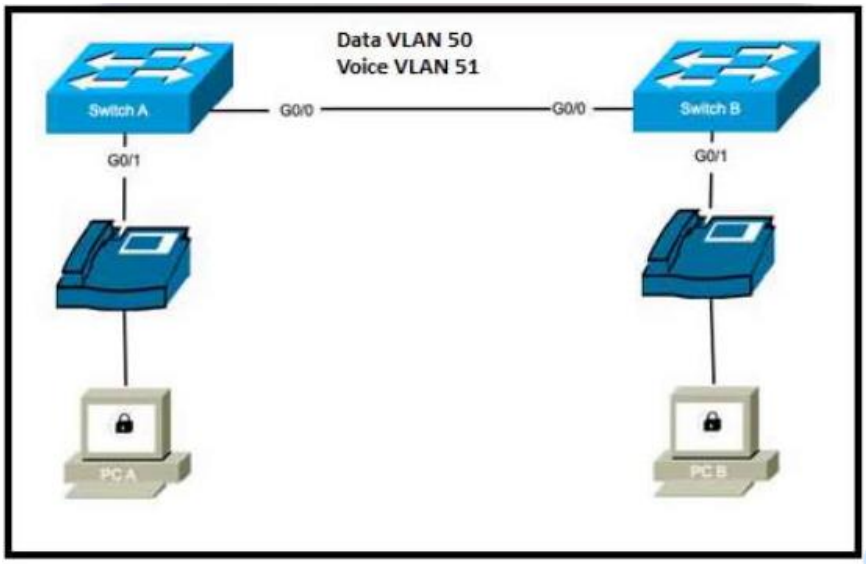
Q193.



Refer to the exhibit Switch A is newly configured. All VLANs are present in the VLAN database The IP phone and PC A on Gi0/1 must be configured for the appropriate VLANs to establish connectivity between the PCs. Which command set fulfills the requirement?

A.
```
SwitchA(config-if)#switchport mode access
SwitchA(config-if)#switchport access vlan 50
SwitchA(config-if)#switchport voice vlan 51
```

B.
```
SwitchA(config-if)#switchport mode trunk
SwitchA(config-if)#switchport trunk allowed vlan add 50, 51
SwitchA(config-if)#switchport voice vlan dot1p
```

C.
```
SwitchA(config-if)#switchport mode trunk
SwitchA(config-if)#switchport trunk allowed vlan 50, 51
SwitchA(config-if)#mls qos trust cos
```

D.
```
SwitchA(config-if)#switchport mode access
SwitchA(config-if)#switchport access vlan 50
SwitchA(config-if)#switchport voice vlan untagged
```

Q194.

An engineer is configuring remote access to a router from IP subnet 10.139 58.0/28 The domain name, crypto keys, and SSH have been configured Which configuration enables the traffic on the destination router?

A.
```
line vty 0 15
access-group 120 in
!
ip access-list extended 120
permit tcp 10.139.58.0 0.0.0.15 any eq 22
```

B.
```
interface FastEthernet0/0
ip address 10.122.49.1 255.255.255.252
ip access-group 110 in
!
ip access-list standard 110
permit tcp 10.139.58.0 0.0.0.15 eq 22 host 10.122.49.1
```

C.
```
interface FastEthernet0/0
ip address 10.122.49.1 255.255.255.252
ip access-group 10 in
!
ip access-list standard 10
permit udp 10.139.58.0 0.0.0.7 host 10.122.49.1 eq 22
```

D.
```
line vty 0 15
access-class 120 in
!
ip access-list extended 120
permit tcp 10.139.58.0 0.0.0.15 any eq 22
```

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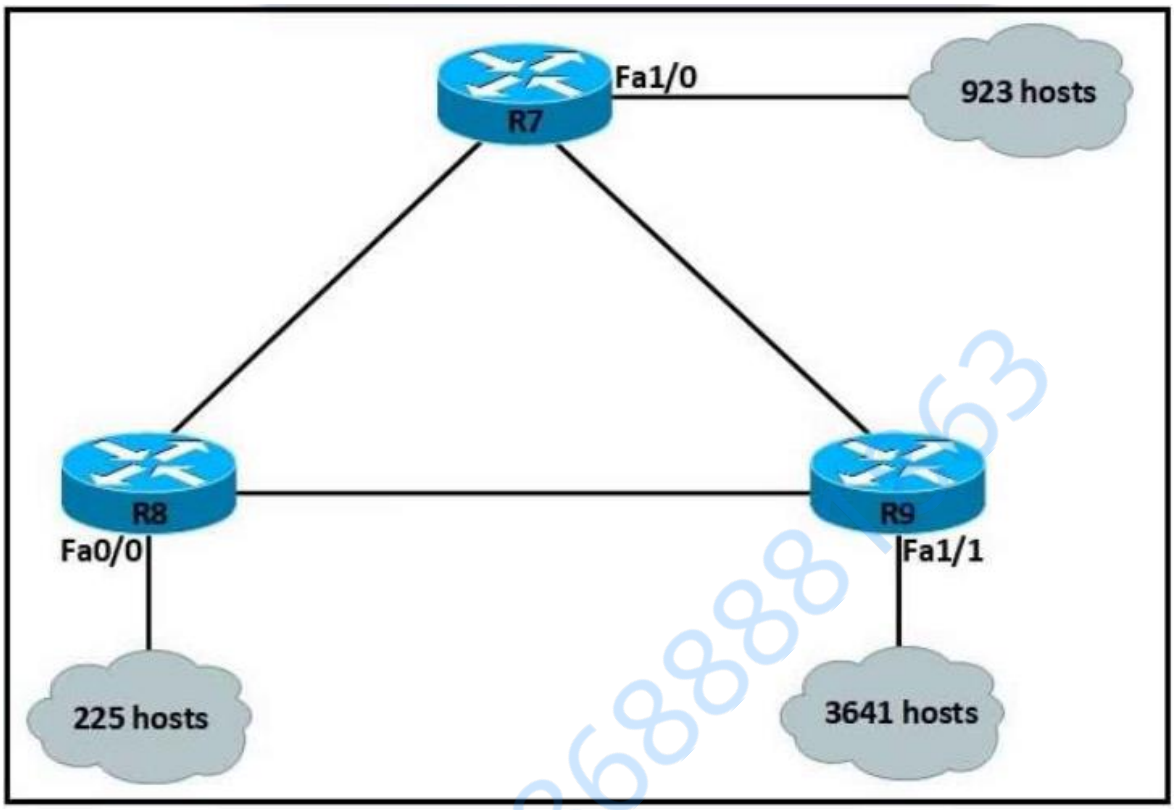
Q195.

Which two protocols must be disabled to increase security for management connections to a Wireless LAN Controller? (Choose two)

A. HTTPS
B. TFTP
C. SSH
D. HTTP

E. Telnet

Q196.



Refer to the exhibit. An IP subnet must be configured on each router that provides enough addresses for the number of assigned hosts and anticipates no more than 10% growth for new hosts. Which configuration script must be used?

A.

```
R7#
configure terminal
interface Fa1/0
ip address 10.1.56.1 255.255.192.0
no shutdown

R8#
configure terminal
interface Fa0/0
ip address 10.9.32.1 255.255.224.0
no shutdown

R9#
configure terminal
interface Fa1/1
ip address 10.23.96.1 255.255.128.0
no shutdown
```

B.

```
R7#
configure terminal
interface Fa1/0
ip address 10.1.56.1 255.255.240.0
no shutdown

R8#
configure terminal
interface Fa0/0
ip address 10.9.32.1 255.255.224.0
no shutdown

R9#
configure terminal
interface Fa1/1
ip address 10.23.96.1 255.255.192.0
no shutdown
```

C.

```
R7#
configure terminal
interface Fa1/0
ip address 10.1.56.1 255.255.252.0
no shutdown

R8#
configure terminal
interface Fa0/0
ip address 10.9.32.1 255.255.255.0
no shutdown

R9#
configure terminal
interface Fa1/1
ip address 10.23.96.1 255.255.240.0
no shutdown
```

D.

```
R7#
configure terminal
interface Fa1/0
ip address 10.1.56.1 255.255.192.0
no shutdown

R8#
configure terminal
interface Fa0/0
ip address 10.9.32.1 255.255.224.0
no shutdown

R9#
configure terminal
interface Fa1/1
ip address 10.23.96.1 255.255.128.0
no shutdown
```

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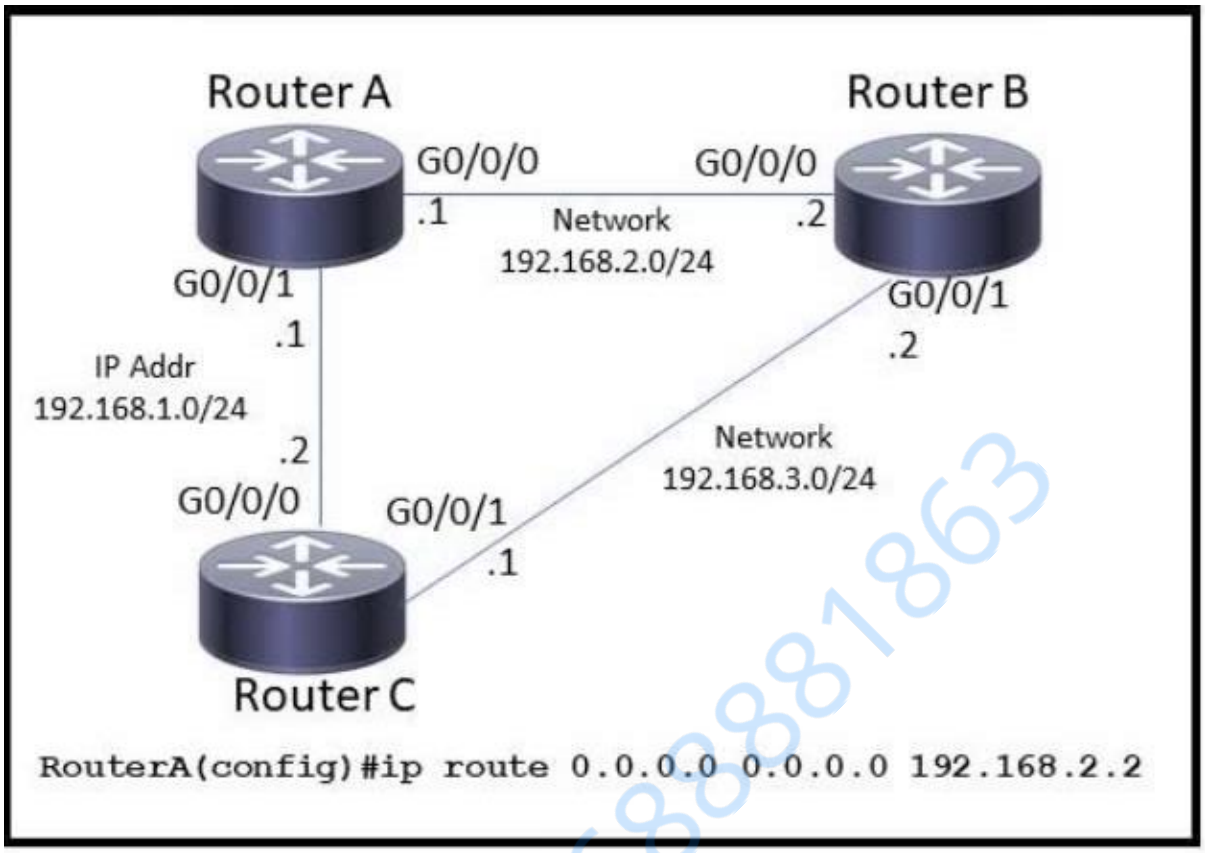
Q197.



Refer to the exhibit Which command must be issued to enable a floating static default route on router A?

A. ip route 0.0.0.0 0.0.0.0 192.168.1.2 10
B. ip route 0.0.0.0 0.0.0.0 192.168.1.2
C. ip default-gateway 192.168.2.1
D. ip route 0.0.0.0 0.0.0.0 192.168.2.1 10

Q198.

What is a requirement for nonoverlapping Wi-Fi channels?

A. different security settings
B. discontinuous frequency ranges
C. unique SSIDs
D. different transmission speeds

Q199.

A network engineer must implement an IPv6 configuration on the vlan 2000 interface to create a routable locally-unique unicast address that is blocked from being advertised to the internet Which configuration must the engineer apply?

A. interface vlan 2000

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ipv6 address ff00:0000:aaaa::1234:2343/64

B. interface vlan 2000
ipv6 address fdOO:: 1234:2343/64

C. interface vlan 2000
ipv6 address fe80:0000:aaaa::1234:2343/64

D. interface vlan 2000
ipv6 address fc00:0000:aaaa:a15d:1234:2343:8aca/64

Q200.

```
service timestamps debug datetime msec
service timestamps log datetime msec
service password-encryption
!
hostname R4
!
boot-start-marker
boot-end-marker
!
ip cef
!
interface FastEthernet0/0
description WAN_INTERFACE
ip address 10.0.1.2 255.255.255.252
ip access-group 100 in
!
interface FastEthernet0/1
description LAN_INTERFACE
ip address 10.148.2.1 255.255.255.0
duplex auto
speed auto
!
ip forward-protocol nd
!
access-list 100 permit eigrp any any
access-list 100 permit icmp any any
access-list 100 permit tcp 10.149.3.0 0.0.0.255 host 10.0.1.2 eq 22
access-list 100 permit tcp any any eq 80
access-list 100 permit tcp any any eq 443
access-list 100 deny ip any any log
```

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Refer to the exhibit. Which configuration enables DHCP addressing for hosts connected to interface FastEthernetO/1 on router R4?

A.
```
interface FastEthernet0/1
ip helper-address 10.0.1.1
!
access-list 100 permit tcp host 10.0.1.1 eq 67 host 10.148.2.1
```

B.

```
interface FastEthernet0/0
ip helper-address 10.0.1.1
!
access-list 100 permit udp host 10.0.1.1 eq bootps host 10.148.2.1
```

C.

```
interface FastEthernet0/0
ip helper-address 10.0.1.1
!
access-list 100 permit host 10.0.1.1 host 10.148.2.1 eq bootps
```

D.

```
interface FastEthernet0/1
ip helper-address 10.0.1.1
!
access-list 100 permit udp host 10.0.1.1 eq bootps host 10.148.2.1
```

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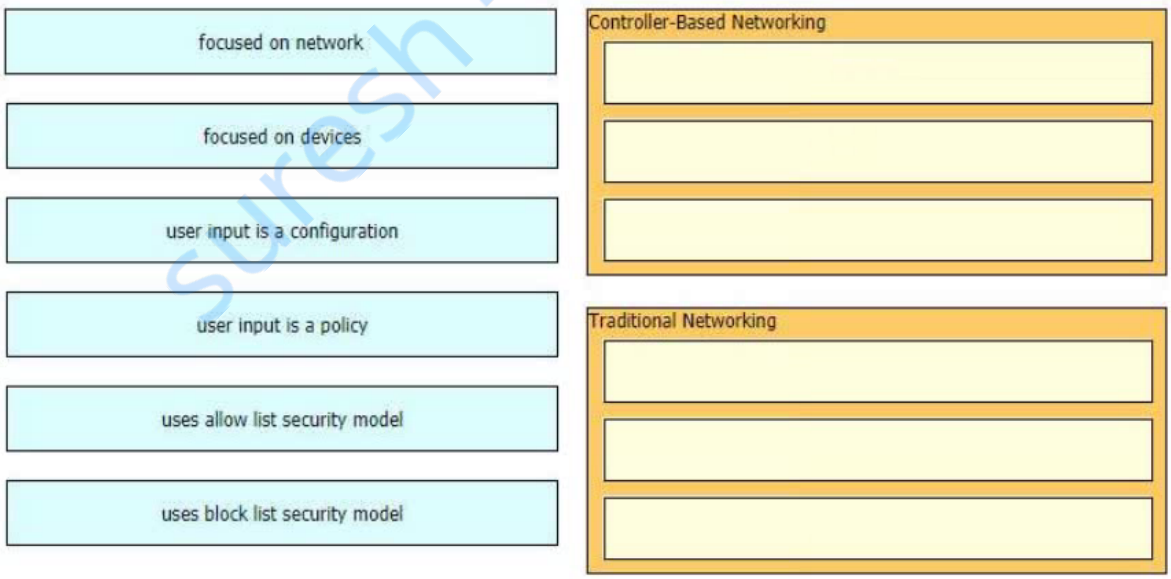
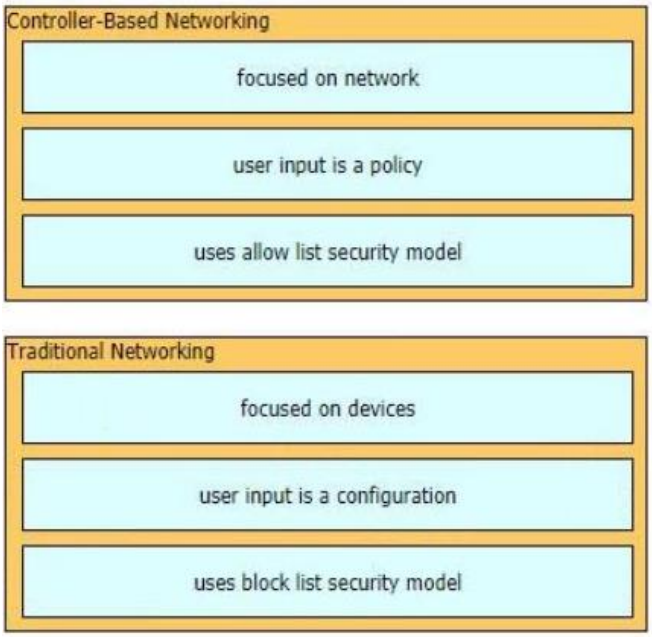
Q201.

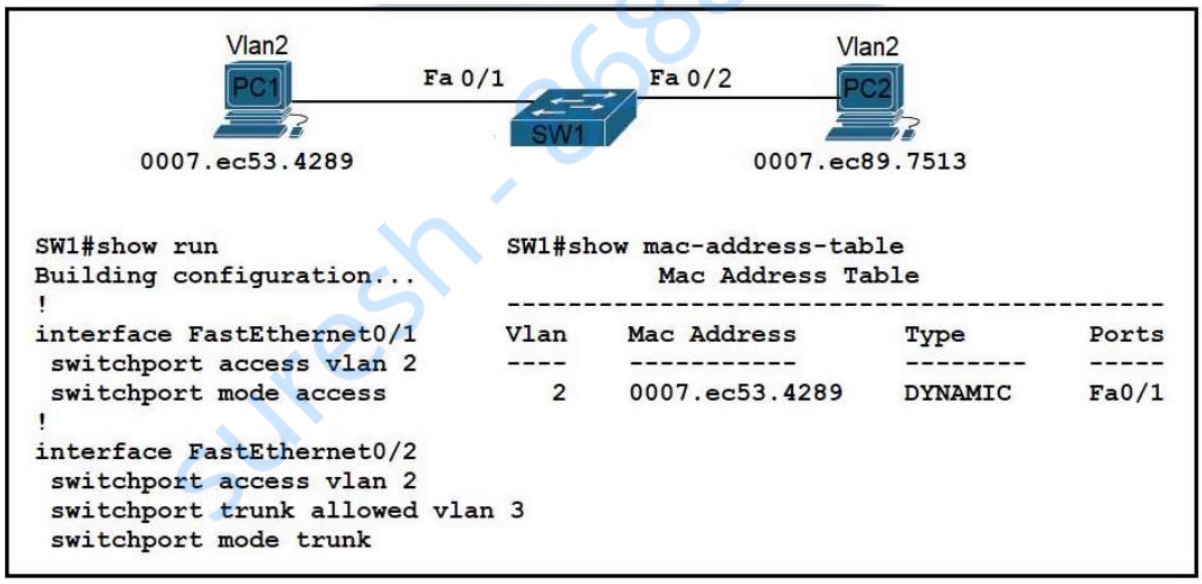
Drag and drop the characteristics of networking from the left onto the networking types on the right.



ANSWER:



Q202.



Refer to the exhibit An engineer has started to configure replacement switch SW1 To verify part of the configuration the engineer issued the commands as shown and noticed that the entry for PC2 is missing. Which change must be applied to SW1 so that PC1 and PC2 communicate normally'?

A. SW1 (config)#interface fa0/2
SW1 (config-if)#no switchport mode trunk
SW1 (config-if)#no switchport trunk allowed vlan 3
SW1(config-if)#switchport mode access

B. SW1 (config)#interface fa0/1
SW1(config-if)#no switchport access vlan 2

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SW1(config-if)#switchport access vlan 3
SW1 (config-if)#switch port trunk allowed vlan 2

C. SW1 (config)#interface fa0/1
SW1 (config-if)#no switchport access vlan 2
SW1(config-if)#switchport trunk native vlan 2
SW1 (config-if)#switch port trunk allowed vlan 3

D. SW1 (config ^interface fa0/2
SW1(config-if)#no switchport access vlan 2
SW1 (config-if)#no switchport trunk allowed vlan 3
SW1(config-if)#switchport trunk allowed vlan 2

Q203.

When a switch receives a frame for a known destination MAC address, how is the frame handled?

A. flooded to all ports except the one from which it originated
B. forwarded to the first available port
C. sent to the port identified for the known MAC address
D. broadcast to all ports

Q204.

Refer to the exhibit An engineer is tasked with verifying network configuration parameters on a client workstation to report back to the team lead Drag and drop the node identifiers from the left onto the network parameters on the right.

```
C:\>ipconfig/all

Windows IP Configuration

   Host Name . . . . . . . . . . . . : Inspiron15
   Primary Dns Suffix  . . . . . . . :
   Node Type . . . . . . . . . . . . : Mixed
   IP Routing Enabled. . . . . . . . : No
   WINS Proxy Enabled. . . . . . . . : No

Wireless LAN adapter Local Area Connection* 12:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :
   Description . . . . . . . . . . . : Microsoft Wi-Fi Direct Virtual Adapter
   Physical Address. . . . . . . . . : 1A-76-3F-7C-57-DF
   DHCP Enabled. . . . . . . . . . . : Yes
   Autoconfiguration Enabled . . . . : Yes

Wireless LAN adapter Wi-Fi:

   Connection-specific DNS Suffix  . :
   Description . . . . . . . . . . . : Dell Wireless 1703 802.11b/g/n (2.4GHz)
   Physical Address. . . . . . . . . : B8-76-3F-7C-57-DF
   DHCP Enabled. . . . . . . . . . . : No
   Autoconfiguration Enabled . . . . : Yes
   Link-local IPv6 Address . . . . . : fe80::e09f:9839:6e86:f755%12(Preferred)
                  . . . . . . . . . . : 192.168.1.20(Preferred)
                  . . . . . . . . . . : 255.255.255.0
                  . . . . . . . . . . : 192.168.1.1
   DHCPv6 IAID . . . . . . . . . . . : 263747135
   DHCPv6 Client DUID. . . . . . . . : 00-01-00-01-18-E6-32-43-B8-76-3F-7C-57-DF

                  . . . . . . . . . . : 192.168.1.15
                                        192.168.1.16
   NetBIOS over Tcpip. . . . . . . . : Enabled
```

192.168.1.1	broadcast address
192.168.1.20	default gateway
192.168.1.254	host IP address
192.168.1.255	last assignable IP address in the subnet
B8-76-3F-7C-57-DF	MAC address

ANSWER:

192.168.1.255
192.168.1.1
192.168.1.20
192.168.1.254
B8-76-3F-7C-57-DF

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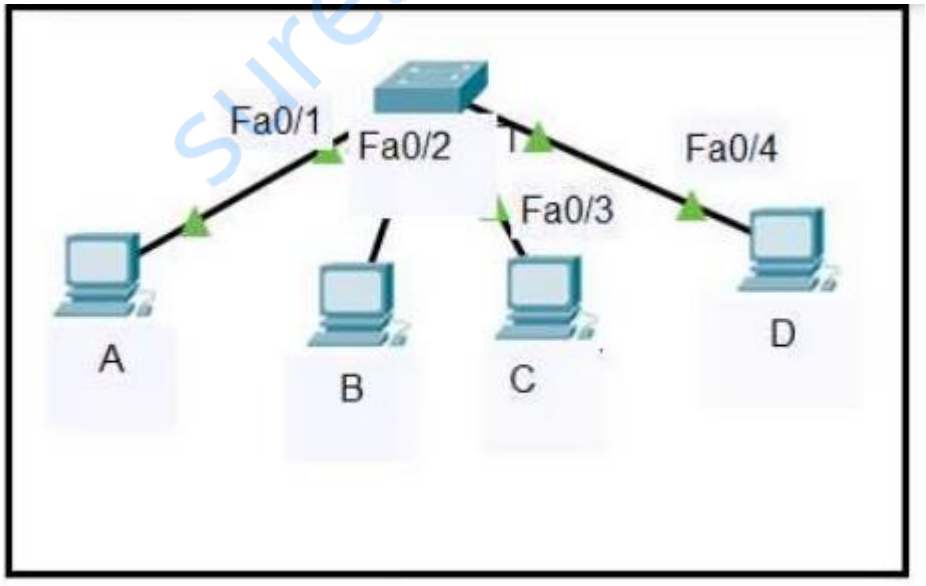
Q205.



Refer to the exhibit Host A sent a data frame destined for host D

SwitchA#show mac-address table Mac Address Table
Vlan Mac Address Type Ports
2 000c 859c bb7b DYNAMIC Fa0/1
2 0010.11dc.3e91 DYNAMIC Fa0/2
2 0041.39d1.c469 DYNAMIC Fa0/3
Switch A#
What does the switch do when it receives the frame from host A?

A. It floods the frame out of all ports except port Fa0/1
B. It experiences a broadcast storm
C. It shuts down the port Fa0/1 and places it in err-disable mode
D. It drops the frame from the switch CAM table

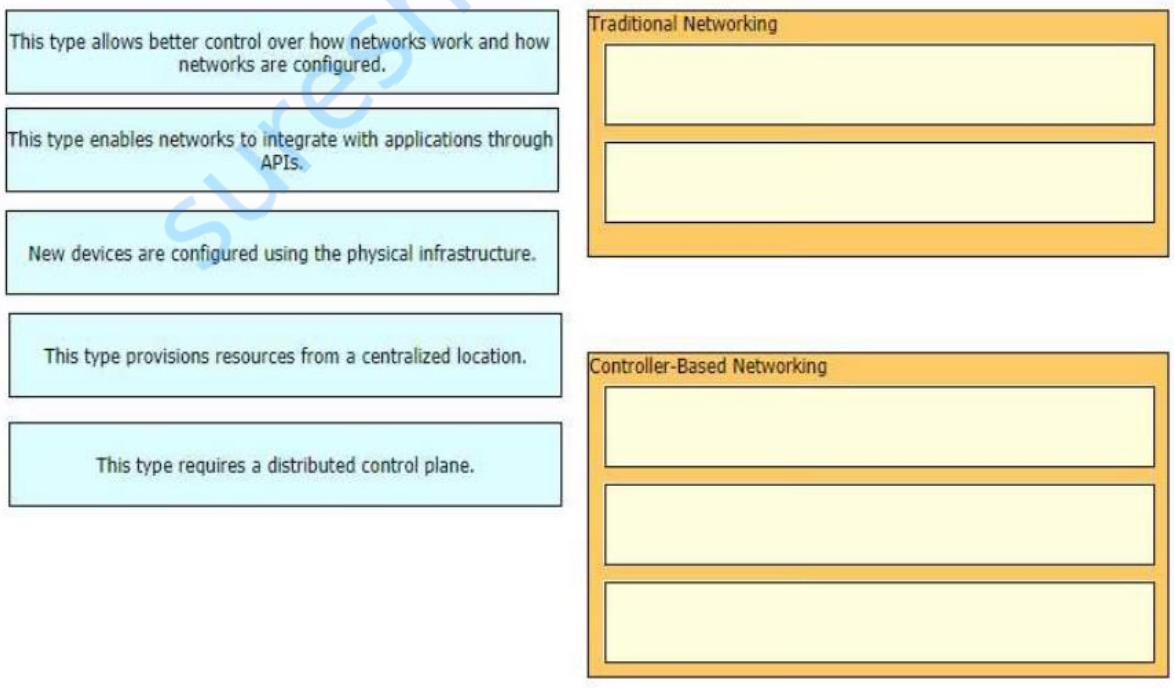
Q206.

Which two spanning-tree states are bypassed on an interface running PortFast? (Choose two)

A. disabled
B. listening
C. learning
D. blocking
E. forwarding

Q207.

Drag and drop the statements about networking from the left onto the corresponding networking types on the right



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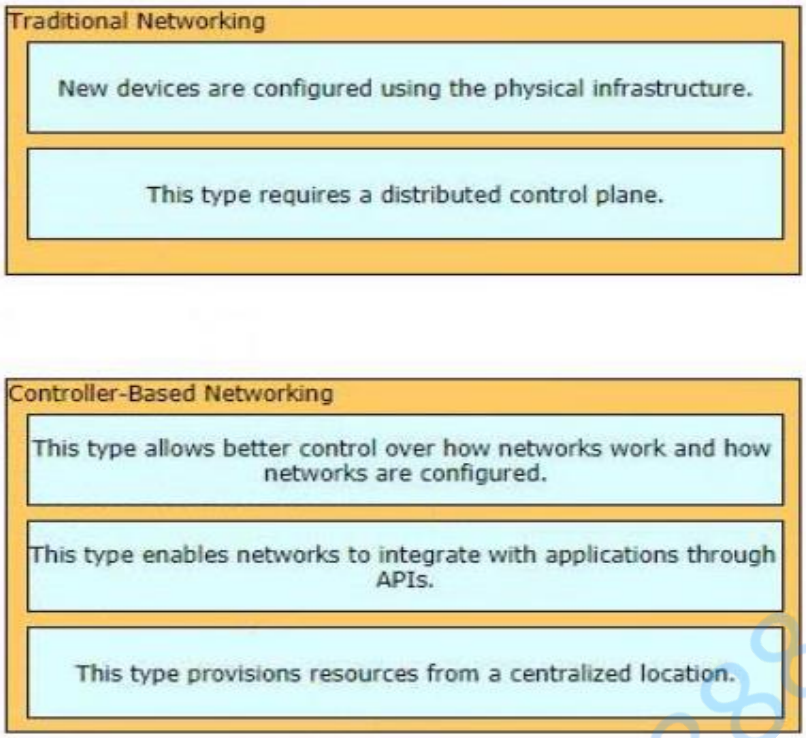
ANSWER:



Q208.

Drag and drop the management connection types from the left onto the definitions on the right

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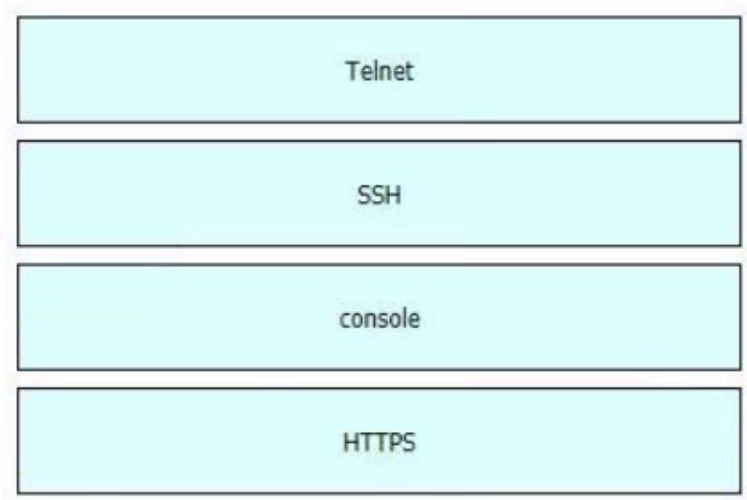
ANSWER:



Q209.

```
R1# show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, * - candidate
default
       U - per-user static route, o - ODR
Gateway of last resort is not set
C  192.168.3.5 is directly connected, Loopback0
     10.0.0.0/8 is variably subnetted, 4 subnets, 2 masks
O       10.0.1.3/32 [110/100] via 192.168.0.40, 00:39:08, Serial0
C       10.0.1.0/24 is directly connected, Serial0
O       10.0.1.190/32 [110/5] via 192.168.0.35, 00:39:08, Serial0
O       10.0.1.0/24 [110/10] via 192.168.0.4, 00:39:08, Gigabit Ethernet 0/0
D       10.0.1.0/28 [90/10]  via 192.168.0.7, 00:39:08, Gigabit Ethernet 0/0
```

Refer to the exhibit. Traffic sourced from the loopback0 interface is trying to connect via ssh to the host at 10.0.1.15. What is the next hop to the destination address?

A. 192.1680.7
B. 192.168.0.4
C. 192.168.0.40
D. 192 168 3.5

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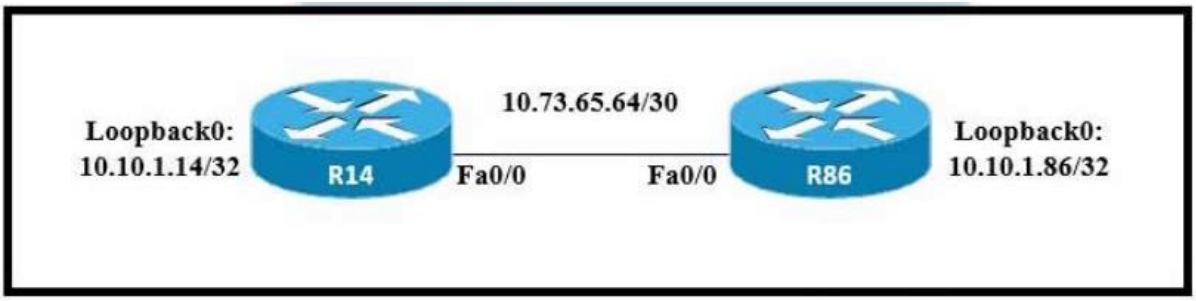
Q210.



Refer to the exhibit. Which configuration allows routers R14 and R86 to form an OSPFv2 adjacency while acting as a central point for exchanging OSPF information between routers'?

A.

```
R14#
interface FastEthernet0/0
ip address 10.73.65.65 255.255.255.252
ip ospf network broadcast
ip ospf priority 0
ip mtu 1400

router ospf 10
router-id 10.10.1.14
network 10.10.1.14 0.0.0.0 area 0
network 10.73.65.64 0.0.0.3 area 0
R86#
interface Loopback0
ip address 10.10.1.86 255.255.255.255

interface FastEthernet0/0
ip address 10.73.65.66 255.255.255.252
ip ospf network broadcast
ip mtu 1500

router ospf 10
router-id 10.10.1.86
network 10.10.1.86 0.0.0.0 area 0
network 10.73.65.64 0.0.0.3 area 0
```

B.

```
R14#
interface Loopback0
ip ospf 10 area 0

interface FastEthernet0/0
ip address 10.73.65.65 255.255.255.252
ip ospf network broadcast
ip ospf 10 area 0
ip mtu 1500

router ospf 10
ip ospf priority 255
router-id 10.10.1.14

R86#
interface Loopback0
ip ospf 10 area 0

interface FastEthernet0/0
ip address 10.73.65.66 255.255.255.252
ip ospf network broadcast
ip ospf 10 area 0
ip mtu 1500

router ospf 10
router-id 10.10.1.86
```

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C.

```
R14#
interface FastEthernet0/0
ip address 10.73.65.65 255.255.255.252
ip ospf network broadcast
ip ospf priority 255
ip mtu 1500

router ospf 10
router-id 10.10.1.14
network 10.10.1.14 0.0.0.0 area 0
network 10.73.65.64 0.0.0.3 area 0
R86#
interface FastEthernet0/0
ip address 10.73.65.66 255.255.255.252
ip ospf network broadcast
ip mtu 1500

router ospf 10
router-id 10.10.1.86
network 10.10.1.86 0.0.0.0 area 0
network 10.73.65.64 0.0.0.3 area 0
```

D.

```
R14#
interface FastEthernet0/0
ip address 10.73.65.65 255.255.255.252
ip ospf network broadcast
ip ospf priority 255
ip mtu 1500

router ospf 10
router-id 10.10.1.14
network 10.10.1.14 0.0.0.0 area 0
network 10.73.65.64 0.0.0.3 area 0
R86#
interface FastEthernet0/0
ip address 10.73.65.66 255.255.255.252
ip ospf network broadcast
ip mtu 1400

router ospf 10
router-id 10.10.1.86
network 10.10.1.86 0.0.0.0 area 0
network 10.73.65.64 0.0.0.3 area 0
```

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Q211.

An engineer configured an OSPF neighbor as a designated router Which state verifies the designated router is in the proper mode'

A. Exchange
B. Init
C. Full
D. 2-way

Q212.

```
interface GigabitEthernet3/1/4
 switchport voice vlan 50
!
```

Refer to the exhibit An administrator is tasked with configuring a voice VLAN. What is the expected outcome when a Cisco phone is connected to the GigabitEthemet3/1/4 port on a switch?

A. The phone and a workstation that is connected to the phone send and receive data in VLAN 50
B. The phone sends and receives data in VLAN 50, but a workstation connected to the phone sends and receives data in VLAN 1.
C. The phone sends and receives data in VLAN 50, but a workstation connected to the phone has no VLAN connectivity.
D. The phone and a workstation that is connected to the phone do not have VLAN connectivity

Q213.

An engineer is configuring data and voice services to pass through the same port The designated switch interface fastethenet0/1 must transmit packets using the same priority for data when they are received from the access port of the IP phone. Which configuration must be used?

A. interface fastethernet0/1
   switchport voice vlan dot1p
B. interface fastethernet0/1
   switchport priority extend cos 7
C. interface fastethernet0/1
   switchport voice vlan untagged
D. interface fastethernet0/1
   switchport priority extend trust

Q214.

```
Switch1#show etherchannel summary
Flags:  D - down        P - in port-channel
        I - stand-alone s - suspended
        H - Hot-standby (LACP only)
        R - Layer3      S - Layer2
        U - in use      f - failed to allocate aggregator
        u - unsuitable for bundling
        w - waiting to be aggregated
        d - default port

Number of channel-groups in use: 1
Number of aggregators:           1
Group  Port-channel  Protocol    Ports
------+-------------+-----------+----------------
1      Po1(SD)           LACP    Fa0/2(I) Fa0/1(I)
```

```
Switch1#show run
Building configuration...
interface Port-channel1
!
interface FastEthernet0/1
 channel-group 1 mode passive
!
interface FastEthernet0/2
 channel-group 1 mode passive
```

```
Switch2#show run
Building configuration...
interface Port-channel1
!
interface FastEthernet0/1
 channel-group 1 mode passive
!
interface FastEthernet0/2
 channel-group 1 mode passive
```

Refer to the exhibit Which change to the configuration on Switch2 allows the two switches to establish an EtherChannel?

A. Change the LACP mode to desirable
B. Change the protocol to PAgP and use auto mode.
C. Change the LACP mode to active
D. Change the protocol to EtherChannel mode on

Q215.

What are two benefits of FHRPs? (Choose two.)

A. They allow encrypted traffic
B. They prevent loops in the Layer 2 network.
C. They are able to bundle multiple ports to increase bandwidth
D. They enable automatic failover of the default gateway
E. They allow multiple devices to serve as a single virtual gateway for clients in the network

Q216.

What is a requirement when configuring or removing LAG on a WLC?

A. The incoming and outgoing ports for traffic flow must be specified if LAG is enabled
B. The controller must be rebooted after enabling or reconfiguring LAG
C. Multiple untagged interfaces on the same port must be supported
D. The management interface must be reassigned if LAG is disabled

Q217.

Which action is taken by a switch port enabled for PoE power classification override

A. As power usage on a PoE switch port is checked data flow to the connected device is temporarily paused
B. When a powered device begins drawing power from a PoE switch port, a syslog message is generated.
C. If a switch determines that a device is using less than the minimum configured power, it assumes the device has failed and disconnects it.
D. Should a monitored port exceed the maximum administrative value for power, the port is shut down and err-disabled

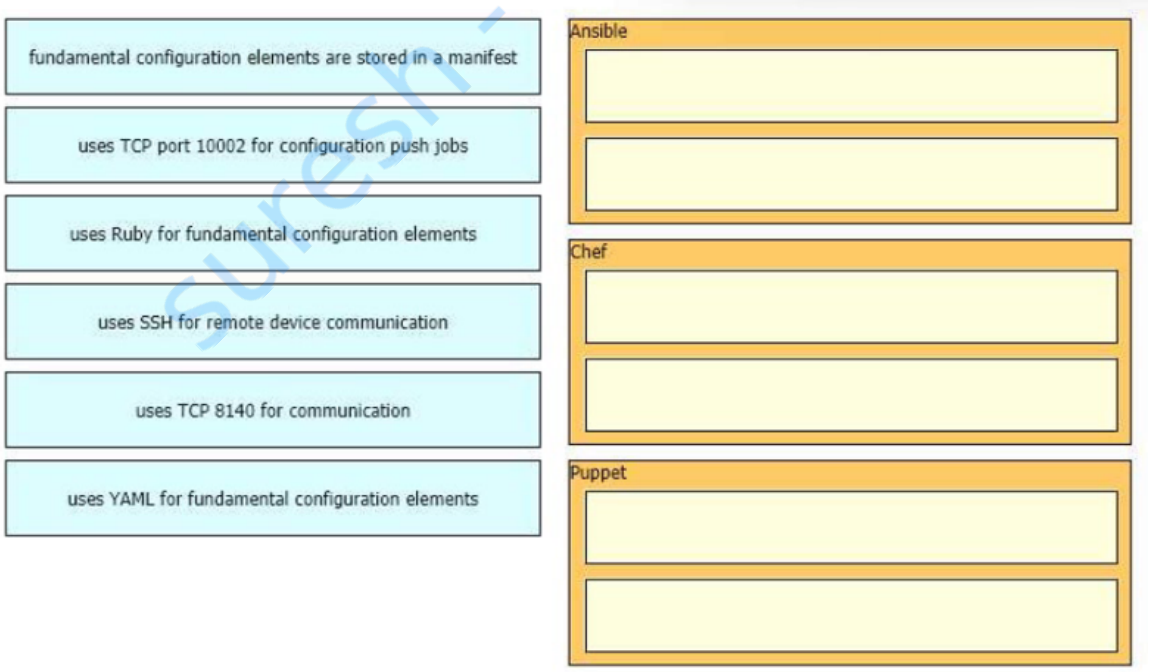
Q218.

An engineer must configure a WLAN using the strongest encryption type for WPA2-PSK. Which cipher fulfills the configuration requirement?

A. WEP
B. AES
C. RC4
D. TKIP

Q219.

Drag and drop the descriptions from the left onto the configuration-management technologies on the right



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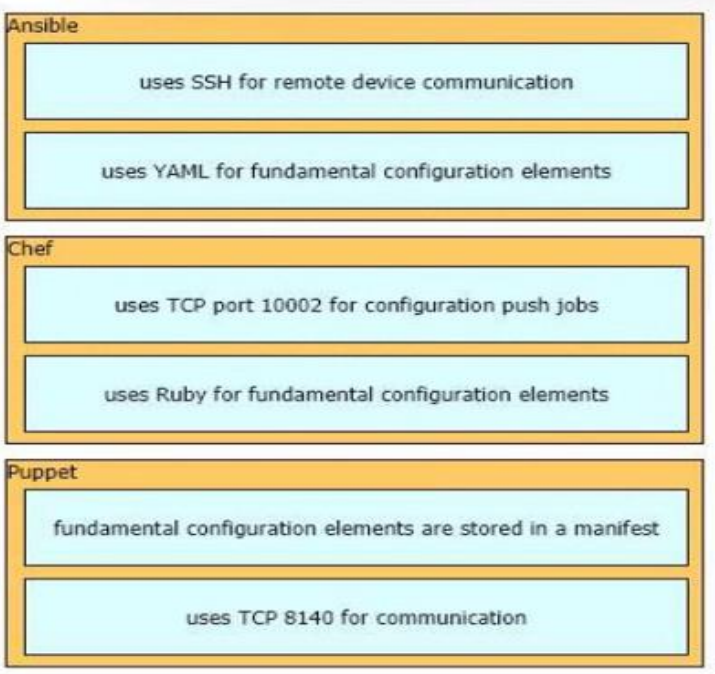
ANSWER:



Q220.

```
R1#config t
R1(config)# interface gi1/1
R1(config-if)# ip address 192.168.0.1 255.255.255.0

R1(config)# router bgp 65000
R1(config-router)# neighbor 192.168.0.2 remote-as 65001
R1(config-router)# network 10.1.1.0 mask 255.255.255.0

R1(config)# router ospf 1
R1(config)# router-id 1.1.1.1
R1(config)# network 192.168.0.1 0.0.0.0 area 0
R1(config)# network 10.1.1.0 0.0.0.255 area 0

R1(config)# router eigrp 1
R1(config)# eigrp router-id 1.1.1.1
R1(config)# network 10.1.1.0 0.0.0.255
R1(config)# network 192.168.0.1 0.0.0.0

R2#config t
R2(config)# interface gi1/1
R2(config-if)# ip address 192.168.0.2 255.255.255.0

R2#config t
R2(config)# router bgp 65001
R2(config-router)# neighbor 192.168.0.1 remote-as 65000

R2(config)# router ospf 1
R2(config)# router-id 2.2.2.2
R2(config)# network 192.168.1.2 0.0.0.0 area 0

R2(config)# router eigrp 1
R2(config)# eigrp router-id 1.1.1.1
R2(config)# network 192.168.0.1 0.0.0.0

R2(config)# ip route 10.1.1.0 255.255.255.0 192.168.0.1
```

Refer to the exhibit Router R2 is configured with multiple routes to reach network 10.1.1 0/24 from router R1 Which path is chosen by router R2 to reach the destination network 10.11.0/24?

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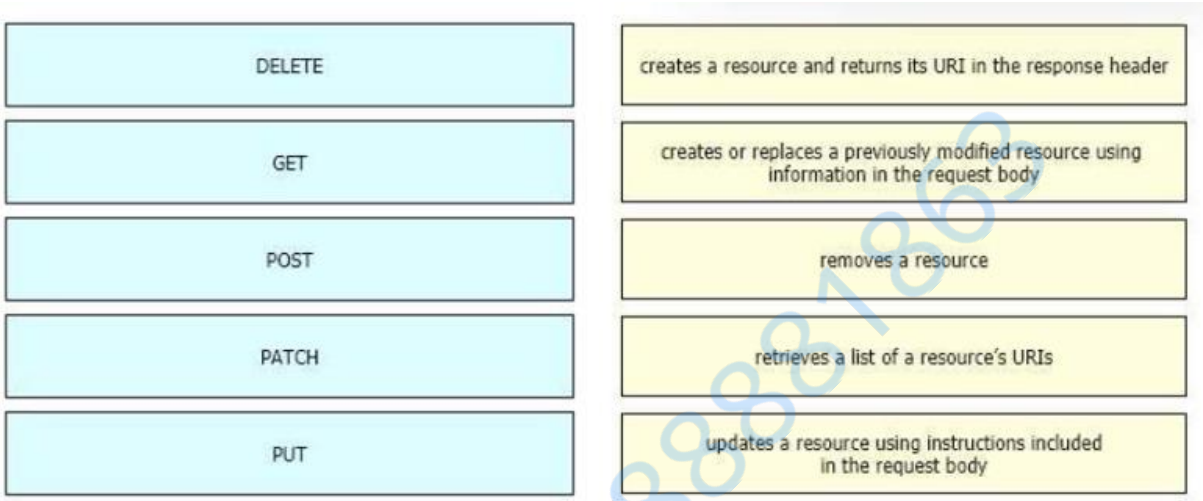
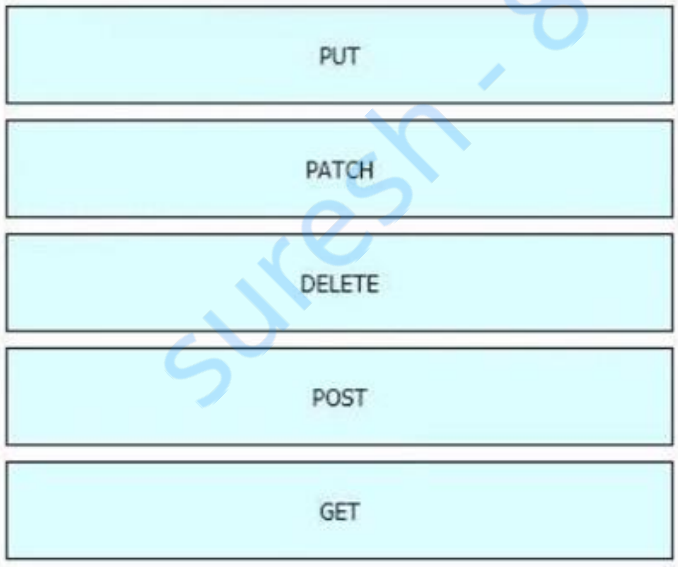
A. OSPF
B. static
C. EIGRP
D. eBGP

Q221.

Drag and drop the HTTP methods used with REST-based APIs from the left onto the descriptions on the right



ANSWER:



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Q222.

```
R1#show run
!
router ospf 1
auto-cost reference-bandwidth 100000
!
interface GigabitEthernet0/0
bandwidth 10000000
!
interface GigabitEthernet0/1
bandwidth 100000000
!
interface GigabitEthernet0/2
ip ospf cost 100
!
interface GigabitEthernet0/3
ip ospf cost 1000
end
```

Refer to the exhibit Router R1 resides in OSPF Area 0 After updating the R1 configuration to influence the paths that it will use to direct traffic, an engineer verified that each of the four Gigabit ■faces has the same route to 10.10.0.0/16. Which interface will R1 choose to send traffic to reach the route?

A. GigabitEthernet0/0
B. GigabitEthernet0/1
C. GigabitEthernet0/2
D. GigabitEthernet0/3

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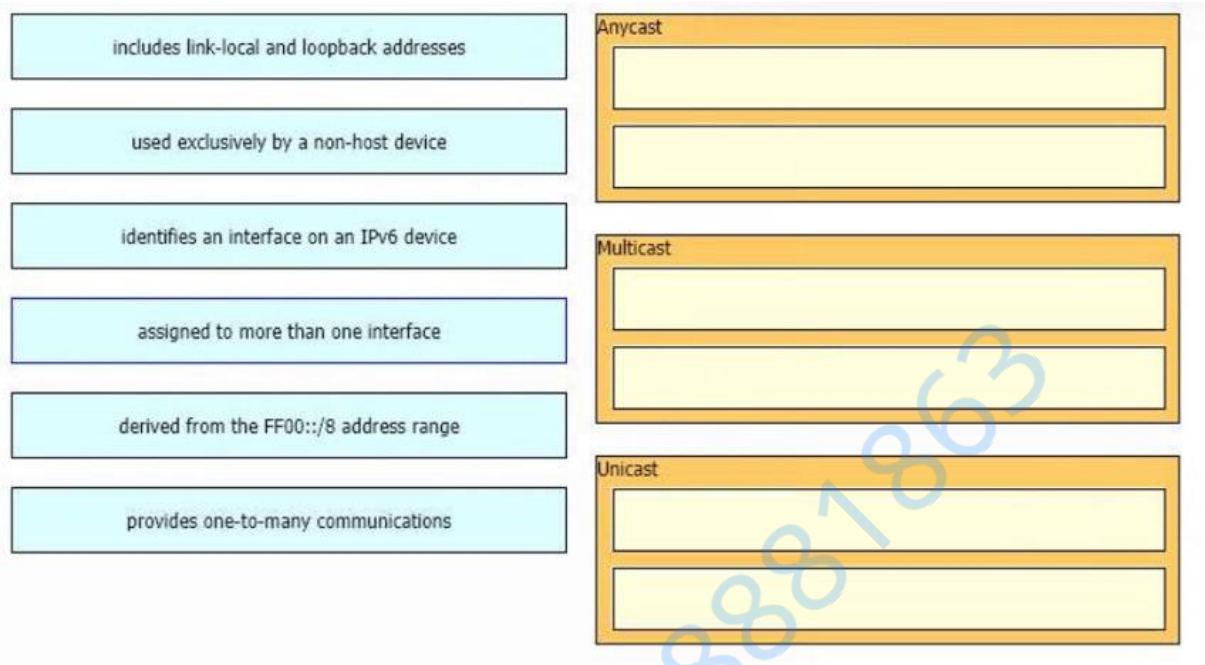
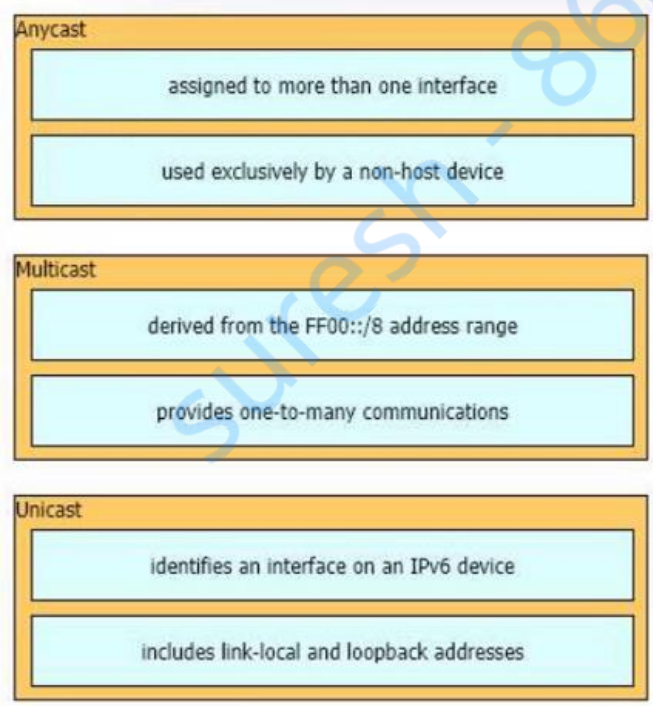
Q223.

Drag and drop the IPv6 address details from the left onto the corresponding types on the right



ANSWER:



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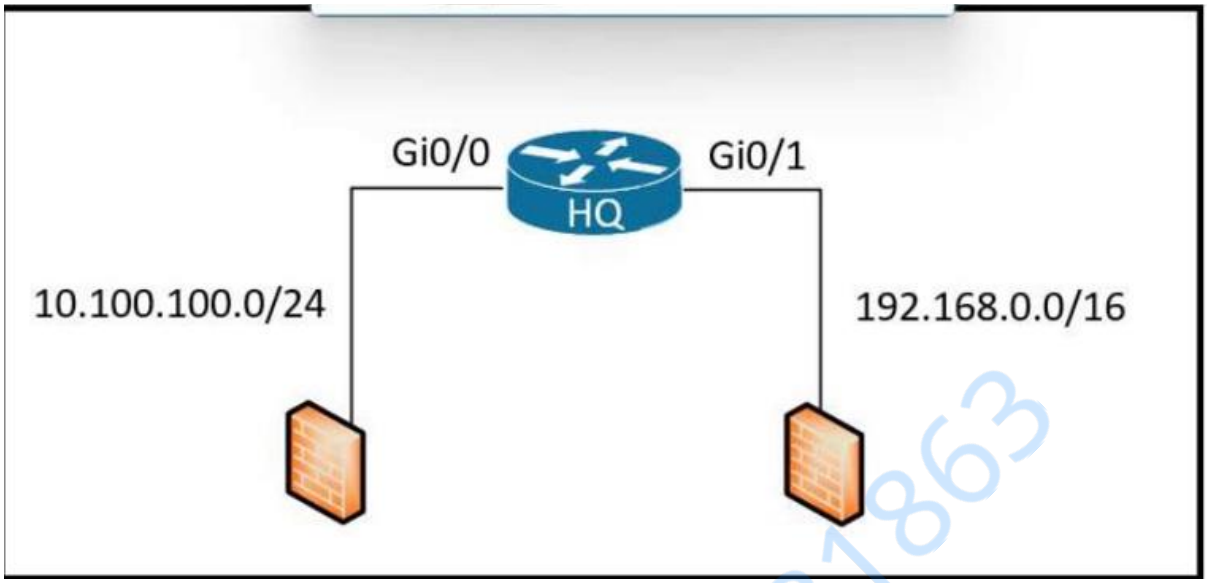
Q224.



Refer to the exhibit An access-list is required to permit traffic from any host on interface Gi0/0 and deny traffic from interface Gi0/1. Which access list must be applied?

A. ip access-list standard 99
   permit 10.100.100.0 0.0.0.255
   deny 192.168.0.0 0.0.255.255
B. ip access-list standard 99
   permit 10.100.100.0 0.0.0.255
   deny 192.168.0.0 0.255.255.255
C. ip access-list standard 199
   permit 10.100.100.0 0.0.0.255
   deny 192.168.0.0 0.255.255.255
D. ip access-list standard 199
   permit 10.100.100.0 0.0.0.255
   deny 192.168.0.0 0.0.255.255

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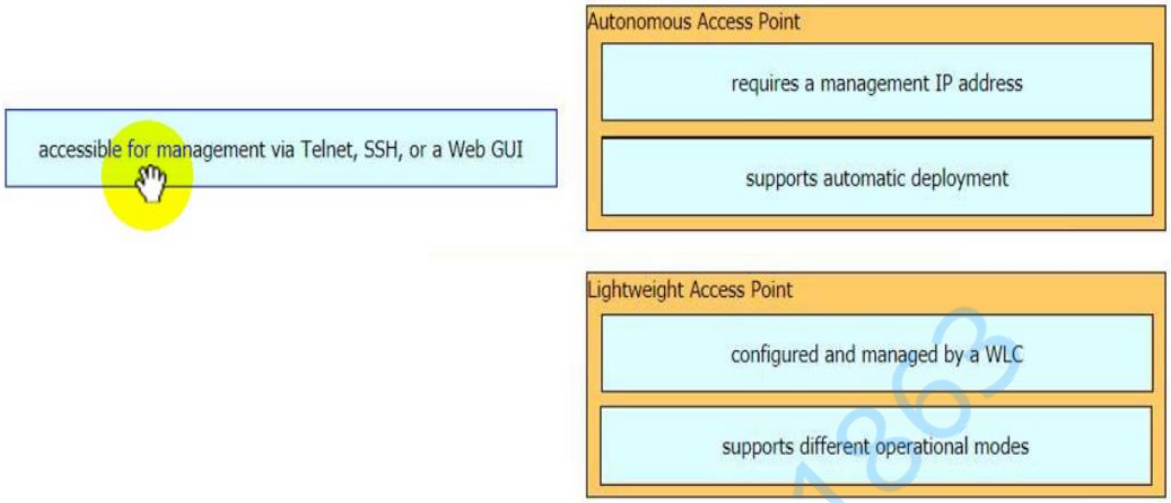
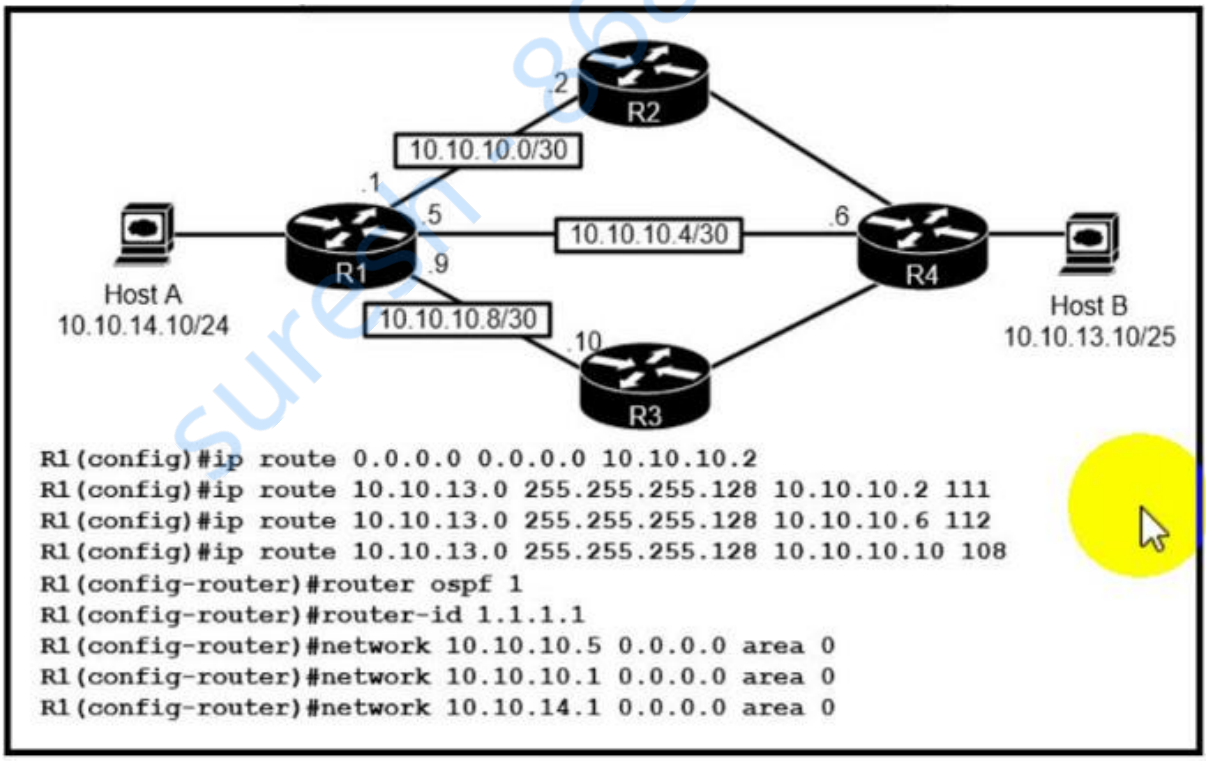
Q225.

Drag and drop the facts about wireless architectures from the left onto the types of access point on the right. Not all options are used.



Q226.



Refer to the exhibit. R1 has just received a packet from host A that is destined to host B. Which route in the routing table is used by R1 to reach host B?

A. 10.10.13.0/25 [1/0] via 10.10.10.2

B. 10.10.13.0/25 [110/2] Via 10.10.10.6

C. 10.10.13.0/25 [108/0] Via 10.10.10.10
D. 10.10.13.0/25 [110/2] via 10.10.10.2

Q227.

How does authentication differ from authorization?
A. Authentication is used to verify a person's identity, and authorization is used to create syslog messages for logins.
B. Authentication is used to record what resource a user accesses, and authorization is used to determine what resources a user can access.
C. Authentication verifies the identity of a person Recessing a network, and authorization determines what resource a user can access.
D. Authentication is used to determine what resources a user is allowed to access, and authorization is used to track what equipment is allowed access to the network.

Q228.

Which two REST API status-code classes represent errors? (Choose two.)
A. 1XX
B. 2XX
C. 3XX
D. 4XX
E. 5XX

Q229.

What is the effect when loopback interfaces and the configured router ID are absent during the OSPF Process configuration?
A. The lowest IP address is incremented by 1 and selected as the router ID.
B. The highest up/up physical interface IP address is selected as the router ID.
C. No router ID is set, and the OSPF protocol does not run.
D. The router ID 0.0.0.0 is selected and placed in the OSPF process.

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Q230.

Drag and drop the AAA terms from the left onto the descriptions on the right.

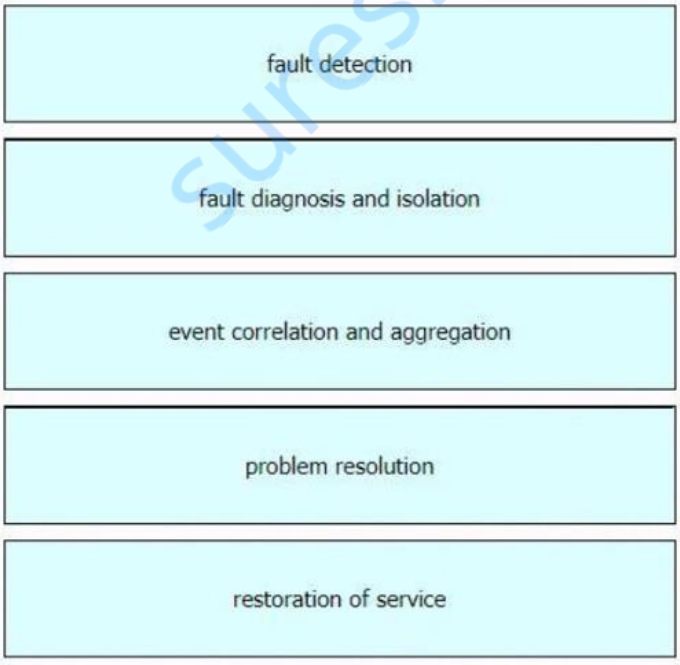
Q231.

Which management security process is invoked when a user logs in to a network device using their username and password?

A. authorization
B. authentication
C. accounting
D. auditing

Q232.

Drag and drop the functions of SNMP fault-management from the left onto the definitions on the right.



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Q233.

A network analyst is tasked with configuring the date and time on a router using EXEC mode. The date must be set to January 1, 2020 and the time must be set to 12:00 am.

A. clock set
B. clock timezone
C. clock summer-time date
D. clock summer-time recurring

Q234.

Which interface mode must be configured to connect the lightweight APs in a centralized architecture?

A. management
B. access
C. trunk
D. WLAN dynamic

Q235.

```
R1#sho ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route
       o - ODR, P - periodic downloaded static route, H - NHRP, l - LISP
       + - replicated route, % - next hop override

Gateway of last resort is 10.56.0.1 to network 0.0.0.0

S*    0.0.0.0/0 [1/0] via 10.56.0.1
      10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C        10.56.0.0/17 is directly connected, Vlan56
L        10.56.0.19/32 is directly connected, Vlan56
C        10.56.128.0/18 is directly connected, Vlan57
L        10.56.128.19/32 is directly connected, Vlan57
```

Refer to the exhibit. When router R1 is sending traffic to IP address 10.56.192.1, which interface or next hop address does it use to route the packet?

A. 0.0.0.0/0
B. Vlan57
C. 10.56.128.19
D. 10.56.0.1

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Q236.

What is an expected outcome when network management automation is deployed?

A. Software upgrades are performed from a central controller.
B. Complexity increases when new device configurations are added.
C. A distributed management plane must be used.
D. Custom applications are needed to configure network devices.

Q237.

How do TCP and UDP differ in the way they guarantee packet delivery?

A. TCP uses checksum, acknowledgements, and retransmissions, and UDP uses checksums only.
B. TCP uses retransmissions, acknowledgement, and parity checks, and UDP uses cyclic redundancy checks only.
C. TCP uses checksum, parity checks, and retransmissions, and UDP uses acknowledgements only.
D. TCP uses two-dimensional parity checks, checksums, and cyclic redundancy checks, and UDP uses retransmissions only.

Q238.

```
R1# show ip route | begin gateway
Gateway of last resort is not set
     172.16.0.0/16 is variably subnetted, 3 subnets, 2 masks
C    172.16.1.0/24 is directly connected, FastEthernet0/0
L    172.16.1.1/32 is directly connected, FastEthernet0/0
EX   172.16.2.0/24 [170/2] via 207.165.200.250, 00:00:25, Serial0/0/0
O    192.168.1.0/24 [110/84437] via 207.165.200.254, 00:00:17, Serial0/0/1
D    192.168.2.0/24 [90/184437] via 207.165.200.254, 00:00:15, Serial0/0/1
E1   192.168.3.0/24 [110/1851437] via 207.165.200.254, 00:00:19, Serial0/0/1
     207.165.200.0/24 is variably subnetted, 4 subnets, 2 masks
C    207.165.200.248/30 is directly connected, Serial0/0/0
L    207.165.200.249/32 is directly connected, Serial0/0/0
C    207.165.200.252/30 is directly connected, Serial0/0/1
L    207.165.200.253/32 is directly connected, Serial0/0/1
```

Refer to the exhibit. Which prefix did router R1 learn from internal EIGRP?

A. 192.168.3.0/24
B. 192.168.2.0424
C. 172.16.1.0/24
D. 192.168.1.0/24

Q239.

While examining excessive traffic on the network, it is noted that all incoming packets on an interface appear to be allowed even though an IPv4 ACL is applied to the interface. Which two
(Choose two.)
A. A matching **permit** statement is too high in the access list.
B. A matching **deny** statement is too high in the access list.
C. A matching **permit** statement is too broadly defined.
D. The packets fail to match any **permit** statement.
E. The ACL is empty.

Q240.

R1 has learned route 192.168.12.0/24 via IS-IS, OSPF, RIP, and Internal EIGRP. Under normal operating conditions, which routing protocol is installed in the routing table?
A. IS-IS
B. OSPF
C. Internal EIGRP
D. RIP

Q241.

Which QoS forwarding per-hop behavior changes a specific value in a Jacket header to set the class of service for the packet?
A. classification
B. policing
C. marking
D. shaping

Q242.

Which switching concept is used to create separate broadcast domains?
A. STP
B. VTP
C. VLAN
D. CSMA/CD

Q243.

Which protocol requires authentication to transfer a backup configuration file from a router to a remote server"
A. TFTP

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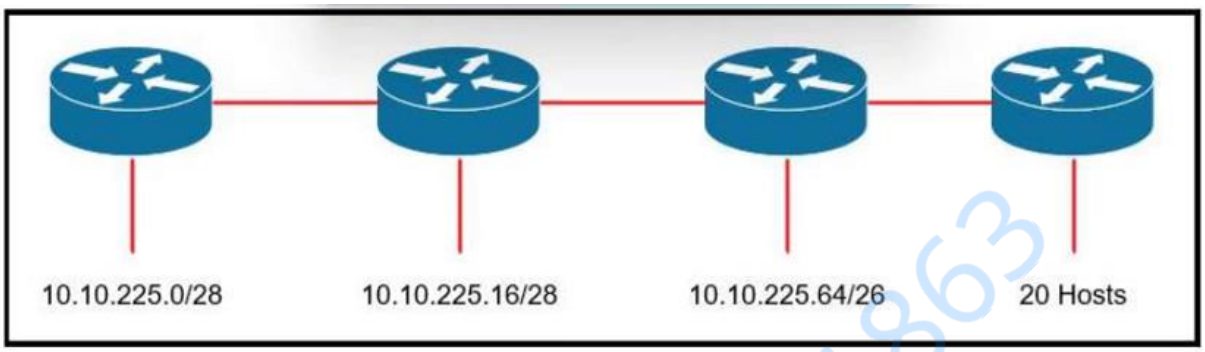
B. DTP
C. SMTP
D. FTP

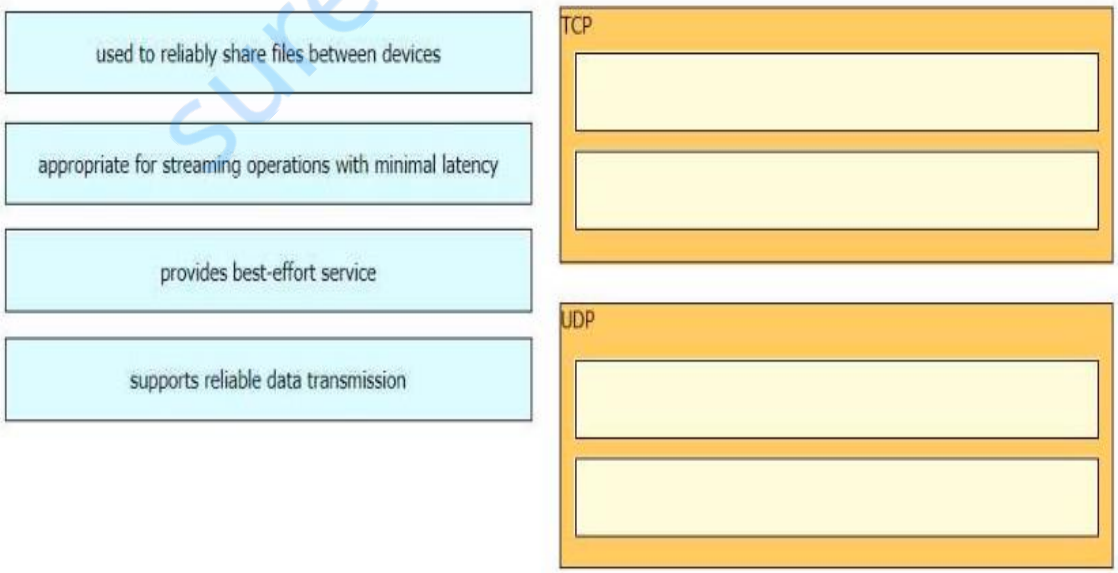
Q244.



Refer to the exhibit An engineer must add a subnet for a new office that will add 20 users to the network Which IPv4 network and subnet mask combination does the engineer assign to minimize wasting addresses?
A. 10 10.225 48 255.255.255 240
B. 10 10.225 32 255 255.255 240
C. 10.10.225 48 255 255.255 224
D. 10 10.225 32 255.255.255 224

Q245.

Drag and drop the TCP or UDP details from the left onto their corresponding protocols on the right



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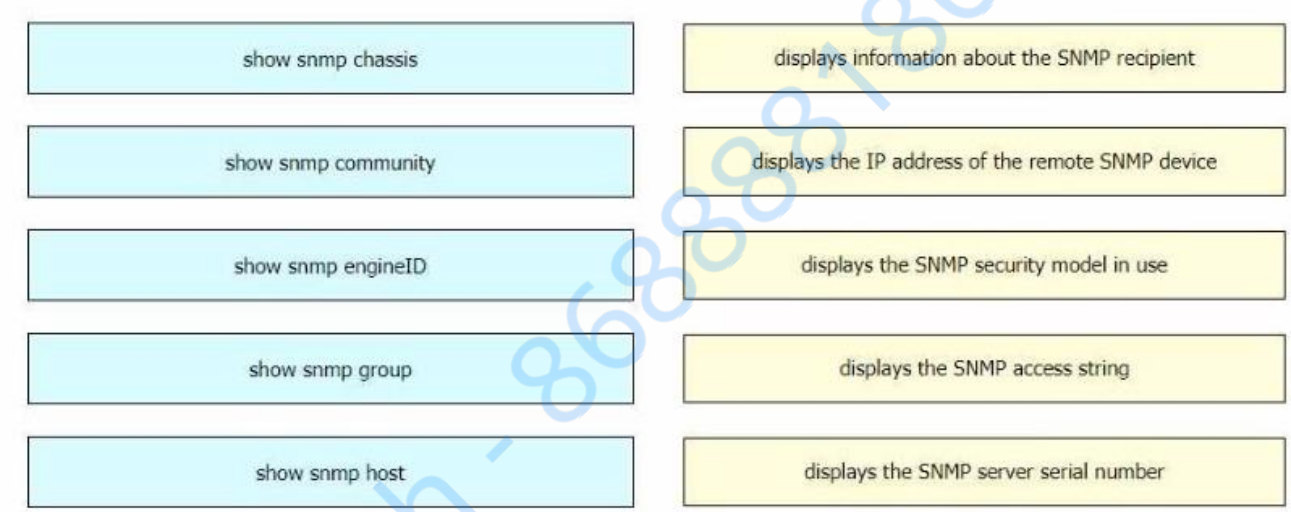
Q246.

Which role does a hypervisor provide for each virtual machine in server virtualization?

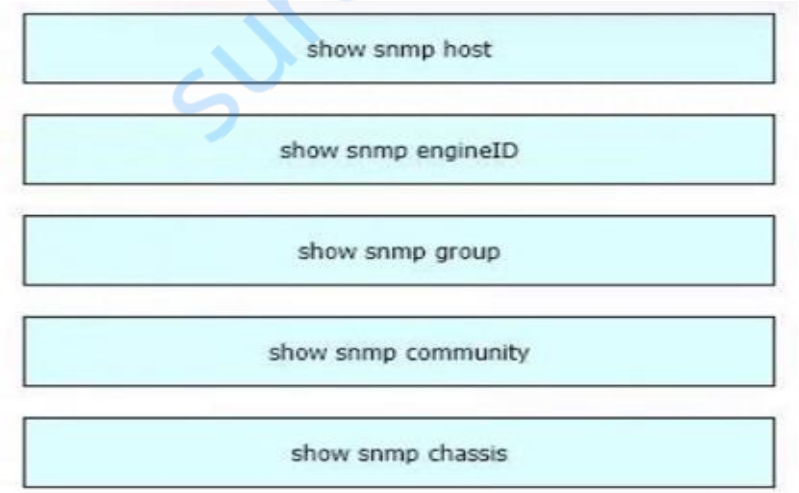
A. services as a hardware controller
B. software-as-a-service
C. control and distribution of physical resources
D. infrastructure-as-a-service

Q247.

Drag and drop the SNMP manager and agent identifier commands from the left onto the functions on the right.



ANSWER:



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Q248.

Which security program element involves installing badge readers on data-center doors to allow workers to enter and exit based on their job roles?

A. physical access control
B. multifactor authentication
C. biometrics
D. role-based access control

Q249.

Which level of seventy must be set to get informational syslogs?

A. alert
B. critical
C. notice
D. debug

Q250.

Drag and drop the statements about access-point modes from the left onto the corresponding modes on the right

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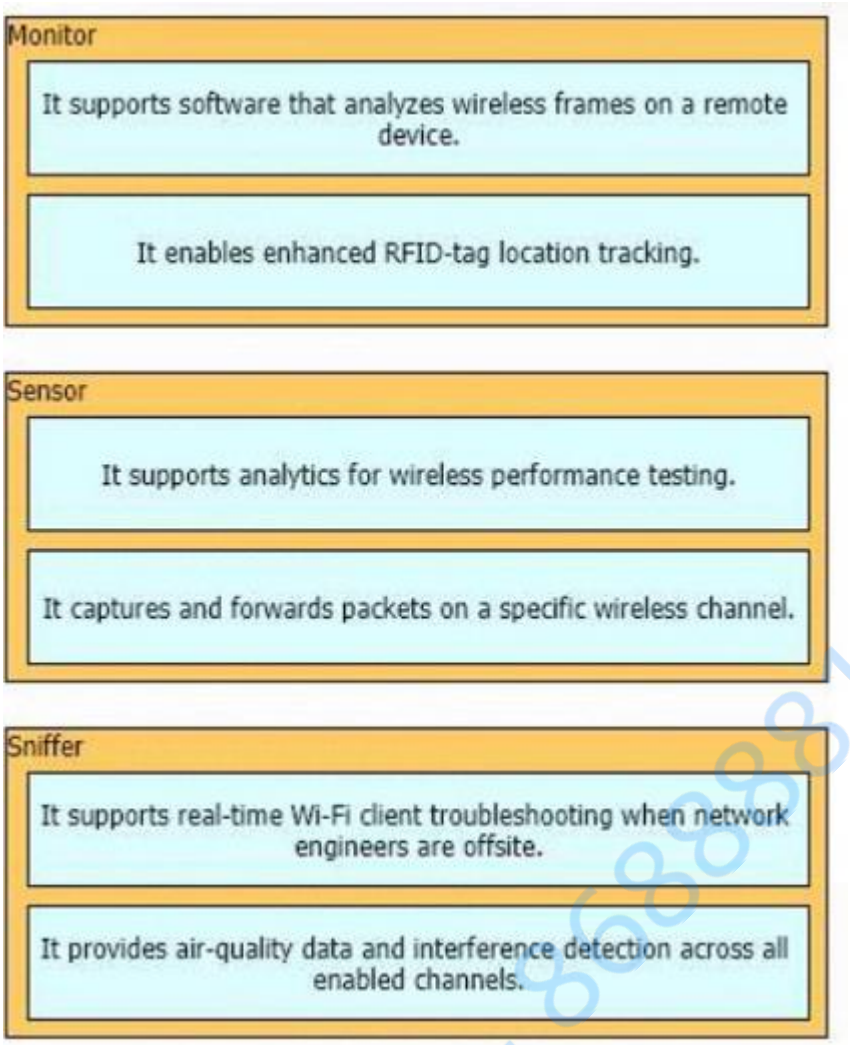

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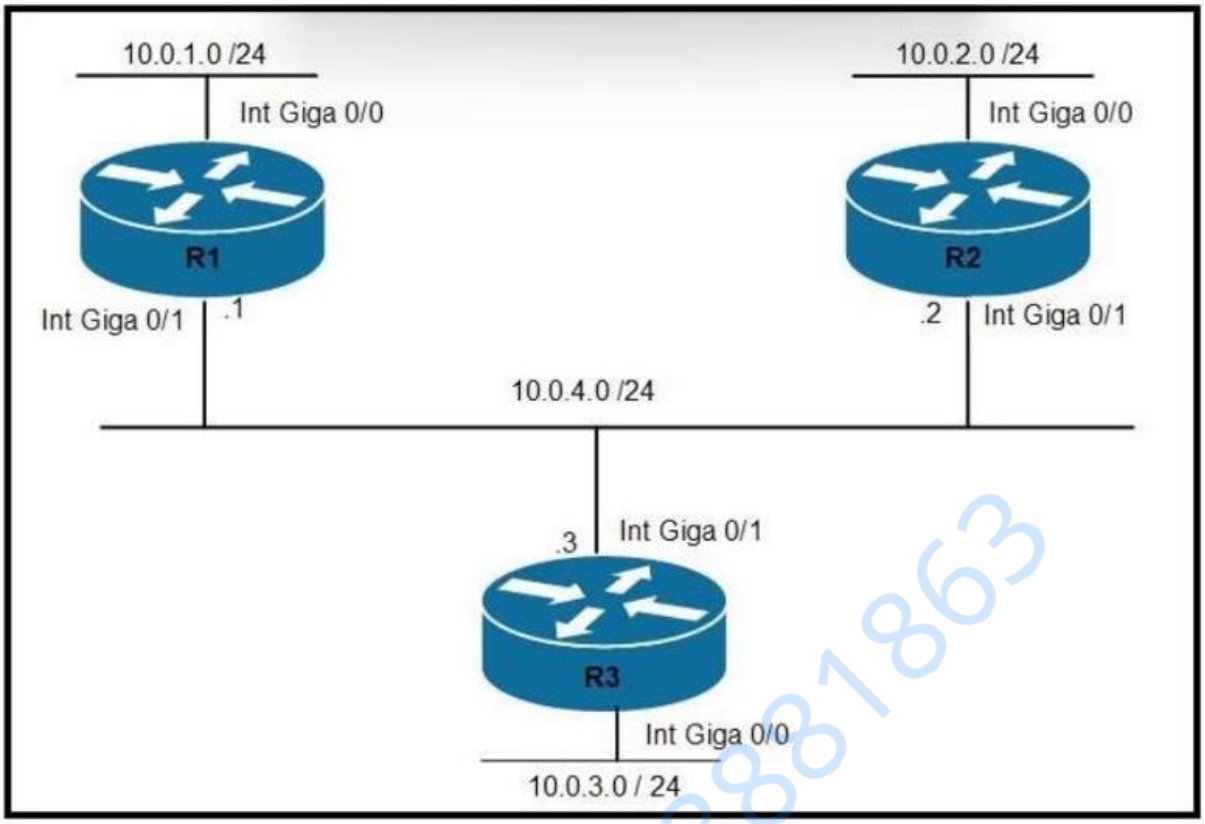
Q251.

Which QoS queuing method discards or marks packets that exceed the desired bit rate of traffic flow?

A. CBWFQ [\.
B. policing
C. LLQ
D. shaping

Q252.



Refer to the exhibit Router R1 must be configured to reach the 10.0.3.0/24 network from the 10.0.1.0/24 segment. Which command must be used to configure the route?

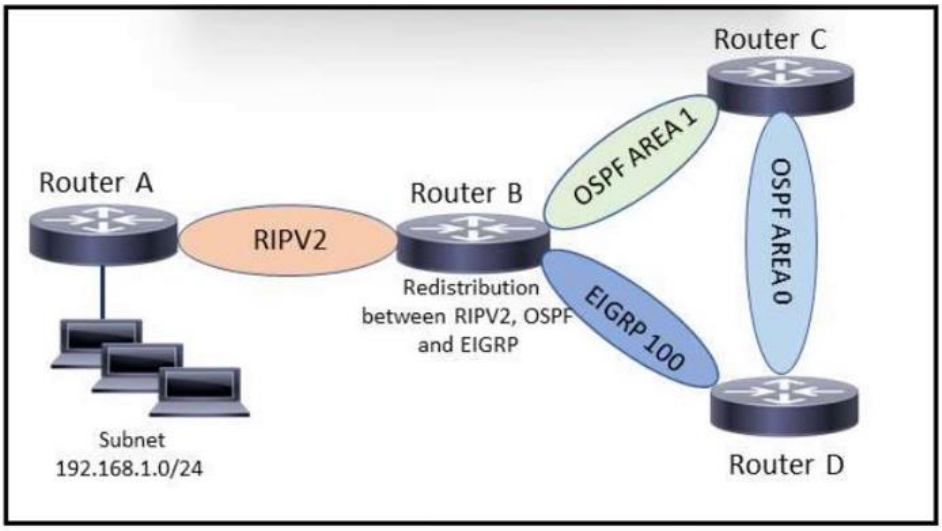
A. route add 10.0.3.0 0.255.255.255 10.0.4.2
B. ip route 10.0.3.0 0.255.255.255 10.0.4.2
C. route add 10.0.3.0 mask 255.255.255.0 10.0.4.3
D. ip route 10.0.3.0 255.255.255.0 10.0.4.3

Q253.

Which type of address is shared by routers in a HSRP implementation and used by hosts on the subnet as their default gateway address"

A. multicast address
B. virtual IP address
C. loopback IP address
D. broadcast address

Q254.



Refer to the exhibit When an administrator executes the show ip route command on router D to view its routing table, which value is displayed for the administrative distance for the route to network 192.168 1.0?

A. 110
B. 120
C. 170
D. 90

Q255.

An engineer is configuring SSH version 2 exclusively on the R1 router. What is the minimum configuration required to permit remote management using the cryptographic protocol?

A.

```
hostname R1
service password-encryption
crypto key generate rsa general-keys modulus 1024
username cisco privilege 15 password 0 cisco123
ip ssh version 2
line vty 0 15
 transport input ssh
 login local
```

B.

```
hostname R1
ip domain name cisco
crypto key generate rsa general-keys modulus 1024
username cisco privilege 15 password 0 cisco123
ip ssh version 2
line vty 0 15
 transport input ssh
 login local
```

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C.

```
hostname R1

crypto key generate rsa general-keys modulus 1024

username cisco privilege 15 password 0 cisco123

ip ssh version 2

line vty 0 15
 transport input all
 login local
```

D.

```
hostname R1

ip domain name cisco

crypto key generate rsa general-keys modulus 1024

username cisco privilege 15 password 0 cisco123

ip ssh version 2

line vty 0 15
 transport input all
 login local
```

Q256.

An engineer is configuring router R1 with an IPv6 static route for prefix 2019 C15C0CAF E001 : 64 The next hop must be 2019:C15C:0CAF:E002 1 The route must be reachable via the R1 Gigabit 0/0 interface Which command configures the designated route?

A. R1 (config-if)#ip route 2019:C15C:0CAF:E001::/64 GigabitEthernet 0/0
B. R1 (config-if)#ipv6 route 2019:C15C:0CAF:E001::/64 2019:C15C:0CAF:E002::1
C. R1(config)#ipv6 route 2019:C15C:0CAF:E001::/64 2019:C15C:0CAF:E002::1
D. R1(config)#ip route 2019:C15C:0CAF:E001::/64 GigabitEthernet 0/0

Q257.

What is a zero-day exploit?

A. It is when the network is saturated with malicious traffic that overloads resources and bandwidth.
B. It is when an attacker inserts malicious code into a SQL server.
C. It is when a new network vulnerability is discovered before a fix is available.
D. It is when the perpetrator inserts itself in a conversation between two parties and captures or alters data

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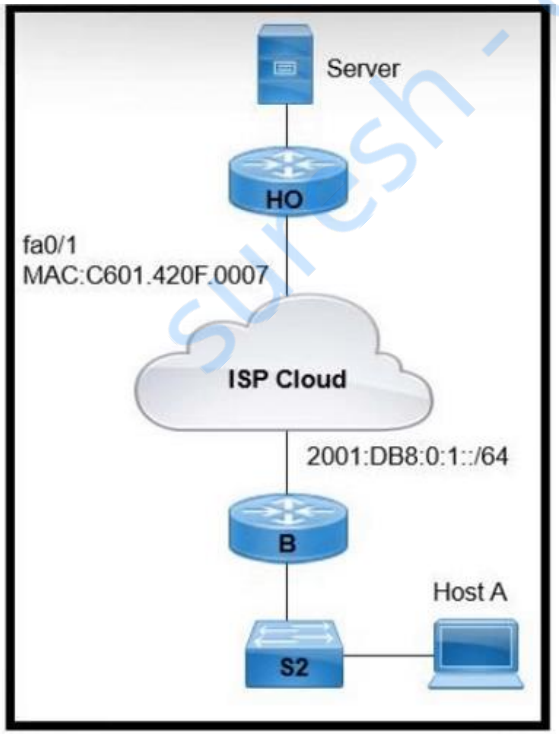
Q258.

An engineer is configuring an encrypted password for the enable command on a router where the local user database has already been configured Drag and drop the configuration commands from the left into the correct sequence on the right Not all commands are used

Q259.



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Refer to the exhibit An engineer is configuring the HO router Which IPv6 address configuration must be applied to the router fa0/1 interface for the router to assign a unique 64-bit IPv6 address to itself?

A. ipv6 address 2001:DB8:0:1:C601:42FF:FE0F:7/64
B. ipv6 address 2001:DB8:0:1:FFFF:C601:420F:7/64
C. ipv6 address 2001:DB8:0:1:C601:42FE:800F:7/64
D. ipv6 address 2001:DB8:0:1:FE80:C601:420F:7/64

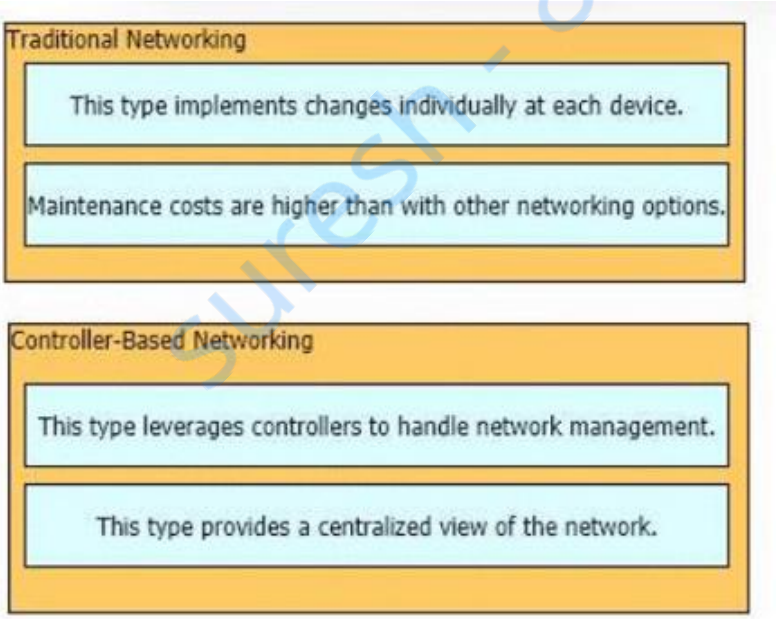
Q260.

What is the benefit of configuring PortFast on an interface?

A. Real-time voice and video frames entering the interface are processed faster
B. After the cable is connected, the interface is available faster to send and receive user data.
C. The frames entering the interface are marked with higher priority and then processed faster by a switch
D. After the cable is connected the interface uses the fastest speed setting available for that cable type

Q261.

Drag and drop the statements about networking from the left onto the corresponding networking types on the right.



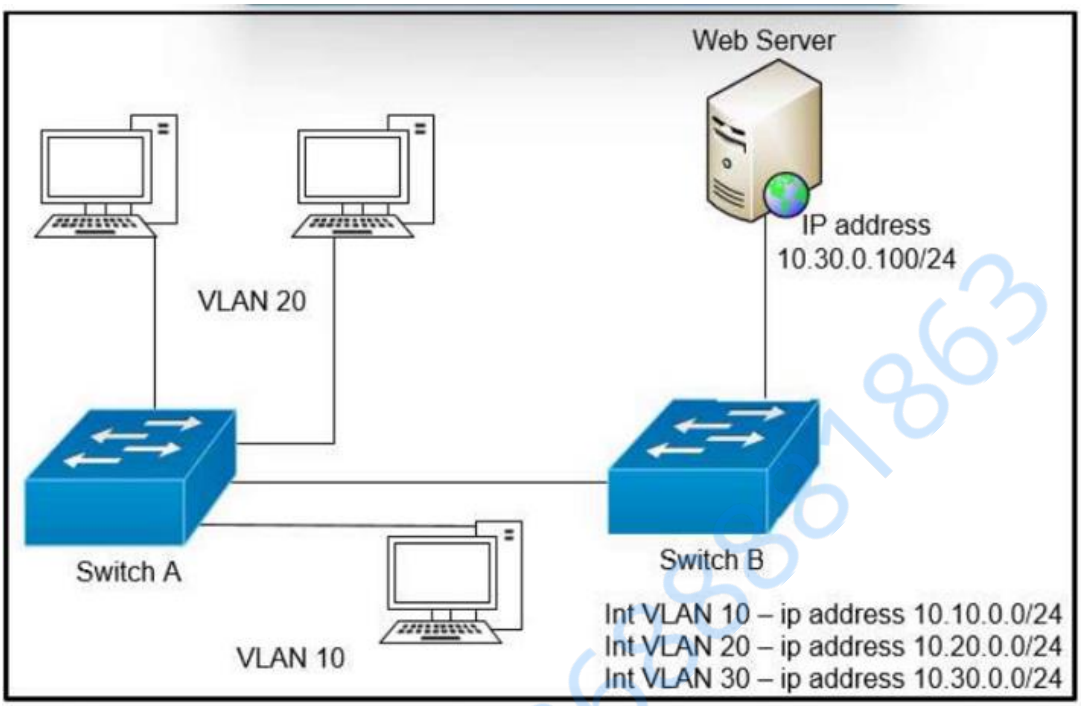
Q262.

What is the collapsed layer in collapsed core architectures?

A. Bycore and distribution

B. access and WAN
C. distribution and access
D. core and WAN

Q263.



Refer to the exhibit A network engineer must block access for all computers on VLAN 20 to the web server via HTTP All other computers must be able to access the web server Which configuration when applied to switch A accomplishes this task?

A.

```
config t
ip access-list extended wwwblock
deny tcp any host 10.30.0.100 eq 80
int vlan 10
ip access-group wwwblock in
```

B.

```
config t
ip access-list extended wwwblock
permit ip any any
deny tcp any host 10.30.0.100 eq 80
int vlan 30
ip access-group wwwblock in
```

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C.

```
config t
ip access-list extended wwwblock
permit ip any any
deny tcp any host 10.30.0.100 eq 80
```

D.

```
config t
ip access-list extended wwwblock
deny tcp any host 10.30.0.100 eq 80
permit ip any any
int vlan 20
ip access-group wwwblock in
```

Q264.

What is a characteristic of a SOHO network"

A. includes at least three tiers of devices to provide load balancing and redundancy
B. connects each switch to every other switch in the network
C. enables multiple users to share a single broadband connection
D. provides high throughput access for 1000 or more users

Q265.

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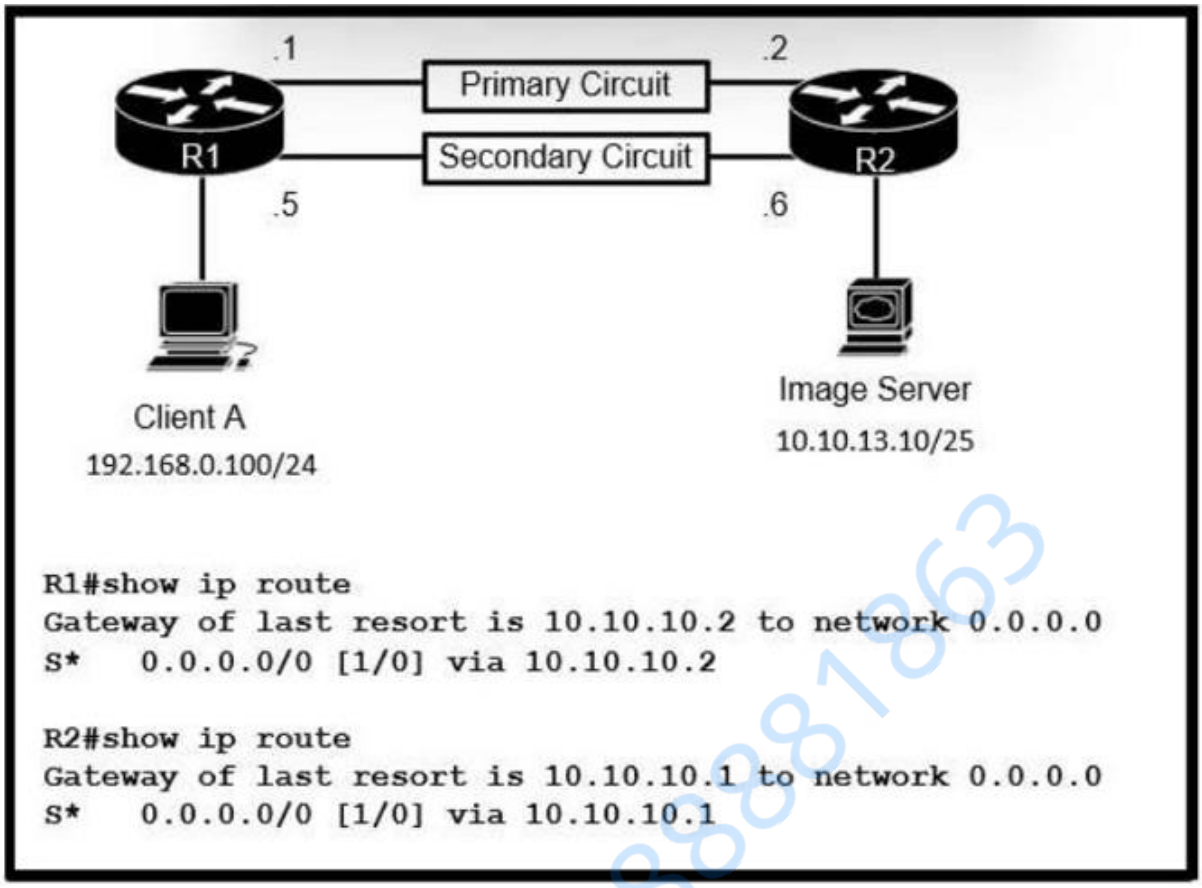


Refer to the exhibit Routers R1 and R2 have been configured with their respective LAN interfaces. The two circuits are operational and reachable across WAN Which command set establishes failover redundancy if the primary circuit goes down?
Refer to the exhibit Routers R1 and R2 have been configured with their respective LAN interfaces. The two circuits are operational and reachable across WAN Which command set establishes failover redundancy if the primary circuit goes down?

A. §jR1(config)#ip route 0.0.0.0 0.0.0.0 10.10.10.6
R2(config)#ip route 0.0.0.0 0.0.0.0 10.10.10.5
B. R1(config)#ip route 10.10.13.10 255.255.255.255 10.10.10.2
R2(config)#ip route 192.168.0.100 255.255.255.255 10.10.10,1
C. R1 (config)#ip route 10.10.13.10 255.255.255.255 10.10.10.6
R2(config)#ip route 192.168.0.100 255.255.255.255 10.10.10.5
D. R1 (config)#ip route 0.0.0.0 0.0.0.0 10.10.10.6 2
R2(config)#ip route 0.0.0.0 0.0.0.0 10.10.10.5 2

Q266.

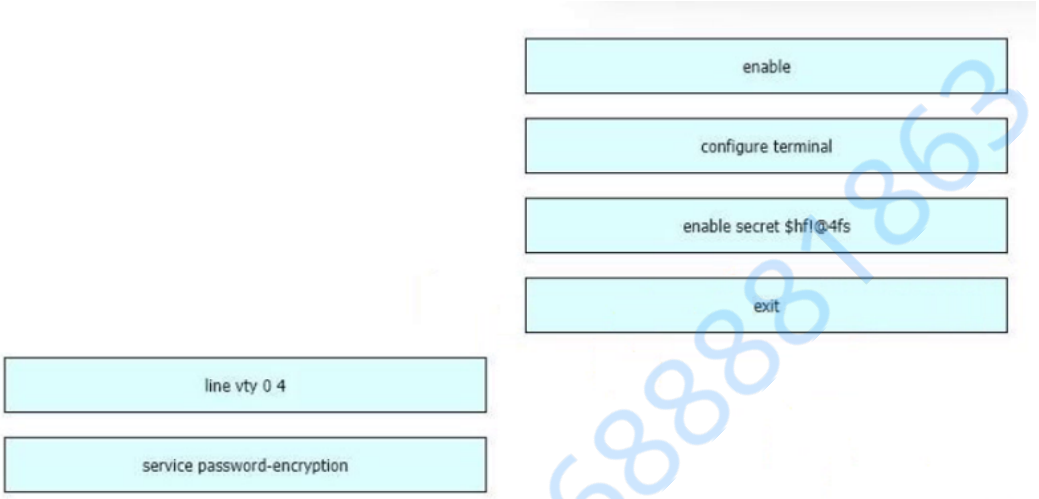
Which software-defined architecture plane assists network devices with making packet-forwarding decisions by providing Layer 2 reachability and Layer 3 routing information?

A. control plane
B. data plane

C. management plane
D. policy plane

Q267.

An engineer is tasked to configure a switch with port security to ensure devices that toward unicasts, multicasts, and broadcasts are unable to flood the port The port must be configured to permit only two random MAC addresses at a time Drag and drop the required configuration commands from the left onto the sequence on the right. Not all commands are used.



Q268.

In which two ways does a password manager reduce the chance of a hacker stealing a user's password? (Choose two)

A. It encourages users to create stronger passwords.
B. It uses an internal firewall to protect the password repository from unauthorized access.
C. It stores the password repository on the local workstation with built-in antivirus and anti-malware functionality
D. It protects against keystroke logging on a compromised device or web site
E. It automatically provides a second authentication factor that is unknown to the original user.

Q269.

An engineer is tasked to configure a switch with port security to ensure devices that forward unicasts, multicasts, and broadcasts are unable to flood the port The port must be configured to permit only two random MAC addresses at a time Drag and drop the required configuration commands from the left onto the sequence on the right. Not all commands are used.

Q270.

What are two characteristics of a controller-based network? (Choose two.)
It uses Telnet to report system issues

A. it moves the control plane to a central point.
B. It uses northbound and southbound APIs to communicate between architectural layers
C. It decentralizes the control plane, which allows each device to make its own forwarding decisions.
D. The administrator can make configuration updates from the CLI.

Q271.

What is the role of disaggregation in controller-based networking?

A. it divides the control-plane and data-plane functions.
B. It streamlines traffic handling by assigning individual devices to perform either Layer 2 or Layer 3 functions
C. It summarizes the routes between the core and distribution layers of the network topology
D. It enables a network topology to quickly adjust from a ring network to a star network

Q272.

How will Link Aggregation be implemented on a Cisco Wireless LAN Controller?

A. One functional physical port is needed to pass client traffic.
B. To pass client traffic, two or more ports must be configured.
C. The EtherChannel must be configured in "mode active".
D. When enabled, the WLC bandwidth drops to 500 Mbps

Q273.

On workstations running Microsoft Windows, which protocol provides the default gateway for the device?

A. STP
B. SNMP
C. DHCP
D. DNS

Q274.

A network administrator enabled port security on a switch interface connected to a printer What is the next configuration action in order to allow the port to learn the MAC address of the printer and insert it into the table automatically?

A. enable dynamic MAC address learning
B. implement static MAC addressing
C. enable sticky MAC addressing
D. implement auto MAC address learning

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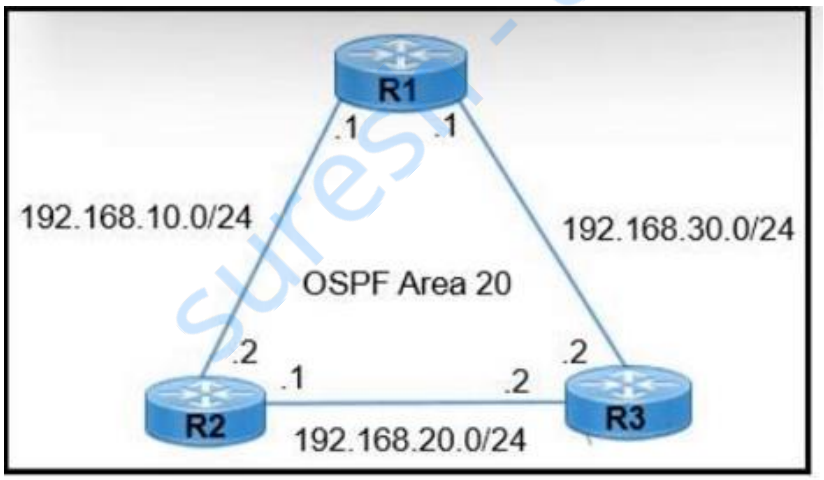
Q275.



Refer to the exhibit. R1 learns all routes via OSPF. Which command configures a backup static route on R1 to reach the 192 168.20 0/24 network via R3?

A. R1(config)#ip route 192.168.20.0 255.255.255.0 192.168.30.2 111
B. R1 (config)#ip route 192.168.20.0 255.255.255.0 192.168.30.2 90
C. R1 (config)#ip route 192.168.20.0 255.255.0.0 192.168.30.2
D. R1 (config)#ip route 192.168.20.0 255.255.255.0 192.168.30.2

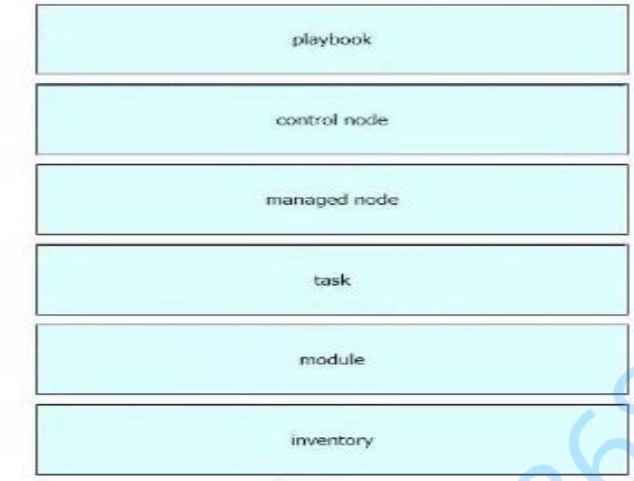
Q276.

What is a function of a southbound API?

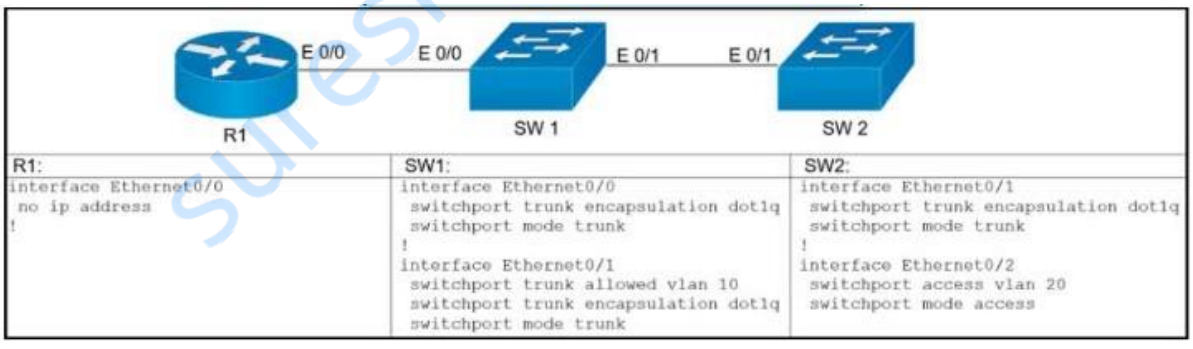
A. Use orchestration to provision a virtual server configuration from a web server.
B. Automate configuration changes between a server and a switching fabric.
C. Manage flow control between an SDN controller and a switching fabric.
D. Facilitate the information exchange between an SDN controller and application.

Q277.

Drag and drop the Ansible terms from the left onto the right.



Q278.



Refer to the exhibit. Which commands are needed to add a sub-interface to Ethernet0/0 on R1 to allow for VLAN 20, with IP address 10.20.20.1/24?

A. R1(config)#lnterface ethernet0/0
R1 (config)#encapsulation dot1q 20
R1(config-if)«ip address 10.20.20.1 255.255.255.0
B. R1(config)#interface ethernet0/0.20
R1(config-if)#encapsulation dot1q 20

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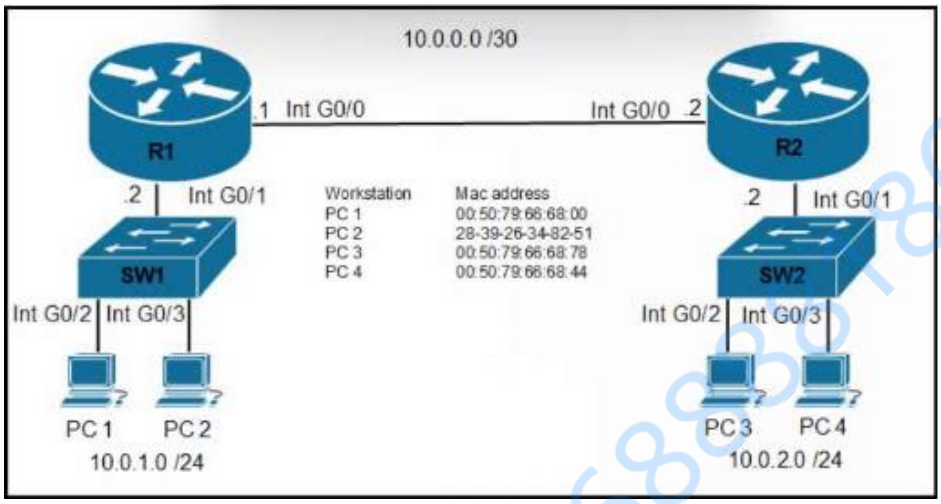
R1(config-If)#Ip address 10.20.20.1 255.255.255.0

C. R1(config)#interface ethernet0/0.20
R1(config-if)#ip address 10.20.20.1 255.255.255.0

D. R1 (config)#interface ethernetO/O
R1(config-If)#Ip address 10.20.20.1 255.255.255.0

Q279.



Refer to the exhibit. An engineer must configure the interface that connects to PC1 and secure it in a way that only PC1 is allowed to use the port. No VLAN tagging can be used except for a voice VLAN. Which command sequence must be entered to configure the switch?

A.
```
SW1(config-if)#switchport mode dynamic auto
SW1(config-if)#switchport port-security
SW1(config-if)#switchport port-security violation restrict
```

B.
```
SW1(config-if)#switchport mode nonegotiate
SW1(config-if)#switchport port-security
SW1(config-if)#switchport port-security maximum 1
```

C.
```
SW1(config-if)#switchport mode access
SW1(config-if)#switchport port-security
SW1(config-if)#switchport port-security mac-address 0050.7966.6800
```

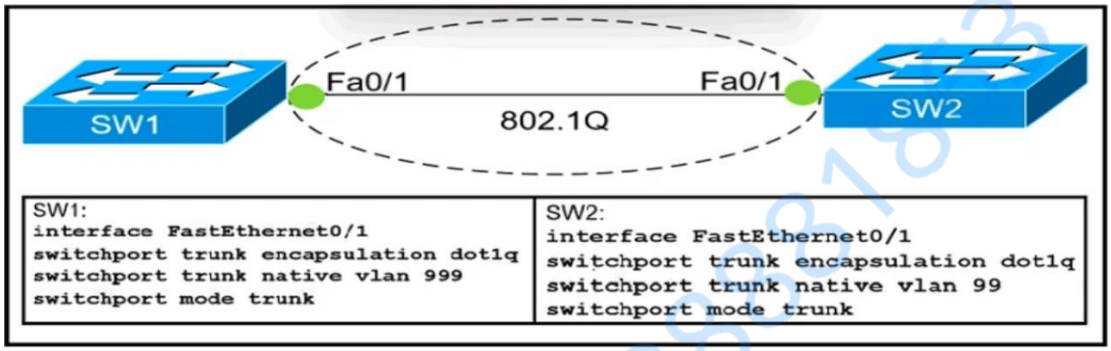
D.
```
SW1(config-if)#switchport mode dynamic desirable
SW1(config-if)#switchport port-security mac-address 0050.7966.6800
SW1(config-if)#switchport port-security mac-address sticky
```

Q280.

What is a function performed by a web server?

A. send and retrieve email from client devices
B. securely store files for FTP access
C. authenticate and authorize a user's identity
D. provide an application that is transmitted over HTTP

Q281.



Refer to the exhibit. Which action do the switches take on the trunk link?

A. The trunk forms. but VLAN 99 and VLAN 999 are In a shutdown stale.
B. The trunk forms but the mismatched native VLANs are merged into a single broadcast domain
C. The trunk does not form, and the ports go into an err-disabled status
D. The trunk does not form, but VLAN 99 and VLAN 999 are allowed to traverse the link.

Q282.

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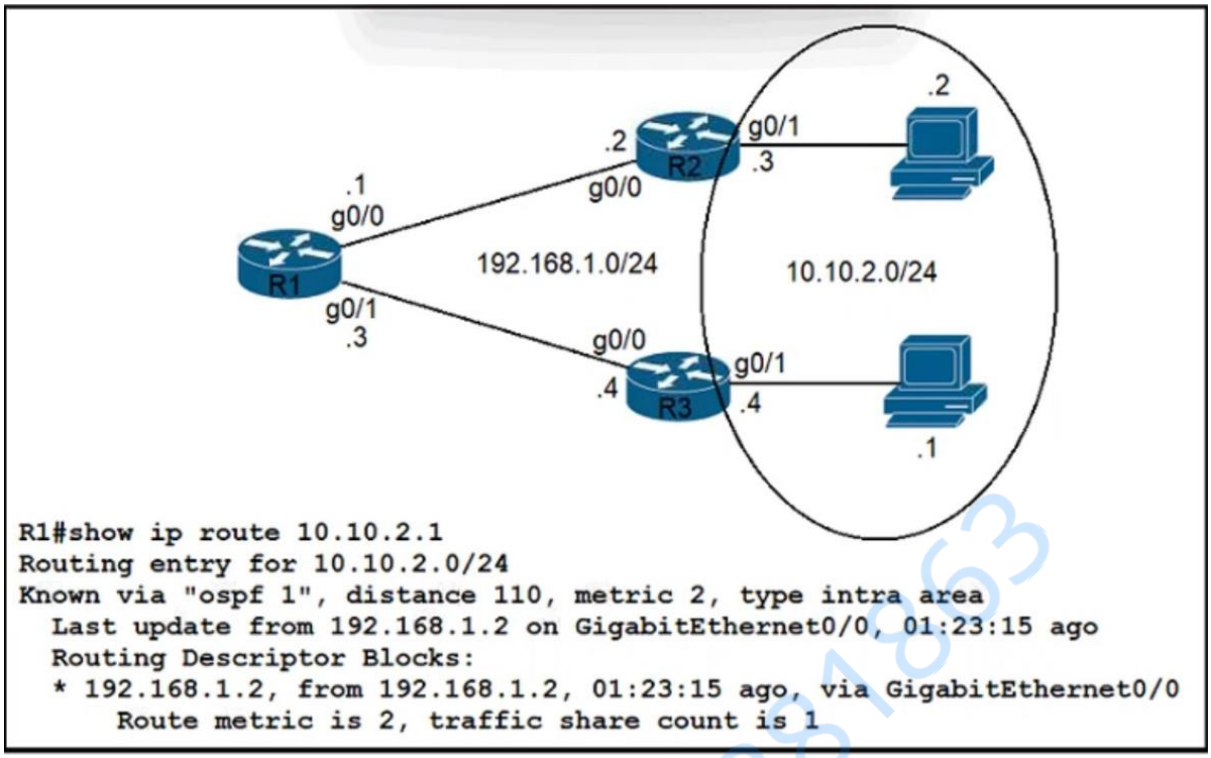


```
R1#show ip route 10.10.2.1
Routing entry for 10.10.2.0/24
Known via "ospf 1", distance 110, metric 2, type intra area
  Last update from 192.168.1.2 on GigabitEthernet0/0, 01:23:15 ago
  Routing Descriptor Blocks:
  * 192.168.1.2, from 192.168.1.2, 01:23:15 ago, via GigabitEthernet0/0
      Route metric is 2, traffic share count is 1
```

Refer 10 the exh1b1t Traffic from R1 to the 10 10 2 0/24 subnet uses 192 168.1 2 as its next hop. A networ1< engineer wants to update the R1 configuration so that traffic with destination 10.10 2.1 passes through router R3, and all other traffic to the 1010 2 0124 subnet passes through R2. which command must be used?

A. ip route 10.10.2.1 255.255.255.255 192.168.1.4115
B. ip route 10.10.2.0255.255.255.0 192.168.1.4115
C. Ip route 10.10.2.0 255.255.255.0 192.168.1.4100
D. ip route 10.10.2.1 255.255.255.255192.168.1.4100

Q283.

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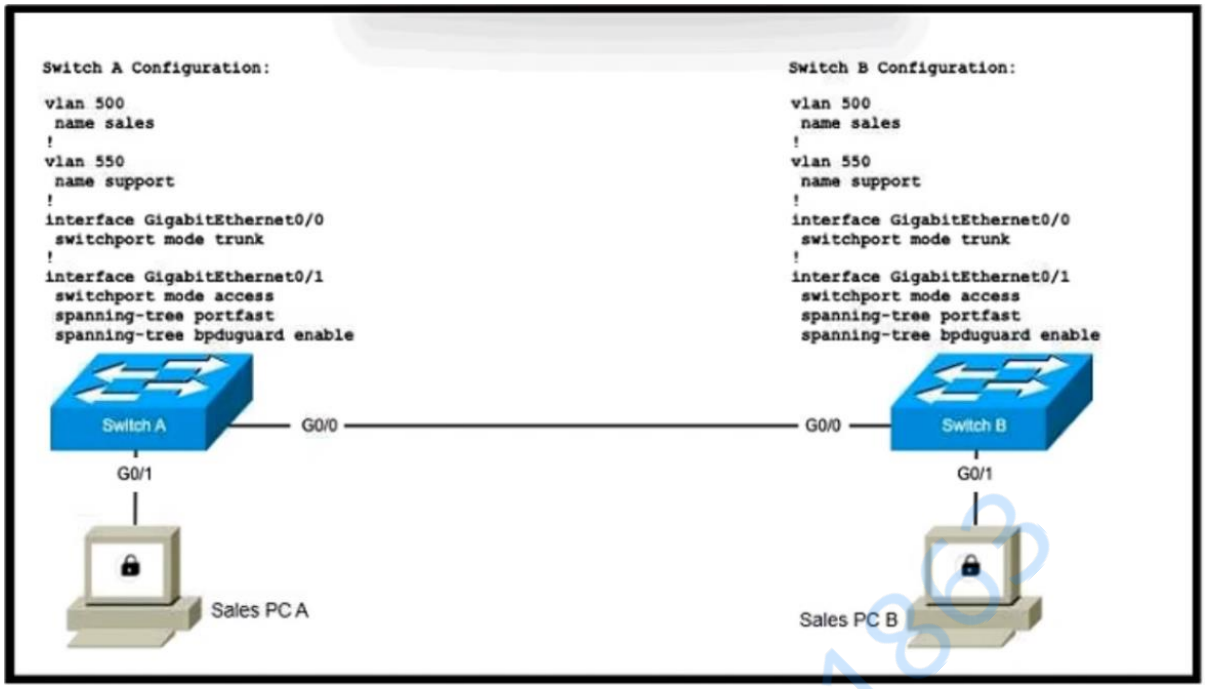

Refer to the exh1b1t. Two new switches are being installed. The remote monitoring team uses the support network to monitor both switches. Which configuration 1s the next step to establish a Layer 2 connection between the two PCs?

A.
```
SwitchA(config)#interface GigabitEthernet0/1
SwitchA(config-if)#switchport access vlan 500

SwitchB(config)#interface GigabitEthernet0/1
SwitchB(config-if)#switchport access vlan 500
```

B.
```
SwitchA(config)#interface GigabitEthernet0/1
SwitchA(config-if)#switchport mode trunk

SwitchB(config)#interface GigabitEthernet0/1
SwitchB(config-if)#switchport mode trunk
```

C.
```
SwitchA(config)#interface GigabitEthernet0/0
SwitchA(config-if)#switchport trunk allowed vlan 500, 550

SwitchB(config)#interface GigabitEthernet0/0
```

D.
```
SwitchA(config)#interface GigabitEthernet0/0          d vlan 500, 550
SwitchA(config-if)#spanning-tree portfast
SwitchA(config-if)#spanning-tree bpduguard enable

SwitchB(config)#interface GigabitEthernet0/0
SwitchB(config-if)#spanning-tree portfast
SwitchB(config-if)#spanning-tree bpduguard enable
```

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Q284.

What is the difference between AAA authentication and authorization?

A. Authentication identifies and verifies a user who is attempting to access a system. and authorization controls the tasks the user performs.
B. Authentication identifies a user who is attempting to access a system, and authorization validates the user's password
C. Authentication controls the system processes a user accesses, and authorization logs the activities the user ,initiates.
D. Authentication verifies a username and password, and authorization handles the communication between the authentication agent and the user database.

Q285.

```
C:\Users\ciscoadmin>ipconfig /all

Windows IP Configuration
   Host Name . . . . . . . . . . . . : DESKTOP-480J88T
   Primary Dns Suffix  . . . . . . . :
   Node Type . . . . . . . . . . . . : Hybrid
   IP Routing Enabled. . . . . . . . : No
   WINS Proxy Enabled. . . . . . . . : No
   DNS Suffix Search List. . . . . . : arcep.se

Ethernet adapter Ethernet:
   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  :
   Description . . . . . . . . . . . : Realtek PCIe GBE Family
Controller
   Physical Address. . . . . . . . . : 3C-52-82-33-F3-8F
   DHCP Enabled. . . . . . . . . . . : Yes
   Autoconfiguration Enabled . . . . : Yes

Wireless LAN adapter Wi-Fi:
   Connection-specific DNS Suffix  : arcep.se
   Description . . . . . . . . . . . : Intel(R) Dual Band
Wireless-AC 7265
   Physical Address. . . . . . . . . : C8-21-58-B4-F3-EF
   DHCP Enabled. . . . . . . . . . . : Yes
   Autoconfiguration Enabled . . . . : Yes
   Link-local IPv6 Address . . . . . : fe80::45a1:b3fa:2f37:bf37%2(Preferred)
   IPv4 Address. . . . . . . . . . . : 192.168.1.226(Preferred)
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Lease Obtained. . . . . . . . . . : October 3, 2019 12:28:08 PM
   Lease Expires . . . . . . . . . . : October 3, 2019 7:18:37 PM
   Default Gateway . . . . . . . . . : 192.168.1.100
   DHCP Server . . . . . . . . . . . : 192.168.1.254
   DHCPv6 IAID . . . . . . . . . . . : 46670168
   DHCPv6 Client DUID. . . . . . . . : 00-01-00-01-20-FF-05-55-3C-52-82-33-D3-84
   DNS Servers . . . . . . . . . . . : 192.168.1.253
   NetBIOS over Tcpip. . . . . . . . : Enabled
   Connection-specific DNS Suffix Search List :
                                       arcep.se
```

Refer to the exhibit. The given Windows PC is requesting the IP address of the host at www.cisco. Com. To which IP address is the request sent?

A. 192.168.1.226
B. 192 168 1 254
C. 192.168.1.100
D. 192 168.1.253

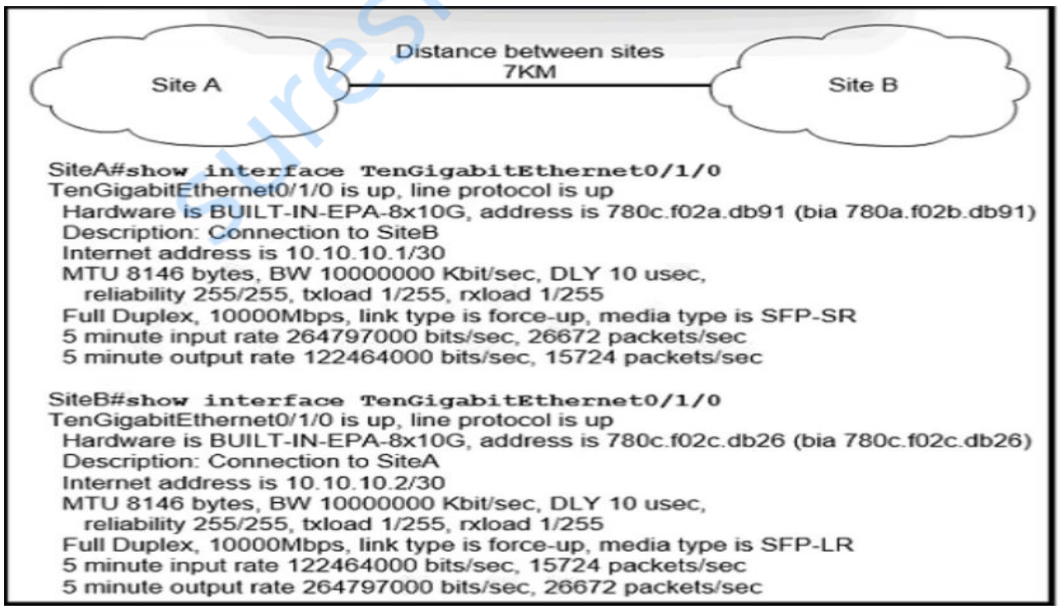
Q286.

An engineer is installing a new wireless printer ,with a static IP address on the Wi-Fi network Which feature must be enabled and configured to prevent connection issues with the printer?
A.static IP tunneling
B.DHCP address assignment
C.passive client
D.client exclusion

Q287.

Which protocol prompts the Wireless LAN Controller to generate its own local web administration SSL certificate for GUI access?
A.HTTP
B.TACACS+
C.HTTPS
D.RADIUS

Q288.



Refer to the exhibit. Site A was recently connected lo site B over a new single-mode fiber path. Users at site A report intermittent connectivity issues with

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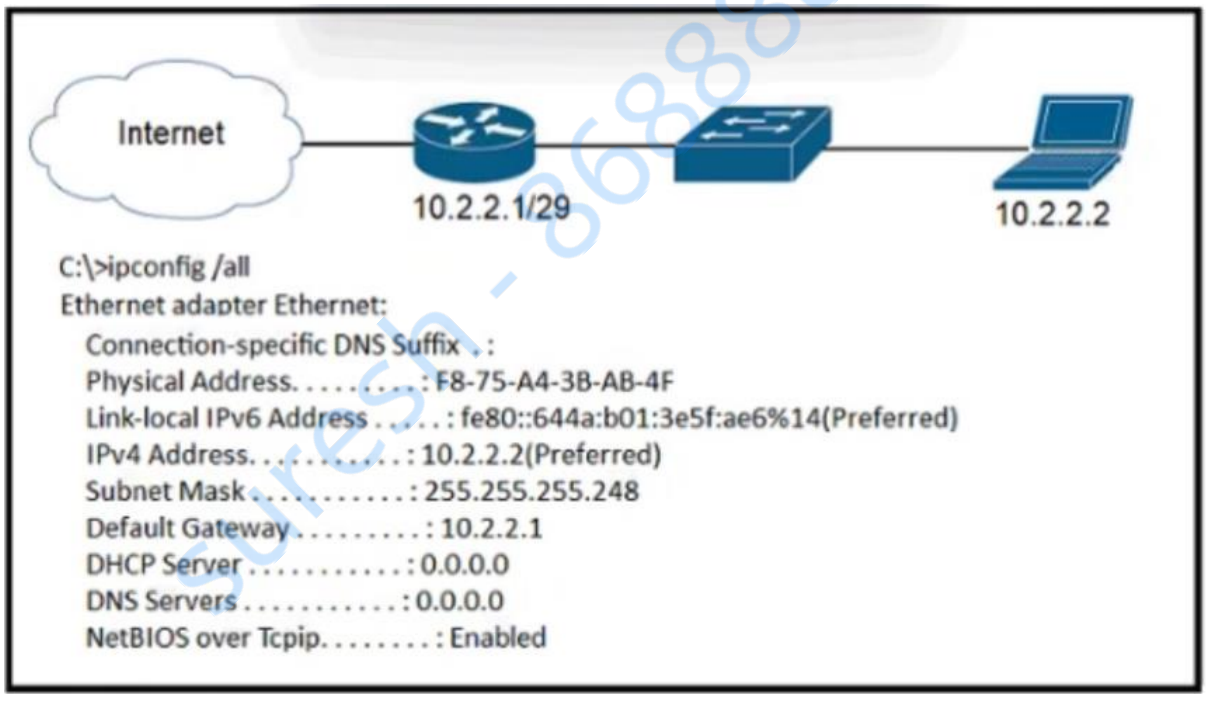
applications hosted at site B. What is the reason for the problem?
A. Physical network errors are being transmitted between the two sites.
B. Heavy usage is causing high latency.
C. The wrong cable type was used to make the connection
D. An incorrect type of transceiver has been inserted into a device on the link

Q289.

Which protocol uses the SSL?
A. SSH
B. HTTPS
C. HTTP
D. Telnet

Q290.



Refer to the exhibit. A newly configured PC fails to connect to the internet by using TCP port 80 to ,www. cisco. com .Which setting must be modified for the connection to work?
A. Subnet Mask
B. DNS Servers
C. Default Gateway
D. DHCP S4ifWrs

Q291.

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When a LAN with WPA2. PSK is configured in the Wireless LAN Controller GUI which format is supported?
A. unicode
B. decimal
C. ASCII
D. base64

Q292.

A network engineer is replacing the switches that belong to a managed-services client with new Cisco Catalyst switches The new switches will be configured for updated security standards including
replacing Telnet services with encrypted connections and doubling the modulus size from 102-1. Which two commands must the engineer configure on the new switches'? (Choose two)
A. transport input ssh
B. transport input all
C. crypto key generate rsa modulus 2048
D. crypto key generate rsa general-keys modulus 1024
E. crypto key generate rsa usage-keys

Q293.

Which protocol must be implemented to support separate authorization and authentication solutions for wireless APs?
A. RADIUS
B. TACAC5+
C. 802.IX
D. Kerberos

Q294.

Which script paradigm does Puppet use?
A. recipes and cookbooks
B. playbooks and roles
C. strings and marionettes
D. manifests and modules

Q295.

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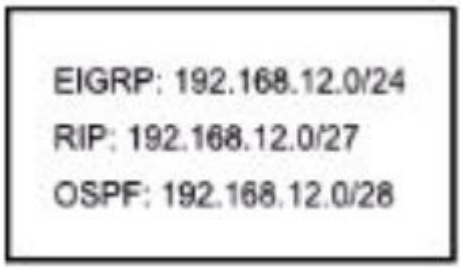

Refer to The exhibit. How does the router manage traffic to 192 169.12.16?
A. It chooses me EIGRP route because it has the lowest administrative distance
B. It chooses the OSPF route because it has the longest prefix inclusive of the destination address.
C. It. load-balances traffic between all three routes .
D. It selects the RIP route because it has the longest prefix inclusive of the destination address

Q296.

Which set of methods is supported with the RESTAPI?
A. GET, PUT, ERASE, CHANGE
B. GET, POST, MOD, ERASE
C. GET, PUT, POST, DELETE

D.GET, POST, ERASE, CHANGE

Q297.

Why is UDP more suitable than TCP for applications that require low latency such as VoIP?
A. UDP reliably guarantees delivery of all packets: TCP drops packets under heavy load
B. UDP uses sequencing data lor packets to arrive in order TCP offers the capability lo receive packets In random order
C. TCP uses congestion control lor efficient packet delivery: UDP uses flow control mechanisms for the delivery of packets
D. TCP sends an acknowledgment lor every packet received: UDP operates without acknowledgments

Q298.

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What are the two functions of SSIDs? (Choose two)

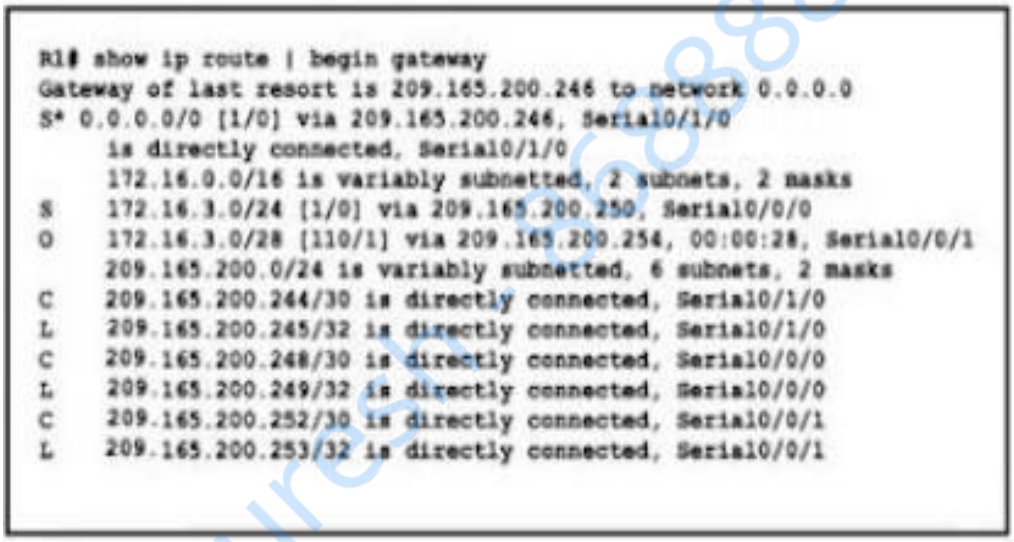
A. uses e maximum of 32 alphanumeric characters
B. controls the speed of the Wi-Fi network
C. used exclusively with controller-based 'Wi-Fi networks
D. supports a single access point
E. broadcasts by default

Q299.

Which two characteristics describe the access layer in a three-tier network architecture? (Choose two)

A. serves as the network aggregation point
B. physical connection point for a LAN printer
C. designed to meet continuous redundant uptime requirements
D. layer at which a wireless access point connects to the wired network
E. provides a boundary between Layer 2 and Layer 3 communications

Q300.



Refer to the exhibit A packet is being sent across router R1 to host 172 16 0 14 What is the destination route For the packet?

A. 209 165 200 254 via Serial0/0/1
B. 209 165 200.246 via Serial0/1/0
C. 209 165 200.250 via Serial0/0/0
D. 209 165 200.254 via Serial0/0/0

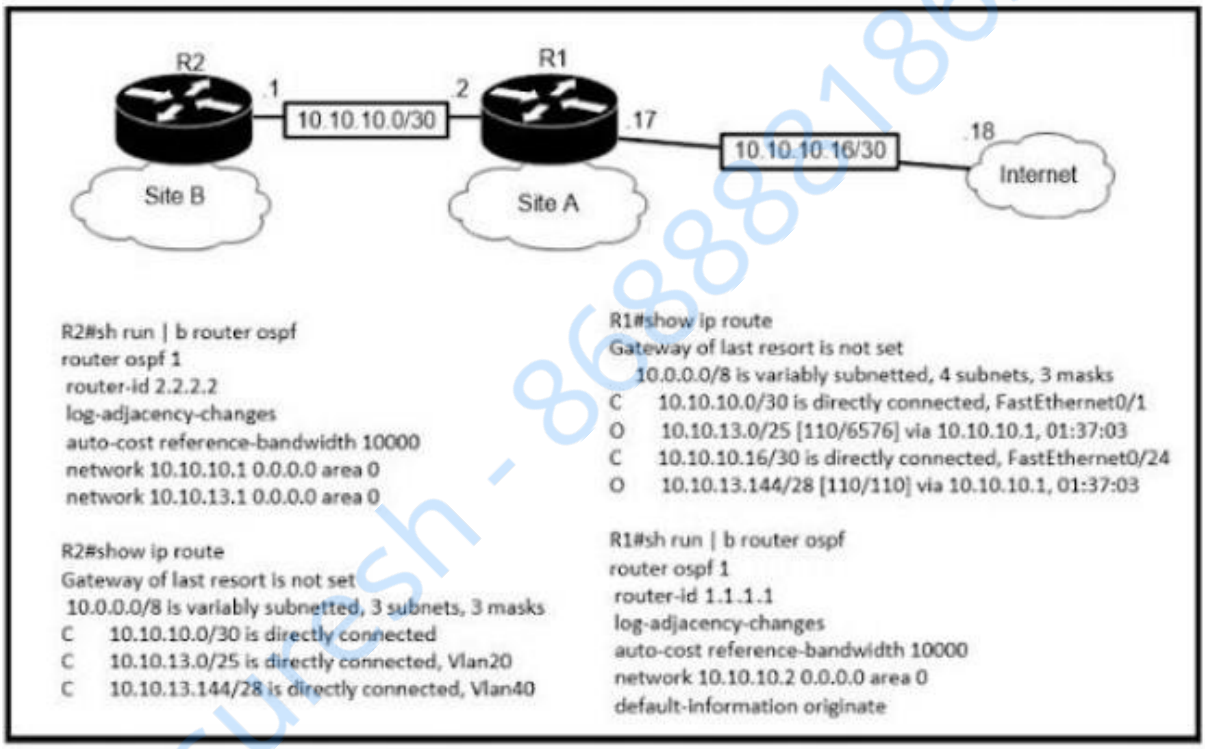
Q301.

```
R1# show ip route
....
D        172.16.32.0/27 [90/2888597172]  via 20.1.1.1
O        172.16.32.0/19  [110/292094]    via 20.1.1.10
R        172.16.32.0/24  [120/2]  via 20.1.1.3
```

Refer Io the exhibit Router R1 is running three different routing protocols Which route characteristic is used by the router to forward the packet that H receives for destination IP 172 16 32 1?

A. Metrix
B. longest prefix
C. administrative distance
D. cost

Q302.



Refer to the exhibit The default-information originate command is configured under the RI OSPF configuration After testing workstations on VLAN 20 at Site B are unable to reach a DNS server on the Internet Which action corrects the configuration issue'

A. Configure the ip route 0.0.0.0 0.0.0.0 10.10.10.2 command on R2
B. Add the default-information originate command on R2
C. Configure the ip route 0.0.0.0 0.0.0.0 10.10.10.18 command on R1
D. Add the always keyword to the default-information originate command on R1

Q303.

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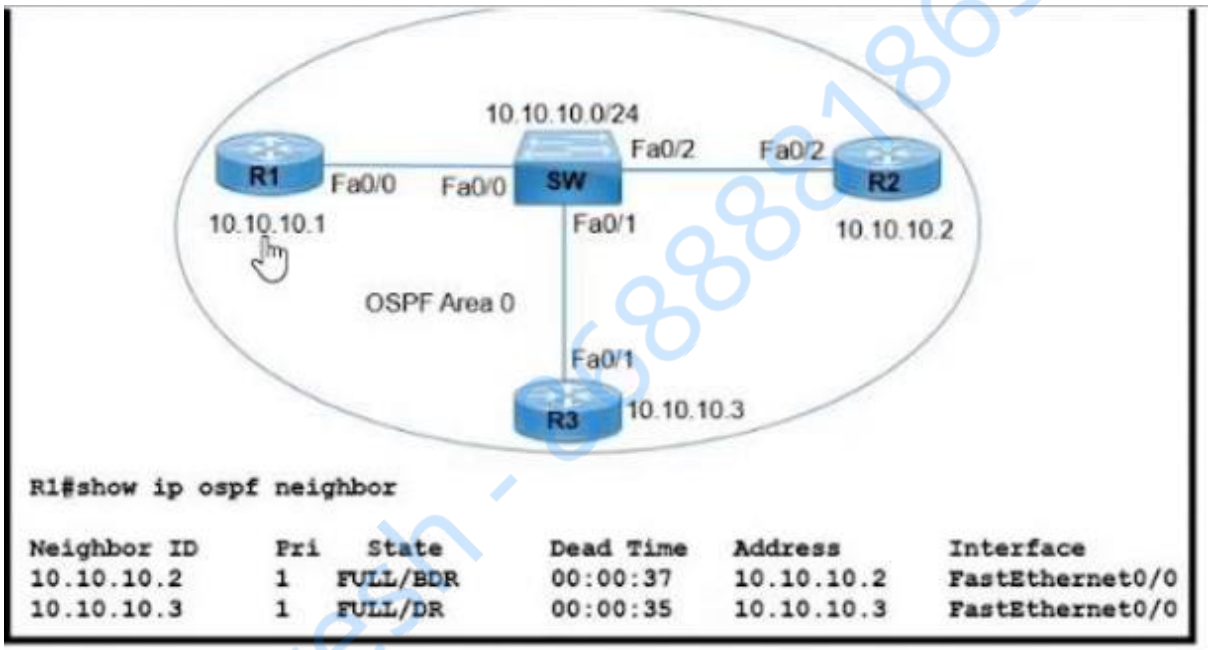
How do traditional campus device management and Cisco DNA Canter device management differ in regards to deployment?

A. Cisco DNA Center device deploys a network laser than traditional campus device management
B. Traditional campus device management allows a network 0 scale quicker than using Cisco DNA Center device management
C. Traditional campus device management schemas typically deploy patches and updates quicker than Cisco DNA Center device management
D. Cisco DNA Center device management is implemented at a lower cost lan most traditional campus device management options

Q304.



Refer to the exhibit. R1 has taken the DROTHER role in the OSPF DR/BDR election process Which configuration must an engineer implement so that R1 is elected as the DR?

A.
```
R1(config)#interface FastEthernet 0/0
R1(config-if)#ip ospf priority 1
R1#clear ip ospf process
```

B.
```
R3(config)#interface FastEthernet 0/1
R3(config-if)#ip ospf priority 200
R3#clear ip ospf process
```

C.
```
R2(config)#interface FastEthernet 0/2
R2(config-if)#ip ospf priority 1
R2#clear ip ospf process
```

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D.

```
R1(config)#interface FastEthernet 0/0
R1(config-if)#ip ospf priority 200
R1#clear ip ospf process
```

Q305.

```
ip arp inspection vlan 2-10
interface fastethernet 0/1
   ip arp inspection trust
```

Refer to the exhibit. If the network environment is operating normally which type of device must be connected to interface fastethernet 0/1?

A. Router
B. access point
C. PC
D. DHCP client

Q306.

Which two conditions must be met before SSH operates normally on a Cisco IOS switch? (Choose two)

A. Telnet must be disabled on the switch
B. A console password must be configured on the switch
C. The ip domain-name command must be configured on the switch
D. The switch must be tunning a k9 (crypto) IOS image
E. IP routing must be enabled on the switch

Q307.

Which per-hop traffic-control feature does an ISP implement to mitigate the potential negative effects of a customer exceeding its committed bandwidth?

A. policing
B. queuing
C. marking
D. shaping

Q308.

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Which mode must be gat for APs 13 communicate 0 a W LAN Controller using the Control and Provisioning of Access Points (CAPWAP} protocol?

A. bridge
B. route
C. autonomous
D. Lightweight

Q309.

Which port type supports the spanning-tree portfast command without additional configuration?

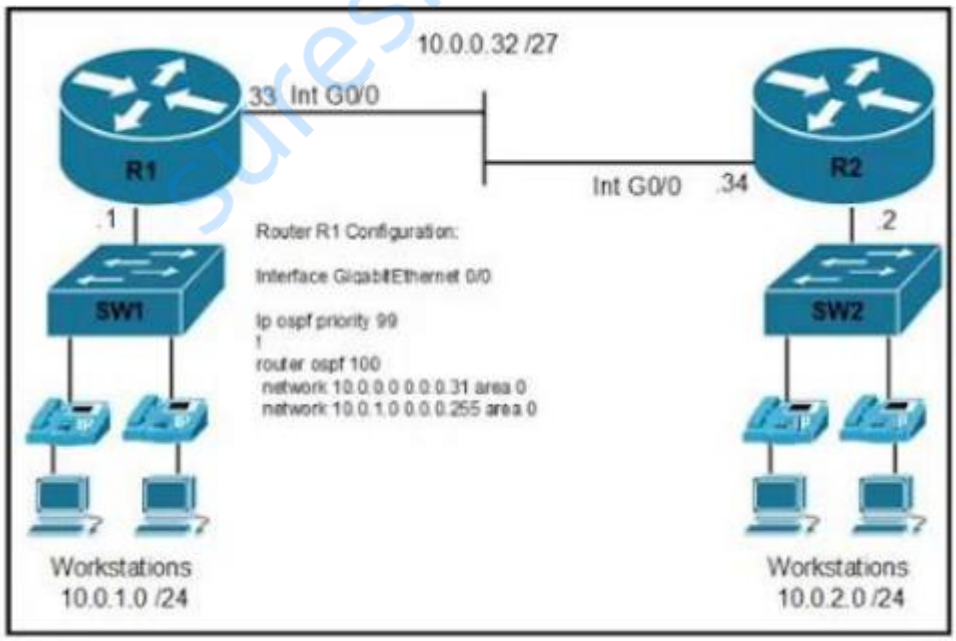
A. trunk ports
B. Layer 3 sub interfaces
C. Layer 3 main interfaces
D. access ports

Q310.

Which PoE mode enables powered-devices detection and guarantees power when the device detected?

A. auto
B. static
C. dynamic
D. active

Q311.



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Refer to the exhibit An engineer must configure router 2 so it is elected as the DR on the WAN subnet Which command sequence must be configured?

A.
```
interface gigabitethernet0/0
 ip address 10.0.1.1 255.255.255.224
 ip ospf priority 98
```

B.
```
interface gigabitethernet0/0
 ip address 10.0.0.34 255.255.255.248
 ip ospf priority 0
```

C.
```
interface gigabitethernet0/0
 ip address 10.0.1.1 255.255.255.0
 ip ospf priority 255
```

D.
```
interface gigabitethernet0/0
 ip address 10.0.0.34 255.255.255.224
 ip ospf priority 100
```

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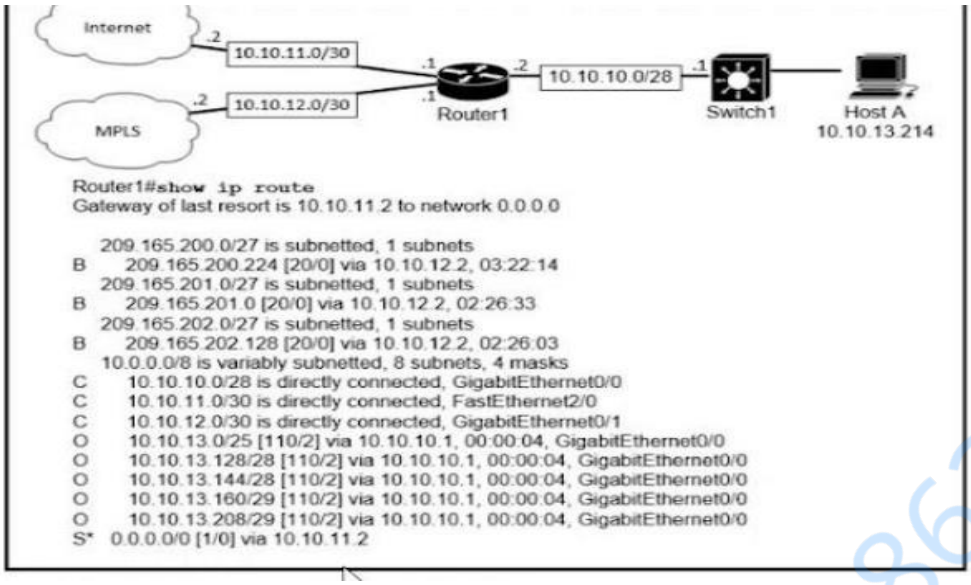
Q312.

Drag and drop the SNMP components from the left onto the descriptions on the right

Q313.

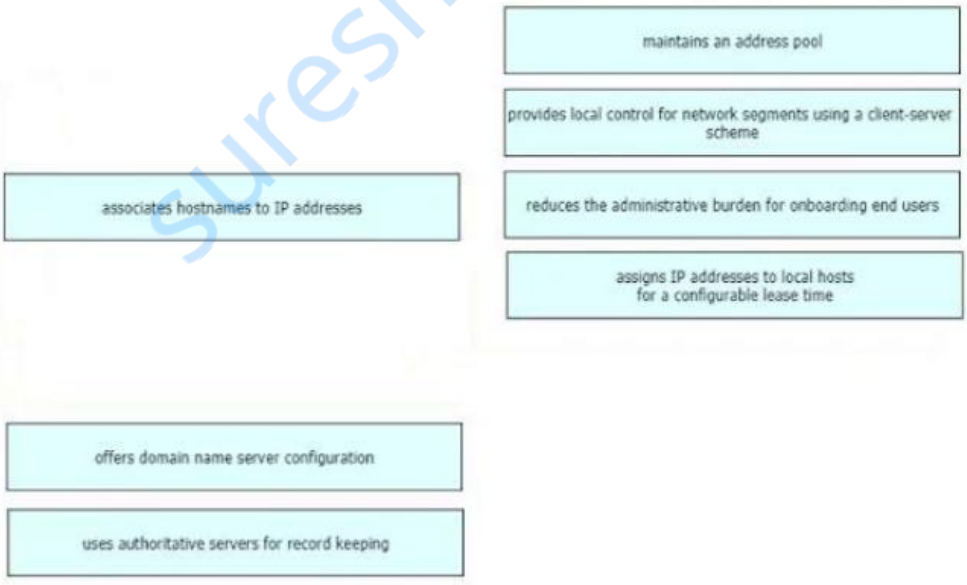


Refer 10 the exhibit What is the subnet mask of the route to the 1 10 3 160 prefix?

A. 255 255 255 128
B. 255 255.256.240
C. 255 255 2480
D. 255 255 255 248

Q314.

Drag and drop the functions of DHCP from the left onto any of the positions on the right. Not all functions are used.



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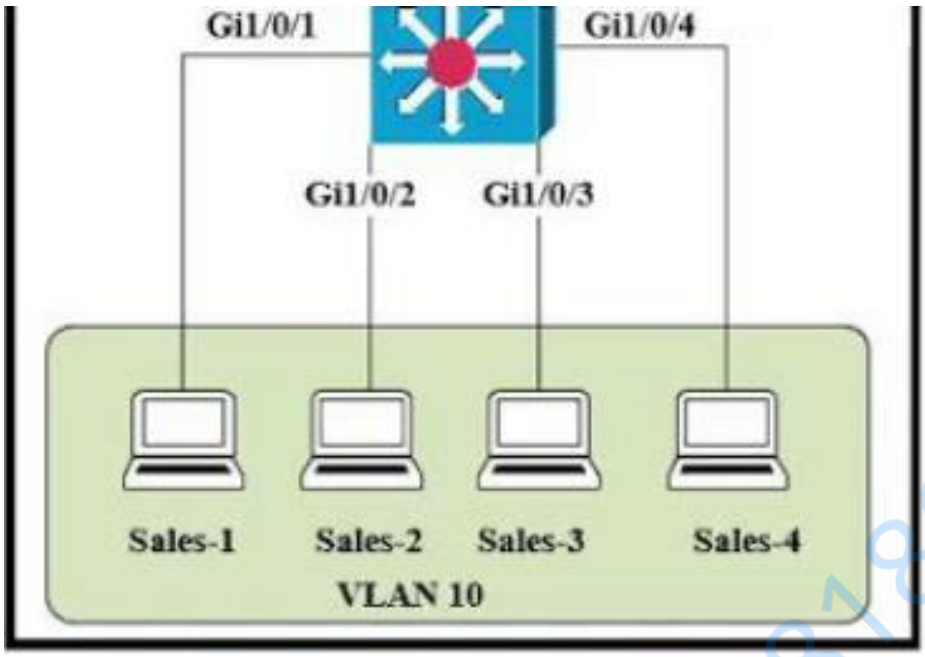
Q315.



Refer to the The entire contents of the MAC address table are shown.

```
Sales-SW#show mac-address-table
Mac Address Table
-------------------------------------------------------------------
VLAN    MAC Address       Type        Ports
10      000c.8590.bb7d    DYNAMIC     Gi1/0/1
10      4138.9289.9bb7    DYNAMIC     Gi1/0/2
10      00d0.d3b6.957c    DYNAMIC     Gi1/0/3
Sales-SW#
```

What does the switch do as receives the frame from Sales 4?

A. Flood the frame out of all ports except on the port where sales 1 is connected
B. Insert the source MAC address and port into the forwarding table the frame to Sales1
C. Perform a lookup in the MAC address table and discard the frame due to a missing entry
D. Map the layer 2 MAC. address to the layer 3 IP address and forward the frame

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Q316.

```
CPE1# show protocols e0/1
Ethernet0/1 is up, line protocol is up
   Internet address is 10.0.12.2/24

CPE1# show ip access-list LAN
Standard IP access list LAN
   10 permit 10.0.12.0, wildcard bits 0.0.0.255

CPE1# show ip nat translations

CPE1# show ip nat statistics
Total active translations: 0 (0 static, 0 dynamic; 0 extended)
Peak translations: 0
Outside interfaces:
Inside interfaces:
   Ethernet0/1
Hits: 0  Misses: 0
CEF Translated packets: 0, CEF Punted packets: 0
Expired translations: 0
Dynamic mappings:
-- Inside Source
[Id: 1] access-list LAN pool NATPOOL refcount 0
   pool NATPOOL: netmask 255.255.255.0
      start 198.51.100.11 end 198.51.100.20
      type generic, total addresses 10, allocated 0 (0%), misses 0

Total doors: 0
Appl doors: 0
Normal doors: 0
Queued Packets: 0
```

Refer to the exhibit What Is the next step to complete the implementation for the partial NAT configuration shown?

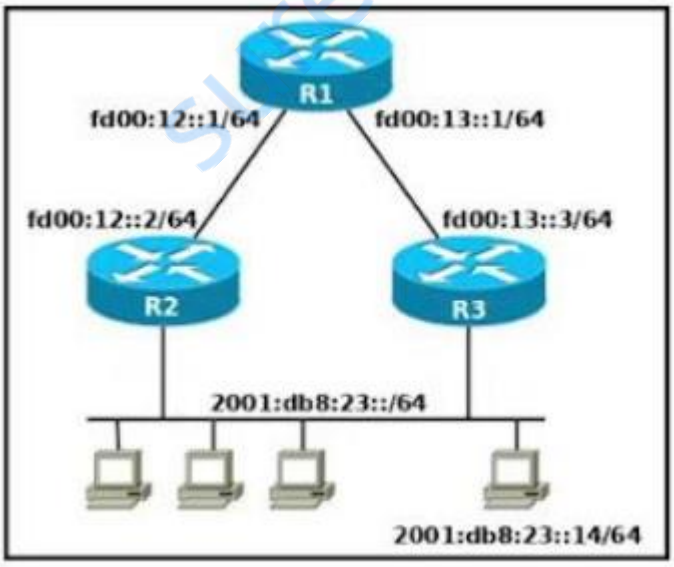
A. Configure the NAT outside interface

B. Reconfigure the static NAT entries that overlap the NAT pool

C. Modify the access list for the Internal network on e0/1

D. Apply the ACL to the pool configuration

Q317.



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Refer to the exhibit Which two commands, when configured on router R1 fulfil these requirements' (Choose two)

- Packets toward the entire network 2001 db8 23 f8J must be forwarded through router R2
- Packets toward host 2001.db8.23::14 preferably must b forwarded through R3

A. Ipv6 route 2001:db8:23::lt28 fdOO:12::2
B. ipv6 route 2001:db8:23::14/128 fd00:13::3
C. ipu6 route2001:db8:23::14/64 tdOO:12::2 200
D. ipv6 route 20«1:db8:23::14fW fdOT:12::2
E. ipv6 route 2001:db8:23::/64 fdO0:12::2

Q318.

Which technology is appropriate for communication between an SDN controller end applications running over the network?

A. Southbound API
B. REST API
C. NETCONF
D. OpenFlow

Q319.

What are two examples of multifactor authentication? {Choose two}

A. single sign-on
B. soft tokens
C. passwords that expire
D. shared password repository
E. unique user knowledge

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Q320.

```
SW1#show spanning-tree vlan 30

VLAN0030
Spanning tree enabled protocol rstp
Root ID    Priority             32798
           Address              0025.63e9.c800
           Cost                 19
           Port                 1 (FastEthernet 2/1)
           Hello Time           2 sec
           Max Age              30 sec
           Forward Delay        20 sec

[Output suppressed]
```

Refer to the exhibit. What are two conclusions about this configuration? (Choose two.)

A. The spanning-tree mode is Rapid PVST+
B. This tea root bridge
C. The spanning-tree mode is PVST+.
D. The designated port is FastEthernet 2/1
E. The root port is FastEthernet 2/1

Q321.

```
Router#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route

Gateway of last resort is 209.165.202.131 to network 0.0.0.0

S*    0.0.0.0/0 [1/0] via 209.165.202.131
      209.165.200.0/27 is subnetted, 1 subnets
S        209.165.200.224 [254/0] via 209.165.202.129
      209.165.201.0/27 is subnetted, 1 subnets
S        209.165.201.0 [1/0] via 209.165.202.130
```

Refer to the exhibit. Which command configures a Boating static route to provide a backup to the primary link?

A. ip route 0 0 0 0 0.0.0.0 209.165.202.131
B. ip route 209.165.201.0 255.255.255224 209.165.202.130

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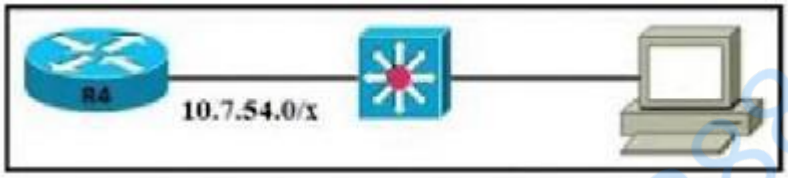
C. ip route 0.0.0.0 0.0.0.0 209.165.200224
D. ip route 209.165.200.224 255.255.255.224 209.165.202.129 254

Q322.

An engineer must configure interswitch VLAN communication between a Cisco switch and a third-party switch Which action should be taken'-'
A. configure IEEE 802.1q
B. configure DSCP
C. configure ISL
D. configure IEEE 802 ip

Q323.



Refer lo the exhibit The router has been configured with a super net to accommodate the requirements for 380 users on a Subnet The requirement already considers 30% future growth Which configuration verifies the IP subnet on router R47

A.
Subnet: 10.7.54.0
Subnet mask: 255.255.128.0
Broadcast address: 10.7.55.255
Usable IP address range: 10.7.54.1 - 10.7.55.254

B.
Subnet: 10.7.54.0
Subnet mask: 255.255.255.0
Broadcast address: 10.7.54.255
Usable IP address range: 10.7.54.1 - 10.7.55.254

C.
Subnet: 10.7.54.0
Subnet mask: 255.255.254.0
Broadcast address: 10.7.54.255
Usable IP address range: 10.7.54.1 - 10.7.55.254

D.
Subnet: 10.7.54.0
Subnet mask: 255.255.254.0
Broadcast address: 10.7.55.255
Usable IP address range: 10.7.54.1 - 10.7.55.254

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Q324.

An engineer is configuring switch SW1 to act as an NTP saner when all upstream NTP server connectivity fails Which configuration must be used?

A.
```
SW1# config t
SW1(config)#ntp peer 192.168.1.1
SW1(config)#ntp access-group peer accesslist1
```

B.
```
SW1# config t
SW1(config)#ntp master
SW1(config)#ntp server 192.168.1.1
```

C.
```
SW1# config t
SW1(config)#ntp backup
SW1(config)#ntp server 192.168.1.1
```

D.
```
SW1# config t
SW1(config)#ntp server 192.168.1.1
SW1(config)#ntp access-group server accesslist1
```

Q325.

Which function does an SNMP agent perform?

A. It manages routing between Layer 3 devices in a network
B. it sends information about UIB variables In response to requests from the NMS
C. It coordinates user authentication between a network device and a TACACS* or RADIUS server .
D. It requests information from remote network nodes about catastrophic system events,

Q326.

How does HSRP provide first hop redundancy?

A. It uses a shared virtual MAC and a virtual IP address to a group of routers that serve as the default gateway for hosts on a LAN
B. It load-balances Layer *2* traffic along the path by flooding traffic out all Interfaces configured with the same VLAN
C. It forwards multiple packets to the same destination over different routed links in the data path

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D. It load-balances traffic by assigning the same metric value to route than one route to the same destination in the IP routing table

Q327.

Which goal is achieved by the implementation of private IPv4 addressing on a network?

A. allows servers and workstations to communicate across public network boundaries
B. allows communication across the Internet to other private networks
C. provides a reduction in size of the forwarding table on network routers
D. provides an added level of protection against internet exposure

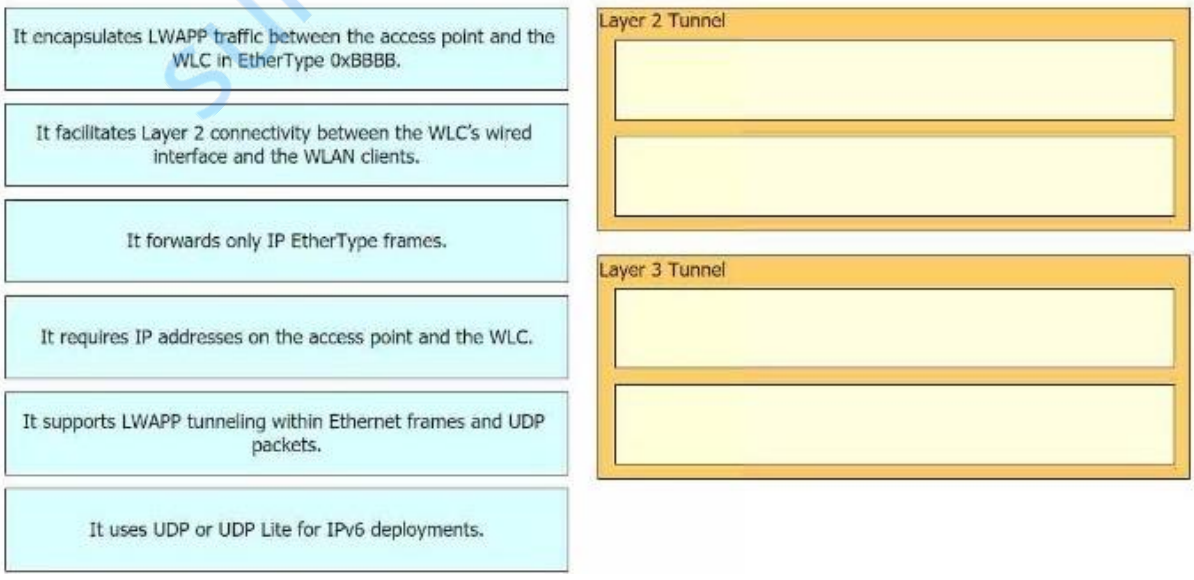
Q328.

Which enhancement s implemented in WPA3?

A. employs PKI to identify access points
B. applies 802. 1x authentication
C. uses TKIP
D. protects against brute force attacks

Q329.

Drag and drop the statements about wireless architectures from the left onto the architectures on the right.



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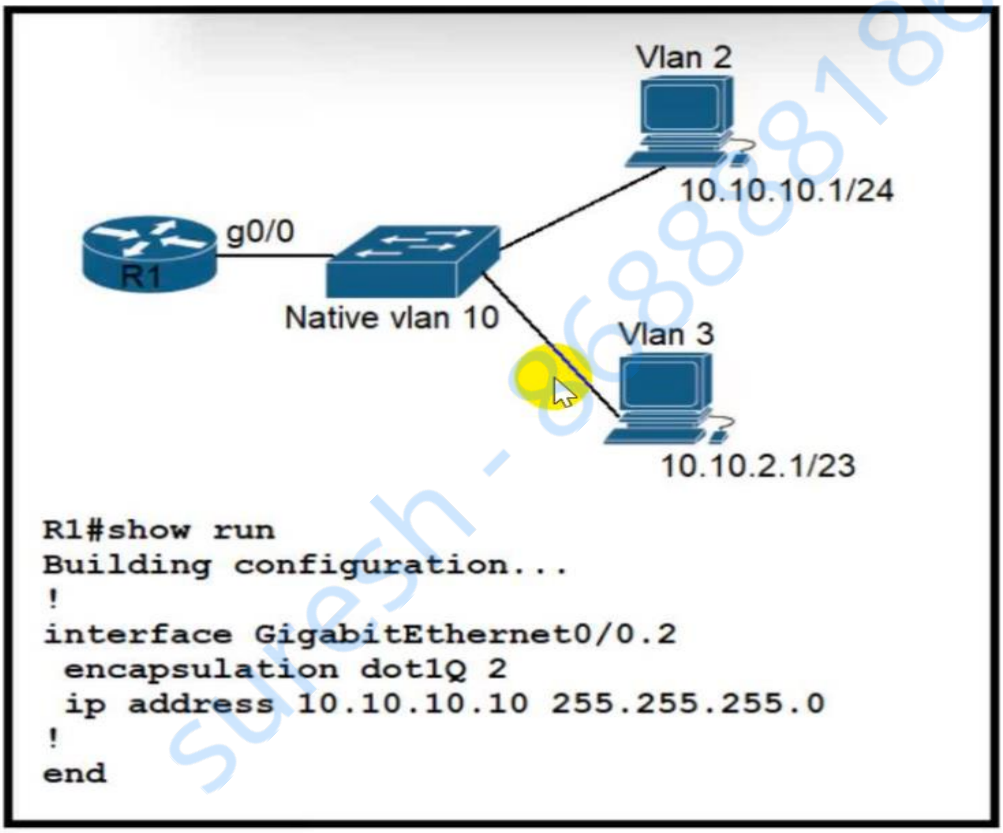
Q330.

An application in the network is being scaled up from 300 servers to 600. Each server requires 3 network connections to support production, backup, and management traffic. Each connection resides on a different subnet. The router configuration for the production network must be configured first using a subnet in the 10.0.0.0/8 network. Which command must be configured on the interface of the router to accommodate the requirements and limit wasted IP address space?

A. ip address 10.10.10.1 255.255.254.0
B. ip address 10.10.10.1 255.255.252.0
C. ip address 10.10.10.1 255.255.240.0
D. ip address 10.10.10.1 255.255.255.240

Q331.



Refer to the exhibit. Configurations tor the switch and PCs are complete. Which configuration must be applied so that VLANs 2 and 3 communicate back and forth?

A. Interface GigabitEthernet0/0
   ip address 10.10.2.10 255.255.252.0
B. interface GigabitEthernet0/0.10
   encapsulation dot1Q 3
   ip address 10.10.2.10 255.255.254.0
C. interface GigabitEthernet0/0.3
   encapsulation dot1Q 3 native
   ip address 10.10.2.10 255.255.252.0

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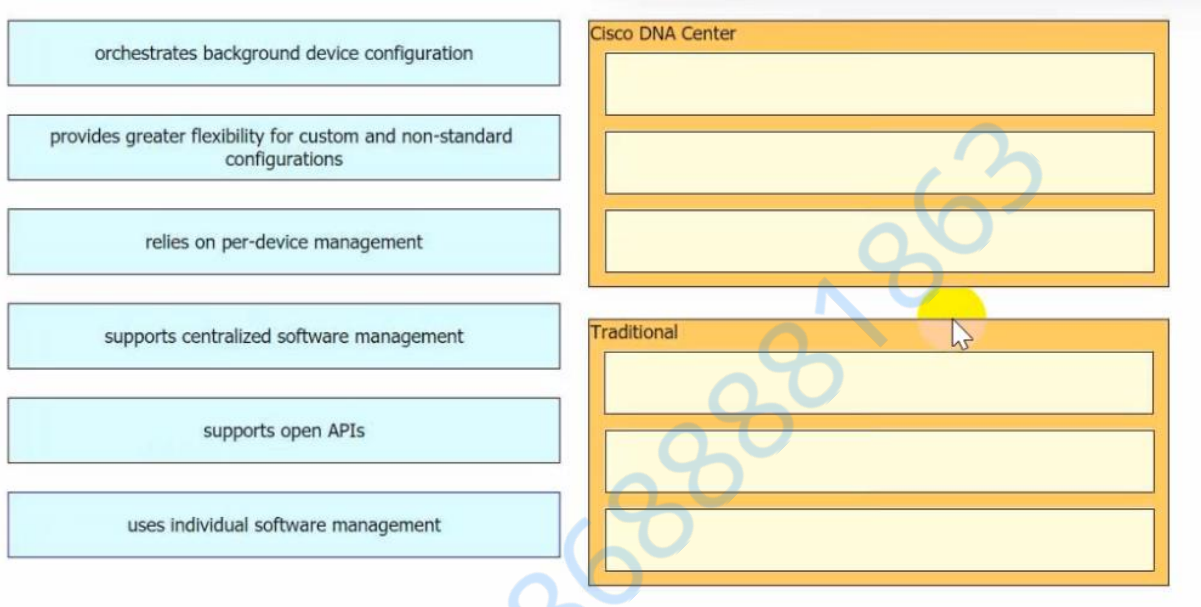
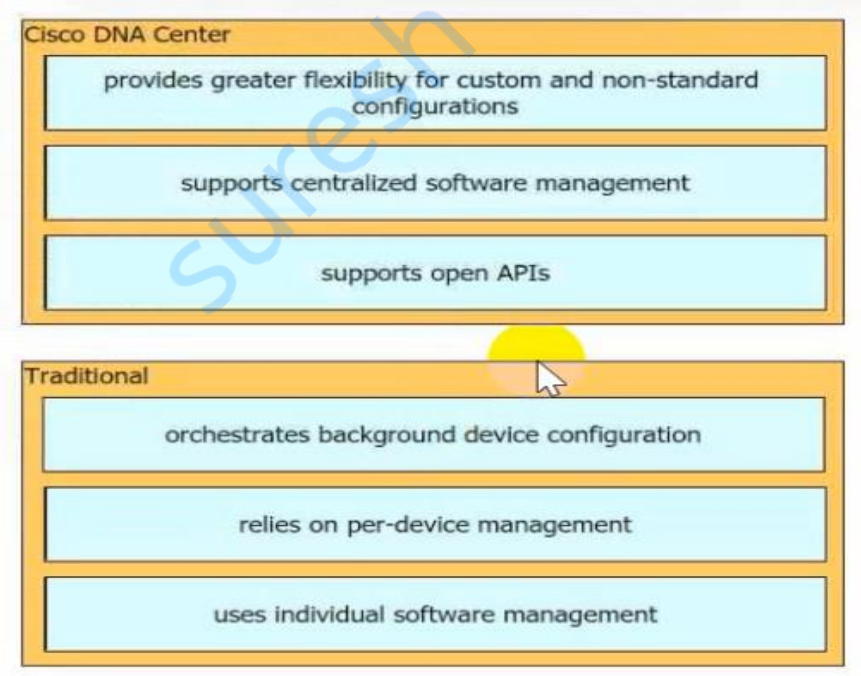
D. interface GigabitEthernet0/0.3
encapsulation dot1Q 10
ip address 10.10.2.10 255.255.255.252

Q332.

Drag and drop each characteristic of device-management technologies from the left onto the deployment type on the right.



ANSWER:



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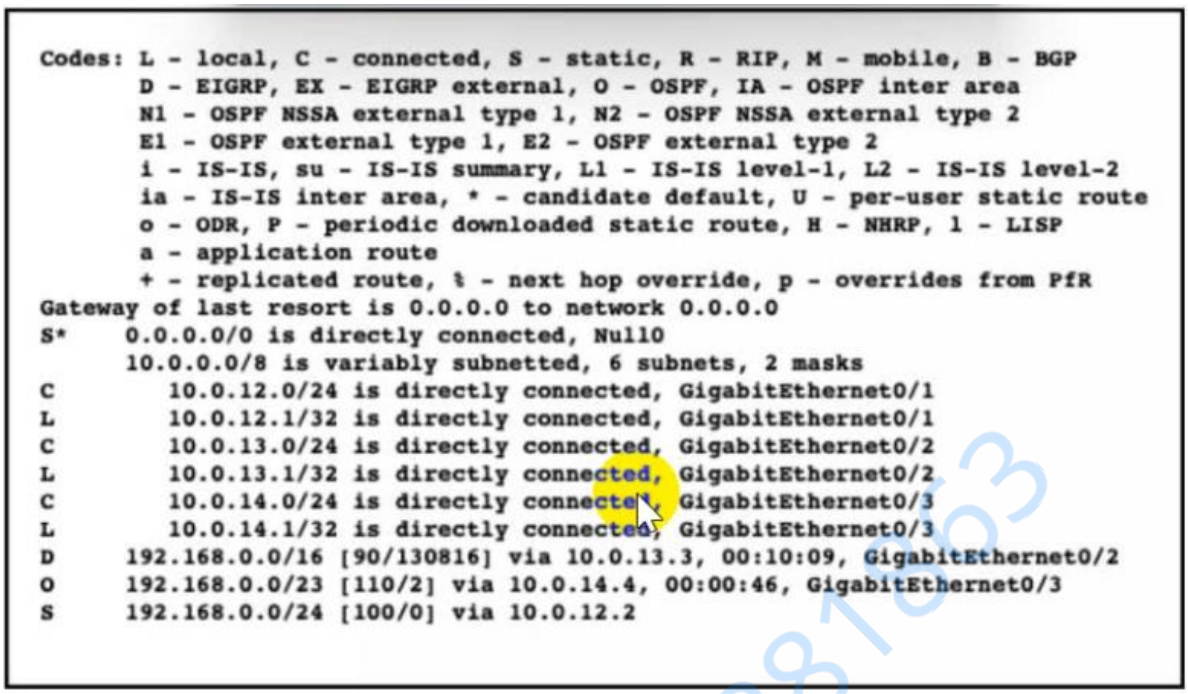
Q333.



```
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route
       o - ODR, P - periodic downloaded static route, H - NHRP, l - LISP
       a - application route
       + - replicated route, % - next hop override, p - overrides from PfR
Gateway of last resort is 0.0.0.0 to network 0.0.0.0
S*    0.0.0.0/0 is directly connected, Null0
      10.0.0.0/8 is variably subnetted, 6 subnets, 2 masks
C        10.0.12.0/24 is directly connected, GigabitEthernet0/1
L        10.0.12.1/32 is directly connected, GigabitEthernet0/1
C        10.0.13.0/24 is directly connected, GigabitEthernet0/2
L        10.0.13.1/32 is directly connected, GigabitEthernet0/2
C        10.0.14.0/24 is directly connected, GigabitEthernet0/3
L        10.0.14.1/32 is directly connected, GigabitEthernet0/3
D     192.168.0.0/16 [90/130816] via 10.0.13.3, 00:10:09, GigabitEthernet0/2
O     192.168.0.0/23 [110/2] via 10.0.14.4, 00:00:46, GigabitEthernet0/3
S     192.168.0.0/24 [100/0] via 10.0.12.2
```

Refer to the exhibit. Which interface is chosen to forward traffic to the host at 192.168.0.55?

A. GigabitEthernet0/3
B. Null0
C. GigabitEthernet0/1
D. GigabitEthernet0/2

Q334.

Router A learns the same route from two different neighbors, one of the neighbor routers is an OSPF neighbor, and the other is an EIGRP neighbor. What is the administrative distance of the route that will be installed in the routing table?

A. 20
B. 90
C. 110
D. 115

Q335.

What are two examples of multifactor authentication? (Choose two.)

A. passwords that expire
B. soft tokens
C. single sign-on
D. unique user knowledge
E. shared password repository

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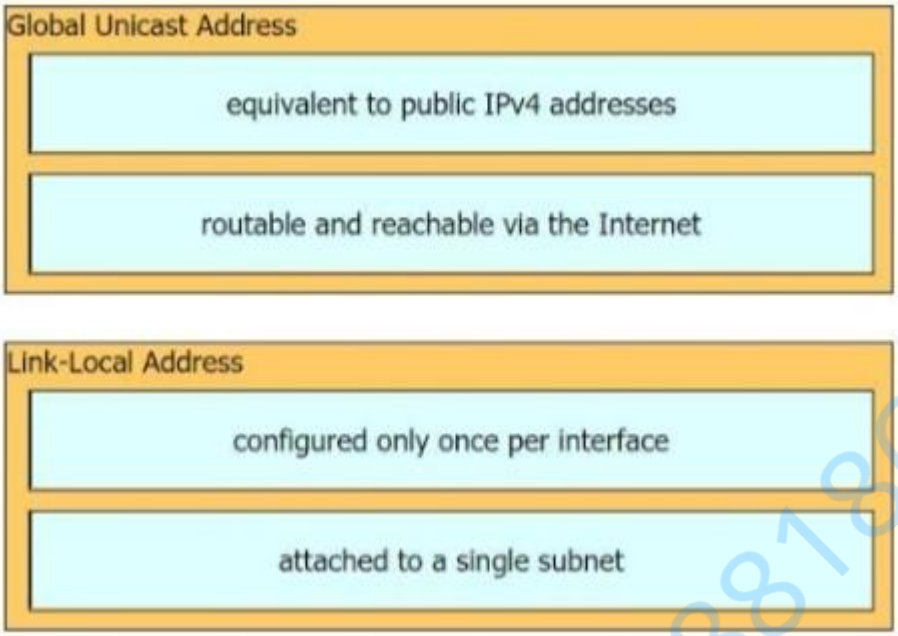
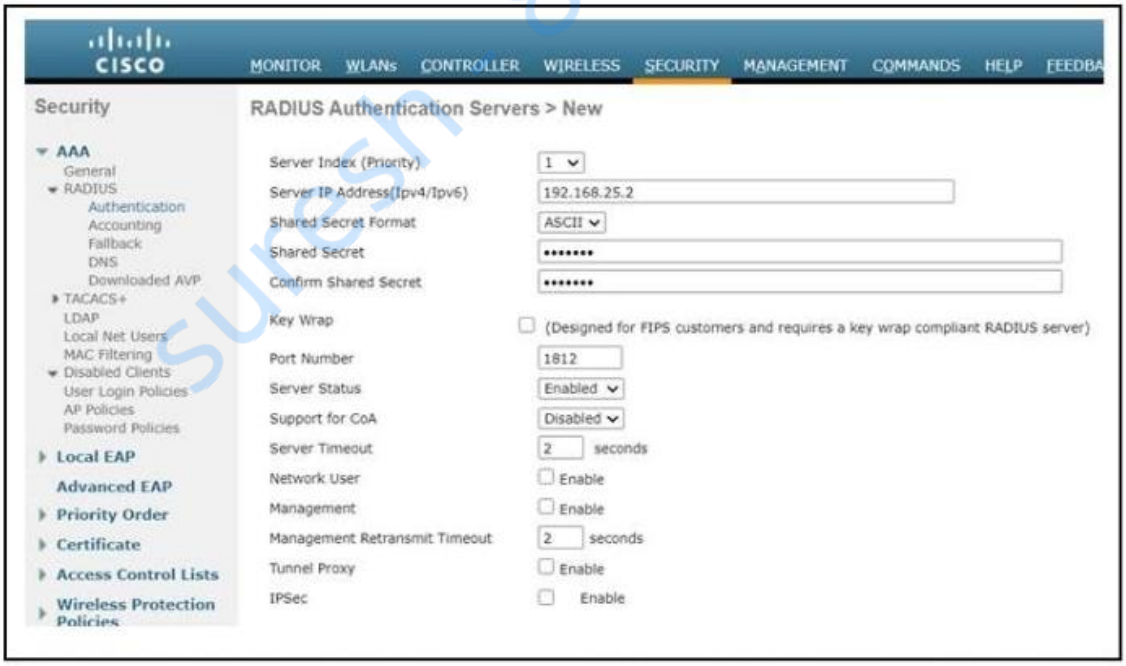
Q336.

Drag and drop the IPv6 address type characteristics from the left to the right.



Q337.



Refer to the exhibit A network engineer configures the Cisco WLC to authenticate local wireless clients against a RADIUS server. Which task must be performed to complete the process?

A. Change the Support for CoA to Enabled

B. Select Enable next to Management.
C. Select Enable next to Network User
D. Change the Server Status to Disabled

Q338.

```
RIP     10.1.1.16/28[120/5]   via   F0/0
OSPF    10.1.1.0/24[110/30]   via   F0/1
OSPF    10.1.1.0/24[110/40]   via   F0/2
EIGRP   10.1.0.0/26[90/20]    via   F0/3
EIGRP   10.0.0.0/8 [90/133]   via   F0/4
```

Refer to the exhibit Packets received by the router from BGP enter via a serial interface at 209.165 201.1. Each route is present within the routing table Which interface is used to forward traffic with a destination IP of 10 1 1 19?
A. F0/1
B. F0/4
C. F0/0
D. F0/3

Q339.

```
Cat9K-1# show lldp entry Cat9K-2

Local Intf: Gi1/0/21
Chassis id: 308b.b2b3.2880
Port id: Gi1/0/21
Port Description: GigabitEthernet1/0/21
System Name: Cat9K-2

Management Addresses:
   IP: 10.5.110.2
```

Refer to the exhibit. The network administrator must prevent the switch Cat9K-2 IP address from being visible in LLDP without disabling the protocol. Which action must be taken to complete the task?
A. Configure the no lldp tlv-select management-address command globally on Cat9K-2
B. Configure the no lldp mac-phy-cfg command globally on Cat9K-2
C. Configure the no lldp receive command on interface G1/0/21 on Cat9K-1.
D. Configure the no lldp transmit command on interface G1/0/21 on Cat9K-1

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Q340.

```
interface g2/0/0
   channel-group 1 mode active
interface g4/0/0
   channel-group 1 mode active
interface Port-channel1
   ip address 203.0.113.65 255.255.255.252

%LINEPROTO-5-UPDOWN: Line protocol on Interface Port-channel1, changed state to down
```

Refer to the exhibit An engineer is configuring a Layer 3 port-channel interface with LACP The configuration on the first device is complete, and it is verified that both interfaces have registered the neighbor device in the CDP table Which task on the neighbor device enables the new port channel to come up without negotiating the channel?

A. Bring up the neighboring interfaces using the no shutdown command
B. Change the EtherChannel mode on the neighboring interfaces to auto
C. Modify the static EtherChannel configuration of the device to passive mode
D. Configure the IP address of the neighboring device.

Q341.

What is a feature of TFTP?

A. provides secure data transfer
B. relies on the well-known TCP port 20 to transmit data
C. offers anonymous user login ability
D. uses two separate connections for control and data traffic

Q342.

What does the implementation of a first-hop redundancy protocol protect against on a network?

A. default gateway failure
B. BGP neighbor flapping
C. spanning-tree loops
D. root-bridge loss

Q343.

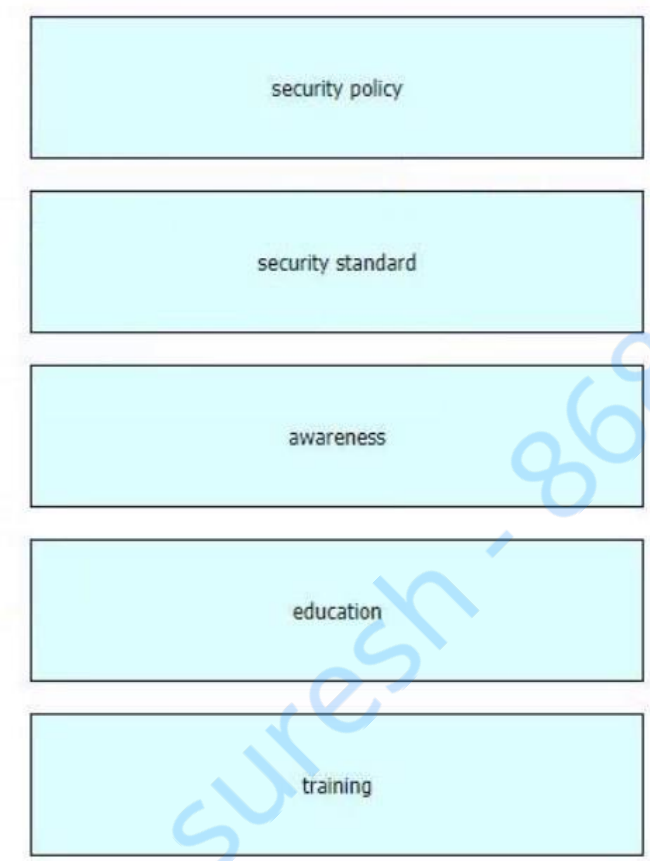
```
{
   "Routers":["R1","R2","R3"],
   "Switches":["SW1","SW2","SW3"]
}
```

Refer to the exhibit. What is represented by "R1" and "SW1" within the JSON output?

A. value
B. array
C. key
D. object

Q344.

Drag and drop the elements of a security program from the left onto the corresponding descriptions on the right



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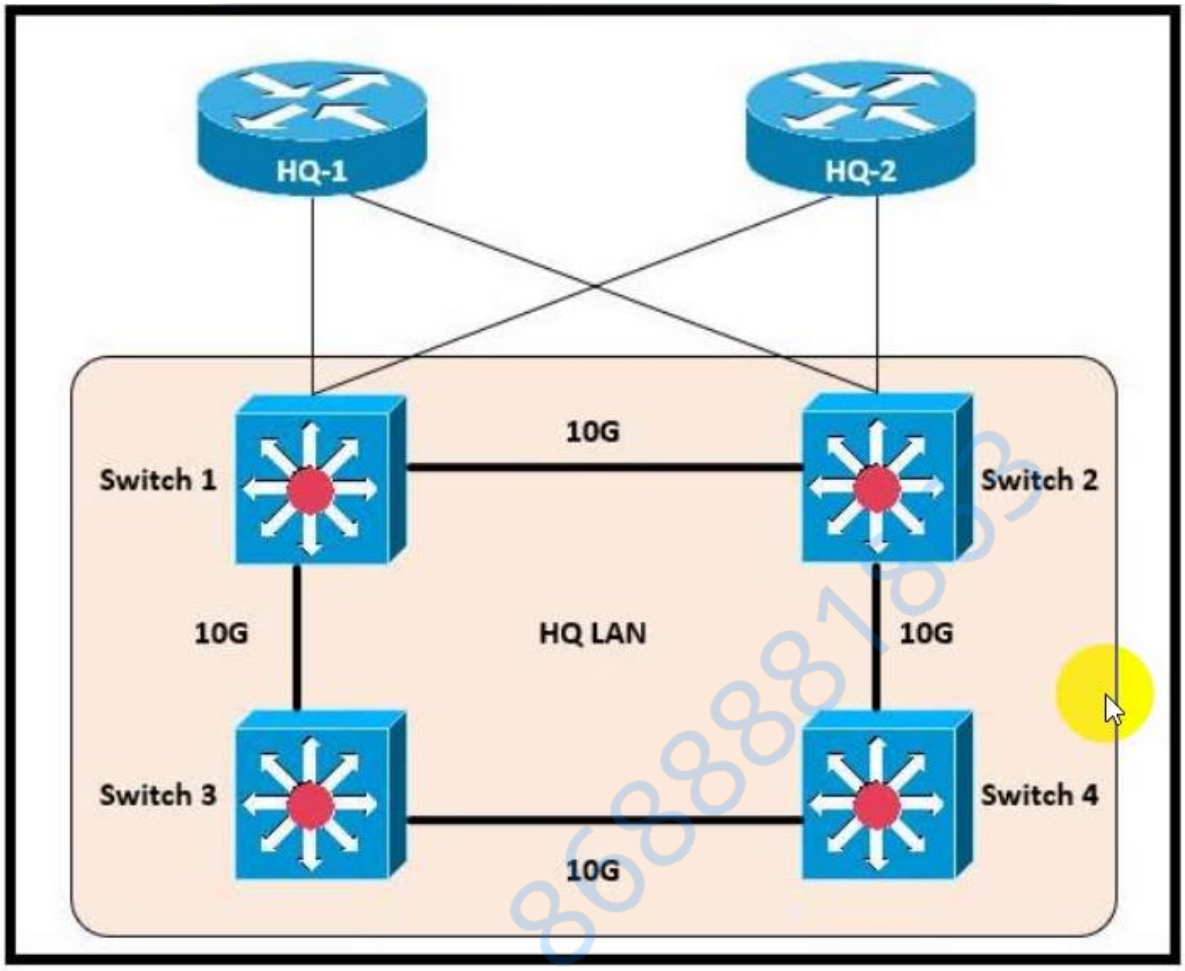
Q345.

Which WAN access technology is preferred for a small office / home office architecture?

A. dedicated point-to-point leased line
B. broadband cable access
C. frame-relay packet switching
D. Integrated Services Digital Network switching

Q346.



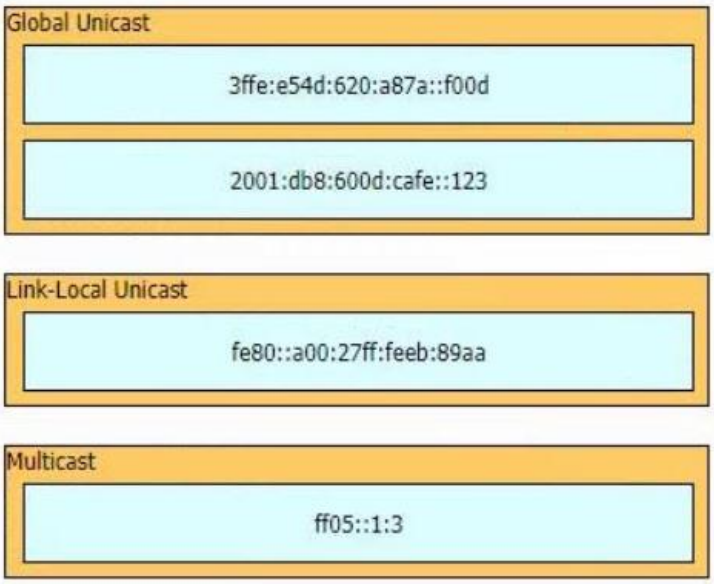
Refer to the exhibit Which switch becomes the root of the spanning tree?

Switch 1
BID: 32778 0018.184e.3c00
Switch 2
BID: 24586 001a.e3ff.a680
Switch 3
BID: 28682 0022.55cf.cc00
Switch 4
BID: 64000 0e41.4503.004f

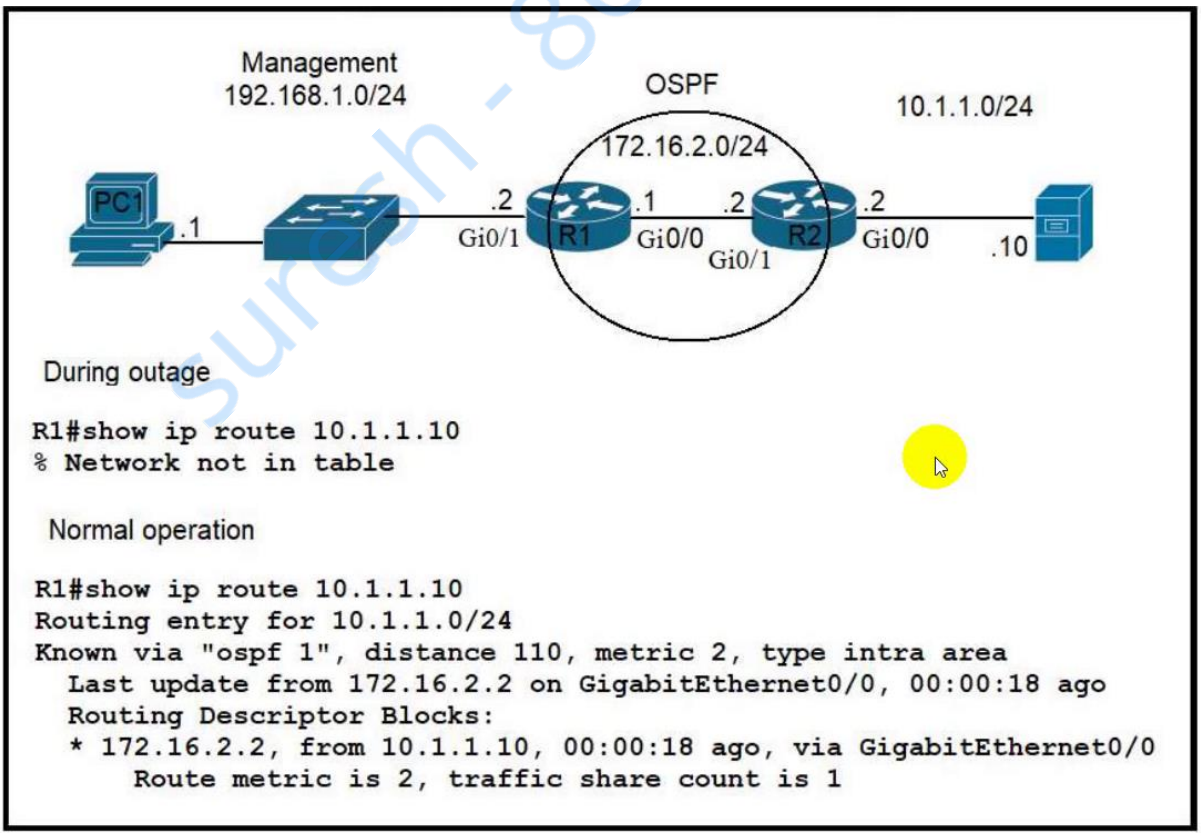
A. Switch 1
B. Switch 2
C. Switch 3
D. Switch 4

Q347.

Drag and drop the IPv6 addresses from the left onto the corresponding address types on the right.



Q348.



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Refer to the exhibit Which route must be configured on R1 so that OSPF routing is used when OSPF is up, but the server is still reachable when OSPF goes down?

A. ip route 10.1.1.0 255.255.255.0 172.16.2.2 100
B. ip route 10.1.1.0 255.255.255.0 gi0/1 125
C. ip route 10.1.1.10 255.255.255.255 172.16.2.2 100
D. ip route 10.1.1.10 255.255.255.255 gi0/0 125

Q349.

Which encryption method is used by WPA3?

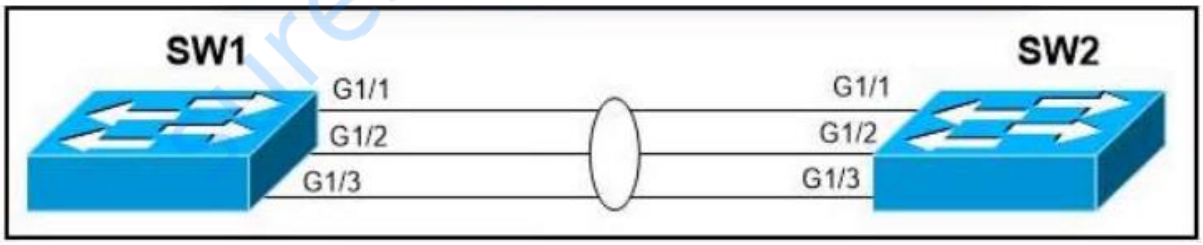
A. AES
B. SAE
C. PSK
D. TKIP

Q350.

Which two components are needed to create an Ansible script that configures a VLAN on a switch? (Choose two)

A. model
B. task
C. recipe
D. playbook
E. cookbook

Q351.



Refer to the exhibit. Which configuration establishes a Layer 2 LACP EtherChannel when applied to both switches?

A.

```
interface range G1/1 - 1/3
  switchport mode access
  channel-group 1 mode passive
  no shutdown
```

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B.

```
interface range G1/1 - 1/3
  switchport mode access
  channel-group 1 mode on
  no shutdown
```

C.

```
interface range G1/1 - 1/3
  switchport mode trunk
  channel-group 1 mode active
  no shutdown
```

D.

```
interface range G1/1 - 1/3
  switchport mode trunk
  channel-group 1 mode desirable
  no shutdown
```

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Q352.

Which characteristic differentiates the concept of authentication from authorization and accounting?

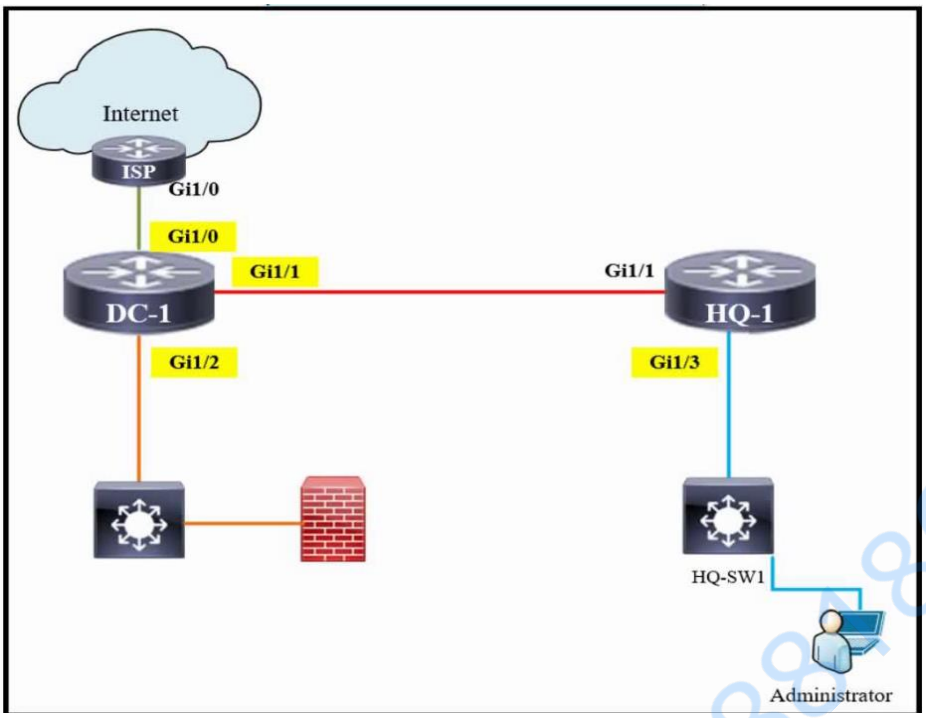
A. consumption-based billing
B. identity verification
C. user-activity logging
D. service limitations

Q353.

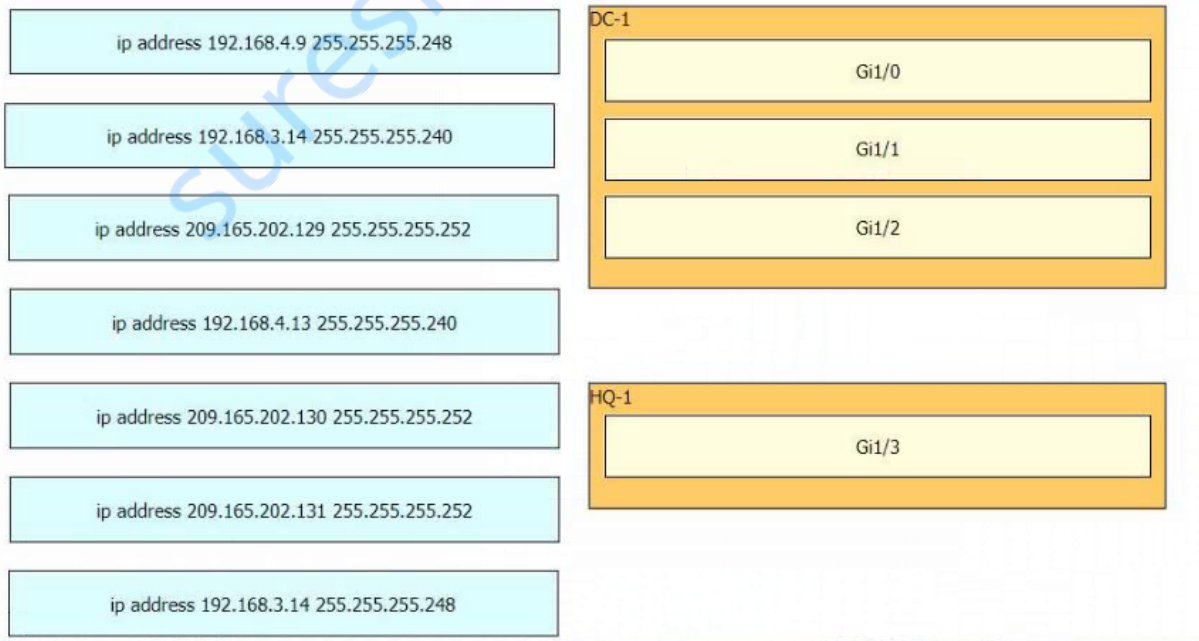
What is a function of Cisco Advanced Malware Protection for a Next-Generation IPS?

A. inspecting specific files and file types for malware
B. authorizing potentially compromised wireless traffic
C. authenticating end users
D. URL filtering

Q354.



Refer to the exhibit. The IP address configurations must be completed on the DC-1 and HQ-1 routers based on these requirements:
DC-1 Gi170 must be the last usable address on a /30
DC-1 GI1/1 must be the first usable address on a 729
DC-1 Gi172 must be the last usable address on a 728
HQ-1 Gi1/3 must be the last usable address on a 729
Drag and drop the commands from the left onto the destination interfaces on the right. Not all commands are used.



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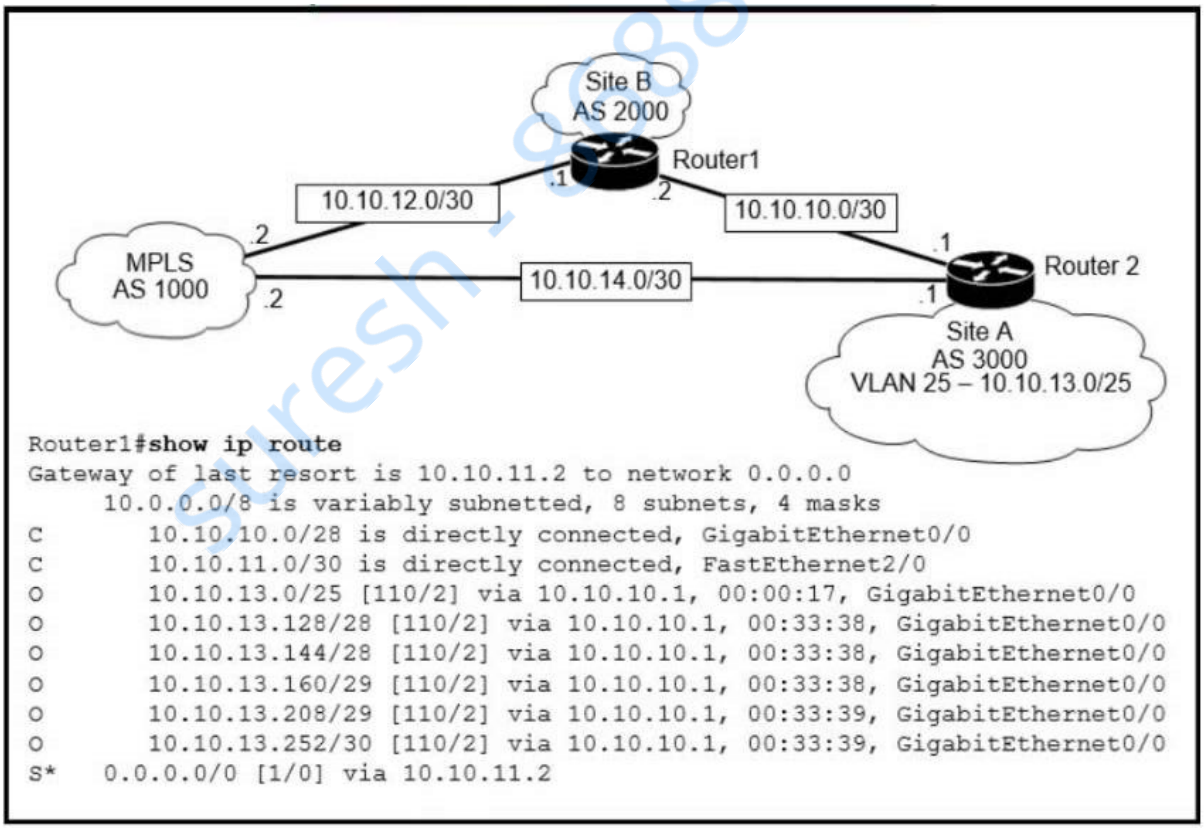
ANSWER:

Q355.



Refer to the exhibit. An engineer is bringing up a new circuit to the MPLS provider on the Gi0/1 interface of Router1. The new circuit uses eBGP and learns the route to VLAN25 from the BGP path. What is the expected behavior for the traffic flow for route 10.10.13.0/25?

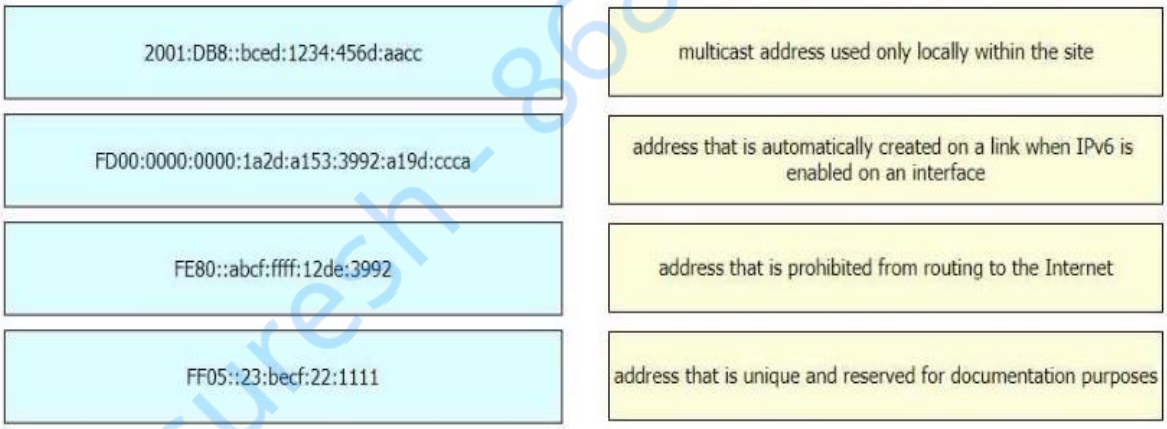
A. Traffic to 10.10.13.0/25 is asymmetrical.
B. Route 10.10.13.0/25 learned via the Gi0/0 interface remains in the routing table.
C. Traffic to 10.10.13.0/25 Is load balanced out of multiple interfaces.
D. Route 10.10.13.0/25 is updated in the routing table as being learned from interface Gi0/1.

Q356.

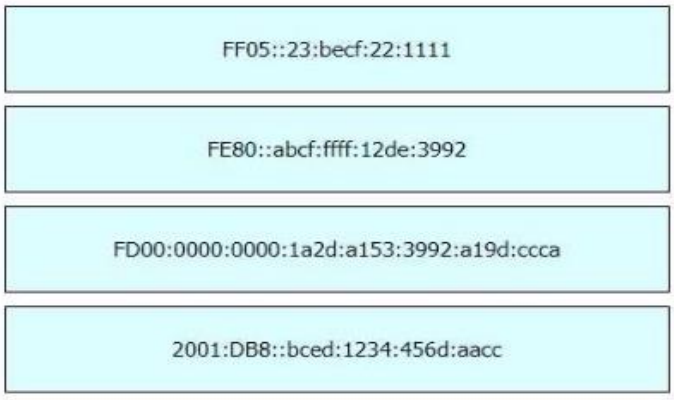
How is RFC 1918 addressing used in a network?
A. They are used to access the Internet from the internal network without conversion.
B. They are used in place of public addresses for Increased security.
C. They are used with NAT to preserve public IPv4 addresses.
D. They are used by Internet Service Providers to route over the Internet.

Q357.

Drag and drop the IPv6 address types from the left onto their descriptions on the right.



ANSWER:



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Q358.

What are two similarities between UTP Cat 5e and Cat 6a cabling? (Choose two.)

A. Both support speeds of at least 1 Gigabit.
B. Both support runs of up to 100 meters.
C. Both support speeds up to 10 Gigabit.
D. Both operate at a frequency of 500 MHz.
E. Both support runs of up to 55 meters.

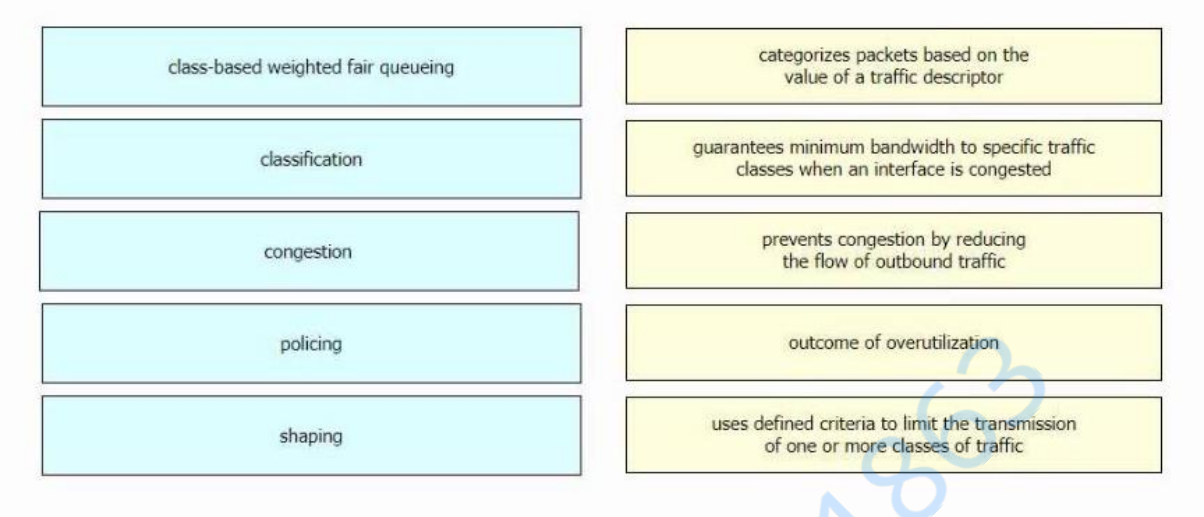
Q359.

Refer to the exhibit. What is a reason for poor performance on the network interface?

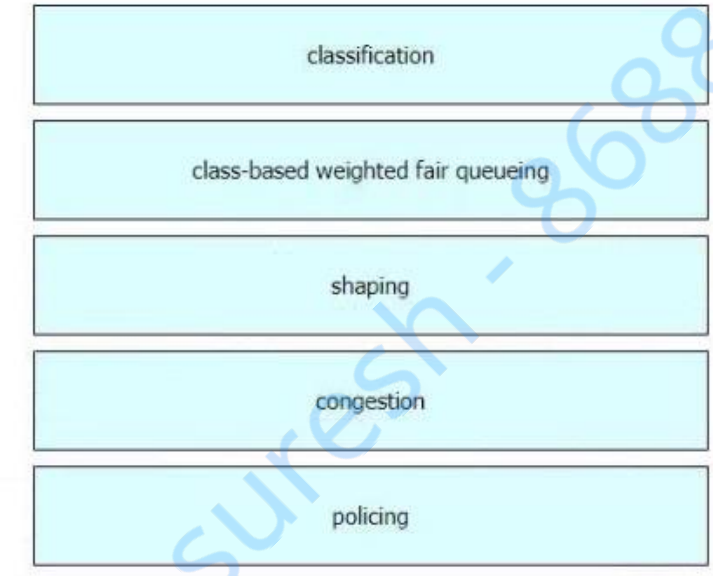
A. The interface is receiving excessive broadcast traffic.
B. The bandwidth setting of the interface is misconfigured.
C. The cable connection between the two devices is faulty.
D. The interface is operating at a different speed than the connected device.

Q360.

Drag and drop the QoS terms from the left onto the descriptions on the right.



ANSWER:



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Q361.

What is a feature of WPA?
A. TKIP/MIC encryption
B. small Wi-Fi application
C. preshared key
D. 802.1x authentication

Q362.

A Cisco engineer must configure a single switch interface to meet these requirements:

- accept untagged frames and place them in VLAN 20
- accept tagged frames in VLAN 30 when CDP detects a Cisco IP phone

Which command set must the engineer apply?

A.
```
switchport mode dynamic desirable
switchport access vlan 20
switchport trunk allowed vlan 30
switchport voice vlan 30
```

B.
```
switchport mode access
switchport access vlan 20
switchport voice vlan 30
```

C.
```
switchport mode dynamic auto
switchport trunk native vlan 20
switchport trunk allowed vlan 30
switchport voice vlan 30
```

D.
```
switchport mode trunk
switchport access vlan 20
switchport voice vlan 30
```

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Q363.

How are the switches in a spine-and-leaf topology interconnected?

A. Each leaf switch is connected to one of the spine switches.
B. Each leaf switch is connected to each spine switch.
C. Each leaf switch is connected to two spine switches, making a loop.
D. Each leaf switch is connected to a central leaf switch, then uplinked to a core spine switch.

Q364.

```
CPE# show ipv6 route
IPv6 Routing Table - default - 6 entries
Codes: C - Connected, L - Local, S - Static, U - Per-user Static route
       B - BGP, R - RIP, H - NHRP, I1 - ISIS L1
       I2 - ISIS L2, IA - ISIS interarea, IS - ISIS summary, D - EIGRP
       EX - EIGRP external, ND - ND Default, NDp - ND Prefix, DCE - Destination
       NDr - Redirect, O - OSPF Intra, OI - OSPF Inter, OE1 - OSPF ext 1
       OE2 - OSPF ext 2, ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2
       la - LISP alt, lr - LISP site-registrations, ld - LISP dyn-eid
       lA - LISP away, le - LISP extranet-policy, lp - LISP publications
ND   ::/0 [2/0]
     via FE80::A8BB:CCFF:FE00:200, Ethernet0/0
NDp 2001:DB8:1234:1::/64 [2/0]
     via Ethernet0/0, directly connected
L    2001:DB8:1234:1:A8BB:CCFF:FE00:100/128 [0/0]
     via Ethernet0/0, receive
C    2001:DB8:1234:2::/64 [0/0]
     via Ethernet0/1, directly connected
L    2001:DB8:1234:2:A8BB:CCFF:FE00:110/128 [0/0]
     via Ethernet0/1, receive
L    FF00::/8 [0/0]
     via Null0, receive
```

Refer to the exhibit. The administrator must configure a floating static default route that points to 2001 :db8:1234:2::1 and replaces the current default route only If it fails. Which command must the engineer configure on the CPE?

A. ipv6 route ::/0 2001:db8:1234:2::1 3
B. ipv6 route ::/128 2001:db8:1234:2::1 3
C. ipv6 route ::/0 2001:db8:1234:2::1 1
D. ipv6 route ::/0 2001:db8:1234:2::1 2

Q365.

Which networking function occurs on the data plane?

A. forwarding remote client/server traffic
B. facilitates spanning-tree elections
C. sending and receiving OSPF Hello packets
D. processing inbound SSH management traffic

Q366.

Which two practices are recommended for an acceptable security posture in a network? (Choose two.)

A. Use a cryptographic keychain to authenticate to network devices.
B. Place internal email and file servers In a designated DMZ.

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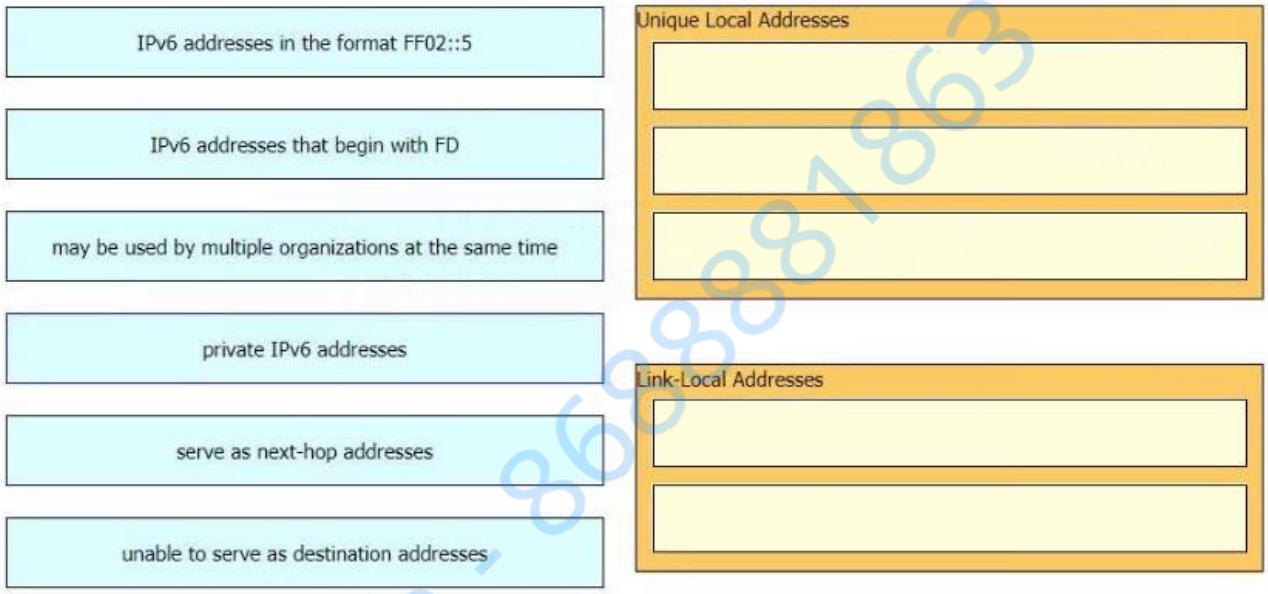
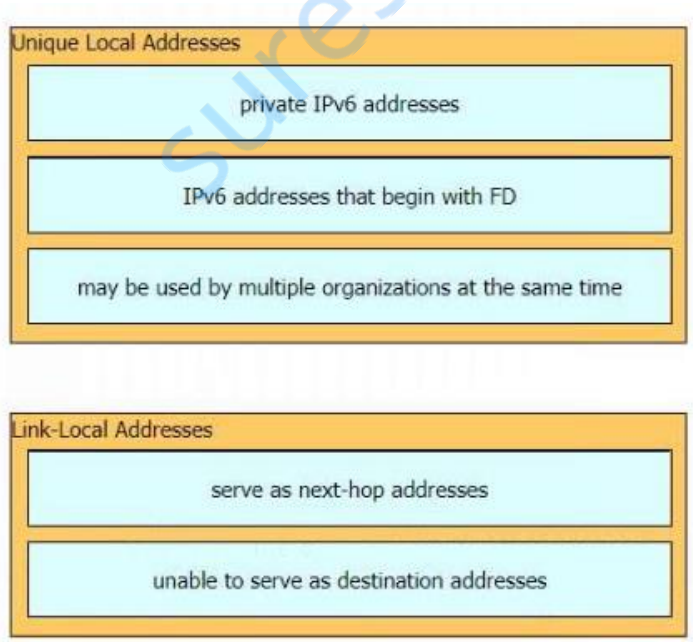
C. Back up device configurations to encrypted USB drives for secure retrieval.
D. Disable unused or unnecessary ports, interfaces, and services.
E. Maintain network equipment in a secure location.

Q367.

Drag and drop the IPv6 address descriptions from the left onto the IPv6 address types on the right. Not all options are used.



ANSWER:



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Q368.

What is the function of "off-the-shelf" switches in a controller-based network?
A. setting packet-handling policies
B. forwarding packets
C. providing a central view of the deployed network
D. making routing decisions

Q369.

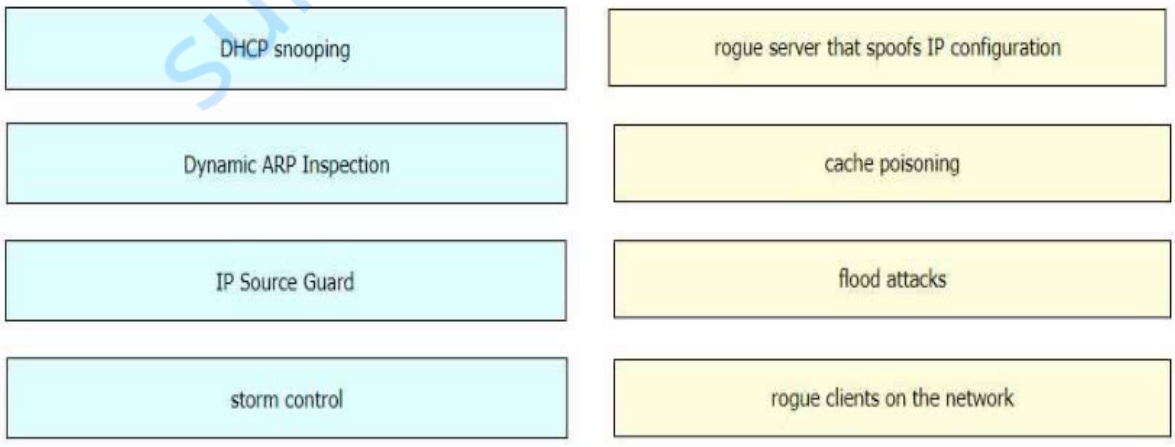
An administrator must use the passwords complexity not manufacturer-name command to prevent users from adding "Cisco" as a password. Which command must be issued before this command?
A. login authentication my-auth-list
B. service password-encryption
C. password complexity enable
D. config 0x2142

Q370.

What does a switch use to build its MAC address table?
A. VTP
B. DTP
C. ingress traffic
D. egress traffic

Q371.

Drag and drop the Cisco IOS attack mitigation features from the left onto the types of network attack they mitigate on the right.



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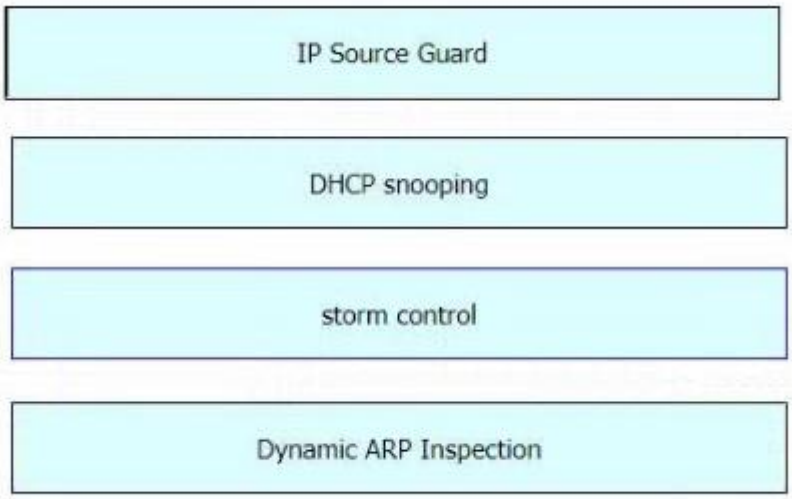
ANSWER:



Q372.

```
R1# show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set
      10.0.0.0/24 is subnetted, 5 subnets
D     10.1.2.0/24 [90/2170112] via 10.165.20.226, 00:01:30, Serial0/0
D     10.1.3.0/24 [90/2170112] via 10.165.20.226, 00:01:30, Serial0/0
D     10.1.2.0/25 [90/2170112] via 10.165.20.126, 00:01:30, Serial0/0
D     10.1.3.0/25 [90/2170112] via 10.165.20.146, 00:01:30, Serial0/0
D     10.1.4.0/25 [90/2170112] via 10.165.20.156, 00:01:30, Serial0/0
      192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks
C     192.18.10.0/24 is directly connected, GigabitEthernet0/0
      192.168.21.0/24 is variably subnetted, 2 subnets, 2 masks
C     192.168.11.0/24 is directly connected, GigabitEthernet0/1
     10.165.20.0/24 is variably subnetted, 2 subnets, 2 masks
C    10.165.20.224/24 is directly connected, Serial0/0
S     10.1.2.112/28 [1/0] via 10.165.20.166
```

Refer to the exhibit. What is the next hop for traffic entering R1 with a destination of 10.1.2.126?
10.165.20.126
10.165.20.146
10.165.20.166
10.165.20.226

Q373

```
Cat9K-1# show lldp entry Cat9K-2

Local Intf: Gi1/0/21
Chassis id: 308b.b2b3.2880
Port id: Gi1/0/21
Port Description: GigabitEthernet1/0/21
System Name: Cat9K-2

Management Addresses:
   IP: 10.5.110.2
```

Refer to the exhibit. The network administrator must prevent the switch Cat9K-2 IP address from being visible in LLDP without disabling the protocol. Which action must be taken to complete the task?

A. Configure the no lldp transmit command on Interface G1/0/21 on Cat9K-1.
B. Configure the no lldp receive command on interface G1/0/21 on Cat9K-1.
C. Configure the no lldp mac-phy-cfg command globally on Cat9K-2.
D. Configure the no lldp tlv-select management-address command globally on Cat9K-2.

Q374.

A WLC sends alarms about a rogue AP, and the network administrator verifies that the alarms are caused by a legitimate autonomous AP. How must the alarms be stopped for the MAC address of the AP?

A. Remove the AP from WLC management.
B. Place the AP into manual containment.
C. Manually remove the AP from Pending state.
D. Set the AP Class Type to Friendly.

Q375.

Drag and drop the IPv6 addresses from the left onto the corresponding address types on the right.

ANSWER:

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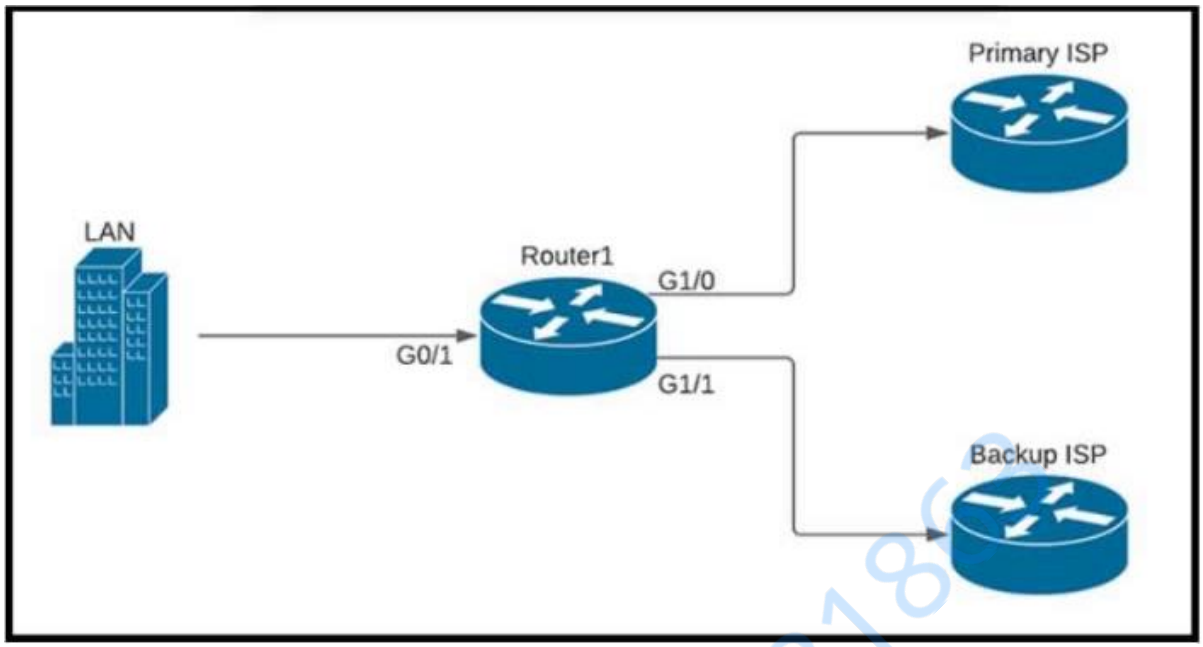
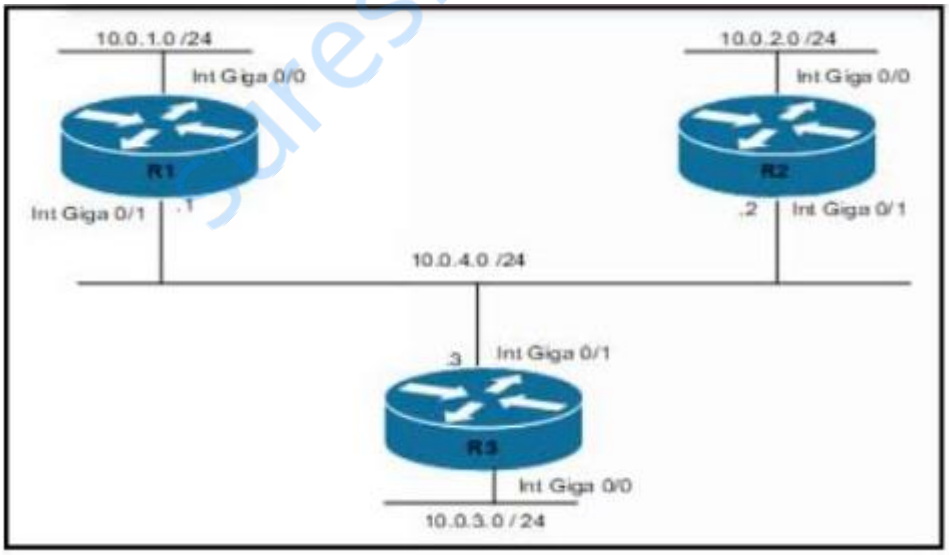
Q376.



Refer to the exhibit. A company Is configuring a failover plan and must Implement the default routes In such a way that a floating static route will assume traffic forwarding when the primary link goes down. Which primary route configuration must be used?

A. ip route 0.0.0.0 0.0.0.0 192.168.0.2 GigabitEthernet1/0
B. ip route 0.0.0.0 0.0.0.0 192.168.0.2 tracked
C. ip route 0.0.0.0 0.0.0.0 192.168.0.2 floating
D. ip route 0.0.0.0 0.0.0.0 192.168.0.2

Q377.



Refer to the exhibit. Routers R1 and R3 have the default configuration. The router R2 priority Is set to 99. Which commands on R3 configure it as the DR in the 10.0.4.0/24 network?

A. R3(config)#interface Gig0/0
R3(conflg-lf)#ip ospf priority 100
B. R3(config)#interface Gig0/0
R3(config-lf)#ip ospf priority 1
C. R3(config)#interface Gig0/1
R3(config-if)#ip ospf priority 0
D. R3(config)#interface Gig0/1
R3(config-if)#ip ospf priority 100

Q378.

Which statement compares traditional networks and controller-based networks?
A. Only traditional networks offer a centralized control plane.
B. Traditional and controller-based networks abstract policies from device configurations.
C. Only traditional networks natively support centralized management.
D. Only controller-based networks decouple the control plane and the data plane.

Q379.

What is the MAC address used with VRRP as a virtual address?
A. 00-05-04-14-98-05
B. 00-00-5E-00-01-0a
C. 00-00-0C-07-AD-89
D. 00-07-C0-70-AB-01

Q380.

Which WAN topology has the highest degree of reliability?
A. point-to-point
B. router-on-a-stick
C. full mesh
D. hub-and-spoke

Q381.

What is a DHCP client?
A. a workstation that requests a domain name associated with its IP address
B. a router that statically assigns IP addresses to hosts
C. a host that is configured to request an IP address automatically
D. a server that dynamically assigns IP addresses to hosts

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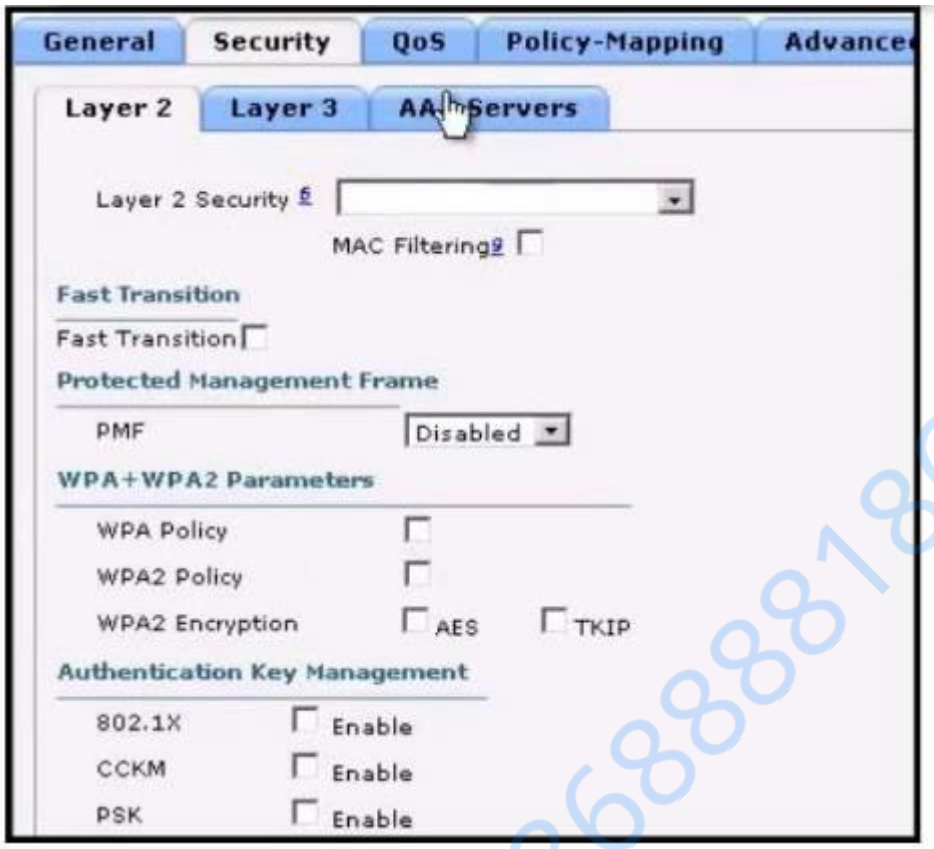
Q382.



Refer to the exhibit. What are the two steps an engineer must take to provide the highest encryption and authentication using domain credentials from LDAP? (Choose two.)

A. Select Static-WEP + 802.1 X on Layer 2 Security.
B. Select WPA+WPA2 on Layer 2 Security.
C. Select WPA Policy with TKIP Encryption.
D. Select PSK under Authentication Key Management.
E. Select 802.1X from under Authentication Key Management.

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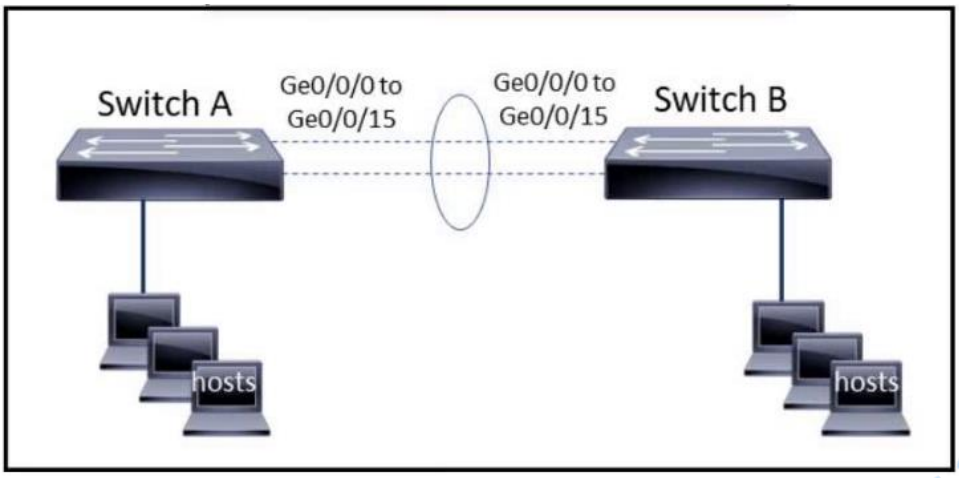
Q383.



Refer to the exhibit. The EtherChannel is configured with a speed of 1000 and duplex as full on both ends of channel group 1. What is the next step to configure the channel on switch A to respond to but not initiate LACP communication?

A. interface range gigabitethernet0/0/0 -15
   channel-group 1 mode on
B. interface range gigabitethernet0/0/0 -15
   channel-group 1 mode desirable
C. interface port-channel 1
   channel-group 1 mode auto
D. interface port-channel 1
   channel-group 1 mode passive

Q384.

Which command entered on a switch configured with Rapid PVST+ listens and learns for a specific time period?

A. switch(config)#spanning-tree vlan 1 priority 4096
B. switch(config)#spanning-tree vlan 1 hello-time 10
C. switch(config)#spanning-tree vlan 1 max-age 6
D. switch(config)#spanning-tree vlan 1 forward-time 20

Q385.

```
RIP     10.1.1.16/28[120/5]   via   F0/0
OSPF    10.1.1.0/24[110/30]   via   F0/1
OSPF    10.1.1.0/24[110/40]   via   F0/2
EIGRP   10.1.0.0/26[90/20]    via   F0/3
EIGRP   10.0.0.0/8 [90/133]   via   F0/4
```

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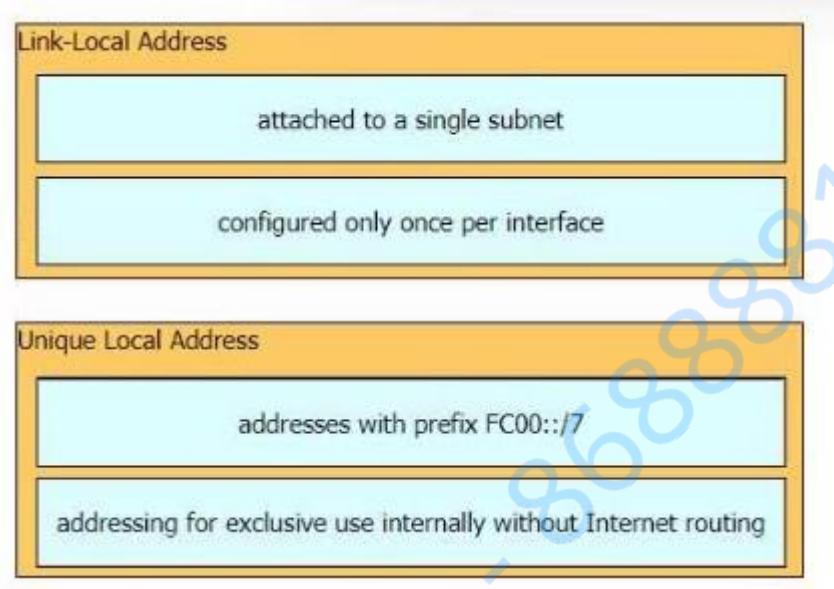
Refer to the exhibit. Packets received by the router from BGP enter via a serial interface at 209.165.201.1. Each route is present within the routing table. Which interface is used to forward traffic with a destination IP of 10.1.1.19?

A. F0/1
B. F0/4
C. F0/3
D. F0/0

Q386.

Drag and drop the IPv6 address type characteristics from the left to the right.



Q387.

What causes a port to be placed in the err-disabled state?

A. nothing plugged into the port
B. link flapping
C. latency
D. shutdown command issued on the port

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Q388.

```
R1# show ip route
     Codes:
     C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP, D -
     EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area N1 - OSPF NSSA
     external type 1, N2 - OSPF NSSA external type 2, E1 - OSPF external type
     1, E2 - OSPF external type 2, E - EGP
     i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, * - candidate default,
     U - per-user static route, o - ODR
Gateway of last resort is not set
C    10.0.0.0/8 is directly connected, Loopback0
     10.0.0.0/8 is variably subnetted, 4 subnets, 2 masks
O    10.0.1.3/32 [110/100] via 10.0.1.100, 00:39:08, Serial0
C    10.0.1.0/24 is directly connected, Serial0
O    10.0.1.5/32 [110/5] via 10.0.1.50, 00:39:08, Serial0
O    10.0.10.0/24 [110/10] via 10.0.1.4, 00:39:08, Gigabit Ethernet 0/0
D    10.0.10.0/24 [90/10] via 10.0.1.5, 00:39:08, Gigabit Ethernet 0/1
```

Refer to the exhibit. Web traffic is coming in from the WAN interface. Which route takes precedence when the router is processing traffic destined for the LAN network at 10.0.10.0/24?

A. via next-hop 10.0.1.5
B. via next-hop 10.0.1.4
C. via next-hop 10.0.1.50
D. via next-hop 10.0.1.100

Q389.

What is the difference between IPv6 unicast and anycast addressing?

A. An individual IPv6 unicast address is supported on a single interface on one node, but an IPv6 anycast address is assigned to a group of interfaces on multiple nodes.
B. IPv6 anycast nodes must be explicitly configured to recognize the anycast address, but IPv6 unicast nodes require no special configuration.
C. IPv6 unicast nodes must be explicitly configured to recognize the unicast address, but IPv6 anycast nodes require no special configuration.
D. Unlike an IPv6 anycast address, an IPv6 unicast address is assigned to a group of interfaces on multiple nodes.

Q390.

An engineer is configuring remote access to a router from IP subnet 10.139.58.0/28. The domain name, crypto keys, and SSH have been configured. Which configuration enables the traffic on the destination router?

A.

```
interface FastEthernet0/0
  ip address 10.122.49.1 255.255.255.248
  ip access-group 10 in

ip access-list standard 10
  permit udp 10.139.58.0 0.0.0.7 host 10.122.49.1 eq 22
```

B.

```
interface FastEthernet0/0
 ip address 10.122.49.1 255.255.255.240
 access-group 120 in

ip access-list extended 120
 permit tcp 10.139.58.0 255.255.255.248 any eq 22
```

C.

```
interface FastEthernet0/0
 ip address 10.122.49.1 255.255.255.252
 ip access-group 110 in

ip access-list extended 110
 permit tcp 10.139.58.0 0.0.0.15 host 10.122.49.1 eq 22
```

D.

```
interface FastEthernet0/0
 ip address 10.122.49.1 255.255.255.252
 ip access-group 105 in

ip access-list standard 105
 permit tcp 10.139.58.0 0.0.0.7 eq 22 host 10.122.49.1
```

Q391.

How does WPA3 improve security?

A. It uses SAE for authentication.
B. It uses RC4 for encryption.
C. It uses TKIP for encryption.
D. It uses a 4-way handshake for authentication.

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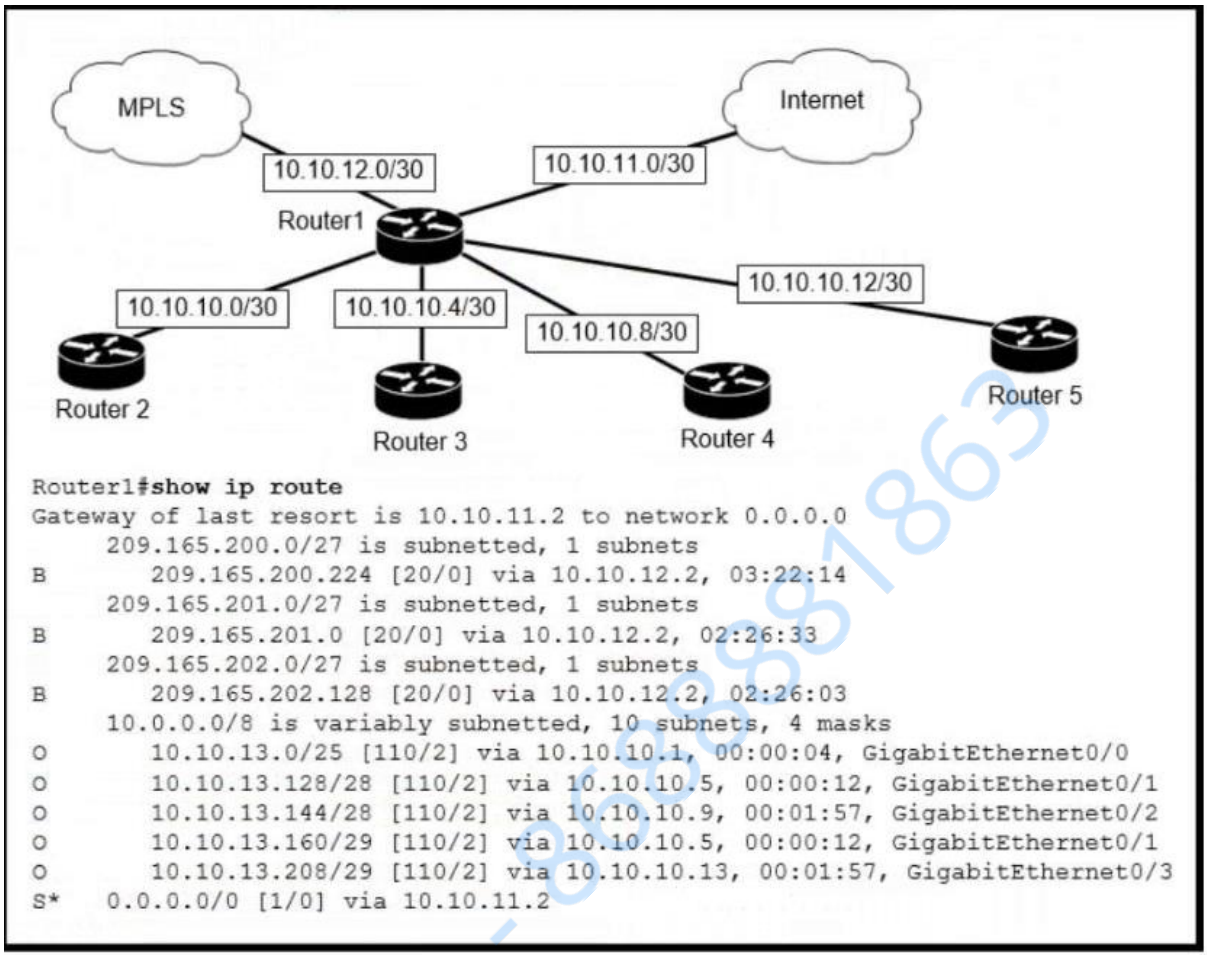
Q392.




```
Router1#show ip route
Gateway of last resort is 10.10.11.2 to network 0.0.0.0
     209.165.200.0/27 is subnetted, 1 subnets
B       209.165.200.224 [20/0] via 10.10.12.2, 03:22:14
     209.165.201.0/27 is subnetted, 1 subnets
B       209.165.201.0 [20/0] via 10.10.12.2, 02:26:33
     209.165.202.0/27 is subnetted, 1 subnets
B       209.165.202.128 [20/0] via 10.10.12.2, 02:26:03
     10.0.0.0/8 is variably subnetted, 10 subnets, 4 masks
O       10.10.13.0/25 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O       10.10.13.128/28 [110/2] via 10.10.10.5, 00:00:12, GigabitEthernet0/1
O       10.10.13.144/28 [110/2] via 10.10.10.9, 00:01:57, GigabitEthernet0/2
O       10.10.13.160/29 [110/2] via 10.10.10.5, 00:00:12, GigabitEthernet0/1
O       10.10.13.208/29 [110/2] via 10.10.10.13, 00:01:57, GigabitEthernet0/3
S*   0.0.0.0/0 [1/0] via 10.10.11.2
```

Refer to the exhibit. To which device does Router1 send packets that are destined to host 10.10.13.165?

A. Router2
B. Router3
C. Router4
D. Router5

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Q393.

```
R1# show ip route | begin gateway
Gateway of last resort is 209.165.200.246 to network 0.0.0.0
S* 0.0.0.0/0 [1/0] via 209.165.200.246, Serial0/1/0
      is directly connected, Serial0/1/0
      172.16.0.0/16 is variably subnetted, 2 subnets, 2 masks
S     172.16.3.0/24 [1/0] via 207.165.200.250, Serial0/0/0
O     172.16.3.0/28 [110/84437] via 207.165.200.254, 00:00:28, Serial0/0/1
      207.165.200.0/24 is variably subnetted, 6 subnets, 2 masks
C     207.165.200.244/30 is directly connected, Serial0/1/0
L     207.165.200.245/32 is directly connected, Serial0/1/0
C     207.165.200.248/30 is directly connected, Serial0/0/0
L     207.165.200.249/32 is directly connected, Serial0/0/0
C     207.165.200.252/30 is directly connected, Serial0/0/1
L     207.165.200.253/32 is directly connected, Serial0/0/1
```

Refer to the exhibit. A packet is being sent across router R1 to host 172.16.3.14. To which destination does the router send the packet?

A. 207.165.200.250 via Serial0/0/0
B. 207.165.200.254 via Serial0/0/1
C. 207.165.200.246 via Serial0/1/0
D. 207.165.200.254 via Serial0/0/0

Q394.

Which REST method updates an object in the Cisco DNA Center Intent API?

A. CHANGE
B. UPDATE
C. POST
D. PUT

Q395.

What are two reasons to deploy private addressing on a network? (Choose two.)

A. to subnet addresses in an organized hierarchy
B. to reduce network maintenance costs
C. to segment local IP addresses from the global routing table
D. to hide sensitive data from access users within an enterprise
E. to route protected data securely via an Internet service provider

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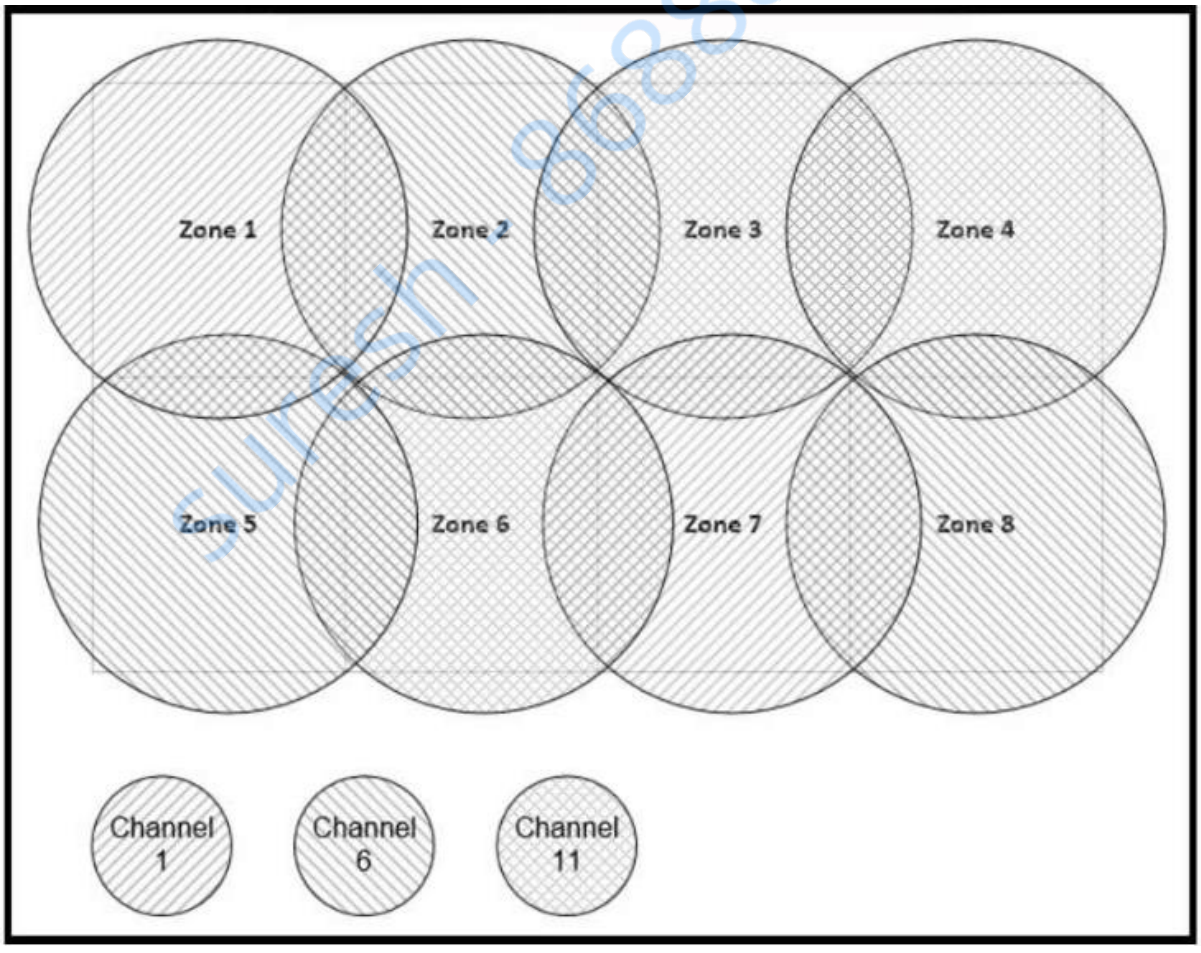
Q396.

Drag and drop the IPv6 DNS record types from the left onto the description on the right.

AAAA	aliases one name to another
CNAME	associates the domain serial number with its owner
NS	correlates a domain with its authoritative name servers
PTR	correlates a host name with an IP address
SOA	supports reverse name lookups

Q397.



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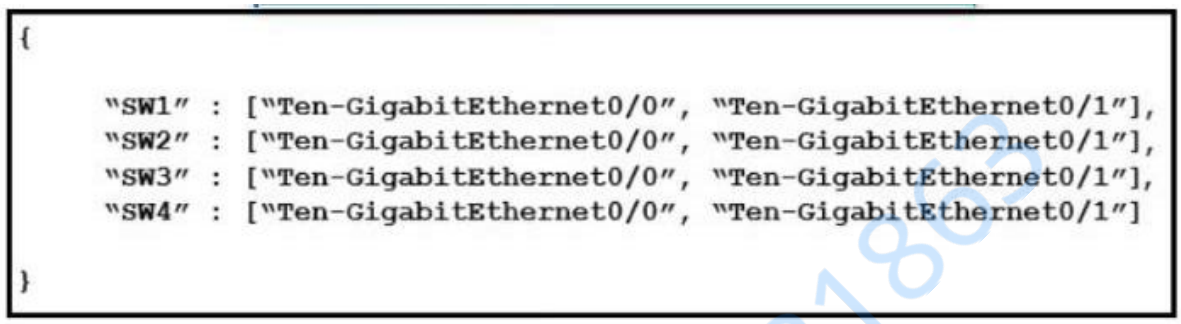
Refer to the exhibit. Between which zones do wireless users expect to experience intermittent connectivity?

A. between zones 1 and 2
B. between zones 2 and 5
C. between zones 3 and 4
D. between zones 3 and 6

Q398.



Refer to the exhibit. How many JSON objects are represented?

A. 1
B. 2
C. 3
D. 4

Q399.

Which action must be taken to assign a global unicast IPv6 address on an interface that is derived from the MAC address of that interface?

A. disable the EUI-64 bit process
B. explicitly assign a link-local address
C. enable SLAAC on an interface
D. configure a stateful DHCPv6 server on the network

Q400.

What is a function of a Next-Generation IPS?

A. correlates user activity with network events
B. serves as a controller within a controller-based network
C. integrates with a RADIUS server to enforce Layer 2 device authentication rules
D. makes forwarding decisions based on learned MAC addresses

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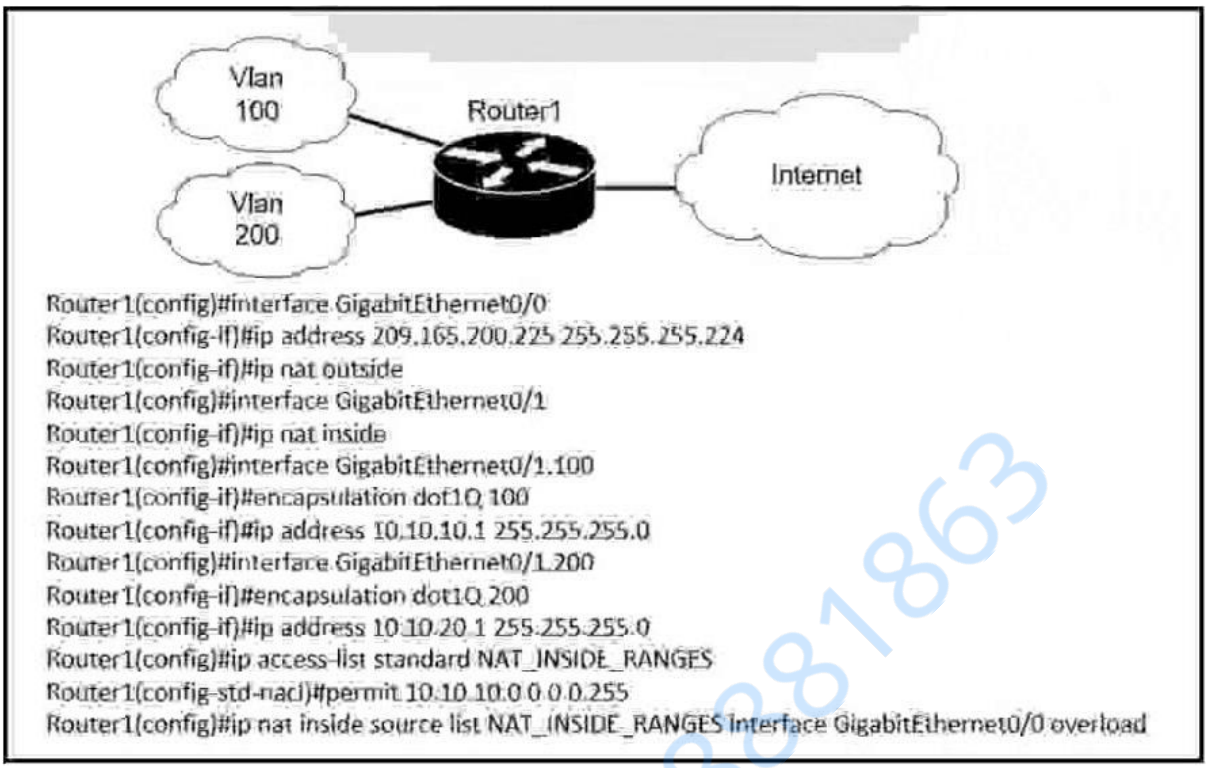
Q401.



Refer to the exhibit. Users on existing VLAN 100 can reach sites on the Internet. Which action must the administrator take to establish connectivity to the Internet for users in VLAN 200?

A. Define a NAT pool on the router.
B. Configure the ip nat outside command on another interface for VLAN 200.
C. Configure static NAT translations for VLAN 200.
D. Update the NAT_INSIDE_RANGES ACL.

Q402.

Drag and drop the characteristics of transport layer protocols from the left onto the corresponding protocols on the light.

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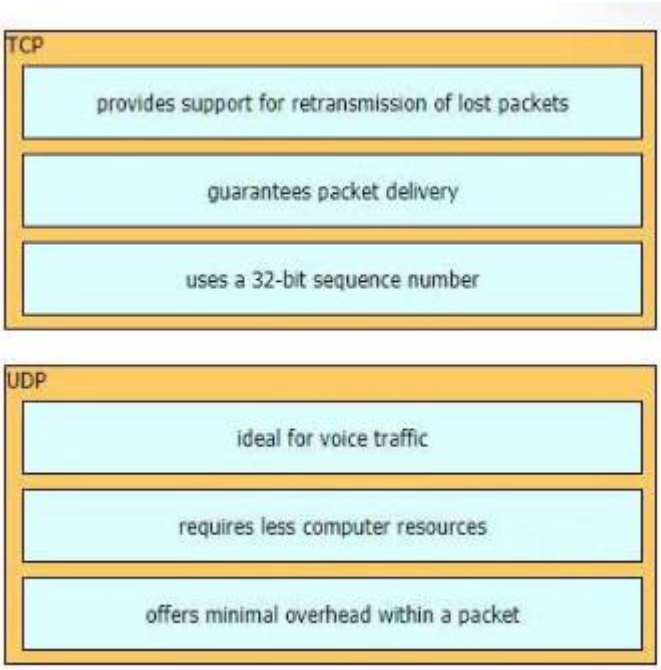
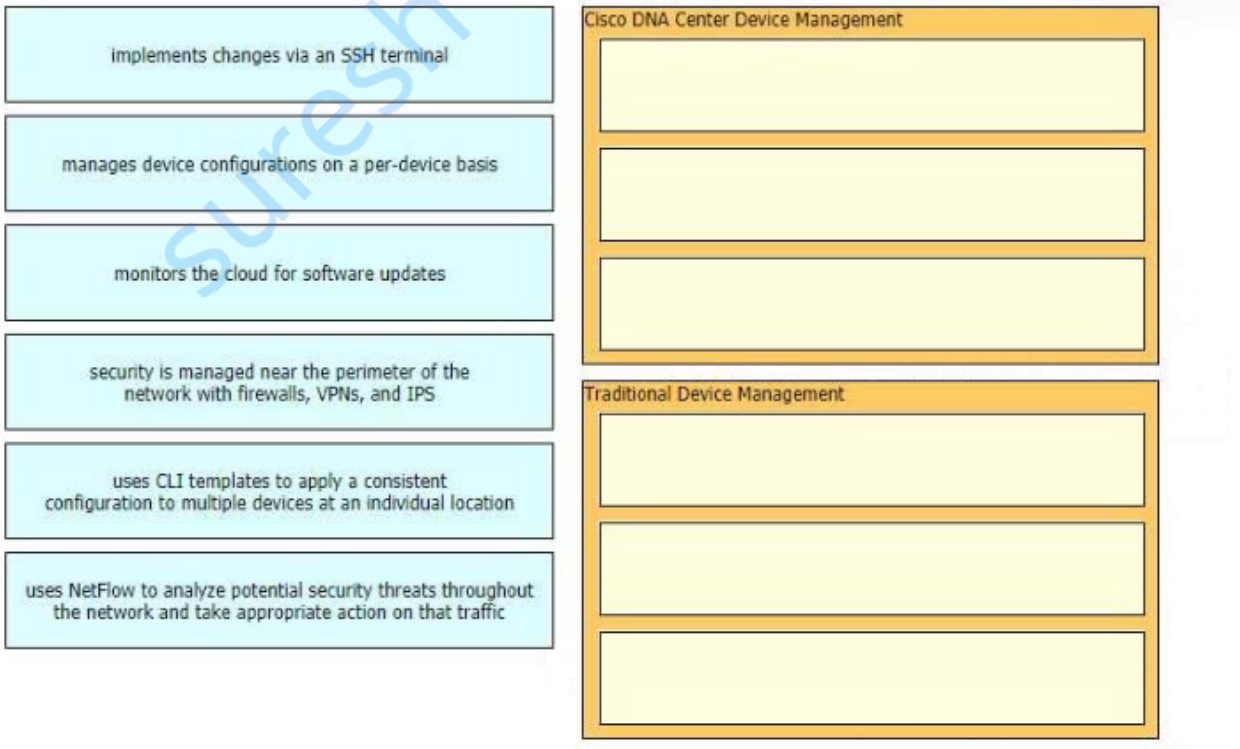


Q403.

Drag and drop the descriptions of device management from the left onto the types of device management on the right.



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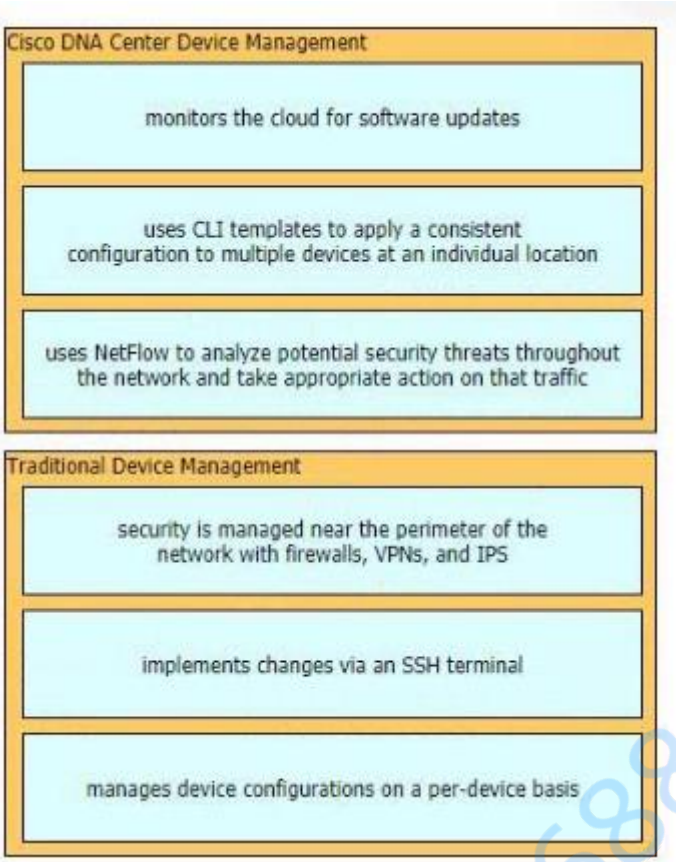
ANSWER:



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Q404.

Which access point mode relies on a centralized controller for management, roaming, and SSID configuration?

A. autonomous mode
B. repeater mode
C. lightweight mode
D. bridge mode

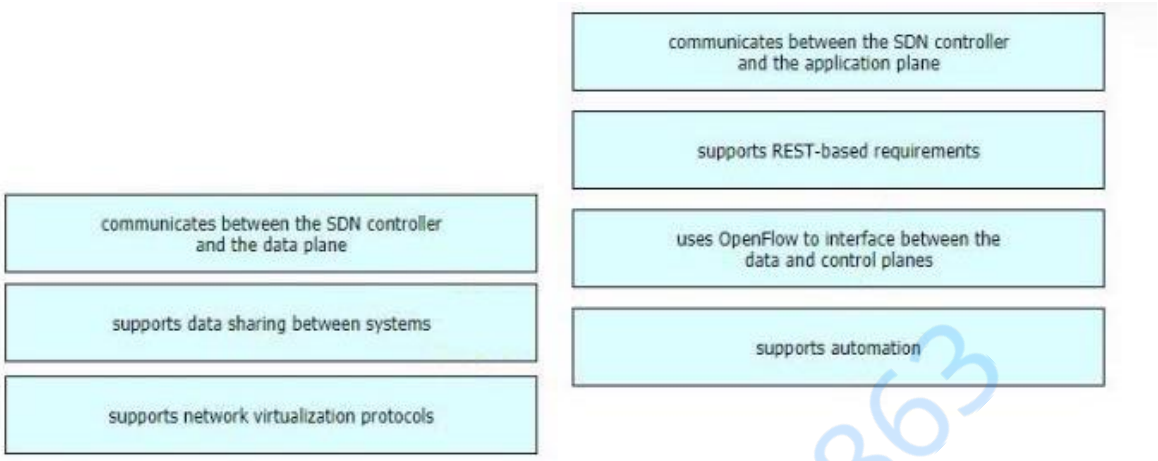
Q405.

When the active router in an HSRP group fails, which router assumes the role and forwards packets?

A. forwarding
B. standby
C. backup
D. listening

Q406.

Drag and drop the characteristics of northbound APIs from the left onto any position on the right. Not all characteristics are used.



Q407.

What is the path for traffic sent from one user workstation to another workstation on a separate switch in a three-tier architecture model?

A. access - core - access
B. access - distribution - core - distribution - access
C. access - core - distribution - access
D. access - distribution - distribution - access

Q408.

When OSPF learns multiple paths to a network, how does it select a route?

A. It divides a reference bandwidth of 100 Mbps by the actual bandwidth of the exiting interface to calculate the route with the lowest cost
B. For each existing interface it adds the metric from the source router to the destination to calculate the route with the lowest bandwidth
C. It counts the number of hops between the source router and the destination to determine the route with the lowest metric.
D. It multiplies the active K values by 256 to calculate the route with the lowest metric

Q409.

Which benefit does controller-based networking provide versus traditional networking?

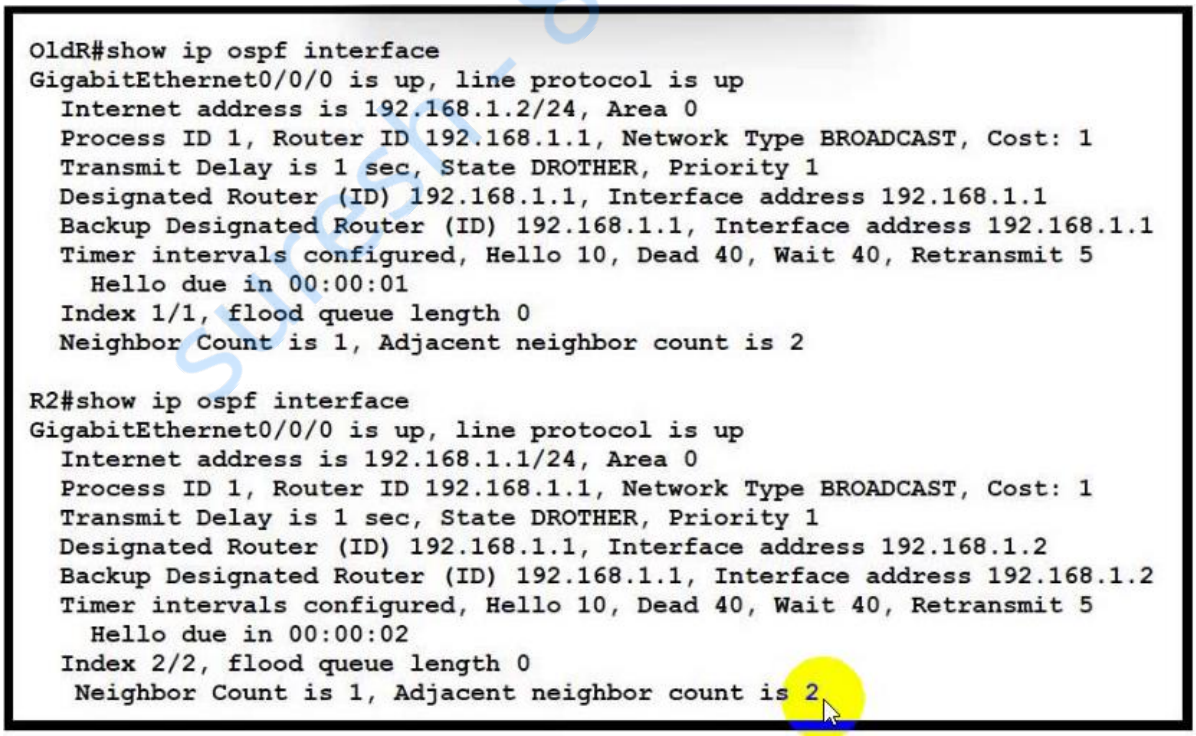
A. combines control and data plane functionality on a single device to minimize latency
B. allows configuration and monitoring of the network from one centralized point
C. provides an added layer of security to protect from DDoS attacks
D. moves from a two-tier to a three-tier network architecture to provide maximum redundancy

Q410.

What is the purpose of the Cisco DNA Center controller?

A. to provide Layer 3 services to autonomous access points
B. to securely manage and deploy network devices
C. to scan a network and generate a Layer 2 network diagram
D. to secure physical access to a data center

Q411.



```
OldR#show ip ospf interface
GigabitEthernet0/0/0 is up, line protocol is up
  Internet address is 192.168.1.2/24, Area 0
  Process ID 1, Router ID 192.168.1.1, Network Type BROADCAST, Cost: 1
  Transmit Delay is 1 sec, State DROTHER, Priority 1
  Designated Router (ID) 192.168.1.1, Interface address 192.168.1.1
  Backup Designated Router (ID) 192.168.1.1, Interface address 192.168.1.1
  Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
    Hello due in 00:00:01
  Index 1/1, flood queue length 0
  Neighbor Count is 1, Adjacent neighbor count is 2

R2#show ip ospf interface
GigabitEthernet0/0/0 is up, line protocol is up
  Internet address is 192.168.1.1/24, Area 0
  Process ID 1, Router ID 192.168.1.1, Network Type BROADCAST, Cost: 1
  Transmit Delay is 1 sec, State DROTHER, Priority 1
  Designated Router (ID) 192.168.1.1, Interface address 192.168.1.2
  Backup Designated Router (ID) 192.168.1.1, Interface address 192.168.1.2
  Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
    Hello due in 00:00:02
  Index 2/2, flood queue length 0
   Neighbor Count is 1, Adjacent neighbor count is 2
```

Refer to the exhibit Router OldR is replacing another router on the network with the intention of having OldR and R2 exchange routes. After the engineer applied the

initial OSPF configuration, the routes were still missing on both devices. Which command sequence must be issued before the clear IP ospf process command is entered to enable the neighbor relationship?

A.
```
OldR(config)#interface g0/0/0
OldR(config-if)#ip ospf hello-interval 15
```

B.
```
OldR(config)#router ospf 1
OldR(config-router)#network 192.168.1.0 255.255.255.0 area 2
```

C.
```
OldR(config)#interface g0/0/0
OldR(config-if)#ip ospf dead-interval 15
```

D.
```
OldR(config)#router ospf 1
OldR(config-router)#no router-id 192.168.1.1
```

Q412.

In software defined architectures, which plane is distributed and responsible for traffic forwarding?

A. control plane
B. management plane
C. policy plane
D. data plane

Q413.

Which command creates a static NAT binding for a PC address of 10 .1.1.1 to the public routable address 209.165.200 225 assigned to the PC?

A. R1(config)#ip nat Inside source static 10.1.1.1 209.165.200.225
B. R1(config)#lp nat outside source static 10.1.1.1 209.165.200.225
C. R1(config|#ip nat outside source static 209.165.200.225 10.1.1.1
D. R1(config)#lp nat inside source static 209.165.200.225 10.1.1.1

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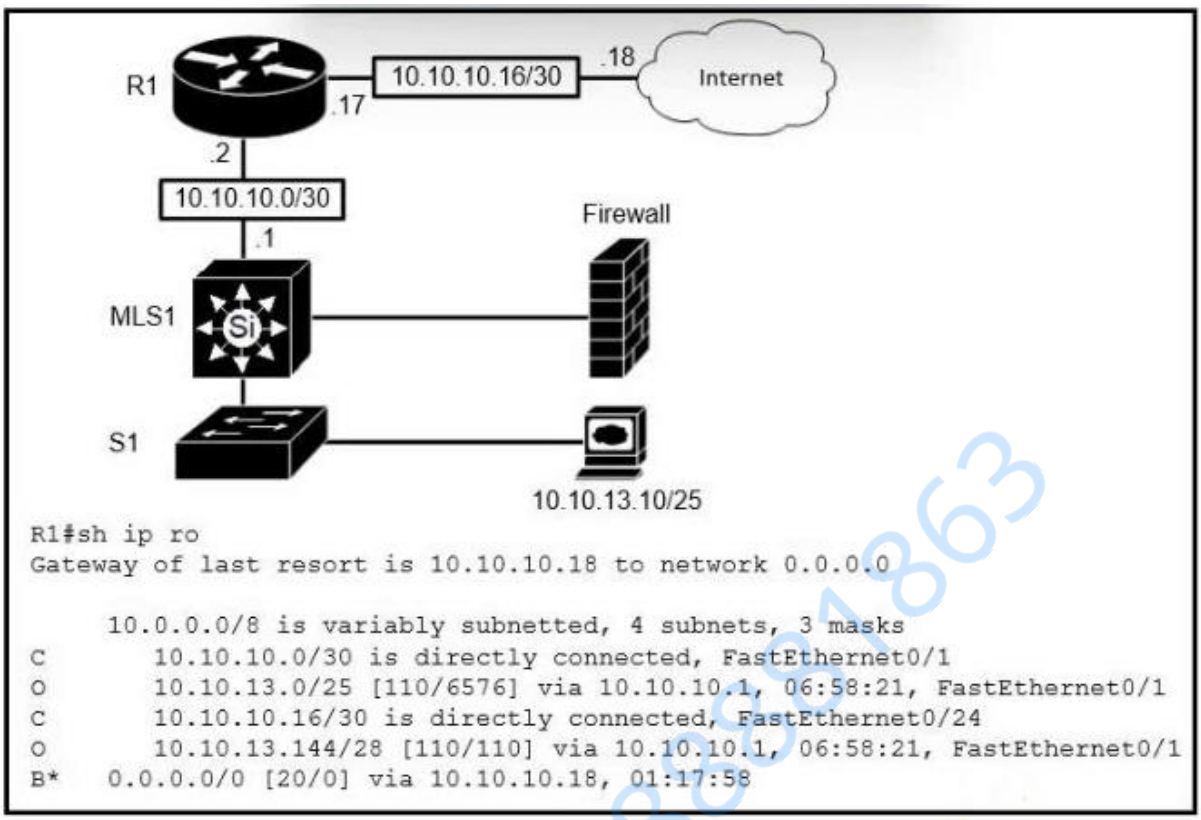
Q414.



Refer to the exhibit. Which route type is configured to reach the Internet?

A. floating static route
B. network route
C. default route
D. host route

Q415.

What is a similarity between 1000BASE-LX and 1000BASE-T standards?

A. Both cable types support LR connectors.
B. Both support up to 550 meters between nodes
C. Both use the same data-link header and trailer formats.
D. Both cable types support RJ-45 connectors.

Q416.

What are two benefits of using the PortFast feature? (Choose two.)

A. Enabled interfaces are automatically placed in listening state
B. Enabled interfaces come up and move to the forwarding state immediately
C. Enabled interfaces never generate topology change notifications.
D. Enabled interfaces wait 50 seconds before they move to the forwarding state
E. Enabled interfaces that move to the learning state generate switch topology change notifications

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Q417.

A network engineer must configure an interface with IP address 10.10.10.145 and a subnet mask equivalent to 11111111. 11111111 .11111111.11111000. Which subnet mask must the engineer use?

A. /29
B. /30
C. /27
D. /28

Q418.

What prevents a workstation from receiving a DHCP address?

A. SSTP
B. VTP
C. 802.1Q
D. DTP

Q419.

A device detects two stations transmitting frames at the same time. This condition occurs after the first 64 bytes of the frame is received. Which interface counter increments?

A. collision
B. late collision
C. CRC
D. runt

Q420.

Which type of traffic is sent with pure IPsec?

A. multicast traffic from a server at one site to hosts at another location
B. spanning-tree updates between switches that are at two different sites
C. broadcast packets from a switch that is attempting to locate a MAC address at one of several remote sites
D. unicast messages from a host at a remote site to a server at headquarters

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Q421.

```
Gateway of last resort is 172.16.2.2 to network 0.0.0.0

     10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C       10.10.8.0/28 is directly connected, GigabitEthernet0/0/2
C       10.10.10.0/24 is directly connected, GigabitEthernet0/0/0
L       10.10.10.3/32 is directly connected, GigabitEthernet0/0/0
     172.16.0.0/16 is variably subnetted, 3 subnets, 2 masks
S       172.16.1.33/32 is directly connected, GigabitEthernet0/0/1
C       172.16.2.0/23 is directly connected, GigabitEthernet0/0/1
L       172.16.2.1/32 is directly connected, GigabitEthernet0/0/1
S*   0.0.0.0/0 [1/0] via 172.16.2.2
```

Refer to the exhibit. A packet sourced from 10.10 10.1 is destined for 10.10.8.14. What is the subnet mask of the destination route?

A. 255.255254.0
B. 255.255 255.240
C. 255 255.255 248
D. 255.255 255.252

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QUESTION NO. 1

A network engineer must configure two new subnets using the address block 10.70.128.0/19 to meet these requirements:

- The first subnet must support 24 hosts
- The second subnet must support 472 hosts
- Both subnets must use the longest subnet mask possible from the address block

Which two configurations must be must to configure the new subnets and meet a requirement to use the first available address in each subnet for the router interfaces? (Choose two)

- [ ] interface vlan 4722
  ip address 10.70.133.17 255.255.255.192
- [ ] interface vlan 3002
  ip address 10.70.147.17 255.255.255.224
- [x] interface vlan 1234
  ip address 10.70.159.1 255.255.254.0
- [x] interface vlan 155
  ip address 10.70.155.65 255.255.255.224
- [ ] interface vlan 1148
  ip address 10.70.148.1 255.255.254.0

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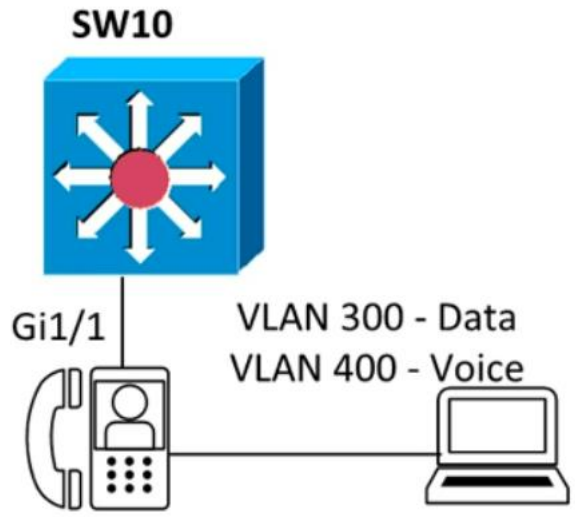
QUESTION NO. 2



Refer to the exhibit. An engineer must configure GigabitEtherenet1/1 to accommodate voice and data traffic. Which configuration accomplishes this task?

- interface gigabitethernet1/1
  switchport mode access
  switchport voice vlan 300
  switchport access vlan 400

- interface gigabitethernet1/1
  switchport mode trunk
  switchport trunk vlan 300
  switchport voice vlan 400

- interface gigabitethernet1/1
  switchport mode trunk
  switchport trunk vlan 300
  switchport trunk vlan 400

- (•) interface gigabitethernet1/1
  switchport mode access
  switchport access vlan 300
  switchport voice vlan 400

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QUESTION NO. 3

Refer the exhibit. Users need to connect to the wireless network with IEEE 802.11r-compatible devices. The connection must be maintained as users travel between floors or to other areas in the building. What must be the configuration of the connection?

A. Disable AES encryption.
B. Enable Fast transition and select the Ft 802.1x option.
C. Enable Fast transition and select the FT PSK option
D. Select the WPA Policy option with the CCKM option.

Answer: C

QUESTION NO. 4

Which JSON data type is an unordered set of attribute-value pairs?

A. Object
B. Boolean
C. Array
D. String

Answer: A

QUESTION NO. 5

Which function is performed by the collapsed core layer in a two-tier architecture?

A. Applying security policies
B. Enforcing routing policies
C. Marking interesting traffic for data policies
D. Attaching users to the edge of the network

Answer: B

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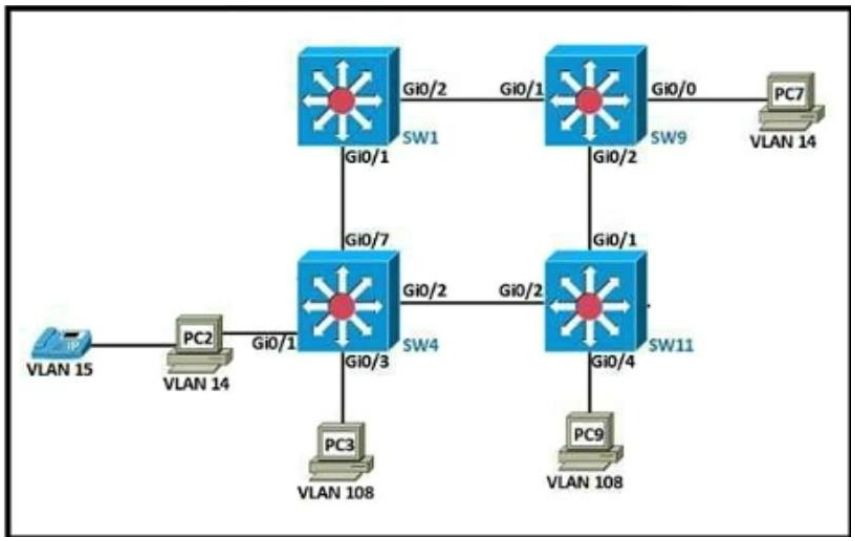
QUESTION NO. 6



Refer to the exhibit. The following must be considered:

- SW1 is fully configured for all traffic
- The SW4 and SW9 links to SW1 has been configured
- The SW4 interface Gi0/1 and Gi0/0 on SW9 have been configured.
- The remaining switches have had all VLANs added to their VLAN database.

Which configuration establishes a successful ping from PC2 to PC7 without interruption to traffic flow between other PCs?

A.

```
SW4
interface Gi0/7
switchport mode trunk
switchport trunk allowed vlan 108
!
interface Gi0/2
switchport mode access
switchport access vlan 14

SW11#
interface Gi0/2
switchport mode trunk
switchport trunk allowed vlan 14,108
!
interface Gi0/1
switchport mode trunk
switchport trunk allowed vlan 14,108

SW9#
interface Gi0/2
switchport mode access
switchport access vlan 14
```

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B.

```
SW4#
interface Gi0/2
switchport mode trunk
switchport trunk allowed vlan 14

SW11#
interface Gi0/1
switchport mode trunk
switchport trunk allowed vlan 14

SW9#
interface Gi0/2
switchport mode trunk
switchport trunk allowed vlan 108
```

C.

```
SW4#
interface Gi0/2
switchport mode access
switchport access vlan 14

SW11#
interface Gi0/2
switchport mode access
switchport access vlan 14
!
interface Gi0/0
switchport mode access
switchport access vlan 14
!
interface Gi0/1
switchport mode trunk

SW9#
interface Gi0/2
switchport mode access
```

D.

```
SW4#
interface Gi0/2
switchport mode trunk
switchport trunk allowed vlan 14,108

SW11#
interface Gi0/2
switchport mode trunk
switchport trunk allowed vlan 14,108
!
interface Gi0/1
switchport mode trunk
switchport trunk allowed vlan 14,108

SW9#
interface Gi0/2
switchport mode trunk
switchport trunk allowed vlan 14
```

Answer: D

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QUESTION NO. 7

```
R1#show ip route
#output suppressed

Gateway of last resort is 192.168.14.4 to network 0.0.0.0

C       172.16.1.128/25 is directly connected, GigabitEthernet1/1/0
C       192.168.12.0/24 is directly connected, FastEthernet0/0
C       192.168.13.0/24 is directly connected, FastEthernet0/1
C       192.168.14.0/24 is directly connected, FastEthernet1/0
C       172.16.16.1 is directly connected, Loopback1
    192.168.10.0/24 is variably subnetted, 3 subnets, 3 masks
0       192.168.10.0/24 [110/2] via 192.168.14.4, 00:02:01, FastEthernet1/0
0       192.168.10.32/27 [110/11] via 192.168.13.3, 00:00:52, FastEthernet0/1
0       192.168.0.0/16 [110/2] via 192.168.15.5, 00:05:01, FastEthernet1/1
D       192.168.10.1/32 [90/52778] via 192.168.12.2, 00:03:44, FastEthernet0/0
0*E2    0.0.0.0/0 [110/1] via 192.168.14.4, 00:00:10, FastEthernet1/0
```

Refer to the exhibit. If R1 receives a packet destined to 172.16.1.1, to which IP address does it send the packet?

A. 192.168.12.2
B. 192.168.13.3
C. 192.168.14.4
D. 192.168.15.5

Answer: C

QUESTION NO. 8
What is the same for both copper and fiber interfaces when using SFP modules?

A. They accommodate single-mode and multi-mode in a single module.
B. They provide minimal interruption to services by being hot-swappable.
C. They offer reliable bandwidth up to 100 Mbps in half duplex mode.
D. They support an inline optical attenuator to enhance signal strength.

Answer: B

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QUESTION NO. 9

The **service password-encryption** command is entered on a router. What is the effect to this configuration?

A. Protects the VLAN database from unauthorized PC connections on the switch
B. Restricts unauthorized users from viewing clear-text passwords in the running configuration
C. Prevents network administrators from configuring clear-text passwords
D. Encrypts the password exchange when a VPN tunnel is established

Answer: B

QUESTION NO. 10

A corporate office uses four floors in a building.

- Floor 1 has 24 users
- Floor 2 has 29 users
- Floor 3 has 28 users
- Floor 4 has 22 users

Which subnet summarizes and gives the most efficient distribution of IP addresses for the router configuration?

A. 192.168.0.0/26 as summary and 192.168.0.0/29 for each floor
B. 192.168.0.0/23 as summary and 192.168.0.0/25 for each floor
C. 192.168.0.0/24 as summary and 192.168.0.0/28 for each floor
D. 192.168.0.0/25 as summary and 192.168.0.0/27 for each floor

Answer: D

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QUESTION NO. 11

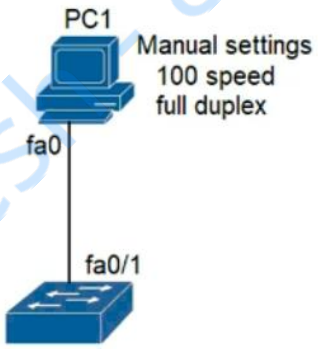
```
R1#sho ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route
       o - ODR, P - periodic downloaded static route, H - NHRP, l - LISP
       + - replicated route, % - next hop override

Gateway of last resort is 10.56.0.1 to network 0.0.0.0

S*    0.0.0.0/0 [1/0] via 10.56.0.1
      10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C        10.56.0.0/17 is directly connected, Vlan56
L        10.56.0.19/32 is directly connected, Vlan56
C        10.56.128.0/18 is directly connected, Vlan57
L        10.56.128.19/32 is directly connected, Vlan57
```

Refer to the exhibit. When router R1 is sending traffic to IP address 10.56.192.1, which interface or next hop address does it use to route the packet?

A. 10.56.0.1
B. 0.0.0.0/0
C. Vlan57
D. 10.56.128.19

Answer: A

QUESTION NO. 12




```
Switch#show interfaces status
Port      Name     Status       Vlan   Duplex  Speed Type
Fa0/1              connected    1      auto    auto  10/100BaseTX
```

Refer to the exhibit. The link between PC1 and the switch is up, but it is performing poorly. Which interface condition is causing the performance problem?

A. There is an issue with the fiber on the switch interface.
B. There is a duplex mismatch on the interface
C. There is an interface type mismatch
D. There is a speed mismatch on the interface

Answer: B

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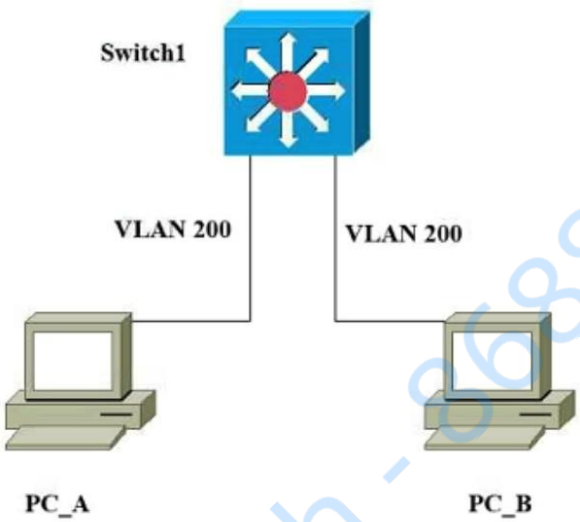
QUESTION NO. 13

What is a function of a remote access VPN?

A. Used exclusively when a user is connected to a company's internal network
B. Establishes a secure tunnel between two branch sites
C. Allows the users to access company internal network resources through as secure tunnel
D. Uses cryptographic tunnelling to protect the privacy of data for multiple users simultaneously

Answer: C

QUESTION NO. 14



Refer to the exhibit. What is expected when PC_A sends data to PC_B after their initial communication?

A. The source MAC address is changed
B. The destination MAC address is replaced with ffff.ffff.ffff.
C. The source and destination MAC address remain the same.
D. The switch rewrites the source and destination MAC addresses with its own

Answer: C

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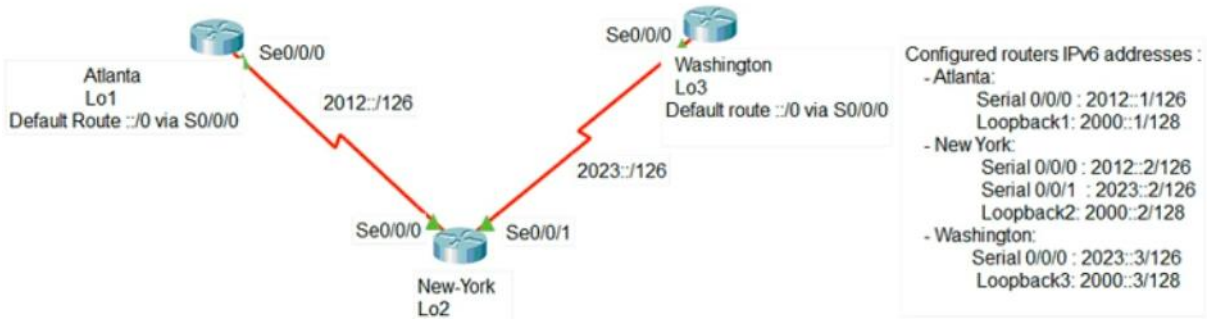
QUESTION NO. 15



Refer to the exhibit. The loopback1 interface of the Atlanta router must reach the loopback3 interface of the Washington router. Which two static host routes must be configured on the New York router? (Choose two)

A. **ipv6 route 2000::3/128 2023::3**
B. **ipv6 route 2000::1/128 2012::1**
C. **ipv6 route 2000::1/128 s0/0/1**
D. **ipv6 route 2000::1/128 2012::2**
E. **ipv6 route 2000::3/128 s0/0/0**

Answer: A, B

QUESTION NO. 16

An engineer needs to configure LLDP to send the port description type length value (TLV). Which command sequence must be implemented?

A. switch(config-line)#**lldp port-description**
B. switch(config)#**lldp port-description**
C. switch#**lldp port-description**
D. switch(config-if)#**lldp port-description**

Answer: B

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QUESTION NO. 17

R1 as an NTP server must have:

- NTP authentication enabled
- NTP packets sourced from interface loopback 0
- NTP stratum 2
- NTP packets only permitted to client IP 209.165.200.225

How should R1 be configured?

```
ntp authenticate
ntp authentication-key 2 md5 CISCO123
ntp interface Loopback0
ntp access-group server-only 10
ntp stratum 2
!
access-list 10 permit 209.165.200.225
```

```
ntp authenticate
ntp authentication-key 2 md5 CISCO123
ntp source Loopback0
nntp access-group server-only 10
ntp master 2
!
access-list 10 permit 209.165.200.225
```

```
ntp authenticate
ntp authentication-key 2 sha1 CISCO123
ntp source Loopback0
ntp access-group server-only 10
ntp master 2
!
access-list 10 permit udp host 209.165.200.225 any eq 123
```

```
ntp authenticate
ntp authentication-key 2 md5 CISCO123
ntp source Loopback0
ntp access-group server-only 10
ntp stratum 2
!
access-list 10 permit udp host 209.165.200.225 any eq 123
```

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QUESTION NO. 18

What are two fundamentals of virtualization? (Choose two)

A. It requires that sine servers, virtual machines, and network gear reside on the Internet.
B. It allows logical network devices to move traffic between virtual machines and the rest of the physical network.
C. The environment must be configured with one hypervisor that serves solely as a network manager to monitor SNMP traffic.
D. It allows multiple operating systems and applications to run independently on one physical server.
E. It allows a physical router to directly connect NICs from each virtual machine into the network.

Answer: B, D

QUESTION NO. 19

In software-defined architecture, which plane handles switching for traffic through a cisco router?

A. Control
B. Data
C. Management
D. Application

Answer: B

QUESTION NO. 20

A cisco engineer is configuring a factory-default router with these three passwords:
- The user EXEC password for console access is p4ssw0rd1
- The user EXEC password for telnet access is s3cr3t2
- The password for privileged EXEC mode is priv4t3p4ss

Which command sequence must he engineer configure?

```
enable secret priv4t3p4ss
!
line con 0
password p4ssw0rd1
!
line vty 0 15
password s3cr3t2
```

```
enable secret priv4t3p4ss
!
line con 0
password p4ssw0rd1
login
!
line vty 0 15
password s3cr3t2
login
```

```
enable secret priv4t3p4ss
!
line con 0
password login p4ssw0rd1
!
line vty 0 15
password login s3cr3t2
login
```

```
enable secret privilege 15 priv4t3p4ss
!
line con 0
password p4ssw0rd1
login
!
line vty 0 15
password s3cr3t2
login
```

Answer:

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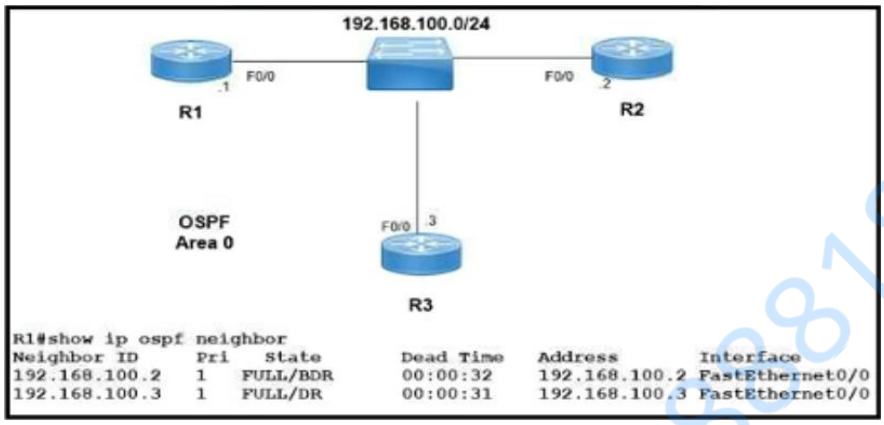
enable secret privilege 15 priv4t3p4ss
!
line con 0
password p4ssw0rd1
login
!
line vty 0 15

QUESTION NO. 21



Refer to the exhibit. Which two configurations must the engineer apply on this network so that R1 becomes the DR? (Choose two)

- R1(config)#router ospf 1
  R1(config-router)#router-id 192.168.100.1
- R3(config)#interface fastethernet 0/0
  R3(config-if)#ip ospf priority 200
- R1(config)#interface fastethernet 0/0
  R1(config-if)#ip ospf priority 0
- R3(config)#interface fastethernet 0/0
  R3(config-if)#ip ospf priority 0
- R1(config)#interface fastethernet 0/0
  R1(config-if)#ip ospf priority 200

Answer: D, E

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QUESTION NO. 22

A network engineer must create a diagram of a multivendor network. Which command must be configured on the cisco devices so that the topology of the network is allowed to be mapped?

A. Device(config)#**lldp run**
B. Device(config)#**cdp run**
C. Device(config-if)#**cdp enable**
D. Device(config)#**flow-sampler-map topology**

Answer: A

QUESTION NO. 23

A router running EIGRP has learned the same route from two different paths. Which parameter does the router use to select the best path?

A. As-path
B. Administrative distance
C. Metric
D. Cost

Answer: D

QUESTION NO. 24

Which action implements physical access control as part of the security program of an organization?

A. Setting up IP cameras to monitor key infrastructure
B. Configuring a password for the console port
C. Backing up syslogs at a remote location
D. Configuring enable passwords on network devices

Answer: B

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QUESTION NO. 25

Which two command sequences must be configured on a switch to establish a layer 3 EtherChannel with an open-standard protocol? (Choose two)

- [x] interface GigabitEthernet0/0/1
  channel-group 10 mode active
- [x] interface port-channel 10
  no switchport
  ip address 172.16.0.1 255.255.255.0
- [ ] interface GigabitEthernet0/0/1
  channel-group 10 mode on
- [ ] interface GigabitEthernet0/0/1
  channel-group 10 mode auto
- [ ] interface port-channel 10
  switchport
  switchport mode trunk

QUESTION NO. 26

```
R1# show ip route

D      192.168.16.0/26 [90/2679326] via 192.168.1.1
R      192.168.16.0/24 [120/3] via 192.168.1.2
O      192.168.16.0/21 [110/2] via 192.168.1.3
i L1   192.168.16.0/27 [115/30] via 192.168.1.4
```

Refer to the exhibit. Which mode does R1 select for traffic that is destined to 192.168.15.2?

A. 192.168.16.0/21
B. 192.168.16.0/24
C. 192.168.16.0/26
D. 192.168.16.0/27

Answer: D

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QUESTION NO. 27

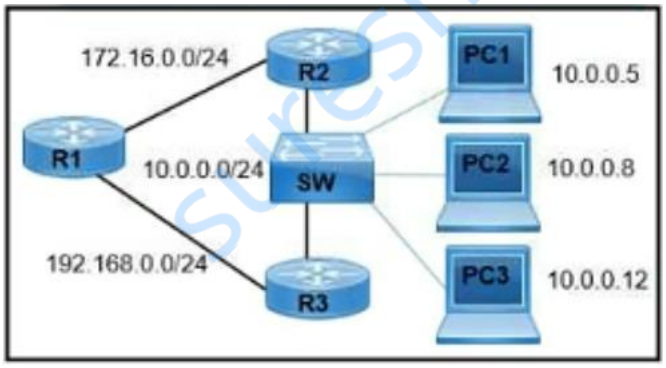
```
R1# show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, * - candidate default
       U - per-user static route, o - ODR
Gateway of last resort is not set
C    172.16.0.0/16 is directly connected, Loopback0
     172.16.0/16 is variably subnetted, 4 subnets, 2 masks
O       172.16.1.3/3  [110/100] via 192.168.7.40, 00:39:08, Serial0
C       172.16.1.0/24 is directly connected, Serial0
O       172.16.1.184/29 [110/5] via 192.168.7.35, 00:39:08, Serial0
O       172.16.3.0/24 [110/10] via 192.168.7.4, 00:39:08, Gigabit Ethernet 0/0
D       172.16.1.0/28 [90/10]  via 192.168.7.7, 00:39:08, Gigabit Ethernet 0/0
```

Refer to the exhibit. Load-balanced traffic is coming in from the WAN destined to a host at 17.16.1.190. which next-hop is used by the router to forward the request?

A. 192.168.7.4
B. 192.168.7.7
C. 192.168.7.35
D. 192.168.7.40

Answer: C

QUESTION NO. 28



Refer to the exhibit. A network engineer must configure R1 so that it sends all packets destined to the 10.0.0.0/24 network to R3, and all packets destined to PC1 to R2. Which configuration must the engineer implement?

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R1(config)#ip route 10.0.0.0 255.255.0.0 172.16.0.2
R1(config)#ip route 10.0.0.5 255.255.255.255 192.168.0.2

R1(config)#ip route 10.0.0.0 255.255.255.0 192.168.0.2
R1(config)#ip route 10.0.0.5 255.255.255.255 172.16.0.2

R1(config)#ip route 10.0.0.0 255.255.0.0 192.168.0.2
R1(config)#ip route 10.0.0.0 255.255.255.0 172.16.0.2

R1(config)#ip route 10.0.0.0 255.255.255.0 172.16.0.2
R1(config)#ip route 10.0.0.5 255.255.255.255 192.168.0.2

QUESTION NO. 29

```
1 [
2    { "switch": "3750", "port": e2 },
3    { "router": "2951", "port": e20 }.
4    { "switch": "3750", "port": e23 }
5 ]
```

Refer to the exhibit. What is represented beginning with line 1 and ending with line 5?

A. Object
B. Value
C. Key
D. array

Answer: A

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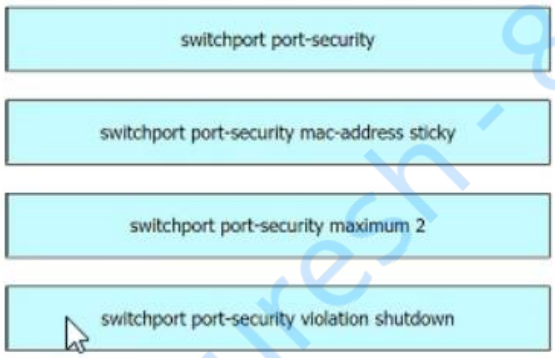
QUESTION NO. 30

An engineer is tasked to configure a switch with port security to ensure devices that forward unicasts, multicasts and broadcasts are unable to flood the port. The port must be configured to permit only two random MAC addresses at a time. Drag and drop the required configuration commands form the left onto the sequence on the right. Not all commands are used.

Answer:



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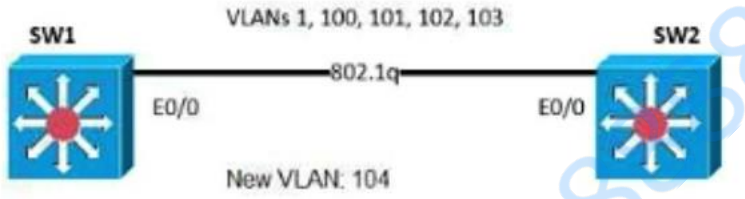
QUESTION NO. 31

Which two capabilities of cisco DNA center make it more extensible as compared to traditional campus device management? (Choose two.)

A. Customized versions for small, medium, and large enterprises
B. SDKs that support interaction with third-party network equipment
C. REST APIs that allow for external applications to interact natively
D. Modular design that is upgradable as needed
E. Adapters that support all families of cisco IOS software

Answer: B, C

QUESTION NO. 32



Refer to the exhibit. An engineer is asked to insert the new VLAN into the existing trunk without modifying anything previously configured. Which command accomplishes this task?

A. **Switchport trunk allowed vlan 100-104**
B. **Switchport trunk allowed vlan 104**
C. **Switchport trunk allowed vlan all**
D. **Switchport trunk allowed vlan add 104**

Answer: D

QUESTION NO. 33

What are two benefits of network automation? (Choose two)

A. Fewer network failures
B. Reduced operational costs
C. Reduced hardware footprint
D. Increased hardware input
E. Increased network security
F. Faster changes with more reliable results

Answer: B, F

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QUESTION NO. 34

Aside from discarding, which two states does the switch port transition through while using RSTP (802.1w)? (Choose two)

A. Blocking
B. Speaking
C. Listening
D. Learning
E. Forwarding

Answer: D, E

QUESTION NO. 35

A network engineer is configuring a switch so that it is remotely reachable via SSH. The engineer has already configured the host name on the router. Which additional command must the engineer configure before entering the command to generate the RSA key?

A. **password** *password*
B. ip ssh authentication-retries 2
C. **ip domain-name** domain
D. crypto key generate rsa modules 1024

Answer: C

QUESTION NO. 36

Why was the RFC 1918 address space defined?

A. Conserve public IPv4 addressing
B. Support the NAT protocol
C. Preserve public IPv6 address space
D. Reduce instances of overlapping IP addresses

Answer: A

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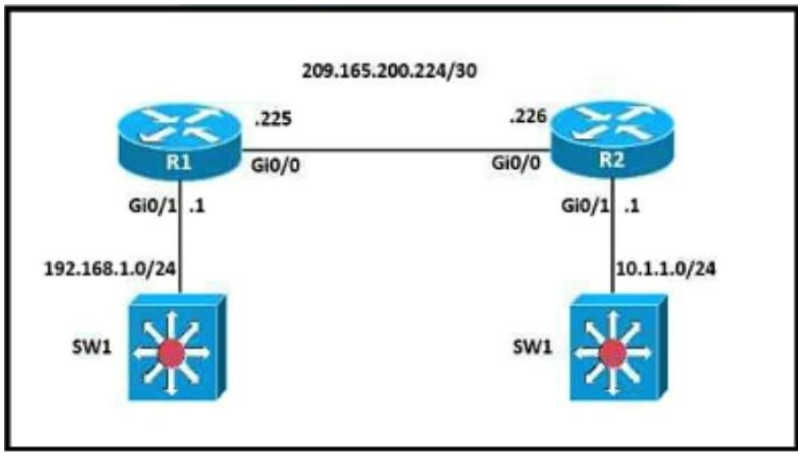
QUESTION NO. 37



Refer to the exhibit. A network engineer is in the process of establishing between two sites. Routers R1 and R2 are partially configured with IP addressing. Both routers have the ability to access devices on their respective LANs. Which command set configured the IP connectivity between devices located on both LANs in each site?

R1
ip route 0.0.0.0 0.0.0.0 209.165.200.225
R2
ip route 0.0.0.0 0.0.0.0 209.165.200.226

R1
ip route 0.0.0.0 0.0.0.0 209.165.200.226
R2
ip route 0.0.0.0 0.0.0.0 209.165.200.225

R1
ip route 192.168.1.0 255.255.255.0 GigabitEthernet0/0
R2
ip route 10.1.1.1 255.255.255.0 GigabitEthernet0/0

R1
ip route 192.168.1.1 255.255.255.0 GigabitEthernet0/1
R2
ip route 10.1.1.1 255.255.255.0 GigabitEthernet0/1

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QUESTION NO. 38

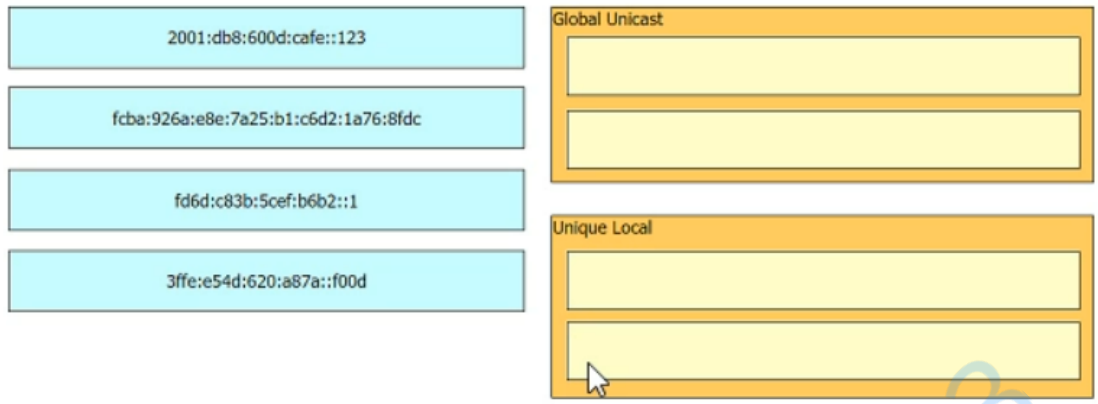
An organization secures its network with muti-factor authentication using an authenticator app on employee smartphones. How is the application secured in the case of a user's smartphone being lost or stolen?

A. The application verifies that the user is in a specific location before it provides the second factor.
B. The application required the user to enter a PIN before it provides that second factor.
C. The application requires an administrator password to reactivate after a configured interval
D. The application challenges a user by requiring an administrator password to reactivate when the smartphone is rebooted

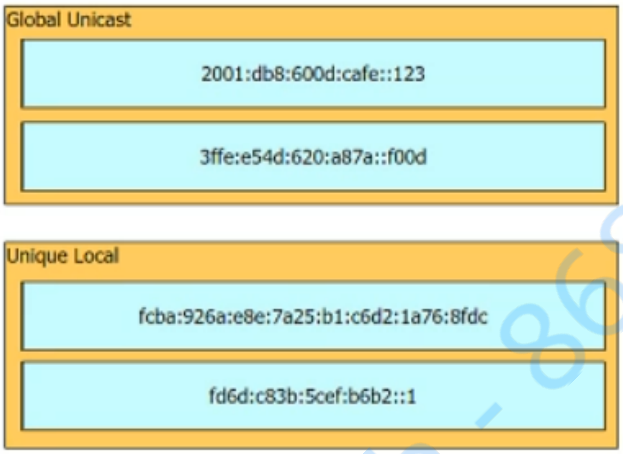
Answer: B

QUESTION NO. 39

Drag and drop the IPv6 addresses from the left onto the corresponding address types on the right.



Answer:



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QUESTION NO. 40

Which type of organization should use a collapsed-core architecture?

A. Small and needs to reduce networking costs
B. Large and must minimize downtime when hardware fails
C. Large and requires a flexible, scalable network design
D. Currently small but is expected to grow dramatically in the near future

Answer: C

QUESTION NO. 41

When configuring a WLAN with WPA2 PSK in the Cisco wireless LAN controller GUI, which two formats are available to select? (Choose two)

A. ASCII
B. Binary
C. Base64
D. Decimal
E. Hexadecimal

Answer: A, E

QUESTION NO. 42

Which command implies the use of SNMPv3?

A. **snmp-server user**
B. **snmp-server host**
C. **snmp-server enables traps**
D. **snmp-server community**

Answer: A

QUESTION NO. 43

```
ip arp inspection vlan 5-10
interface fastethernet 0/1
   switchport mode access
   switchport access vlan 5
```

Refer to the exhibit. What is the effect of this configuration?

A. Egress traffic is passes only if the destination is a DHCP server
B. All ARP packets are dropped by the switch
C. All ingress and egress traffic is dropped because the interface is untrusted
D. The switch discards all ingress ARP traffic with invalid MAC-to-IP address bindings

Answer: D

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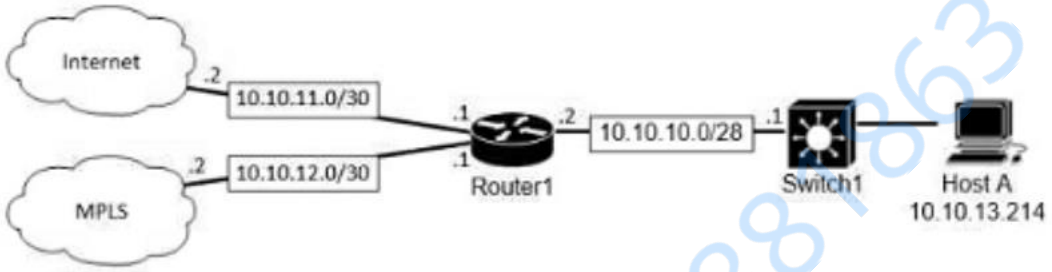
QUESTION NO. 44

When deploying syslog, which severity level logs informational messages?

A. 0
B. 2
C. 4
D. 6

Answer: D

QUESTION NO. 45



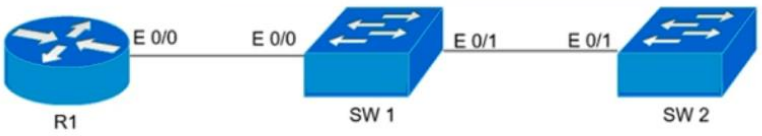

```
Router1#show ip route
Gateway of last resort is 10.10.11.2 to network 0.0.0.0

     209.165.200.0/27 is subnetted, 1 subnets
B       209.165.200.224 [20/0] via 10.10.12.2, 03:22:14
     209.165.201.0/27 is subnetted, 1 subnets
B       209.165.201.0 [20/0] via 10.10.12.2, 02:26:33
     209.165.202.0/27 is subnetted, 1 subnets
B       209.165.202.128 [20/0] via 10.10.12.2, 02:26:03
     10.0.0.0/8 is variably subnetted, 8 subnets, 4 masks
C       10.10.10.0/28 is directly connected, GigabitEthernet0/0
C       10.10.11.0/30 is directly connected, FastEthernet2/0
C       10.10.12.0/30 is directly connected, GigabitEthernet0/1
O       10.10.13.0/25 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O       10.10.13.128/28 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O       10.10.13.144/28 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O       10.10.13.160/29 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O       10.10.13.208/29 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
S*   0.0.0.0/0 [1/0] via 10.10.11.2
```

Refer to the exhibit. Which prefix does Router1 use for traffic to Host A?

A. 10.10.10.0/28
B. 10.10.13.0/25
C. 10.10.13.144/28
D. 10.10.13.208/29

Answer: D

QUESTION NO. 46



R1:	SW1:	SW2:
interface Ethernet0/0 no ip address !	interface Ethernet0/0 switchport trunk encapsulation dot1q switchport mode trunk ! interface Ethernet0/1 switchport trunk allowed vlan 10 switchport trunk encapsulation dot1q switchport mode trunk	interface Ethernet0/1 switchport trunk encapsulation dot1q switchport mode trunk ! interface Ethernet0/2 switchport access vlan 20 switchport mode access

Refer to the exhibit. Which commands are needed to add a sub-interface to Ethernet0/0 on R1 to allow for VLAN 20, with IP address 10.20.20.1/24?

- R1(config)#**interface ethernet0/0**
  R1(config-if)#**encapsulation dot1q 20**
  R1(config-if)#**ip address 10.20.20.1 255.255.255.0**

- R1(config)#**interface ethernet0/0.20**
  R1(config-if)#**encapsulation dot1q 20**
  R1(config-if)#**ip address 10.20.20.1 255.255.255.0**

- R1(config)#**interface ethernet0/0.20**
  R1(config-if)#**ip address 10.20.20.1 255.255.255.0**

- R1(config)#**interface ethernet0/0**
  R1(config-if)#**ip address 10.20.20.1 255.255.255.0**

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QUESTION NO. 47

```
SiteA#show interface TenGigabitEthernet0/1/0
TenGigabitEthernet0/1/0 is up, line protocol is up
  Hardware is BUILT-IN-EPA-8x10G, address is 780c.f02a.db91 (bia 780a.f02b.db91)
  Description: Connection to SiteB
  Internet address is 10.10.10.1/30
  MTU 8146 bytes, BW 10000000 Kbit/sec, DLY 10 usec,
     reliability 166/255, txload 1/255, rxload 1/255
  Full Duplex, 10000Mbps, link type is force-up, media type is SFP-LR
  5 minute input rate 264797000 bits/sec, 26672 packets/sec
  5 minute output rate 122464000 bits/sec, 15724 packets/sec

SiteB#show interface TenGigabitEthernet0/1/0
TenGigabitEthernet0/1/0 is up, line protocol is up
  Hardware is BUILT-IN-EPA-8x10G, address is 780c.f02c.db26 (bia 780c.f02c.db26)
  Description: Connection to SiteA
  Internet address is 10.10.10.2/30
  MTU 8146 bytes, BW 10000000 Kbit/sec, DLY 10 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Full Duplex, 10000Mbps, link type is force-up, media type is SFP-LR
  5 minute input rate 122464000 bits/sec, 15724 packets/sec
  5 minute output rate 264797000 bits/sec, 26672 packets/sec
```

Refer to the exhibit. Shortly after SiteA was connected to SiteB over a new single-mode fiber path, users at SiteA report intermittent connectivity issues with applications hosted at SiteB. What is the cause of the intermittent connectivity issue?

A. High usage is causing high latency
B. Interface errors are incrementing
C. The sites were connected with the wrong cable type
D. An incorrect SPF media type was used at SiteA

Answer: A

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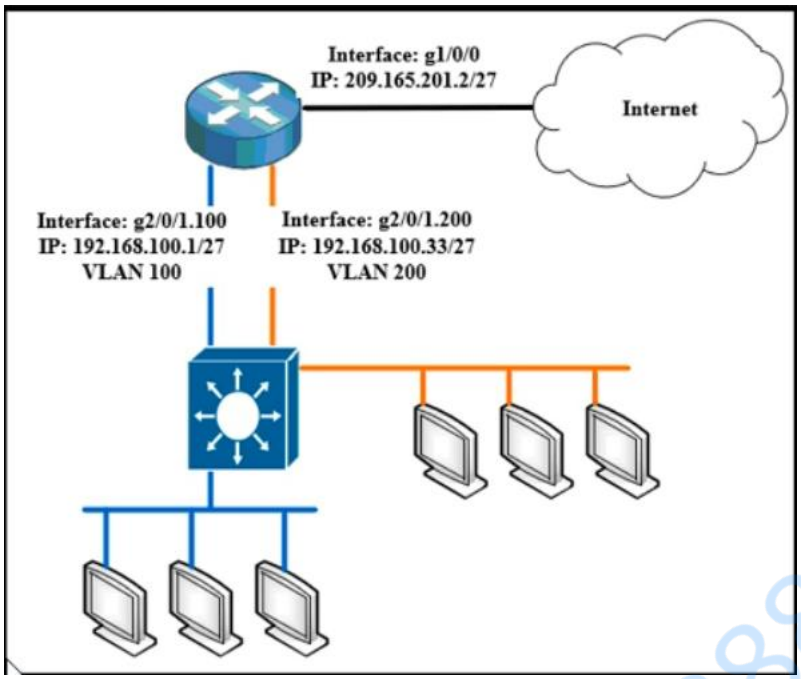
QUESTION NO. 48



Refer to the exhibit. Which configuration must be applied to the router that configures PAT to translate all addresses in VLAN 200 while allowing devices on VLAN 100 to use their own IP addresses?

- Router1(config)#access-list 99 permit 192.168.100.32 0.0.0.31
  Router1(config)#ip nat inside source list 99 interface gi1/0/0 overload
  Router1(config)#interface gi2/0/1.200
  Router1(config-if)#ip nat inside
  Router1(config)#interface gi1/0/0
  Router1(config-if)#ip nat outside

- Router1(config)#access-list 99 permit 192.168.100.0 0.0.0.255
  Router1(config)#ip nat inside source list 99 interface gi1/0/0 overload
  Router1(config)#interface gi2/0/1.200
  Router1(config-if)#ip nat inside
  Router1(config)#interface gi1/0/0
  Router1(config-if)#ip nat outside

- Router1(config)#access-list 99 permit 209.165.201.2 0.0.0.0
  Router1(config)#ip nat inside source list 99 interface gi1/0/0 overload
  Router1(config)#interface gi2/0/1.200
  Router1(config-if)#ip nat inside
  Router1(config)#interface gi1/0/0
  Router1(config-if)#ip nat outside

- Router1(config)#access-list 99 permit 209.165.201.2 255.255.255.255
  Router1(config)#ip nat inside source list 99 interface gi1/0/0 overload
  Router1(config)#interface gi2/0/1.200
  Router1(config-if)#ip nat inside
  Router1(config)#interface gi1/0/0
  Router1(config-if)#ip nat outside

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QUESTION NO. 49

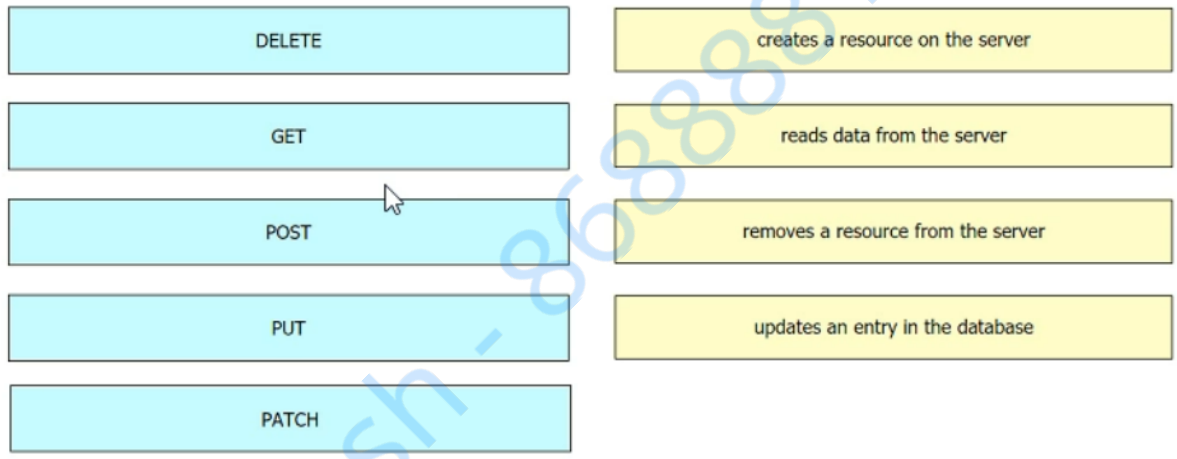
which service is missing when RADIUS is selected to provide management access to the WLC?

A. Authorization
B. Authentication
C. Accounting
D. Confidentiality

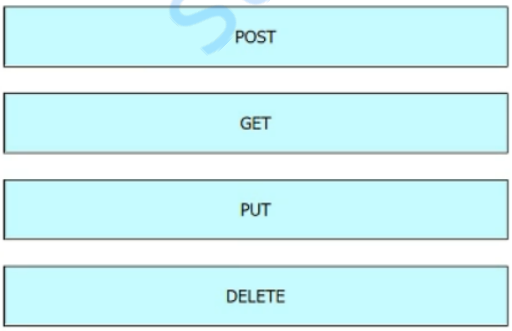
Answer: A

QUESTION NO. 50

Drag and drop the REST API call methods for HTTP from the left onto the actions they perform on the right. Not all methods are used.



Answer:



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QUESTION NO. 51

```
     10.0.0.0/24 is subsetted, 1 subnets
C       10.0.0.0 is directly connected, FastEthernet0/1
C    172.160.0/16 is directly connected, FastEthernet0/0
D    192.168.0.0/24 [90/30720] via 172.16.0.2, 00:00:03, FastEthernet0/0
```

Refer to Exhibit. Which route type does the routing protocol Code D represent in the output?

A. Internal BGP route
B. Statically assigned route
C. /24 route if a locally configured IP
D. Route learned through EIGRP

ANSWER: D

QUESTION NO. 52

```
R1# sh ip ospf int gig0/0
Gig0/0 is up, line protocol is up
  Internet Address 10.201.24.8/28, Area 1, Attached via Network Statement
  Process ID 100, Router ID 192.168.1.1, Network Type BROADCAST, Cost: 1
  Topology-MTID    Cost    Disabled    Shutdown      Topology Name
        0          1         no          no            Base
  Transmit Delay is 1 sec, State DR, Priority 1
  Designated Router (ID) 192.168.1.1, Interface address 10.201.24.8
  No backup designated router on this network
  Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
    oob-resync timeout 40
    Hello due in 00:00:07

R2#sh ip ospf int gig0/0
gig0/0 is up, line protocol is up
  Internet Address 10.201.24.1/28, Area 1
  Process ID 100, Router ID 172.16.1.1, Network Type BROADCAST, Cost: 1
  Transmit Delay is 1 sec, State DR, Priority 1
  Designated Router (ID) 172.16.1.1, Interface address 10.201.24.1
  No backup designated router on this network
  Timer intervals configured, Hello 20, Dead 80, Wait 80, Retransmit 5
```

Refer to Exhibit. Which action establishes the OSPF neighbor relationship without forming an adjacency?

A. Modify process ID
B. Modify priority
C. Modify network type
D. Modify hello interval

ANSWER: D

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QUESTION NO. 53

```
interface GigabitEthernet0/1
ip address 192.168.1.2 255.255.255.0
ip access-group 2699 in
!
access-list 2699 deny icmp any 10.10.1.0 0.0.0.255 echo
access-list 2699 deny ip any 10.20.1.0 0.0.0.255
access-list 2699 permit ip any 10.10.1.0 0.0.0.255
access-list 2699 permit tcp any 10.20.1.0 0.0.0.127 eq 22
```

Refer to the exhibit. A network administrator must permit SSH access to remotely manage routers in network. The operations team resides on the 10.20.1.0/25 network. Which command will accomplish this task?

A. access-list 2699 permit udp 10.20.1.0 0.0.0.255
B. no access-list 2699 deny tcp any 10.20.1.0 0.0.0.127 eq 22
C. access-list 2699 permit tcp any 10.20.1.0 0.0.0.255 eq 22
D. no access-list 2699 deny ip any 10.20.1.0 0.0.0.255

ANSWER: D

QUESTION NO. 54

What is the purpose of using First Hop Redundancy Protocol on a specific subnet?

A. ensures a loop-free physical topology
B. filters traffic based on destination IP addressing
C. sends the default route to the hosts on a network
D. forwards multicast hello messages between routers

ANSWER: A

QUESTION NO. 55

Which action does the router take as if forwards a packet through the network?

A. The router replaces the source and destination labels with the sending router interface label as a source and the next hop label as a destination.
B. The router encapsulates the original packet and then includes a tag that identifies the source route MAC address and transmits it transparently to the destination.
C. The router encapsulates the source and destination IP addresses with the sending router IP address as the source and the neighbor IP address as the destination
D. The router replaces the source and destination MAC addresses with the sending router MAC address as the source and neighbor MAC address as the destination.

ANSWER: C

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QUESTION NO. 56

By default, how does EIGRP determine the metric of a route for the routing table?

A. It uses the bandwidth and delay values of the path to calculate the route metric.
B. It uses a default metric of 10 for all routes that are learned by the router
C. It counts the number of hops between the receiving and destination routers and uses that value as the metric.
D. It uses a reference bandwidth and the actual bandwidth of the connected link to calculate the route metric.

ANSWER: A

QUESTION NO. 57

Which function forwards frames to ports that have a matching destination MAC address?

A. Frame flooding
B. Frame filtering
C. Frame pushing
D. Frame switching

ANSWER: D

QUESTION NO. 58

Which configuration management mechanism uses TCP port 22 by default when communicating with managed nodes?

A. Puppet
B. Chef
C. Ansible
D. Python

ANSWER: C

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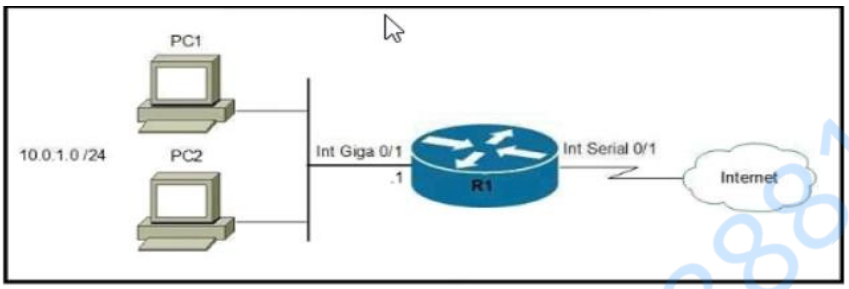
QUESTION NO. 59

Which two network actions occur withing the data plane? (Choose two)

A. Run routing protocols
B. Make a configuration change from an incoming NETCONF RPC.
C. Add or remove an 802.1Q trucking header.
D. Match the destination MAC address to the MAC address table.
E. Reply to an incoming ICMP echo request.

ANSWER: C, D

QUESTION NO. 60



Refer to the exhibit. Which two commands must be configured on router R1 to enable the router to accept secure remote-access connections? (Choose Two)

A. ip ssh pubkey-chain
B. username cisco password 0 cisco
C. crypto key generate rsa
D. Transport input telnet
E. Login console

ANSWER: B, C

QUESTION NO. 61

Which interface mode must be configured to connect the lightweight APs in a centralized architecture?

A. WLAN dynamic
B. Trunk
C. Access
D. management

ANSWER: A

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QUESTION NO. 62

```
R1#show run
Building configuration...
!
hostname R1
!
username CNAC password 0 cona123
!
ip domain-name CNAC.com
!
interface GigabitEthernet0/0/0
 ip address 192.168.1.10 255.255.255.0
 duplex auto
 speed auto
!
line vty 0 15
 login local

R1#show crypto key mypubkey rsa

R1#show ssh
%No SSHv2 server connections running.
%No SSHv1 server connections running.
```

Refer to exhibit. Which two commands must be added to update the configuration of router R1 so that it accepts only encrypted connections? (Choose two.)

A. transport input ssh
B. username CNAC secret R!41!3705926@
C. crypto key generate rsa 1024
D. line vty 0 4
E. ip ssh version 2

ANSWER: A, C

QUESTION NO. 63

What is a benefit of VRRP?

A. It provides the default gateway redundancy on a LAN using two or more routers.
B. It provides traffic load balancing to destinations that are more than two hops from the source.
C. It prevents loops in a Layer 2 LAN by forwarding all traffic to a root bridge, which then makes the final forwarding decision.
D. It allows neighbors to share routing table information between each other.

ANSWER: A

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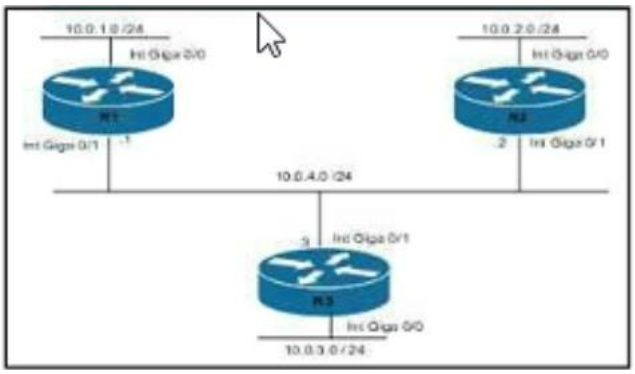
QUESTION NO. 64

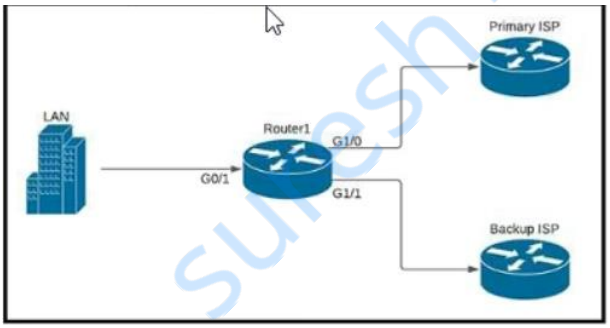


Refer to the Exhibit. Routers R1 and R3 have the default configuration. The router R2 priority is set to 99. Which commands on R3 configure it as the DR in the 10.0.4.0/24 network?

A. R3(config)#**interface Gig0/0**
R3(config-if)#**ip ospf priority 100**
B. R3(config)#**interface Gig0/0**
R3(config-if)#**ip ospf priority 1**
C. R3(config)#**interface Gig0/1**
R3(config-if)#**ip ospf priority 0**
D. R3(config)#**interface Gig0/1**
R3(config-if)#**ip ospf priority 100**

ANSWER: C

QUESTION NO. 65



Refer to the exhibit. A company is failover plan and must implement the default routes in such a way that a floating static route will assume traffic forwarding when the primary link goes down. Which primary route configuration must be used?

A. Ip route 0.0.0.0 0.0.0.0 192.168.0.2
B. ip route 0.0.0.0 0.0.0.0 192.168.0.2 GigabitEthernet1/0
C. ip route 0.0.0.0 0.0.0.0 192.168.0.2 floating
D. ip route 0.0.0.0 0.0.0.0 192.168.0.2 tracked

ANSWER: B

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QUESTION NO. 66

Which QoS traffic handling technique retains access packets in a queue and reschedules these packets for later transmission when the configured maximum bandwidth has been surpassed?

A. traffic policing
B. weighted random early detection
C. traffic prioritization
D. traffic shaping

ANSWER: D

QUESTION NO. 67

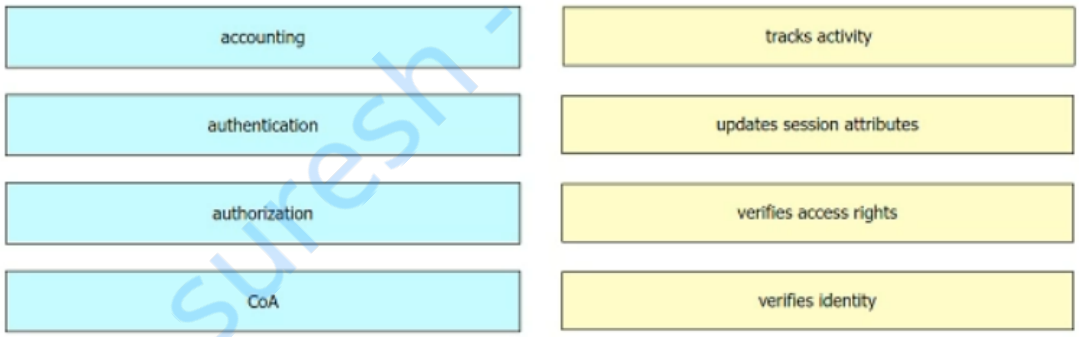
What is a function of Opportunistic Wireless Encryption in an environment?

A. provide authentication
B. protect traffic on open networks
C. offer compression
D. increase security by using a WEP connection

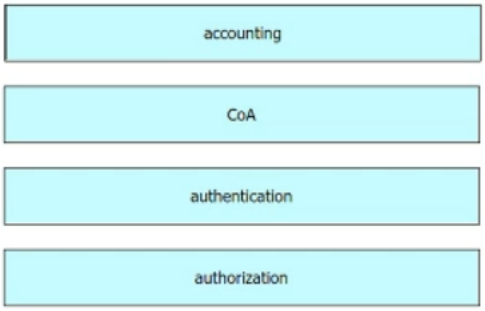
ANSWER: B

QUESTION NO. 68

Drag and drop the AAA terms from the left onto the description s on the right.



Answer:



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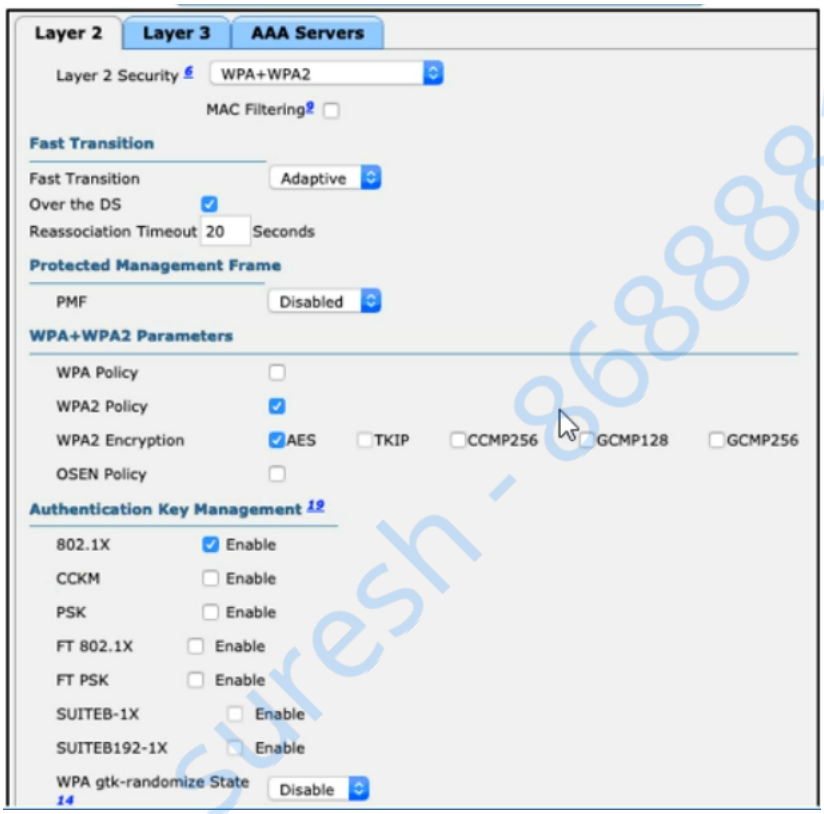
QUESTION NO. 69

A network administrator is setting up a new IPv6 network using the 64-bit address 2001:0EB8:00C1:2200:0001:00000:00000:03331/64. To simplify the configuration the administrator has decided to compress the address. Which IP address must the administrator configure?

A. ipv6 address 2001:EB8:C1:22:1::331/64
B. ipv6 address 21:EB8:C1:2200:1331/64
C. ipv6 address 2001:EB8:C1:2200:1:0000:331/64
D. ipv6 address 2001:EB8:C1:2200:1::331/64

ANSWER: D

QUESTION NO. 70



Refer to the exhibit. Clients on the WLAN are required to use 802.11r. What action must be taken to meet the requirement?

A. Under Protected Management frames, set the PMF option to required.
B. Enable CCKM under Authentication Key Management.
C. Set the Fast Transaction option and the WPA gtk-randomize State to disable
D. Set the Fast Transition option to Enable and enable FT 802.1x under Authentication Key Management

ANSWER: D

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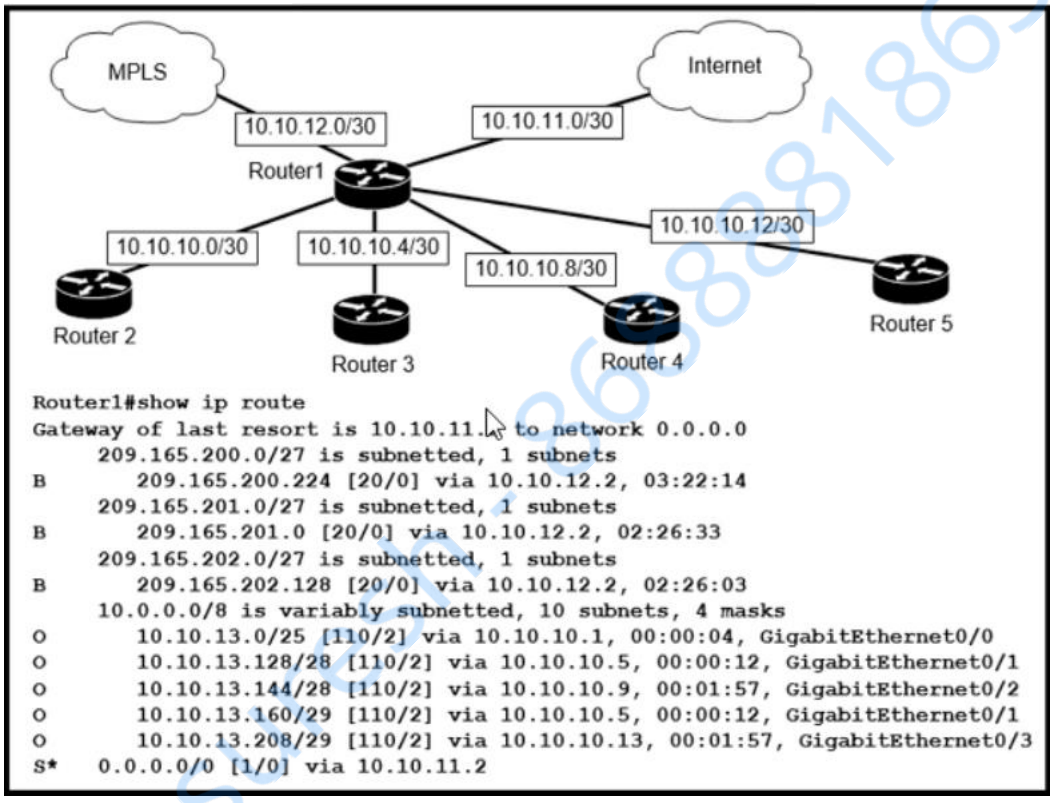
QUESTION NO. 71

Which command must be entered to configure a DHCP relay?

A. ip dhcp relay
B. ip dhcp pool
C. ip address dhcp
D. ip helper-address

ANSWER: D

QUESTION NO. 72



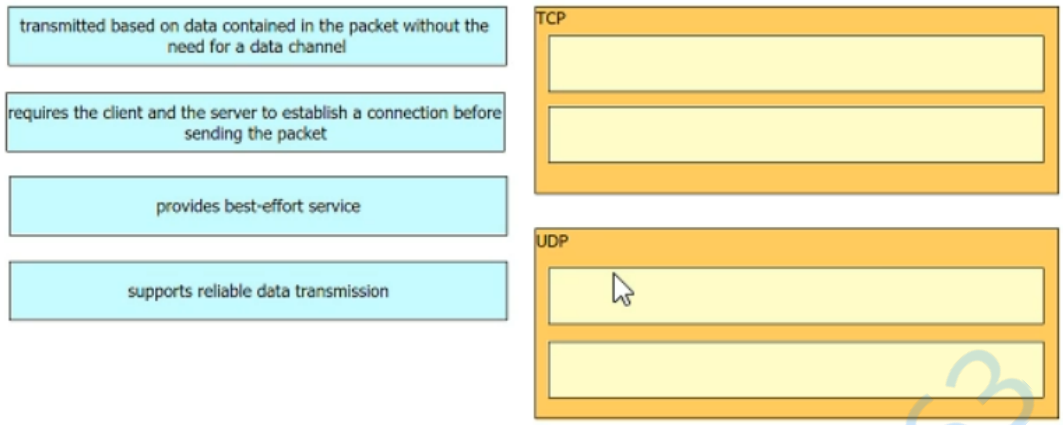
Refer to the exhibit. Which next-hop IP address does Router1 use for packets destined to host 10.10.13.158?

A. 10.0.10.9
B. 10.10.10.5
C. 10.10.11.2
D. 10.10.12.2

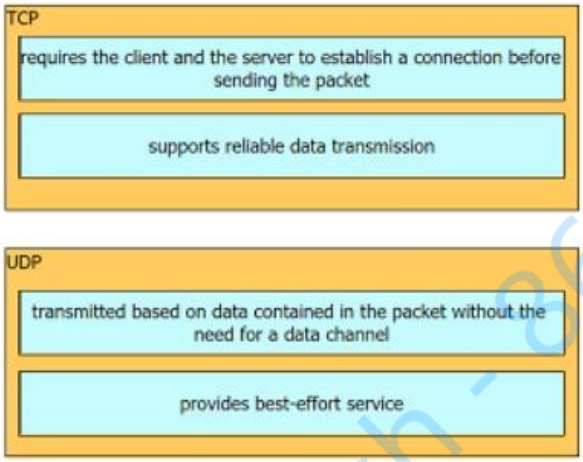
Answer: A

QUESTION NO. 73

Drag and drop the TCP or UDP details from the left onto their corresponding protocols on the right.



Answer:



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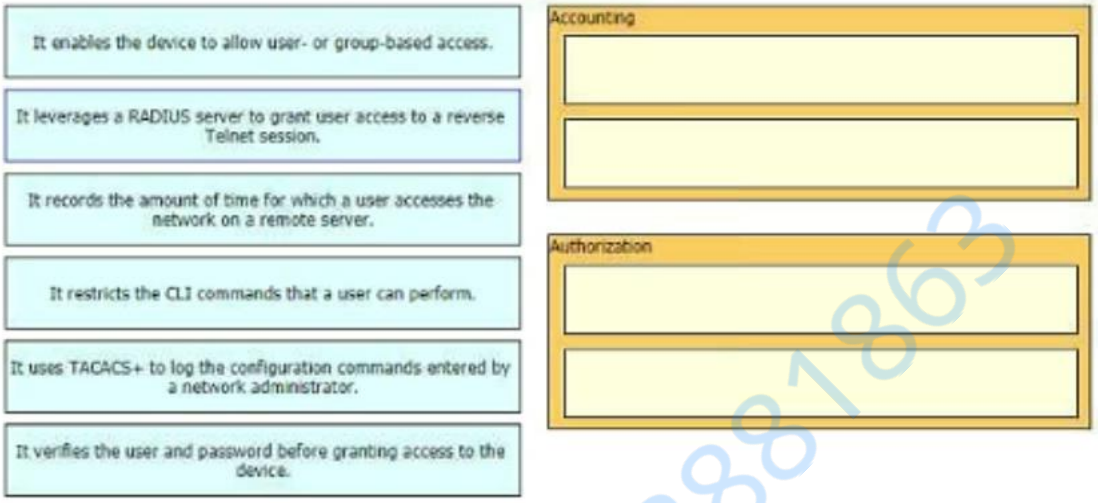
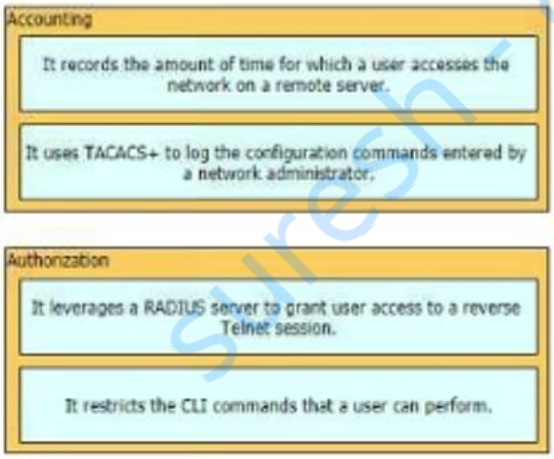
QUESTION NO. 74

Drag and drop the AAA features from the left onto the corresponding AAA security services on the right. Not all options are used.



Answer:



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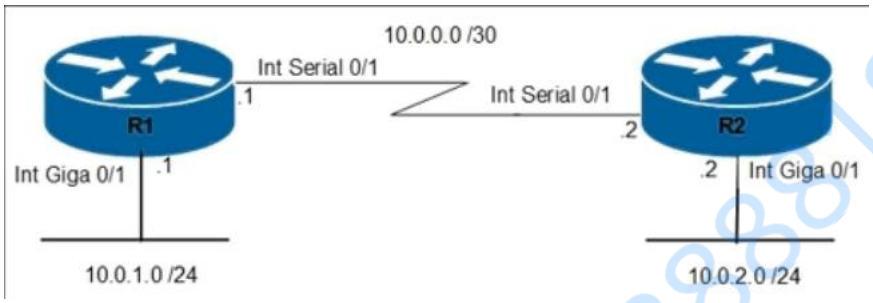
QUESTION NO. 75

Which field within the access-request packet is encrypted by RADIUS?

A. authorized services
B. password
C. authenticator
D. username

ANSWER: B

QUESTION NO. 76



Refer to the exhibit. Which command configures OSPF on the point-to-point link between routers R1 and R2?

A. **router-id 10.0.0.15**
B. **neighbor 10.1.2.0 cost 180**
C. **network 10.0.0.0 0.0.0.255 area 0**
D. **ip ospf priority 100**

Answer: C

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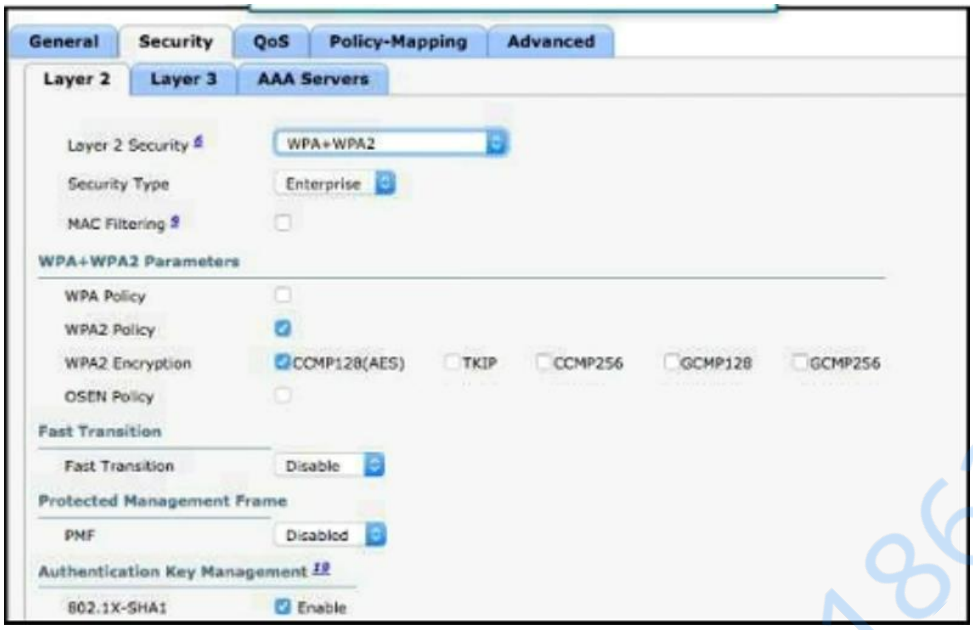
QUESTION NO. 77



Refer to the exhibit. What must be configured to enable 802.11w on the WLAN?

A. Set Fast Transition to Enabled
B. Enable WPA Policy
C. Set PMF to Required
D. Enable MAC Filtering

Answer: B

QUESTION NO. 78

```
R1# show ip route | begin gateway
Gateway of last resort is 209.165.200.246 to network 0.0.0.0
S* 0.0.0.0/0 [1/0] via 209.165.200.246, Serial0/1/0
      is directly connected, Serial0/1/0
      172.16.0.0/16 is variably subnetted, 3 subnets, 3 masks
S     172.16.0.0/24 [1/0] via 207.165.200.250, Serial0/0/0
O     172.16.0.128/25 [110/38443] via 207.165.200.254, 00:00:23, Serial0/0/1
D     172.16.0.192/29 [90/3184439] via 207.165.200.254, 00:00:25, Serial0/0/1
      209.165.200.0/24 is variably subnetted, 4 subnets, 2 masks
C     209.165.200.248/30 is directly connected, Serial0/0/0
L     209.165.200.249/32 is directly connected, Serial0/0/0
C     209.165.200.252/30 is directly connected, Serial0/0/1
L     209.165.200.253/32 is directly connected, Serial0/0/1
```

Refer to the exhibit. With which metric was the route to host 172.16.0.202 learned?

A. 0
B. 110
C. 38443
D. 3184439

Answer: C

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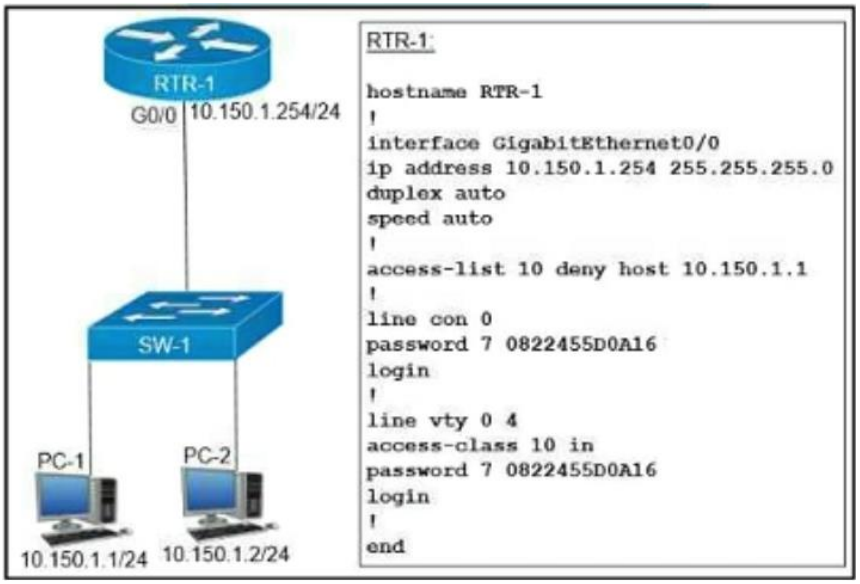
QUESTION NO. 79



Refer to the exhibit. An access list is created to deny Telnet access from host PC-1 to RTR-1 and allow access from all other hosts. A Telnet attempt from PC-2 gives the message: "% connection refused by remote host" without allowing Telnet access from PC-1, which action must be taken to permit the traffic?

A. Add the **access-list 10 permit any** command to the configuration.
B. Remove the **access-class 10 in** command from line vty 0 4.
C. Add the **ip access-group 10 out** command to interface g0/0.
D. Remove the **password** command from line vty 0 4.

Answer: A

QUESTION NO. 80

```
CPE# show ip route
     192.168.1.0/24 is variably subnetted, 3 subnets, 3 masks
B    192.168.1.0/24 [20/1] via 192.168.12.2, 00:00:06
R    192.168.1.128/25 [120/5] via 192.168.13.3, 00:02:35, Ethernet0/1
O    192.168.1.192/26 [110/11] via 192.168.14.4, 00:02:23, Ethernet0/2
D    192.168.1.224/27 [90/1024640] via 192.168.15.5, 00:01:40, Ethernet0/3
```

Refer to the exhibit. All traffic enters the CPE router from interface Serial0/3 with an IP address of 192.168.50.1. Web traffic from the WLAN is destined for a LAN network where servers are load-balanced. An IP packet with a destination address of the HTTP virtual IP of 192.168.1.250 must be forwarded. Which routing table entry does the router use?

A. 192.168.1.0/24 via 192.168.12.2
B. 192.168.1.128/25 via 192.168.13.3
C. 192.168.1.192/26 via 192.168.14.4
D. 192.168.1.224/27 via 192.168.15.5

Answer: D

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QUESTION NO. 81

What is the effect of the **spanning-tree portfast** command?

A. It immediately puts the port into the forwarding state when the switch is reloaded.
B. It enables BPDU messages.
C. It minimizes spanning-tree convergence time.
D. It immediately enables the port in the listening state

Answer: C

QUESTION NO. 82

A wireless administrator has configured a WLAN; however, the clients need access to a less congested 5-GHz network for their voice quality. Which action must be taken to meet the requirement?

A. Enable RX-SOP
B. Enable DTIM
C. Enable Band Select
D. Enable AAA override

Answer: C

QUESTION NO. 83

Which CRUD operation corresponds to the HTTP GET method?

A. Create
B. Read
C. Delete
D. Update

Answer: B

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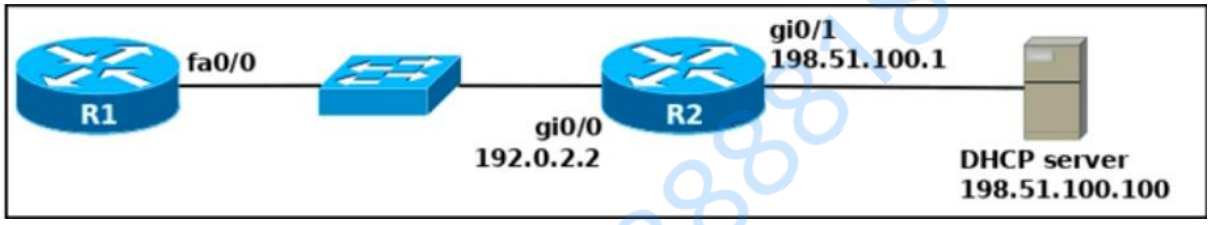
QUESTION NO. 84

What differentiates device management enabled by cisco DNA Center from traditional campus device management?

A. CLI-oriented device
B. Centralized
C. Device-by-device hands-on
D. Per-device

Answer: B

QUESTION NO. 85



Refer to the exhibit. An engineer deploys a topology in which R1 obtains its IP configuration from DHCP. If the switch and DHCP server configurations are complete and correct. Which two sets of commands must be configured on R1 and R2 to complete the task? (Choose two)

- [ ] R2(config)# **interface gi0/0**
  R2(config-if)# **ip address dhcp**
- [ ] R1(config)# **interface fa0/0**
  R1(config-if)# **ip helper-address 192.0.2.2**
- [ ] R1(config)# **interface fa0/0**
  R1(config-if)# **ip helper-address 198.51.100.100**
- [x] R1(config)# **interface fa0/0**
  R1(config-if)# **ip address dhcp**
  R1(config-if)# **no shutdown**
- [x] R2(config)# **interface gi0/0**
  R2(config-if)# **ip helper-address 198.51.100.100**

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QUESTION NO. 86

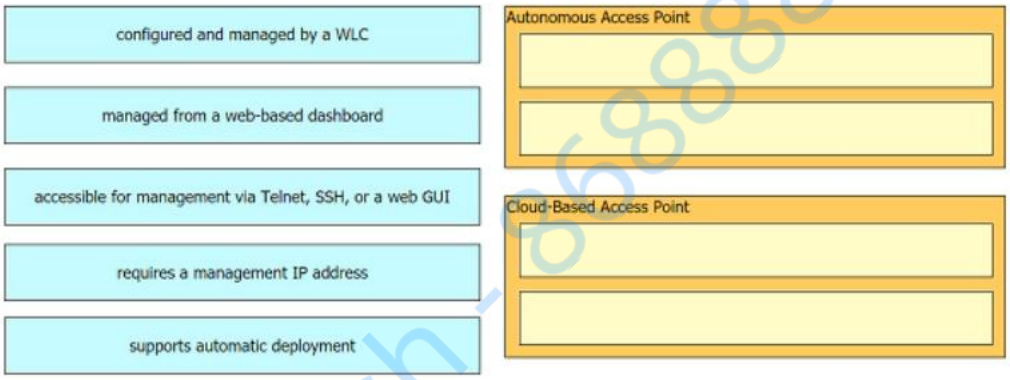
Which type of IPv6 address is similar to a unicast address but is assigned to multiple devices on the same network at the same time?

A. Global unicast address
B. Link-local address
C. Anycast address
D. Multicast address

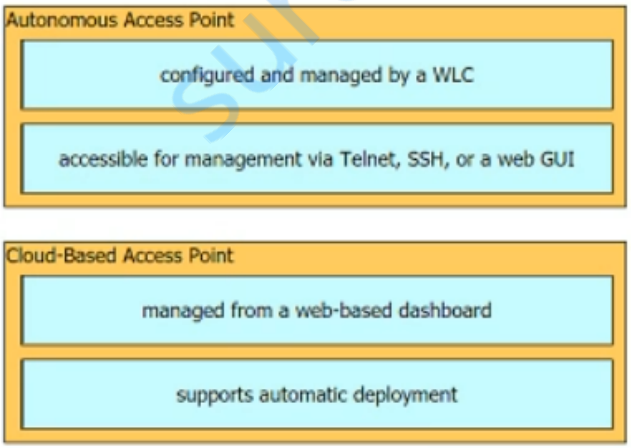
Answer: C

QUESTION NO. 87

Drop and drop the facts about wireless architecture from the left onto the types of access point on the right. Not all options are used.



Answer:



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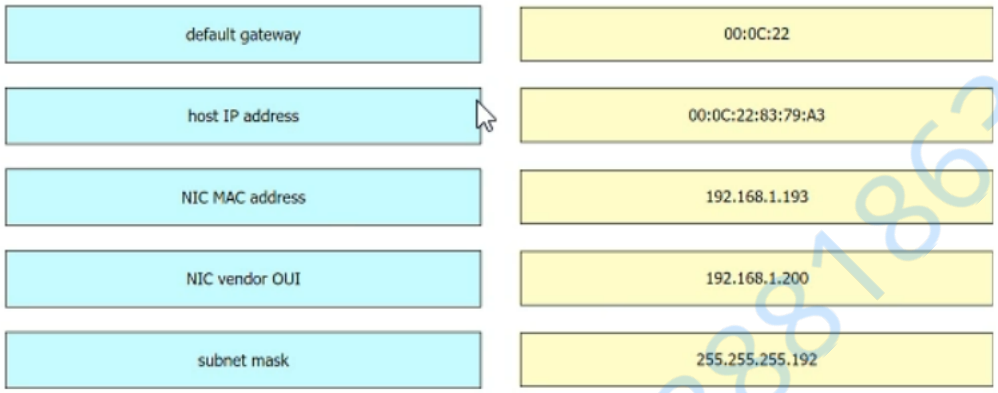
QUESTION NO. 88

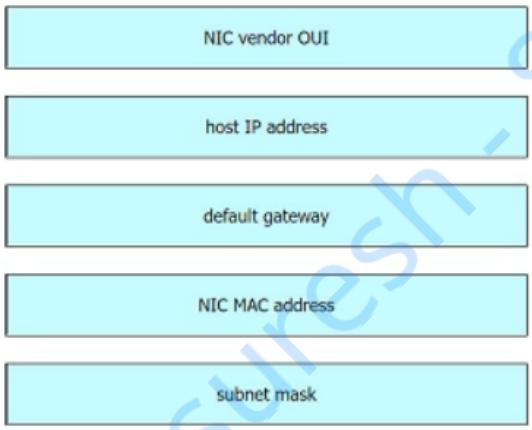
```
[root@HostTest ~]# ip route
default via 192.168.1.193 dev eth1  proto static
192.168.1.0/26 dev eth1  proto kernel  scope link  src 192.168.1.200  metric 1

[root@HostTest ~]# ip addr show eth1
eth1:  mtu 1500 qdisc pfifo_fast qlen 1000
   link/ether 00:0C:22:83:79:A3 brd ff:ff:ff:ff:ff:ff
   inet 192.168.1.200/26 brd 192.168.1.255 scope global eth1
   inet6 fe80::20c:29ff:fe89:79b3/64 scope link
   valid_lft forever preferred_lft forever
```

Refer to the exhibit. Drag and drop the networking parameters from the left onto the correct values on the right.



Answer:



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QUESTION NO. 89

Which 802.11 frame type is Association Response?

A. management
B. control
C. protected frame
D. action

ANSWER: A

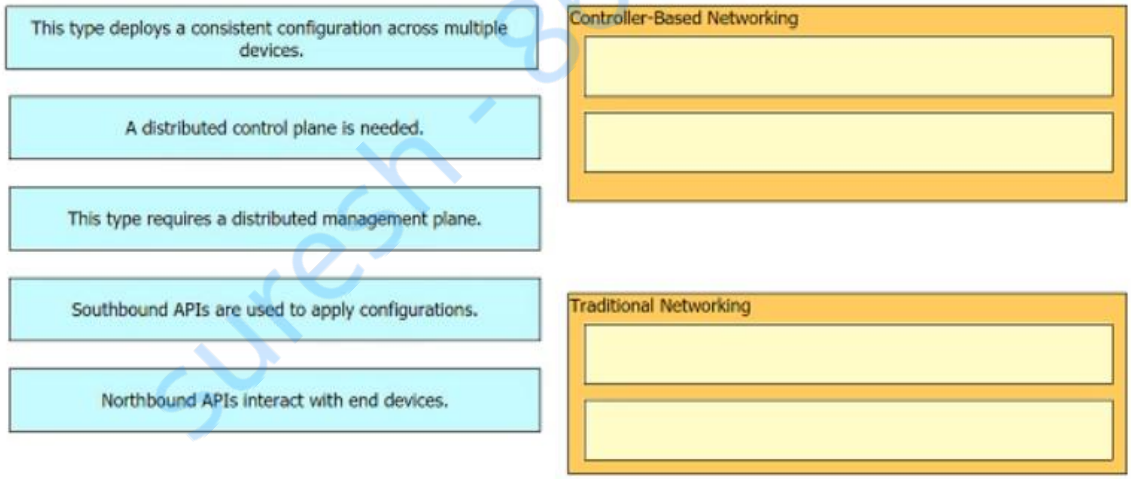
QUESTION NO. 90

Router R1 must send all traffic without a matching routing-table entry to 192.168.1.1 .Which configuration accomplishes this task?

- R1#**config t**
  R1(config)#**ip routing**
  R1(config)#**ip default-gateway 192.168.1.1**
- R1#**config t**
  R1(config)#**ip routing**
  R1(config)#**ip route default-route 192.168.1.1**
- R1#**config t**
  R1(config)#**ip routing**
  R1(config)#**ip route 0.0.0.0 0.0.0.0 192.168.1.1**
- R1#**config t**
  R1(config)#**ip routing**
  R1(config)#**ip route 192.168.1.1 0.0.0.0 0.0.0.0**

QUESTION NO. 91

Drag and drop the statements about networking from the left onto the corresponding networking types on the right.



Answer:

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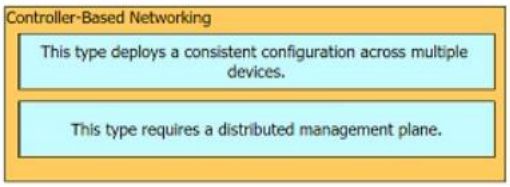

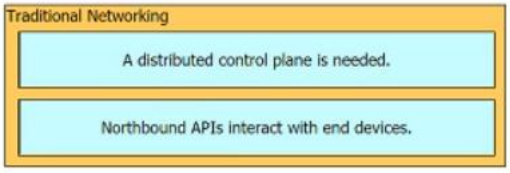

QUESTION NO. 92

Which protocol does an access point use to draw power from a connected switch?

A. Internet Group Management Protocol
B. Cisco Discovery Protocol
C. Neighbor Discovery Protocol
D. Adaptive Wireless Path Protocol

ANSWER: B

QUESTION NO. 93

What is a capability of FTP in network management operations?

A. Offers proprietary support at the session layer when transferring data.
B. Uses separate control and data connections to move files between server and client.
C. Encrypts data before sending between data resources.
D. Devices are directly connected and use UDP to pass file information.

ANSWER: B

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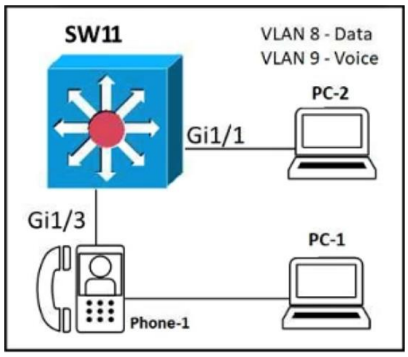
QUESTION NO. 94



Refer to the exhibit. An administrator must configure interfaces Gi1/1 and Gi1/3 on switch SW11. PC-1 and PC-2 must be placed in the Data VLAN and Phone-1 must be placed in the Voice VLAN. Which configuration meets these requirements?

```
interface gigabitethernet1/1
 switchport mode access
 switchport access vlan 8
 !
interface gigabitethernet1/3
 switchport mode access
 switchport access vlan 8
 switchport voice vlan 9
```

```
interface gigabitethernet1/1
 switchport mode access
 switchport access vlan 8
 !
interface gigabitethernet1/3
 switchport mode trunk
 switchport trunk vlan 8
 switchport voice vlan 9
```

```
interface gigabitethernet1/1
 switchport mode access
 switchport access vlan 9
 !
interface gigabitethernet1/3
 switchport mode trunk
 switchport trunk vlan 8
 switchport trunk vlan 9
```

```
interface gigabitethernet1/1
 switchport mode access
 switchport access vlan 8
 !
interface gigabitethernet1/3
 switchport mode access
 switchport voice vlan 8
 switchport access vlan 9
```

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ANSWER-A

```
interface gigabitethernet1/1
 switchport mode access
 switchport access vlan 8
 !
interface gigabitethernet1/3
 switchport mode access
 switchport access vlan 8
 switchport voice vlan 9
```

QUESTION NO. 95

Which type of network attack overwhelms the target server by sending multiple packets to a port until the half-open TCP resources of the target are exhausted?

A. SYN flood
B. Reflection
C. Teardrop
D. Amplification

ANSWER: A

QUESTION NO. 96

What are two characterictics of an SSID? (Choose two.)

A. It uniquely identifies a client in a WLAN.
B. It is at most 32 characters long.
C. It uniquely identifies an access point in a WLAN.
D. It provides secured access to a WLAN.
E. It can be hidden or broadcast in a WLAN.

ANSWER: C, D

QUESTION NO. 97

What are network endpoints?

A. support inter-VLAN connectivity
B. a threat to the network if they are compromised
C. act as routers to connect a user to the service provider network
D. enforce policies for campus-wide traffic going to the internet

ANSWER: B

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QUESTION NO. 98

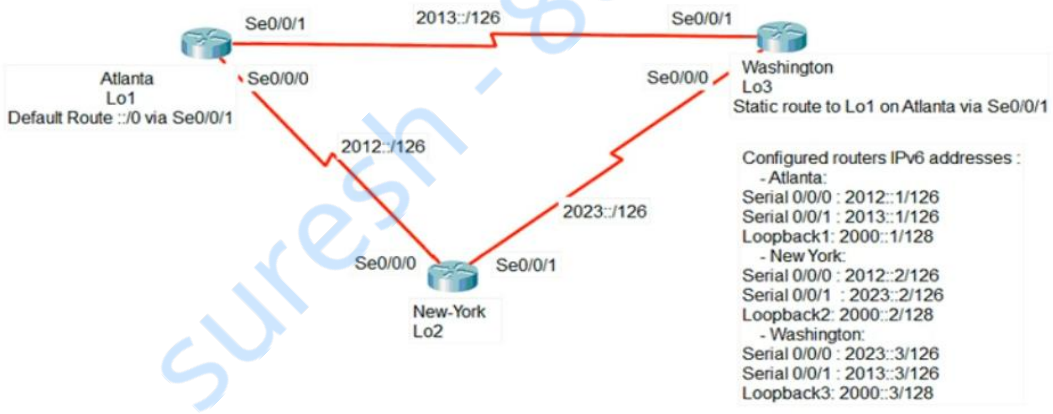
```
Switch#show etherchannel summary
[output omitted]

Group  Port-channel  Protocol    Ports
------+-------------+-----------+-----------------------
10     Po10(SU)         LACP      Gi0/0(P)    Gi0/1(P)
20     Po20(SU)         LACP      Gi0/2(P)    Gi0/3(P)
```

Refer to the exhibit. Which two commands when used together create port channel 10? (Choose two.)

- [x] **int range g0/0-1**
  channel-group 10 mode active
- [ ] **int range g0/0-1**
  channel-group 10 mode desirable
- [x] **int range g0/0-1**
  channel-group 10 mode passive
- [ ] **int range g0/0-1**
  channel-group 10 mode auto
- [ ] **int range g0/0-1**
  channel-group 10 mode on

QUESTION NO. 99



Refer to the exhibit. An engineer is configuring the New York router to reach the Lo1 interface of the Atlanta router interface Se0/0/0 as the primary path. Which two commands must be configured on the New York router so that it reaches the L01 interface of the Atlanta router via Washington when the link between New York and Atlanta goes down?

A. **Ipv6 route 2000::1/128 2012::1**
B. **Ipv6 route 2000::1/128 2012::1 5**
C. **Ipv6 route 2000::1/128 2012::2**
D. **Ipv6 route 2000::1/128 2023::2 5**
E. **Ipv6 route 2000::1/128 2023::3 5**

Answer: A, E

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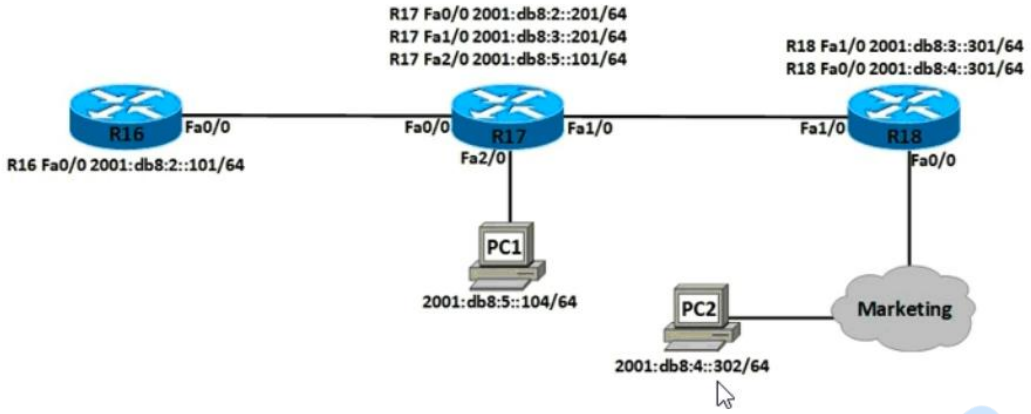
QUESTION NO. 100



Refer to the exhibit. Which iPv6 configuration is required for R17 to successfully ping the WAN interface on R18?

R17#
!
no ip domain lookup
ip cef
ipv6 cef
!
interface FastEthernet0/0
no ip address
duplex auto
speed auto
ipv6 address 2001:DB8:2::201/64
!
interface FastEthernet1/0
no ip address
duplex auto
speed auto
ipv6 address 2001:DB8:3::201/64
!
no cdp log mismatch duplex
ipv6 route 2001:DB8:4::/64 2001:DB8:4::302

R17#
!
no ip domain lookup
ip cef
ipv6 unicast-routing
!
interface FastEthernet0/0
no ip address
duplex auto
speed auto
ipv6 address 2001:DB8:2::201/64
!
interface FastEthernet1/0
no ip address
duplex auto
speed auto
ipv6 address 2001:DB8:3::201/64
!
no cdp log mismatch duplex
ipv6 route 2001:DB8:4::/64 2001:DB8:3::301

R17#
!
no ip domain lookup
ip cef
ipv6 unicast-routing
!
interface FastEthernet0/0
no ip address
duplex auto
speed auto
ipv6 address 2001:DB8:2::201/64
!
interface FastEthernet1/0
no ip address
duplex auto
speed auto
ipv6 address 2001:DB8:3::201/64
!
no cdp log mismatch duplex
ipv6 route 2001:DB8:4::/64 2001:DB8:2::201

R17#
!
no ip domain lookup
ip cef
!
interface FastEthernet0/0
no ip address
duplex auto
speed auto
ipv6 address 2001:DB8:3::201/64
!
interface FastEthernet1/0
no ip address
duplex auto
speed auto
ipv6 address 2001:DB8:2::201/64
!
no cdp log mismatch duplex
ipv6 route 2001:DB8:4::/64 2001:DB8:5::101

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ANSWER: B

```
R17#
!
no ip domain lookup
ip cef
ipv6 unicast-routing
!
interface FastEthernet0/0
no ip address
duplex auto
speed auto
ipv6 address 2001:DB8:2::201/64
!
interface FastEthernet1/0
no ip address
duplex auto
speed auto
ipv6 address 2001:DB8:3::201/64
!
no cdp log mismatch duplex
ipv6 route 2001:DB8:4::/64 2001:DB8:3::301
```

QUESTION NO. 101

An engineer requires a switch interface to actively attempt to establish a trunk link with a neighbor switch. What command must be configured?

A. **switchport mode trunk**
B. **switchport mode dynamic auto**
C. **switchport mode dynamic desirable**
D. **switchport nonegotiate**

ANSWER: C

QUESTION NO. 102

```
A# show ip ospf neighbor
Neighbor ID  Pri   State           Dead Time   Address       Interface
172.1.1.1    1     EXCHANGE/  -    00:00:36    172.16.32.1   Serial0.1
```

Refer to the exhibit. An engineer assumes a configuration task from a peer. Router A must configure an OSPF neighbour 172.1.1.1. The output displays the status of the adjacency after 2 hours. What is the nest step in the configuration process for the routers to establish an adjacency?

A. Configure router A to use the same MTU size as router B.
B. Configure a point-to-point link between router A and router B.
C. Set the router B OSPF ID to the same value as its IP address.
D. Set the router B OSPF ID to a nonhost address.

ANSWER: A

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QUESTION NO. 103

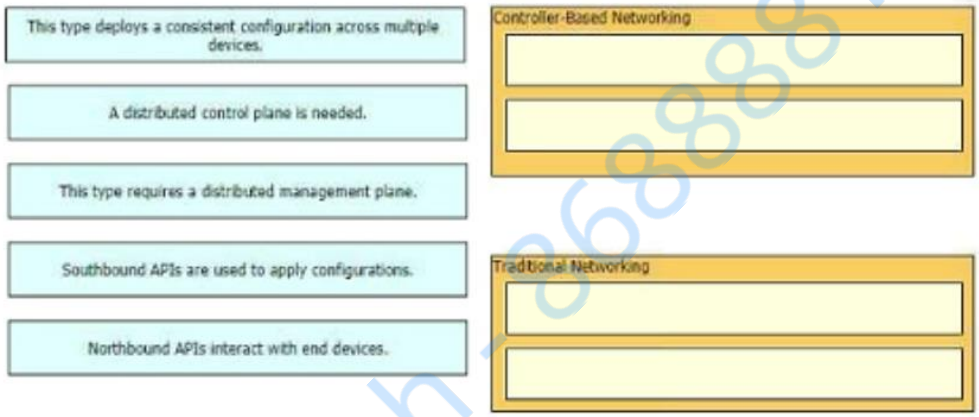
What is a difference between RADIUS and TACTACS+?

A. TACACS+ seperates authentication and authorization, and RADIUS merges them.
B. RADIUS is most appropriate for dail authentication, but TACACS+ is also used for multiple types of authentication.
C. TACACS+ encrpts only password information, and RADIUS encropts the entire payload.
D. RADIUS logs all commands that are entered by the administrator, but TACACS+ logs only start, stop, and interim comman.

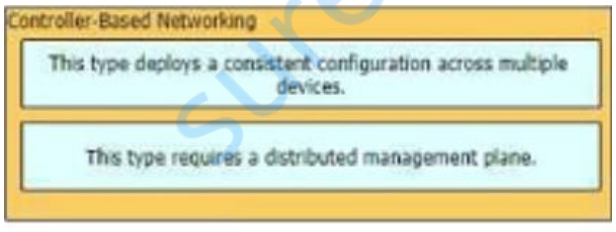
ANSWER: A

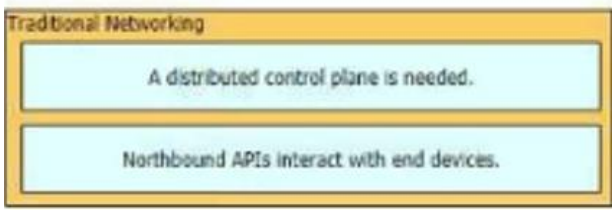
QUESTION NO. 104

Drag and drop the statement about networkung from the left onto the corresponding networking types on the right. Not all statements are used.



Answer:





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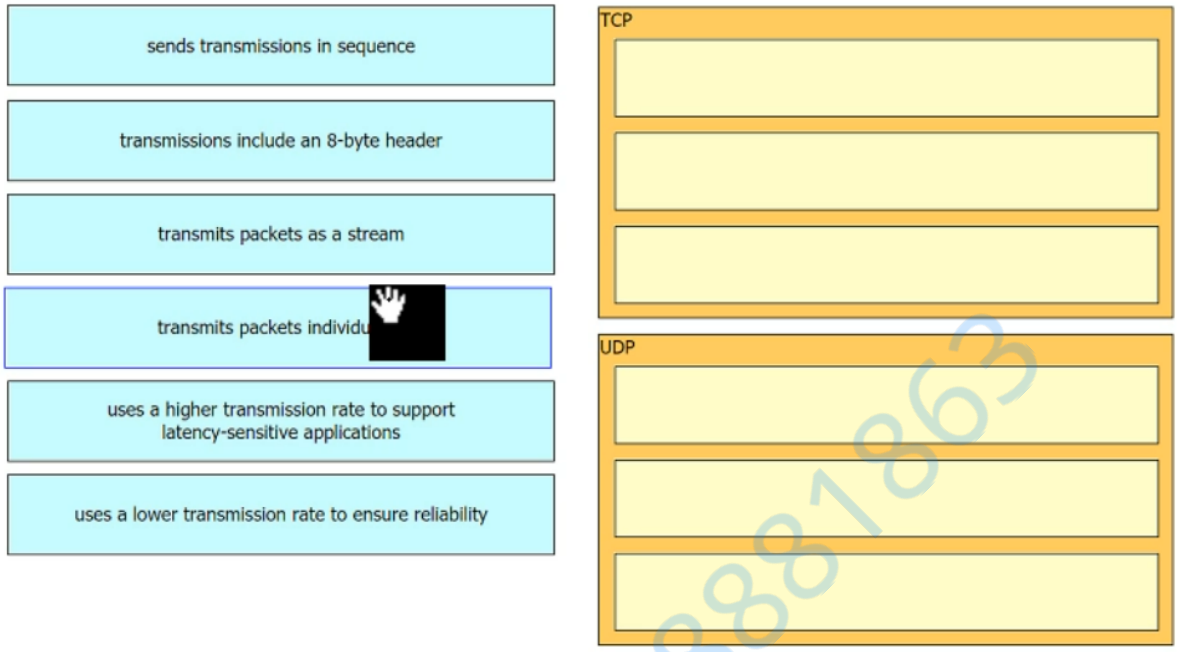
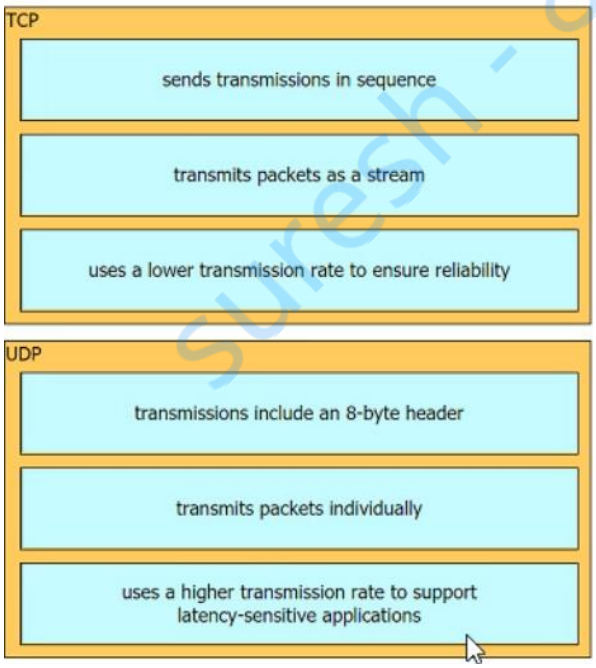
QUESTION NO. 105

Drag and drop the descriptions of IP protocol transmissions from the left onto the IP traffic types on the right.



Answer:



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QUESTION NO. 106

```
SW1#show run interface fastEthernet 0/1
switchport trunk encapsulation dot1q
switchport mode trunk
switchport trunk allowed vlan 100,200,300
channel-group 1 mode on

SW1#show run interface fastEthernet 0/2
switchport trunk encapsulation dot1q
switchport mode trunk
switchport trunk allowed vlan 100,200,300
channel-group 1 mode on

SW2#show run interface fastEthernet 0/1
switchport trunk encapsulation dot1q
switchport mode trunk
switchport trunk allowed vlan 100,200,300
channel-group 1 mode active

SW2#show run interface fastEthernet 0/2
switchport trunk encapsulation dot1q
switchport mode trunk
switchport trunk allowed vlan 100,200,300
channel-group 1 mode active
```

Refer to the exhibit. An engineer built a new L2 LACP EtherChannel between SW1 and SW2 and executed these shows commnads to verify the work. Which additional task allows the two switches to establish on LACP port channel?

A. Change the channel-group mode on SW2 to auto.
B. Configure the **interface port-channel 1** command on both switched.
C. Change the channel-group mode oh SW1 to **active** or **passive.**
D. Change the channel-group moe on SW1 to **desirable.**

Answer: C

QUESTION NO. 107

What is a function spine-and-leaf architecture?

A. Offers predictable latency of te traffic path between end devices.
B. Exclusively sends multicast traffic between servers that are directly connected to the spine.
C. Mitigates oversunscription by adding a layer of leaf switches.
D. Limits playload size of traffic within the leaf layer.

Answer: D

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QUESTION NO. 108

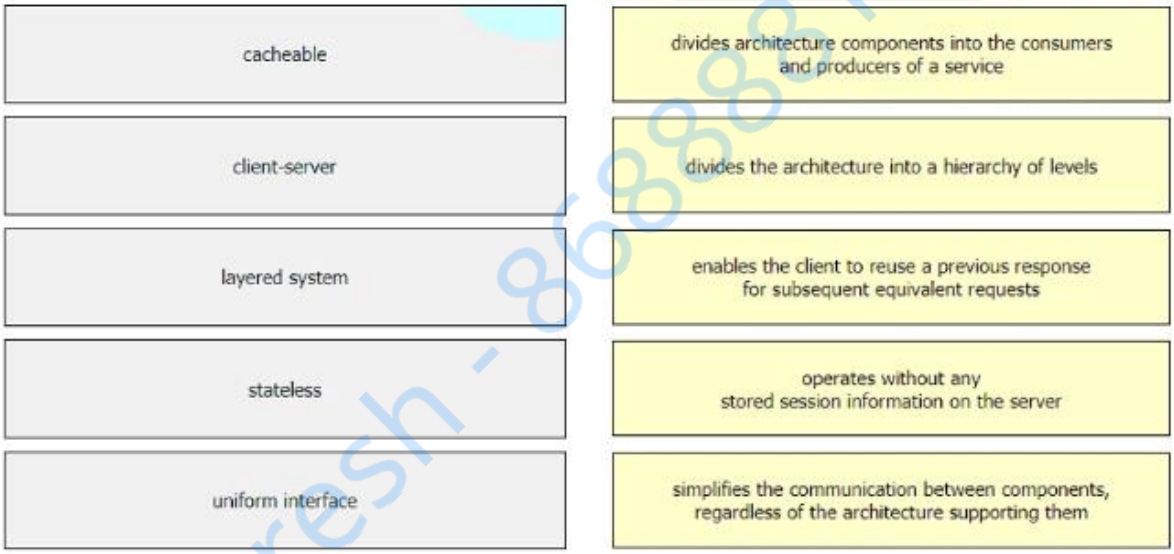
What is a requirement when configuring or removing LAG on a WLC?

A. The management interface must be reassigned if LAG is disabled.
B. Multiple untagged interfaces on the same port must be supported.
C. The controller must be rebooted after of reconfiguring LAG.
D. The incoming and outgoing ports for traffic flow must be specified if LAG if enabled.

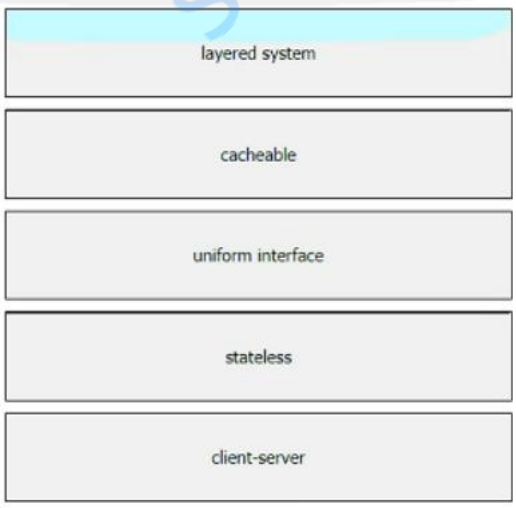
Answer: A

QUESTION NO. 109

Drag and drop the REST principles from the left onto their definitions on the right.



Answer:



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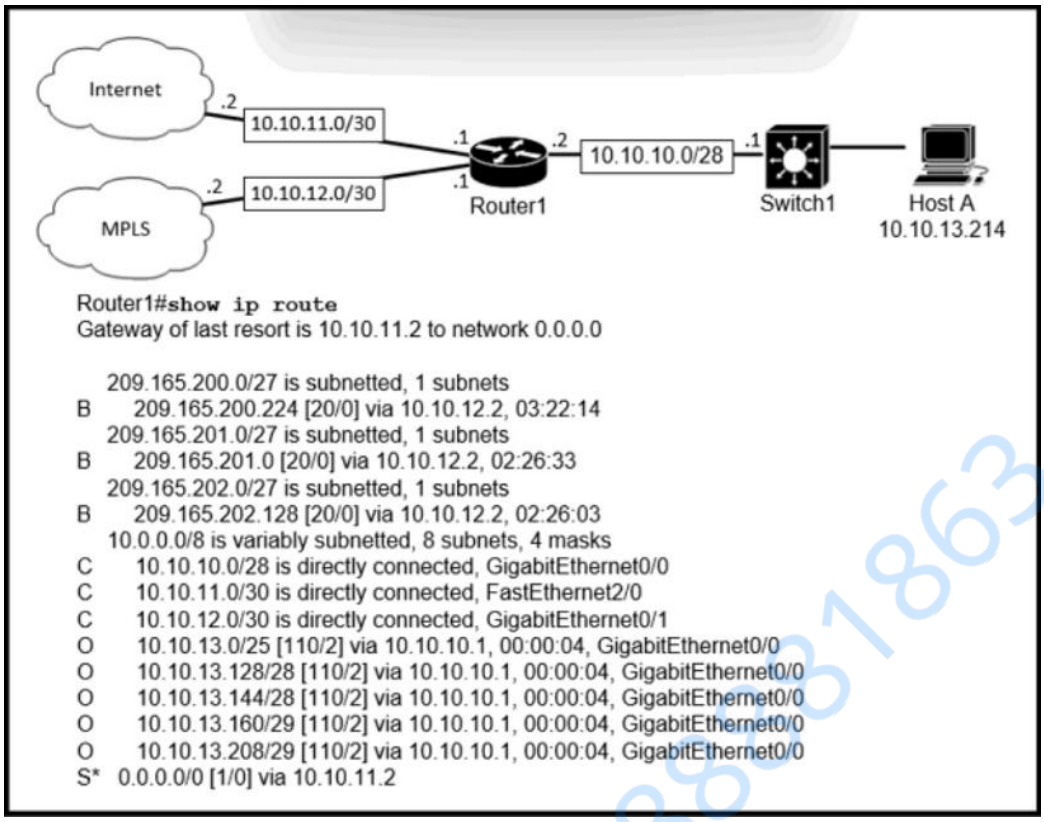
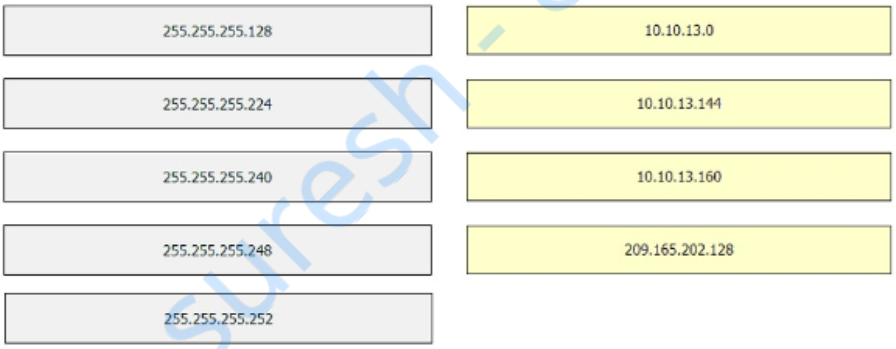
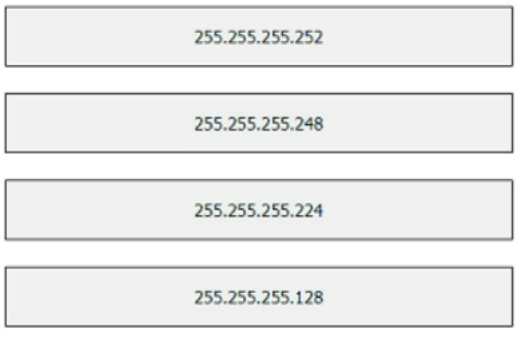
QUESTION NO. 110



Refer to the exhibit. Drag and drop the prefix from the left onto the corresponding prefixes on the right.



Answer:



QUESTION NO. 111

What is an expected outcome when network management automation is deployed?

A. Software upgrades are performed from a central controller.
B. Complexity increases when new device configurations are added.
C. Custom applications are needed to configure network devices.
D. A disturbed management plane must be used.

Answer: A

QUESTION NO. 112

Which channel-group mode must be configured when multiple distribution interfaces connected to a WLC are bundled?

A. **Channel-group mode passive.**
B. **Channel-group mode on.**
C. **Channel-group mode desirable.**
D. **Channel-group mode active.**

Answer: B

QUESTION NO. 113

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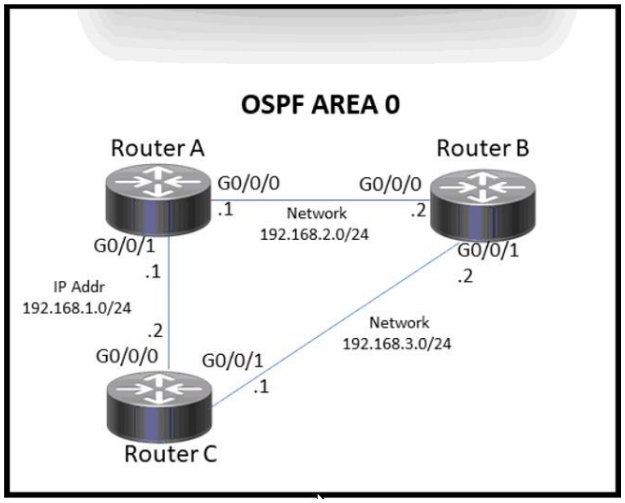

Refer to the exhibit. Which action must be taken to ensure that router A is elected as the DR for OSPF area 0?

A. Configure the router B and router C as OSPF neighbors of router A.
B. Configure the OSPF priority on router A with the lowest value between the three routers.
C. Configure router A with a fixed OSPF router ID.
D. Configure the router A interfaces with the highest OSPF priority value within the area.

Answer: D

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QUESTION NO. 114

What two spanning-tree states are bypassed on an interface running PortFast? (Choose two.)

A. Disabled
B. Blocking
C. Listening
D. Learning
E. Forwarding

Answer: C, D

QUESTION NO. 115

What is the difference between IPv6 unicast and anycast addressing?

A. Unlike an IPv6 anycast address, an IPv6 unicast address is assigned to a group of interfaces on multiple nodes.
B. IPv6 unicast nodes must be explictly configured to recognize the unicast address, but IPv6 anycast nodes require no social configuration.
C. An individual IPv6 unicast address is supported on a single interface on one node, but an IPv6 anycast address is assigned to a group of intrefaces on multiple nodes.
D. IPV6 nodes must be explicitly configured to recognize the anycast, but IPv6 unicast nodes no special configuration.

Answer: C

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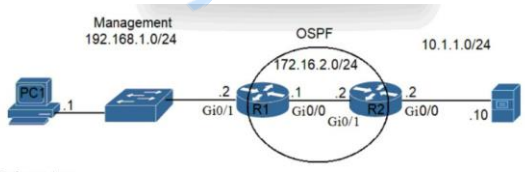
QUESTION NO. 116



During outage

```
R1#show ip route 10.1.1.10
% Network not in table
```

Normal operation

```
R1#show ip route 10.1.1.10
Routing entry for 10.1.1.0/24
Known via "ospf 1", distance 110, metric 2, type intra area
  Last update from 172.16.2.2 on GigabitEthernet0/0, 00:00:18 ago
  Routing Descriptor Blocks:
  * 172.16.2.2, from 10.1.1.10, 00:00:18 ago, via GigabitEthernet0/0
      Route metric is 2, traffic share count is 1
```

Refer to the exhibit. Which route must be configured on R1 so that OSPF routing is used when OSPF is up, but the server is still reachable when OSPF goes down?

A. **ip route 10.1.1.0 255.255.255.0 172.16.2.2 100**
B. **ip route 10.1.1.10 255.255.255.255 gi0/0 125**
C. **ip route 10.1.1.10 255.255.255.255 172.16.2.2 100**
D. **ip route 10.1.1.0 255.255.255.0 gi0/1 125**

Answer: C

QUESTION NO. 117

Which action is taken by the data plane within a network device?

A. Constructs a routing table based on a routing protocol.
B. Forwards traffic to the next hop.
C. Looks up an egress interface in the forwarding information base.
D. Provides CLI access to the network device.

Answer: B

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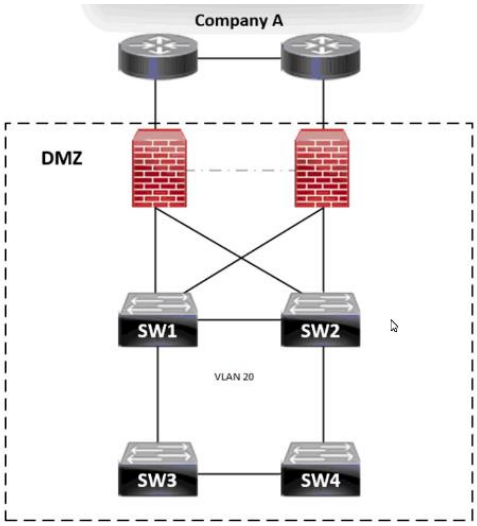
QUESTION NO. 118



Refer to the exhibit. Which switch become the root of a spanning tree for VLAN 20 if all links are of equal speed?

SW1 = 24596 0018.184e.3c00
SW2 = 28692 004a.13e9.6900
SW3 = 32788 0022.55cf.dd00
SW4 = 64000 0041.396d.690f

A. SW1
B. SW2
C. SW3
D. SW4

Answer: A

QUESTION NO. 120

What is a function of a Next-Generation IPS?

A. Correlates user activity with network events.
B. Serves as a controller within a controller-based network.
C. Integrates with a RADIUS server to enforce Layer2 device authentication rules.
D. Makes forwarding decisions based on learned MAC address.

Answer: A

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QUESTION NO. 121

```
R1# show ip route
     Codes:
     C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP, D -
     EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area N1 - OSPF NSSA
     external type 1, N2 - OSPF NSSA external type 2, E1 - OSPF external type
     1, E2 - OSPF external type 2, E - EGP
     i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, * - candidate default,
     U - per-user static route, o - ODR
Gateway of last resort is not set
C    10.0.0.0/8 is directly connected, Loopback0
     10.0.0.0/8 is variably subnetted, 4 subnets, 2 masks
O    10.0.1.3/32 [110/100] via 10.0.1.100, 00:39:08, Serial0
C    10.0.1.0/24 is directly connected, Serial0
O    10.0.1.5/32 [110/5] via 10.0.1.50, 00:39:08, Serial0
O    10.0.10.0/24 [110/10] via 10.0.1.4, 00:39:08, Gigabit Ethernet 0/0
D    10.0.10.0/24 [90/10] via 10.0.1.5, 00:39:08, Gigabit Ethernet 0/1
```

Refer to the exhibit. Web traffic is coming in from the WAN interface. Which route takes precedence when the router is processing traffic destined for the LAN network at 10.0.10.0/24?

A. via next-hop 10.0.1.5
B. via next-hop 10.0.1.4
C. via next-hop 10.0.1.50
D. via next-hop 10.0.1.100

Answer: A

QUESTION NO. 122

What are two benefits of FHRPs?

A. They prevent loops in the Layer 2 network.
B. They enable automatic failover of the default gateway.
C. They allow multiple devices to serve as a single virtual gateway for clients in the network.
D. They are able to bundle multiple ports to increase bandwidth.
E. They allow encrypted traffic.

Answer: B, C

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QUESTION NO. 123

Refer to the exhibit. The router has been configured with a supernet to accommodate the requirement for 380 users on a subnet. The requirement already considers 30% future growth. Which configuration verifies the IP subnet on router R4?

A. subnet: 10.7.54.0
subnet mask: 255.255.254.0
Broadcast address: 10.7.54.255
usable IP address range: 10.7.54.1 - 10.7.55.254

B. subnet: 10.7.54.0
subnet mask: 255.255.255.0
Broadcast address: 10.7.54.255
usable IP address range: 10.7.54.1 - 10.7.55.254

C. subnet: 10.7.54.0
subnet mask: 255.255.128.0
Broadcast address: 10.7.55.255
usable IP address range: 10.7.54.1 - 10.7.55.254

D. subnet: 10.7.54.0
subnet mask: 255.255.254.0
Broadcast address: 10.7.55.255
usable IP address range: 10.7.54.1 - 10.7.55.254

Answer: D

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QUESTION NO. 124

A Cisco engineer must configure a single switch interface to meet these requirement:

- Accept untagged frames and place them in VLAN 20.
- Accept tagged frames in VLAN 30 when CDP detects a Cisco IP Phone.

Which command set must the engineer apply?

A. switchport mode dynamic desirable
switchport access vlan 20
switchport trunk allowed vlan 30
switchport voice vlan 30

B. switchport mode access
switchport access vlan 20
switchport voice vlan 30

C. switchport mode dynamic auto
switchport trunk native vlan 20
switcport trunk allowed vlan 30
switchport voice vlan 30

D. switchport mode trunk
switchport access vlan 20
switchport voice vlan 30

Answer: D

QUESTION NO. 125

Which QoS per-hop behavior changes the value of the ToS field in the IPv4 packet header?

A. Shaping
B. Policing
C. Classification
D. Marking

Answer: C

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QUESTION NO. 126

An engineer is configuring remote access to a router from IP subnet 10.139.58.0/28. The domain name, crypto keys, and SSH have been configured. Which configuration enables the traffic on the destination router?

```
interface FastEthernet0/0
 ip address 10.122.49.1 255.255.255.252
 ip access-group 105 in

ip access-list standard 105
 permit tcp 10.139.58.0 0.0.0.7 eq 22 host 10.122.49.1
```

```
interface FastEthernet0/0
 ip address 10.122.49.1 255.255.255.240
 access-group 120 in

ip access-list extended 120
 permit tcp 10.139.58.0 255.255.255.248 any eq 22
```

```
Interface FastEthernet0/0
 ip address 10.122.49.1 255.255.255.252
 ip access-group 110 in

ip access-list extended 110
 permit tcp 10.139.58.0 0.0.0.15 host 10.122.49.1 eq 22
```

```
interface FastEthernet0/0
 ip address 10.122.49.1 255.255.255.248
 ip access-group 10 in

ip access-list standard 10
 permit udp 10.139.58.0 0.0.0.7 host 10.122.49.1 eq 22
```

Answer: C

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QUESTION NO. 127

```
Switch2# show lldp
Global LLDP Information
    Status: ACTIVE
    LLDP advertisements are sent every 30 seconds
    LLDP hold time advertised is 120 seconds
    LLDP interface reinitialization delay is 2 seconds
```

Refer to the exhibit. A network engineer must update the configuration on Switch2 so that it sends LLDP packets every minute and the information sent via LLDP is refreshed every 3 minutes. Which configuration must the engineer apply?

- Switch2(config)#lldp timer 60
  Switch2(config)#lldp tlv-select 180
- Switch2(config)#lldp timer 60
  Switch2(config)#lldp holdtime 180
- Switch2(config)#lldp timer 1
  Switch2(config)#lldp holdtime 3
- Switch2(config)#lldp timer 1
  Switch2(config)#lldp tlv-select 3

Answer: A

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QUESTION NO. 128

```
{
    "aaaUser": {
        "attributes": {
            "pwd": "password1",
            "firstName": "Abraham",
            "lastName": "Lincoln",
            "phone": "5555551212",
            "email": "test@cisco.com"
        },
        "children": [{
            "aaaUserDomain": {
                "attributes": {
                    "name": "ExampleCisco"
                },
                "children": [{
                    "aaaUserRole": {
                        "attributes": {
                            "name": "admin"
                        }
                    }
                }]
            }
        }]
    }
}
```

Refer to the exhibit. How many objects are present in the given JSON-encoded data?

A. One
B. Four
C. Seven
D. nine

Answer: C

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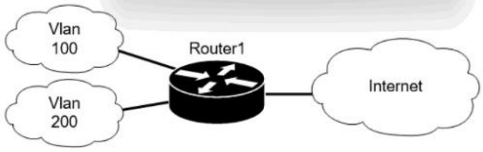
QUESTION NO. 129




```
Router1(config)#interface GigabitEthernet0/0
Router1(config-if)#ip address 209.165.200.225 255.255.255.224
Router1(config-if)#ip nat outside
Router1(config)#interface GigabitEthernet0/1
Router1(config-if)#ip nat inside
Router1(config)#interface GigabitEthernet0/1.100
Router1(config-if)#encapsulation dot1Q 100
Router1(config-if)#ip address 10.10.10.1 255.255.255.0
Router1(config)#interface GigabitEthernet0/1.200
Router1(config-if)#encapsulation dot1Q 200
Router1(config-if)#ip address 10.10.20.1 255.255.255.0
Router1(config)#ip access-list standard NAT_INSIDE_RANGES
Router1(config-std-nacl)#permit 10.10.10.0 0.0.0.255
Router1(config)#ip nat inside source list NAT_INSIDE_RANGES interface GigabitEthernet0/0 overload
```

Refer to the exhibit. Users on existing VLAN 100 can reach sites on the internet. Which action must the administrator take to establish connectivity to the internet for users in VLAN 200?

A. Configure static NAT transactions for VLAN 200.
B. Configure the **ip nat outside** command on another interface for VLAN 200.
C. Define a NAT pool on the router.
D. Update the NAT_INSIDE_RANGES ACL.

Answer: D

QUESTION NO. 130

Which Layer 2 switch function encapsulates packets for different VLANs so that the packets transverse the same port and maintain traffic separation between the VLANs?

A. VLAN marking
B. VLAN numbering
C. VLAN DSCP
D. VLAN tagging

Answer: D

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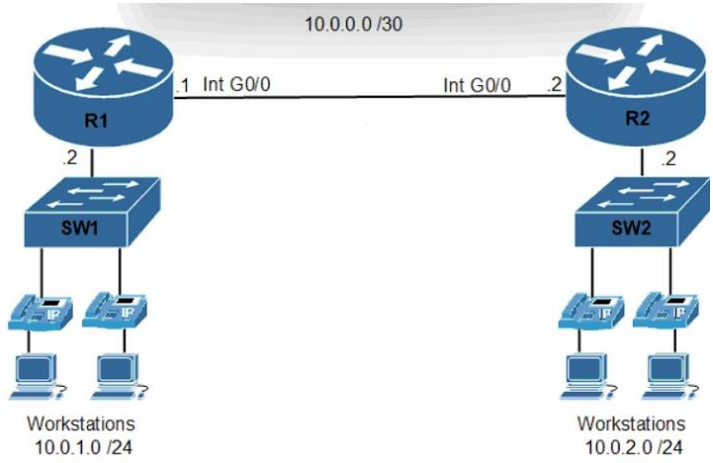
QUESTION NO. 131



Refer to the exhibit. An engineer is asked to configure router R1 so that it forms an OSPF single-area neighbor relationship with R2. Which command sequence must be implemented to configure the router?

- router ospf 100
  network 10.0.0.0 0.0.0.252 area 0
  network 10.0.1.0 0.0.0.255 area 0

- router ospf 10
  network 10.0.0.0 0.0.0.3 area 0
  network 10.0.2.0 0.0.0.255 area 0

- router ospf 100
  network 10.0.0.0 0.0.0.3 area 0
  network 10.0.2.0 255.255.255.0 area 0

- router ospf 10
  network 10.0.0.0 0.0.0.3 area 0
  network 10.0.1.0 0.0.0.255 area 0

Answer: D

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QUESTION NO. 132

Which characteristic differentiates the concept of authentication from authorization and accounting?

A. Service limitations.
B. User-activity logging
C. Identify verification
D. Consumption-based billing

Answer: A

QUESTION NO. 133

Refer to the exhibit. An engineer is configuring an EtherChannel using LACP between Switches 1 and 2. Which configuration must be applied so that only Switch 1 sends LACP initiation packets?

A. Switch 1 (config-if)#channel-group 1 mode passive
Switch2(config-if)#channel-group1 mode active

B. Switch 1 (config-if)#channel-group 1 mode on
Switch2(config-if)#channel-group1 mode passive

C. Switch 1 (config-if)#channel-group 1 mode active
Switch2(config-if)#channel-group1 mode passive

D. Switch 1 (config-if)#channel-group 1 mode on
Switch2(config-if)#channel-group1 mode active

Answer: C

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QUESTION NO. 134

Drag and drop the functions of SNMP fault-management from the left onto the definitions on the right.

Answer:

1-3
2-5
3-4
4-2
5-1

QUESTION NO. 135

How does WPA3 improve security?

A. It uses RC4 for encryption.
B. It uses a 4-way handshake for authentication.
C. It uses TKIP for encryption.
D. It uses SAE for authentication.

Answer: D

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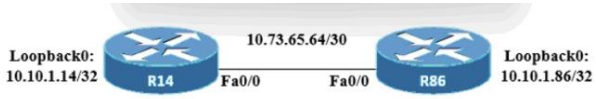
QUESTION NO. 136



Refer to the exhibit. All interfaces are configured with duplex auto and ip ospf network broadcast. Which configuration allows routers R14 and R86 to form an OSPFv2 adjacency and act a central point for exchanging OSPF information between routers?

A.

```
R14#
interface FastEthernet0/0
ip address 10.73.65.65 255.255.255.252
ip ospf priority 255
ip mtu 1500

router ospf 10
router-id 10.10.1.14
network 10.10.1.14 0.0.0.0 area 0
network 10.73.65.64 0.0.0.3 area 0
R86#
interface FastEthernet0/0
ip address 10.73.65.66 255.255.255.252
ip mtu 1400

router ospf 10
router-id 10.10.1.86
network 10.10.1.86 0.0.0.0 area 0
network 10.73.65.64 0.0.0.3 area 0
```

B.

```
R14#
interface Loopback0
ip ospf 10 area 0

interface FastEthernet0/0
ip address 10.73.65.65 255.255.255.252
ip ospf priority 255
ip ospf 10 area 0
ip mtu 1500

router ospf 10
router-id 10.10.1.14

R86#
interface Loopback0
ip ospf 10 area 0

interface FastEthernet0/0
ip address 10.73.65.66 255.255.255.252
ip ospf 10 area 0
ip mtu 1500

router ospf 10
router-id 10.10.1.86
```

C.

```
R14#
interface FastEthernet0/0
ip address 10.73.65.65 255.255.255.252
ip ospf priority 0
ip mtu 1500

router ospf 10
router-id 10.10.1.14
network 10.10.1.14 0.0.0.0 area 0
network 10.73.65.64 0.0.0.3 area 0
R86#
interface FastEthernet0/0
ip address 10.73.65.66 255.255.255.252
ip mtu 1500

router ospf 10
router-id 10.10.1.86
network 10.10.1.86 0.0.0.0 area 0
network 10.73.65.64 0.0.0.3 area 0
```

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D.

```
R14#
interface Loopback0
ip ospf 10 area 0

interface FastEthernet0/0
ip address 10.73.65.65 255.255.255.252
ip ospf 10 area 0
ip mtu 1500

router ospf 10
ip ospf priority 255
router-id 10.10.1.14
R86#
interface Loopback0
ip ospf 10 area 0

interface FastEthernet0/0
ip address 10.73.65.66 255.255.255.252
ip ospf 10 area 0
ip mtu 1500

router ospf 10
router-id 10.10.1.86
```

Answer: A

QUESTION NO. 137

Which protocol uses the SSL?

A. Telnet
B. HTTP
C. SSH
D. HTTPS

Answer: D

QUESTION NO. 138

An administrator must use the passwords complexity not manufacturer-name command to prevent users from adding "Cisco" as a password. Which command must be issued before this command?

A. Confreg 0x2142
B. Password complexity enable
C. Service password-encryption
D. Login authentication my-auth-list

Answer: B

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QUESTION NO. 139

```
Router# show interface gi0/0/0
GigabitEthernet0/0/0 is up, line protocol is up
   Hardware is ISR4331-3x1GE, address is 5486.bc25.1f70 (bia 5486.bc25.1f70)
   Description: << WAN Link >>
   Internet address is 192.0.2.2/30
   MTU 1500 bytes, BW 1000000 Kbit/sec, DLY 10 usec,
      reliability 255/255, txload 1/255, rxload 1/255
   Encapsulation ARPA, loopback not set
   Keepalive not supported
   Full Duplex, 1000Mbps, link type is auto, media type is RJ45
   output flow-control is off, input flow-control is off
   ARP type: ARPA, ARP Timeout 04:00:00
   Last input 00:00:00, output 00:00:11, output hang never
   Last clearing of "show interface" counters never
   Input queue: 0/375/0/0 (size/max/drops/flushes); Total output drops: 0
   Queueing strategy: fifo
   Output queue: 0/40 (size/max)
   5 minute input rate 7000 bits/sec, 4 packets/sec
   5 minute output rate 4000 bits/sec, 4 packets/sec
      22579370 packets input, 8825545968 bytes, 0 no buffer
      Received 67 broadcasts (0 IP multicasts)
      0 runts, 0 giants, 0 throttles
      3612699 input errors, 3612699 CRC, 0 frame, 0 overrun, 0 ignored
      0 watchdog, 10747057 multicast, 0 pause input
      12072167 packets output, 1697953637 bytes, 0 underruns
      0 output errors, 0 collisions, 1 interface resets
      6 unknown protocol drops
      0 babbles, 0 late collision, 0 deferred
      5 lost carrier, 0 no carrier, 0 pause output
      0 output buffer failures, 0 output buffers swapped out
```

Refer to the exhibit. What is a reason for poor performance on the network interface?

A. The bandwidth setting of the interface is misconfigured.
B. The interface is operating at a different speed than the connected device.
C. The interface is receiving excessive broadcast traffic.
D. The cable connection between the two devices is faulty.

Answer: C

QUESTION NO. 140

Which PoE mode enables powered-device detection and guarantees power when the device is detected?

A. Dynamic
B. Active
C. Auto
D. Static

Answer: C

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QUESTION NO. 141

```
RIP     10.1.1.16/28[120/5]   via   F0/0
OSPF    10.1.1.0/24[110/30]   via   F0/1
OSPF    10.1.1.0/24[110/40]   via   F0/2
EIGRP   10.1.0.0/26[90/20]    via   F0/3
EIGRP   10.0.0.0/8 [90/133]   via   F0/4
```

Refer to the exhibit. Packets received by the router from BGP enter via a serial interface at 209.165.201.1. Each route is present within the routing table. Which interface is used to forward traffic with a destination IP of 10.1.1.19?

A. F0/3
B. F0/1
C. F0/0
D. F0/4

Answer: C

QUESTION NO. 142

When an access point is seeking to join wireless LAN controller, which message is sent to the AP-Manager interface?

A. Discovey response
B. DHCP request
C. DHCP discover
D. Discovery request.

Answer: C

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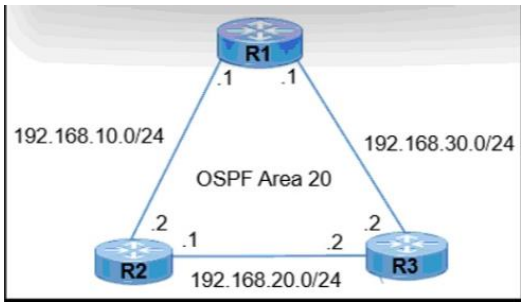
QUESTION NO. 143



Refer to the exhibit. R1 learns all routes via OSPF. Which command configures a backup static route on R1 to reach the 192.168.20.0/24 network via R3?

A. **R1 (config)#ip route 192.168.20.0 255.255.0.0 192.168.30.2**
B. **R1 (config)#ip route 192.168.20.0 255.255.255.0 192.168.30.2**
C. **R1 (config)#ip route 192.168.20.0 255.255.255.0 192.168.30.2 111**
D. **R1 (config)#ip route 192.168.20.0 255.255.255.0 192.168.30.2 90**

Answer: C

QUESTION NO. 144

What causes a port to be placed in th err-disabled state?

A. Link flapping
B. Latency
C. Shutdown command issues on the port
D. Nothing plugged into the port

Answer: A

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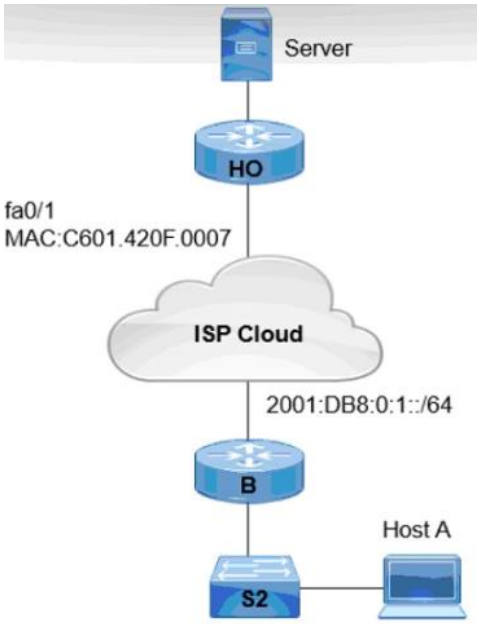
QUESTION NO. 145



Refer to the exhibit.an engineer is configuring the HO router.which IPv6 address configuration must be applied to the oruter fa0/1. Interface for the router to assign a unique 63-bit IPv6 address to itself?

A. **ipv6 address 2001:DB8:0:1:FFFF:C601:420F:7/64**
B. **ipv6 address 2001:DB8:0:1:FE80:C601:420F:7/64**
C. **ipv6 address 2001:DB8:0:1:C601:42FE:800F:7/64**
D. **ipv6 address 2001:DB8:0:1:C691:42FF:FE0F:7/64**

Answer: B

QUESTION NO. 146

What is the function of the control plane?

A. It exchanges routing table information.
B. It provides CLI access to the network device.
C. It looks up an egress interface in the forwarding information base.
D. It forwards traffic to the next hop.

Answer: A

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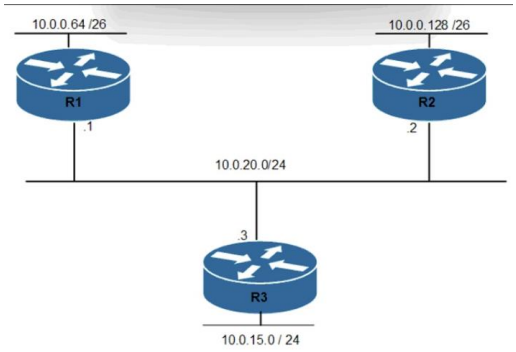
QUESTION NO. 147

Which two components comprise part of a PKI? (Choose two)

A. CA that grants certificates.
B. preshared key that authenticates connections
C. RSA token
D. One or more CRLs
E. Clear-text password that authenticates connections

Answer: A, C

QUESTION NO. 148



Refer to the exhibit. Router R1 is added to the network and configured with the 10.0.0.64/26 and 10.0.20.0/26 subnets. However, traffic destined for the LAN on R3 is not accessible. Which command when executed on R1 defines a static route to reach the R3 LAN?

A. **ip route 10.0.0.64 255.255.255.192 10.0.20.3**
B. **ip route 10.0.15.0 255.255.255.0 10.0.20.1**
C. **ip route 10.0.15.0 255.255.255.192 10.0.20.1**
D. **ip route 10.0.15.0 255.255.255.0 10.0.20.3**

Answer: A

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QUESTION NO. 149

Which value is the unique identifier that an access point uses to establish and maintain wireless connectivity to wireless network devices?

A. VLAN ID
B. SSID
C. RFID
D. WLAN ID

Answer: B

QUESTION NO. 150

```
Designated Router (ID) 10.11.11.11, Interface address 10.10.10.1
Backup Designated router (ID) 10.3.3.3, Interface address 10.10.10.3
Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
oob-resync timeout 40
Hello due in 00:00:08
Supports Link-local Signaling (LLS)
Cisco NSF helper support enabled
IETF NSF helper support enabled
Index 1/1/1, flood queue length 0
Next 0x0(0)/0x0(0)/0x0(0)
Last flood scan length is 1, maximum is 6
Last flood scan time is 0 msec, maximum is 1 msec
Neighbor Count is 3, Adjacent neighbor count is 3
Adjacent with neighbor 10.1.1.4
Adjacent with neighbor 10.2.2.2
Adjacent with neighbor 10.3.3.3 (Backup Designated Router)
Suppress hello for 0 neighbor(s)
```

Refer to the exhibit. The **show ip ospf interface** command has been executed on R1. How is OSPF configured?

A. The interface is not participating in OSPF
B. A point-to-point network type is configured
C. The default Hello and Dead timers are in use
D. There are six OSPF neighbors on this interface

Answer: C

QUESTION NO. 151

Which action does the router take as it forwards a packet through the network?

A. The router replaces the source and destination labels with the sending router interface label as a source and the next hop router label as a destination
B. The router encapsulates the original packet and then includes a tag that identifies the source router MAC address and transmits it transparently to the destination.
C. The router replaces the original source and destination MAC addresses with the sending router MAC address as the source and neighbor MAC address as the destination.
D. The router encapsulates the source and destination IP addresses with the sending router IP address as the source and the neighbor IP address as the destination.

Answer: D

QUESTION NO. 152

Which two cable types must be used to connect an access point to the WLC when 2.5-Gbps and 5-Gbps upload speeds are required? (Choose two.)

A. 10GBASE-T
B. 1000BASE-LX/LH
C. Cat 5e
D. Cat 5
E. Cat 3

Answer: A, C

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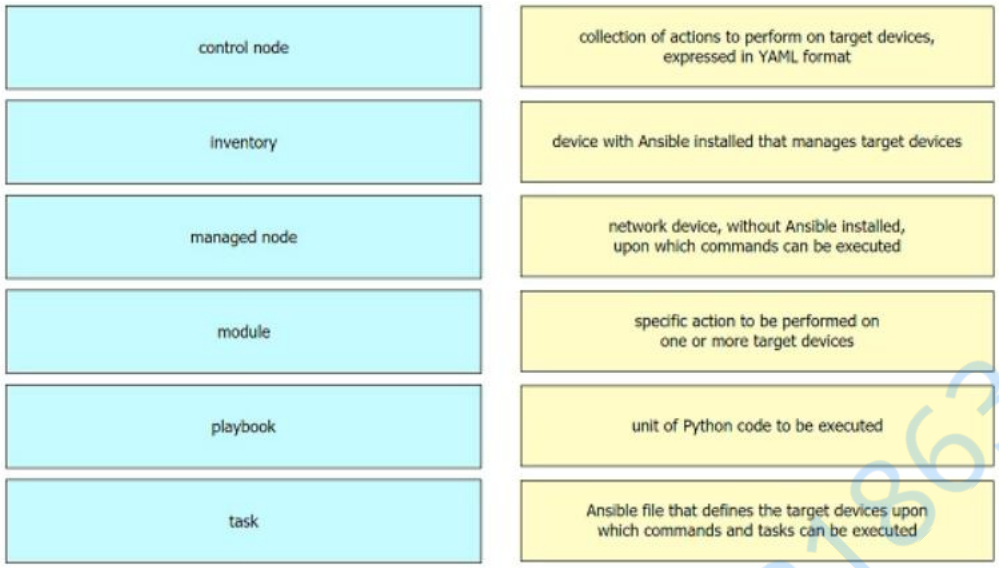
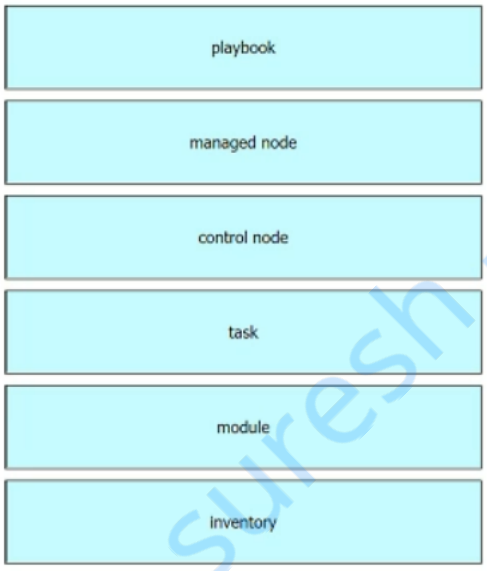
QUESTION NO. 153

Drag and drop the Ansible terms from the left onto the right



Answer:



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QUESTION NO. 154

What are two descriptions of three-tier network topologies? (Choose two)

A. The core and distribution layers perform the same functions
B. The access layer manages routing between devices in different domains
C. The network core is designed to maintain continuous connectivity when devices fail.
D. The core layer maintains wired connections for each host
E. The distribution layer runs Layer 2 and Layer 3 technologies

Answer: C, E

QUESTION NO. 155

```
R1# show ip route
....
D        172.16.32.0/27 [90/2888597172]  via 20.1.1.1
O        172.16.32.0/19  [110/292094]    via 20.1.1.10
R        172.16.32.0/24  [120/2]  via 20.1.1.3
```

Refer to the exhibit. Router R1 is running three different routing protocols. Which route characteristics is used by the router to forward the packet that it receives for destination IP 172.16.32.1?

A. Longest prefix
B. Metric
C. Cost
D. Administrative distance

Answer: A

QUESTION NO. 156

Which plane is centralized by an SDN controller?

A. Services-plane
B. Data-plane
C. Management-plane
D. Control-plane

Answer: D

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QUESTION NO. 157

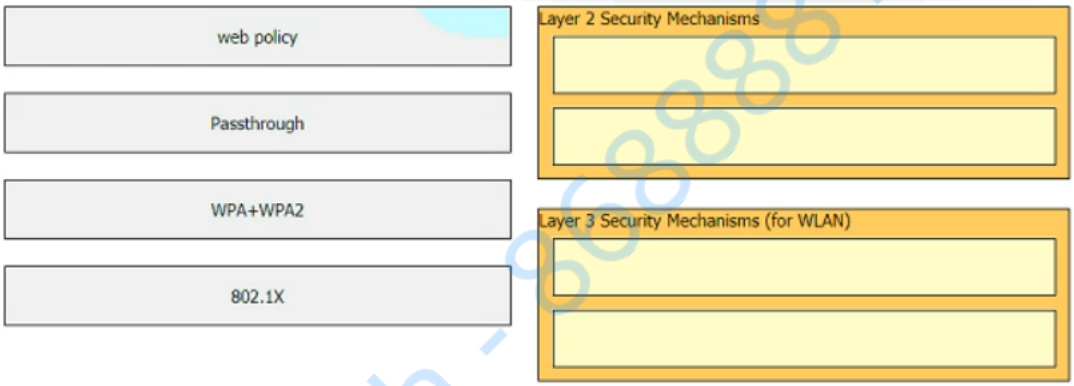
How does the dynamically-learned MAC address feature function?

A. Switches dynamically learn MAC addresses of each connecting CAM table.
B. The CAM table is empty until ingress traffic arrives at each port.
C. It requires a minimum number of secure MAC addresses to be filled dynamically.
D. The ports are restricted and learn up to a maximum of 10 dynamically-learned addresses

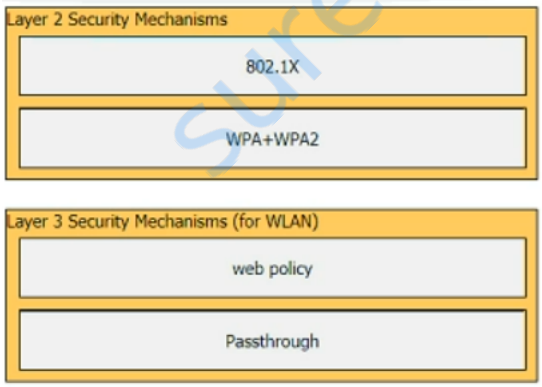
Answer: B

QUESTION NO. 158

Drag and drop the Cisco Wireless LAN controller security settings from the left onto the correct security mechanism categories on the right.



Answer:



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QUESTION NO. 159

Which event has occurred if a router sends a notice level message to a syslog server?

A. A certificate has expired
B. An ICMP connection has been built
C. An interface line has changed status.
D. A TCP connection has been torn down.

Answer: C

QUESTION NO. 160

While examining excessive traffic on the network, it is noted that all incoming packets on an interface appear to be allowed even though an IPv4 ACL is applied to the interface. Which two misconfigurations cause this behavior? (Choose two)

A. The packets fail to match any permit statement
B. A matching permit statement is too high in the access test
C. A matching permit statement is too broadly defined
D. The ACL is empty
E. A matching deny statement is too high in the access list

Answer: B, C

QUESTION NO. 161

What are two benefits of using the PortFast feature? (Choose two)

A. Enabled interfaces are automatically placed in listening state
B. Enabled interfaces come up and move to the forwarding state immediately
C. Enabled interfaces never generate topology change notifications.
D. Enabled interfaces that move to the learning state generate switch topology change notifications
E. Enabled interfaces wait 50 seconds before they move to the forwarding state

Answer: A, B

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QUESTION NO. 162

```
R1#config t
R1(config)# interface gi1/1
R1(config-if)# ip address 192.168.0.1 255.255.255.0

R1(config)# router bgp 65000
R1(config-router)# neighbor 192.168.0.2 remote-as 65001
R1(config-router)# network 10.1.1.0 mask 255.255.255.0

R1(config)# router ospf 1
R1(config)# router-id 1.1.1.1
R1(config)# network 192.168.0.1 0.0.0.0 area 0
R1(config)# network 10.1.1.0 0.0.0.255 area 0

R1(config)# router eigrp 1
R1(config)# eigrp router-id 1.1.1.1
R1(config)# network 10.1.1.0 0.0.0.255
R1(config)# network 192.168.0.1 0.0.0.0

R2#config t
R2(config)# interface gi1/1
R2(config-if)# ip address 192.168.0.2 255.255.255.0

R2#config t
R2(config)# router bgp 65001
R2(config-router)# neighbor 192.168.0.1 remote-as 65000

R2(config)# router ospf 1
R2(config)# router-id 2.2.2.2
R2(config)# network 192.168.1.2 0.0.0.0 area 0

R2(config)# router eigrp 1
R2(config)# eigrp router-id 1.1.1.1
R2(config)# network 192.168.0.1 0.0.0.0

R2(config)# ip route 10.1.1.0 255.255.255.0 192.168.0.1
```

Refer to the exhibit. Router R2 is configured with multiple routes to reaches to reach network 10.1.1.0/24 from router R1. Which path is chosen by router R2 to reach the destination network 10.1.1.0/24?

A. Static
B. eBGP
C. EIGRP
D. OSPF

Answer: A

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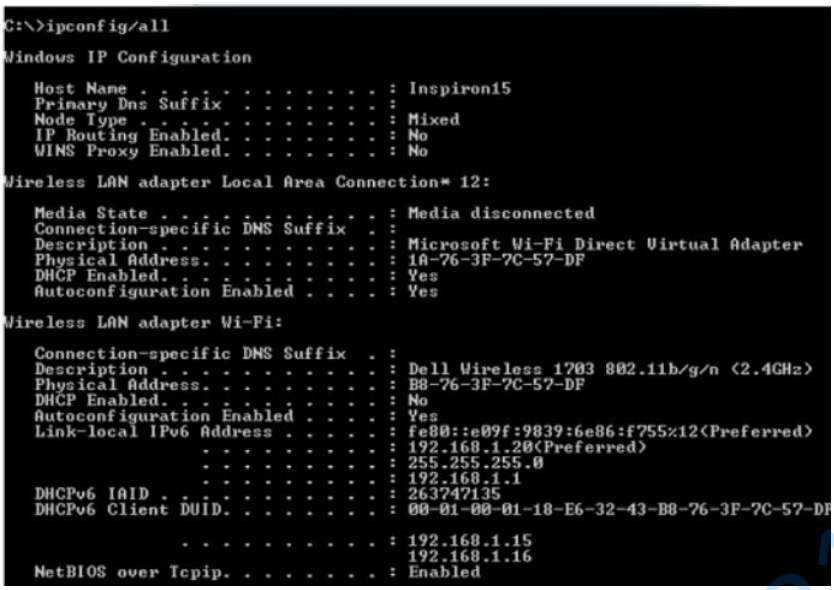
QUESTION NO. 163



Refer to the exhibit. An engineer is required to verify that the network parameters are valid for the users wireless LAN connectivity on a /24 subnet. Drag and drop the values from the left onto the network parameters on the right. Not all values are used.

192.168.1.1	broadcast address
192.168.1.20	default gateway
192.168.1.254	host IP address
192.168.1.255	last assignable IP address in the subnet
B8-76-3F-7C-57-DF	MAC address
1A-76-3F-7C-57-DF	network address
192.168.1.0	

Answer:

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192.168.1.255

192.168.1.1

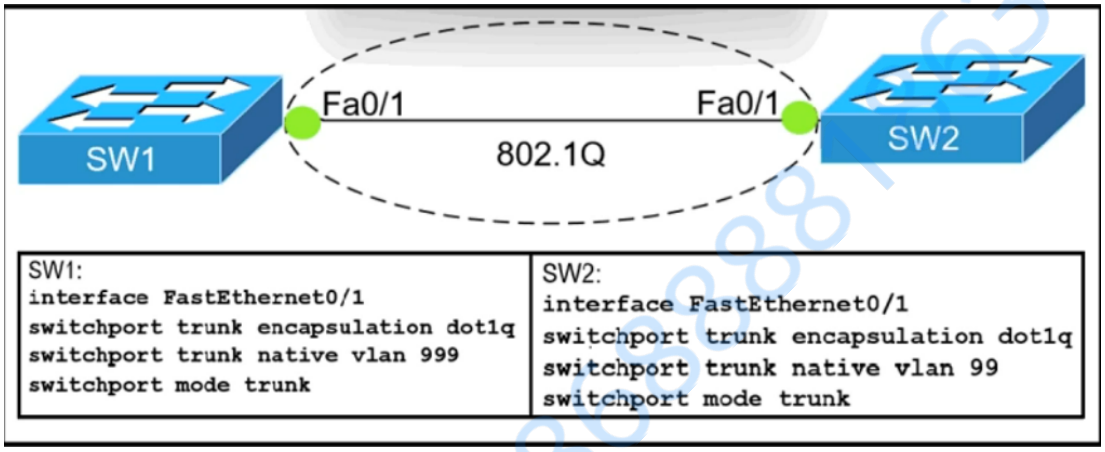
192.168.1.20

192.168.1.254

B8-76-3F-7C-57-DF

192.168.1.0

QUESTION NO. 164



Refer to the exhibit. Which action do the switches take on the trunk link?

A. The trunk does not form, but VLAN 99 and VLAN 999 are allowed to traverse the link.
B. The trunk forms, but VLAN 99 and VLAN 999 are in a shutdown state.
C. The trunk does not form. And the ports go into an err-disabled status.
D. The trunk forms, but the mismatched native VLANs are merged into a single broadcast domain.

Answer: D

QUESTION NO. 165

A network administrator must enable DHCP services between two sites. What must be configured for the router to pass DHCPDISCOVER messages on the server?

A. A DHCP pool
B. DHCP binding
C. DHCP Snooping
D. A DHCP Relay Agent

Answer: D

QUESTION NO. 166

Which action must be taken to assign a global unicast IPv6 address on an interface that is derived from the MAC address of that interface?

A. Disable the EUI-64 bit process
B. Configure a stateful DHCPv6 server on the network
C. Enable SLAAC on an interface
D. Explicitly assign a link-local address

Answer: C

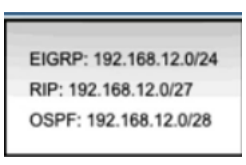
QUESTION NO. 167

What is the difference in data transmission delivery and reliability between TCP and UDP?

A. TCP transmits data at a higher rate and ensures packet delivery. UDP retransmits lost data to ensure applications receive the data on the remote end.
B. UDP sets up a connection between both devices before transmitting data. TCP uses the three-way handshake to transmit data with a reliable connection.
C. UDP is used for multicast and broadcast communication. TCP is used for unicast communication and transmits data at a higher rate with error checking.
D. TCP requires the connection to be established before transmitting data. UDP transmits data at a higher rate without ensuring pack delivery.

Answer: D

QUESTION NO. 168



How does the router manage traffic to 192.168.12.16?

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A. It selects the RIP route because it has the longest prefix inclusive of the destination address.
B. It chooses the OSPF route because it has the longest prefix inclusive of the destination address.
C. it load-balances traffic between all three routes
D. It chooses the EIGRP route because it has the lowest administrative distance.

Answer: A

QUESTION NO. 169

A port security violation has occurred on a switch port due to the maximum MAC address count being exceeded. Which command must be configured to increment the security-violation count and forward an SNMP trap?

A. Switchport port-security violation access
B. Switchport port-security violation protect
C. Switchport port-security violation restrict
D. Switchport port-security violation shutdown

Answer: C

QUESTION NO. 170

In which situation is private IPv4 addressing appropriate for a new subnet on the network of an organization?

A. The network has multiple endpoint listeners, and it is desired to limit the number of broadcasts.
B. The ISP requires the new subnet to be advertised to the internet for web services.
C. There is limited unique address space, and traffic on the new subnet will stay local within the organization
D. Traffic on the subnet must traverse a site-to-site VPN to an outside organization.

Answer: C

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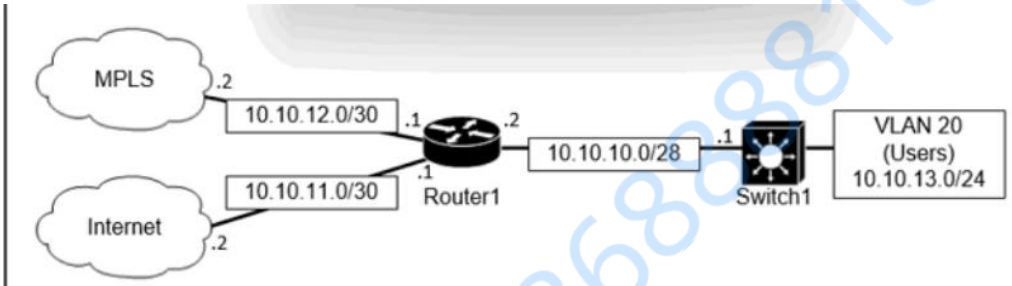
QUESTION NO. 171

An office has 8 floors with approximately 30-40 users per floor. One subnet must be used. Which command must be configured on the router Switched Virtual Interface to use address space efficiently?

A. ip address 192.168.0.0 255.255.0.0
B. ip address 192.168.0.0 255.255.254.0
C. ip address 192.168.0.0 255.255.255.128
D. ip address 192.168.0.0 255.255.255.224

Answer: B

QUESTION NO. 172




```
Router1#show ip route
Gateway of last resort is 10.10.11.2 to network 0.0.0.0
     209.165.200.0/27 is subnetted, 1 subnets
B       209.165.200.224 [20/0] via 10.10.12.2, 00:09:57
     10.0.0.0/8 is variably subnetted, 4 subnets, 3 masks
C       10.10.10.0/28 is directly connected, GigabitEthernet0/0
C       10.10.11.0/30 is directly connected, FastEthernet2/0
O       10.10.13.0/24 [110/2] via 10.10.10.1, 00:08:34, GigabitEthernet0/0
C       10.10.12.0/30 is directly connected, GigabitEthernet0/1
S*   0.0.0.0/0 [1/0] via 10.10.11.2

Switch1#show ip route
Gateway of last resort is not set
     10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C       10.10.10.0/28 is directly connected, FastEthernet0/1
C       10.10.13.0/24 is directly connected, VLAN20
```

Refer to the exhibit. Which path is used by the router for Internet traffic?

A. 10.10.13.0/24
B. 0.0.0.0/0
C. 10.10.10.0/28
D. 209.165.200.0/27

Answer: B

QUESTION NO. 173

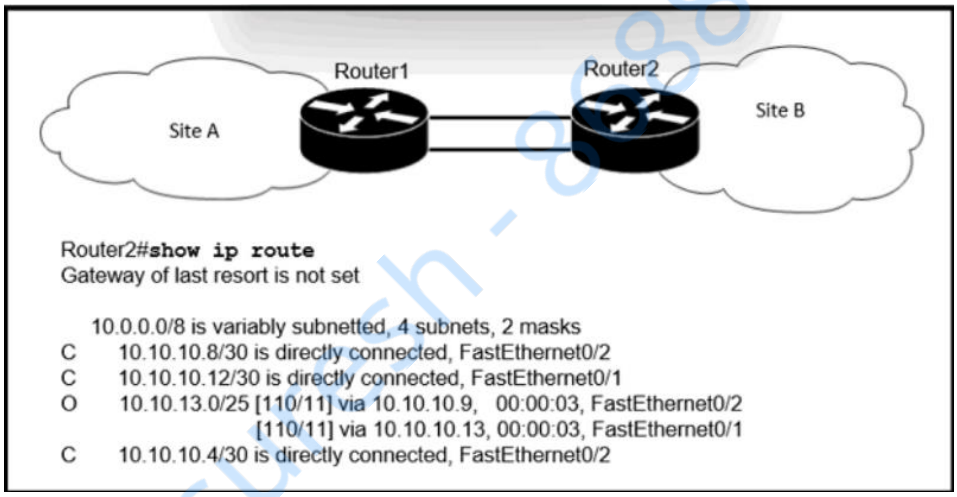
```
interface GigabitEthernet3/1/4
 switchport voice vlan 50
!
```

Refer to the exhibit. An administrator is tasked with configuring a voice VLAN. What is the expected outcome when a Cisco phone is connected to the GigabitEthernet3/1/4 port on a switch?

A. The phone sends and receives data in VLAN 50, but a workstation connected to the phone sends and receives data in VLAN 1.
B. The phone and a workstation that is connected to the phone send and receive data in VLAN 50.
C. The phone and a workstation that is connected to the phone do not have VLAN connectivity.
D. The phone sends and receives data in VLAN 50, but a workstation connected to the phone has no VLAN connectivity.

Answer: A

QUESTION NO. 174



Refer to the exhibit. If OSPF is running on this network, how does router2 handle traffic from site B to 10.10.13.128/25 at Site A?

A. It is unreachable and discards the traffic.
B. It sends packets out of interface Fa0/2.
C. It sends packets out of interface Fa0/1.
D. It load-balances traffic out of Fa0/1 and Fa0/2.

Answer: A

QUESTION NO. 175

Which unified access point mode continues to serve wireless clients after losing connectivity to the cisco Wireless LAN controller?

A. Sniffer
B. Flexconnect
C. Local
D. Mesh

Answer: B

QUESTION NO. 176

A network administrator is asked to configure VLANS 2,3, and 4 for a new implementation. Some ports must be assigned to the new VLANs with unused ports remaining. Which action should be taken for the unused ports?

A. Configure in a nondefault native VLAN
B. Configure ports in the native VLAN
C. Configure ports in a black hole VLAN
D. Configure ports as access ports

Answer: C

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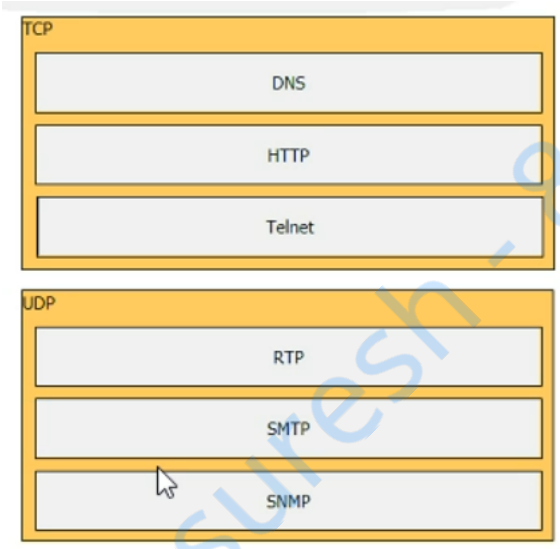
QUESTION NO. 177

Drag and drop the TCP/IP protocols from the left onto their primary transmission protocols on the right.

Answer:



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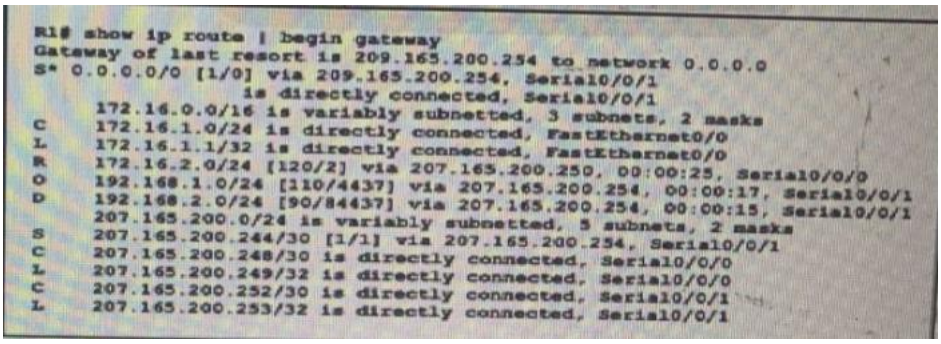
QUESTION NO. 178



Refer to the exhibit. Which network prefix was learned via EIGRP?

A. 192.168.2.0/24
B. 192.168.1.0/24
C. 207.165.200.0/24
D. 172.16.0.0/16

Answer: A

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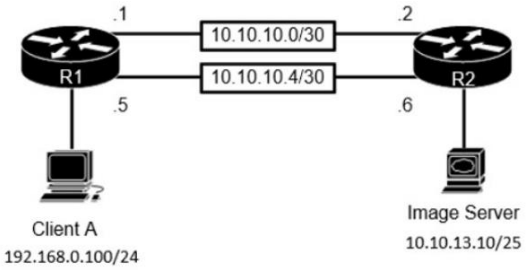
QUESTION NO. 179




```
R1#show ip route
Gateway of last resort is 10.10.10.2 to network 0.0.0.0
S*    0.0.0.0/0 [1/0] via 10.10.10.2

R2#show ip route
Gateway of last resort is 10.10.10.1 to network 0.0.0.0
S*    0.0.0.0/0 [1/0] via 10.10.10.1
```

Refer to the exhibit. The image server and client A are running an application that transfers an extremely high volume of data between the two. An engineer is configuring a dedicated circuit between R1 and R2. Which set of commands must the engineer apply to the routers so that only traffic between the image server and client A is forces to use the new circuit?

- R1(config)#ip route 10.10.13.10 255.255.255.255 10.10.10.6
  R2(config)#ip route 192.168.0.100 255.255.255.255 10.10.10.5
- R1(config)#ip route 10.10.13.10 255.255.255.128 10.10.10.6
  R2(config)#ip route 192.168.0.100 255.255.255.0 10.10.10.5
- R1(config)#ip route 10.10.13.10 255.255.255.252 10.10.10.6
  R2(config)#ip route 192.168.0.100 255.255.255.252 10.10.10.5
- R1(config)#ip route 10.10.13.10 255.255.255.255 10.10.10.2
  R2(config)#ip route 192.168.0.100 255.255.255.255 10.10.10.1

Answer: D

QUESTION NO. 180

A network administrator is setting up a new IPv6 network using the 64-bit address 2001:0EB8:00C1:2200:0001:0000:0331/64. To simplify the configuration, the administrator has decided to compress the address. Which IP address must the administrator configure?

A. Ipv6 address 2001:EB8:C1:2200:1::331/64
B. Ipv6 address 2001:EB8:C1:22:1:331/64
C. Ipv6 address 21:EB8:C1:2200:1::331/64
D. Ipv6 address 2001:EB8:C1:2200:1:000:331/64

Answer: A

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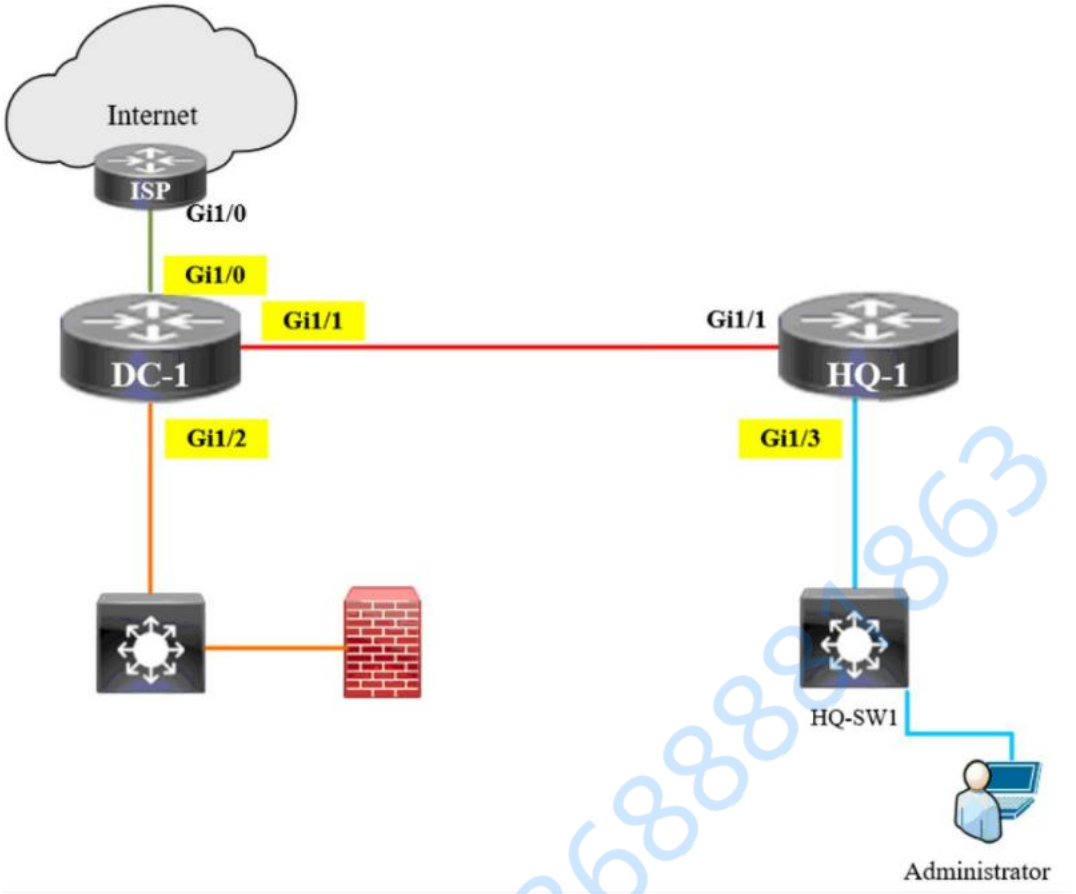
QUESTION NO. 181



Refer to the exhibit. The IP address configurations must be completed on the DC-1 and HQ-1 routers based on these requirements:

DC-1 Gi1/0 must be the last usable address on a /30
DC-1 Gi1/1 must be the first usable address on a /29
DC-1 Gi1/2 must be the last usable address on a /28
HQ-1 Gi1/3 must be the last usable address on a /29

Drag and drop the commands from the left onto the destination interfaces on the right. Not all commands are used.

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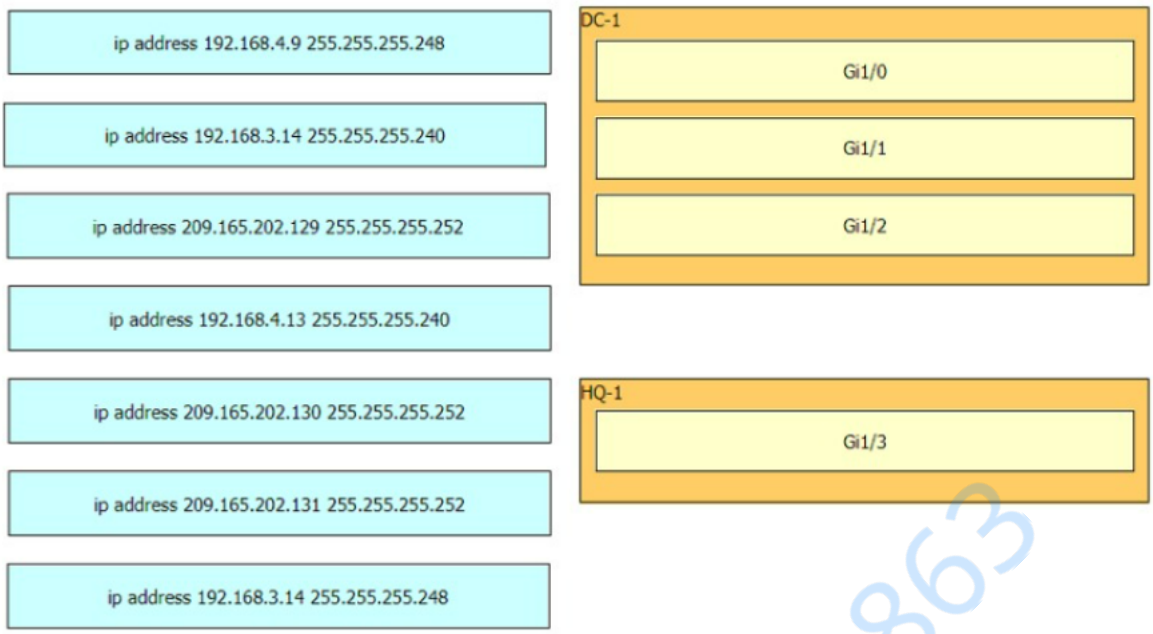
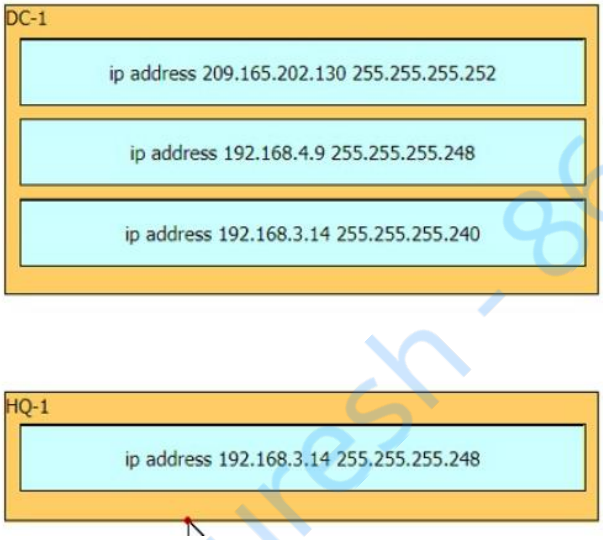


Answer:



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QUESTION NO. 182

In an SDN architecture, which function of a network node is centralized on a controller?

A. Creates the IP routing table
B. Discards a message due filtering
C. Makes a routing decision
D. Provides protocol access for remote access devices

Answer: D

QUESTION NO. 182

```
Gateway of last resort is not set

     10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C       10.1.1.0/30 is directly connected, GigabitEthernet0/0
L       10.1.1.2/32 is directly connected, GigabitEthernet0/0
S    192.168.0.0/20 [1/0] via 10.1.1.1
     192.168.1.0/30 is subnetted, 1 subnets
S       192.168.1.0/30 [1/0] via 10.1.1.1
     192.168.2.0/24 is variably subnetted, 2 subnets, 2 masks
S       192.168.2.0/28 [1/0] via 10.1.1.1
S       192.168.2.0/29 [1/0] via 10.1.1.1
```

Refer to the exhibit. An engineer is checking the routing table in the main router to identify the path to a server on the network. Which route does the router use to reach the server at 192.168.2.2?

A. S 192.168.0.0/20 [1/0] via 10.1.1.1
B. S 192.168.2.0/29 [1/0] via 10.1.1.1
C. S 192.168.2.0/28 [1/0] via 10.1.1.1
D. S 192.168.1.0/30 [1/0] via 10.1.1.1

Answer: B

QUESTION NO. 183

What is a benefit for external users who consume public cloud resources?

A. Implemented over a dedicated WAN
B. All hosted on physical servers
C. Accessed over the Internet
D. Located in the same data center as the users

Answer: C

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QUESTION NO. 184

Which two wireless security standards use counter mode cipher block chaining Message Authentication Code Protocol for encryption and data integrity? (Choose two)

A. Wi-Fi 6
B. WPA3
C. WEP
D. WPA2
E. WPA

Answer: B, C

QUESTION NO. 185

What is a function performed by a web server?

A. Send and retrieve email from client devices
B. Authenticate and authorize a user's identity
C. Provide an application that is transmitted over HTTP
D. Securely store files for FTP access

Answer: C

QUESTION NO. 186

An engineer must update the configuration on two PCs in two different subnets to communicate locally with each other. One PC is configured with IP address 192.168.25.128/25 and the other with 192.168.25.100/25. Which network mask must the engineer configure on both PCs to enable the communication?

A. 255.255.255.248
B. 255.255.255.224
C. 255.255.255.0
D. 255.255.255.252

Answer: D

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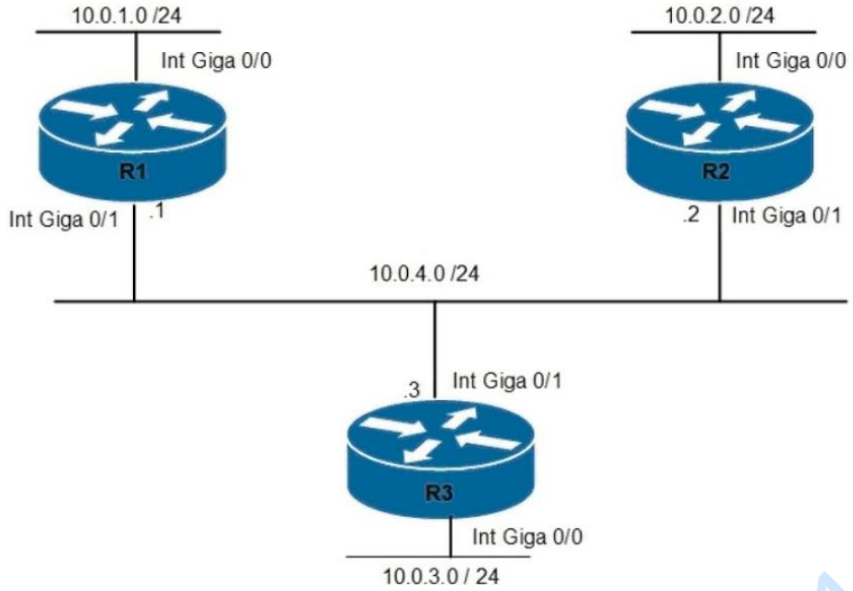
QUESTION NO. 187



Refer to the exhibit. Router R1 must be configured to reach the 10.0.3.0/24 network from the 10.0.1.0/24 segment. which command must be used to configure the route?

A. ip route 10.0.3.0 0.255.255.255 10.0.4.2
B. route add 10.0.3.0 0.255.255.255 10.0.4.2
C. route add 10.0.3.0 mask 255.255.255.0 10.0.4.3
D. ip route 10.0.3.0 255.255.255.0 10.0.4.3

Answer: D

QUESTION NO. 188

An engineer must configure neighbor discovery between the company router and an ISP.

```
interface gigabitethernet0/0
description Circuit-ATT4139-84320
duplex full
speed 1000
media-type gbic
negotiation auto
lldp transmit
lldp receive
```

What is the next step to complete the configuration if the ISP uses a third-party router?

A. Enable LLDP globally.
B. Disable CDP on gi0/0.
C. Enable LLDP TLVs on the ISP router.
D. Disable auto-negotiation.

Answer: A

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QUESTION NO. 189

```
R1# show ip route | begin gateway
Gateway of last resort is not set
     172.16.0.0/16 is variably subnetted, 3 subnets, 2 masks
C    172.16.1.0/24 is directly connected, FastEthernet0/0
L    172.16.1.1/32 is directly connected, FastEthernet0/0
EX   172.16.2.0/24 [170/2] via 207.165.200.250, 00:00:25, Serial0/0/0
O    192.168.1.0/24 [110/84437] via 207.165.200.254, 00:00:17, Serial0/0/1
D    192.168.2.0/24 [90/184437] via 207.165.200.254, 00:00:15, Serial0/0/1
E1   192.168.3.0/24 [110/1851437] via 207.165.200.254, 00:00:19, Serial0/0/1
     207.165.200.0/24 is variably subnetted, 4 subnets, 2 masks
C    207.165.200.248/30 is directly connected, Serial0/0/0
L    207.165.200.249/32 is directly connected, Serial0/0/0
C    207.165.200.252/30 is directly connected, Serial0/0/1
L    207.165.200.253/32 is directly connected, Serial0/0/1
```

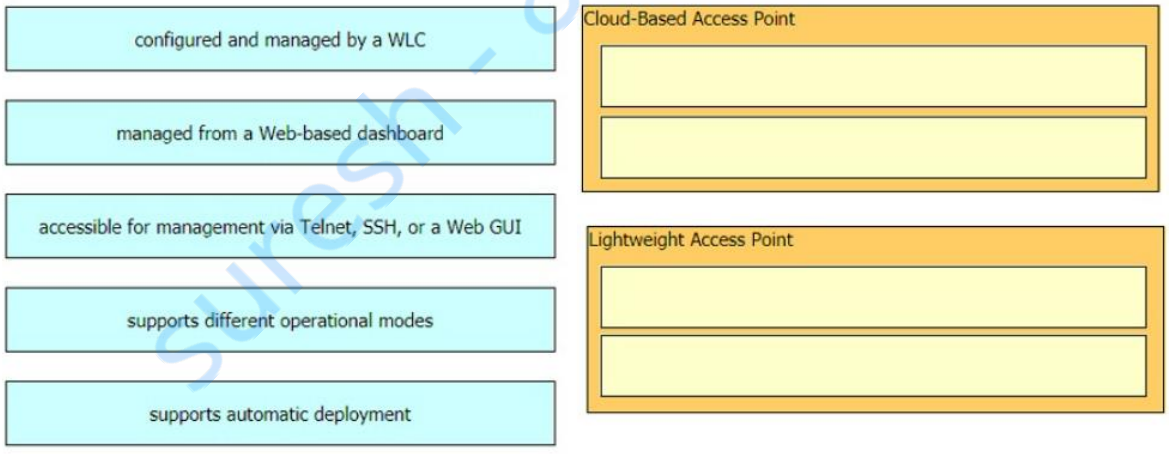
Refer to the exhibit. Which prefix did router R1 learn from internal EIGRP?

A. 192.168.2.0/24
B. 192.168.3.0/24
C. 172.16.1.0/24
D. 192.168.1.0/24

Answer: A

QUESTION NO. 190

Drag and drop the facts about wireless architectures from the left onto the types of access point on the right. Not all options are used.



Answer:

2&5 cloud based
1&4 light weight

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QUESTION NO. 191

Refer to the exhibit. An OSPF neighbor relationship must be configured using these guidelines:

- R1 is only permitted to establish a neighbor with R2.
- R1 will never participate in DR elections.
- R1 will use a router-id of 10.1.1.1.

Which configuration must be used?

A.

```
interface FastEthernet0/0
 ip address 10.100.1.1 255.255.255.252
 ip ospf priority 0
 ip access-group 102 in

router ospf 10
 log-adjacency-changes
 network 10.1.1.1 0.0.0.0 area 0
 network 10.100.1.0 0.0.0.3 area 0
 router-id 10.1.1.1

access-list 102 permit 89 host 10.100.1.2 host 224.0.0.5
access-list 102 deny 89 any any
access-list 102 permit ip any any
```

B.

```
interface Loopback0
 ip address 10.1.1.1 255.255.255.255

interface FastEthernet0/0
 ip address 10.100.1.1 255.255.255.252
 ip ospf priority 100
 ip access-group 102 in

router ospf 10
 log-adjacency-changes
 network 10.1.1.1 0.0.0.0 area 0
 network 10.100.1.0 0.0.0.3 area 0
 ospf router-id 10.1.1.1

access-list 102 permit 88 host 10.100.1.2 host 224.0.0.5
access-list 102 deny 88 any any
access-list 102 permit ip any any
```

C.

```
interface FastEthernet0/0
 ip address 10.100.1.1 255.255.255.252
 ip ospf priority 100
 ip access-group 102 in

router ospf 10
 log-adjacency-changes
 network 10.1.1.1 0.0.0.0 area 0
 network 10.100.1.0 0.0.0.3 area 0
 ospf router-id 10.1.1.1

access-list 102 permit 89 host 10.100.1.2 host 224.0.0.5
access-list 102 deny 89 any any
access-list 102 permit ip any any
```

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D.

```
interface Loopback0
 ip address 10.1.1.1 255.255.255.255

interface FastEthernet0/0
 ip address 10.100.1.1 255.255.255.252
 ip ospf priority 0
 ip access-group 102 in

router ospf 10
 log-adjacency-changes
 network 10.1.1.1 0.0.0.0 area 0
 network 10.100.1.0 0.0.0.3 area 0
 router-id 10.1.1.1

access-list 102 permit 88 host 10.100.1.2 host 224.0.0.5
access-list 102 deny 88 any any
access-list 102 permit ip any any
```

Answer: A

QUSTION NO. 192

A network engineer is implementing a corporate SSID for WPA3-Personal security with a PSK. Which encryption cipher must be configured?

A. CCMP128
B. GCMP256
C. CCMP256
D. GCMP128

Answer: A

QUESTION NO. 193

Which SDN plane forwards user-generated traffic?

A. Management plane
B. Control plane
C. Policy plane
D. Data plane

Answer: D

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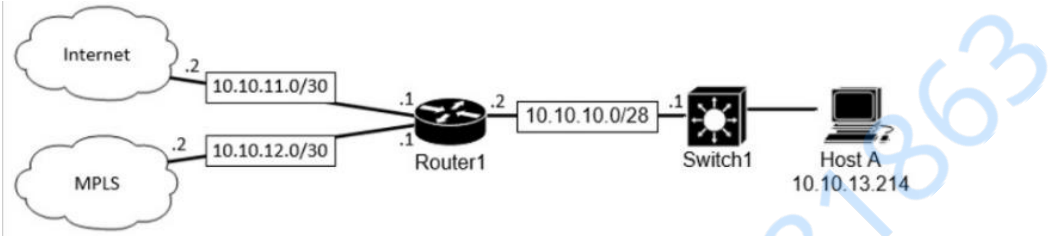
QUESTION NO. 194

Which key function is provided by the data plane?

A. Originating packets
B. Exchanging routing table data
C. Making routing decisions
D. Forwarding traffic to the next hop

Answer: D

QUESTION NO. 195




```
Router1#show ip route
Gateway of last resort is 10.10.11.2 to network 0.0.0.0

     209.165.200.0/27 is subnetted, 1 subnets
B       209.165.200.224 [20/0] via 10.10.12.2, 03:22:14
     209.165.201.0/27 is subnetted, 1 subnets
B       209.165.201.0 [20/0] via 10.10.12.2, 02:26:33
     209.165.202.0/27 is subnetted, 1 subnets
B       209.165.202.128 [20/0] via 10.10.12.2, 02:26:03
    10.0.0.0/8 is variably subnetted, 8 subnets, 4 masks
C      10.10.10.0/28 is directly connected, GigabitEthernet0/0
C      10.10.11.0/30 is directly connected, FastEthernet2/0
C      10.10.12.0/30 is directly connected, GigabitEthernet0/1
O      10.10.13.0/25 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O      10.10.13.128/28 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O      10.10.13.144/28 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O      10.10.13.160/29 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O      10.10.13.208/29 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
S*   0.0.0.0/0 [1/0] via 10.10.11.2
```

Refer to the exhibit. What is the prefix length for the route that router1 will use to reach host A?

A. /25
B. /27
C. /28
D. /29

Answer: D

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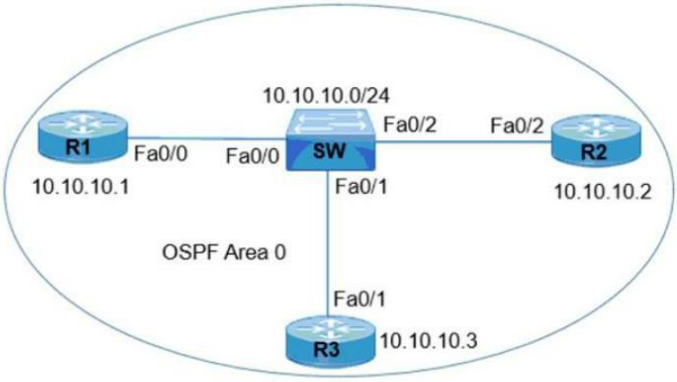
QUESTION NO. 196




```
R1#show ip ospf neighbor

Neighbor ID     Pri   State           Dead Time   Address         Interface
10.10.10.2      1   FULL/BDR        00:00:37    10.10.10.2      FastEthernet0/0
10.10.10.3      1   FULL/DR         00:00:35    10.10.10.3      FastEthernet0/0
```

Refer to the exhibit. R1 has taken the DROTHER role in the OSPF DR/BDR election process. Which configuration must an engineer implement so that R1 is elected as the DR?

- R1(config)#interface FastEthernet 0/0
  R1(config-if)#ip ospf priority 200
  R1#clear ip ospf process
- R1(config)#interface FastEthernet 0/0
  R1(config-if)#ip ospf priority 1
  R1#clear ip ospf process
- R2(config)#interface FastEthernet 0/2
  R2(config-if)#ip ospf priority 1
  R2#clear ip ospf process
- R3(config)#interface FastEthernet 0/1
  R3(config-if)#ip ospf priority 200
  R3#clear ip ospf process

Answer: A

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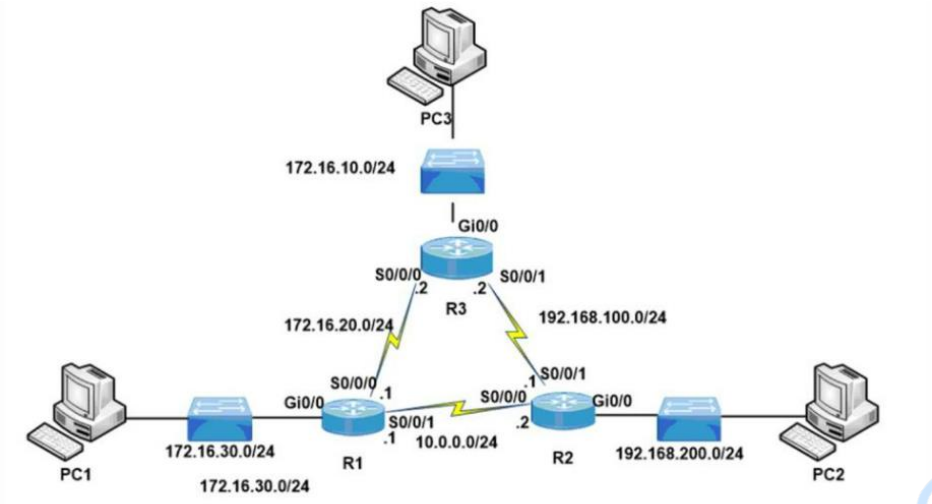
QUESTION NO. 197



Refer to the exhibit. After applying this configuration to router R1, a network engineer is verifying the implementation. If all links are operating normally, and the engineer sends a series of packets from PC1 to PC3, how are the packets routed?

A. They are distributed sent round robin to interfaces S0/0/0 and S0/0/1.
B. They are routed to 10.0.0.2
C. They are routed to 192.168.100.2
D. They are routed to 172.16.20.2

Answer: D

QUESTION NO. 198

What are the two functions of SSIDs? (Choose two.)

A. Supports a single access point
B. Broadcasts by default
C. Uses a maximum of 32 alphanumeric characters
D. Controls the speed of the Wi-Fi network
E. Used exclusively with controller-based Wi-Fi networks

Answer: C, E

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QUESTION NO. 199

After a recent security breach and a RADIUS failure, an engineer must secure the console port of each enterprise router with local username and password. Which configuration must the engineer apply to accomplish this task?

```
aaa new-model
line con 0
password plaintextpassword
privilege level 15
```

```
username localuser secret plaintextpassword
line con 0
login authentication default
privilege level 15
```

```
aaa new-model
aaa authorization exec default local
aaa authentication login default radius
username localuser privilege 15 secret plaintextpassword
```

```
username localuser secret plaintextpassword
line con 0
no login local
privilege level 15
```

Answer: C

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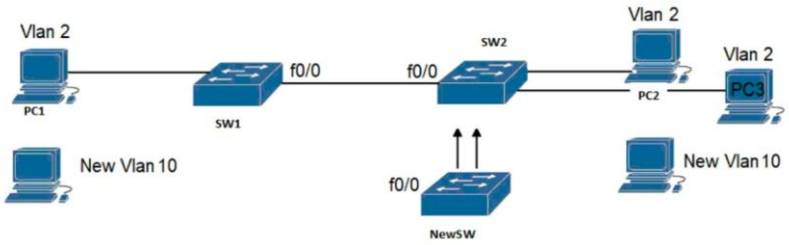
QUESTION NO. 200




```
SW1#show interface
interface FastEthernet0/0
 switchport access vlan 2
 switchport mode access
```

Refer to the exhibit. An engineer is configuring a new cisco switch, NewSW, to replace SW2. The details have been provided:

- Switches SW1 and SW2 are third-party devices without support for trunk ports.
- The existing connections must be maintained between PC1, PC3, and PC3.
- Allow the switch to pass traffic from future VLAN10.

Which configuration must be applied?

```
NewSW(config)#interface f0/0
NewSW(config-if)#switchport mode access
NewSW(config-if)#switchport trunk allowed vlan 2,10
NewSW(config-if)#switchport trunk native vlan 2
```

```
NewSW(config)#interface f0/0
NewSW(config-if)#switchport mode trunk
NewSW(config-if)#switchport trunk allowed vlan 10
NewSW(config-if)#switchport trunk native vlan 10
```

```
NewSW(config)#interface f0/0
NewSW(config-if)#switchport mode trunk
NewSW(config-if)#switchport trunk allowed vlan 2,10
NewSW(config-if)#switchport trunk native vlan 2
```

```
NewSW(config)#interface f0/0
NewSW(config-if)#switchport mode access
NewSW(config-if)#switchport trunk allowed vlan 2,10
NewSW(config-if)#switchport trunk native vlan 10
```

Answer: C

QUESTION NO. 201

```
service timestamps debug datetime msec
service timestamps log datetime msec
service password-encryption
!
hostname R4
!
boot-start-marker
boot-end-marker
!
ip cef
!
interface FastEthernet0/0
description WAN_INTERFACE
ip address 10.0.1.2 255.255.255.252
ip access-group 100 in
!
interface FastEthernet0/1
description LAN_INTERFACE
ip address 10.148.2.1 255.255.255.0
duplex auto
speed auto
!
ip forward-protocol nd
!
access-list 100 permit eigrp any any
access-list 100 permit icmp any any
access-list 100 permit tcp 10.149.3.0 0.0.0.255 host 10.0.1.2 eq 22
access-list 100 permit tcp any any eq 80
access-list 100 permit tcp any any eq 443
access-list 100 deny ip any any log
```

Refer to the exhibit, which configuration enables DHCP addressing for hosts connected to interface FastEthernet0/1 on router R4?

```
interface FastEthernet0/1
ip helper-address 10.0.1.1
!
access-list 100 permit udp host 10.0.1.1 eq bootps host 10.148.2.1
```

```
interface FastEthernet0/1
ip helper-address 10.0.1.1
!
access-list 100 permit tcp host 10.0.1.1 eq 67 host 10.148.2.1
```

```
interface FastEthernet0/0
ip helper-address 10.0.1.1
!
access-list 100 permit udp host 10.0.1.1 eq bootps host 10.148.2.1
```

```
interface FastEthernet0/0
ip helper-address 10.0.1.1
!
access-list 100 permit host 10.0.1.1 host 10.148.2.1 eq bootps
```

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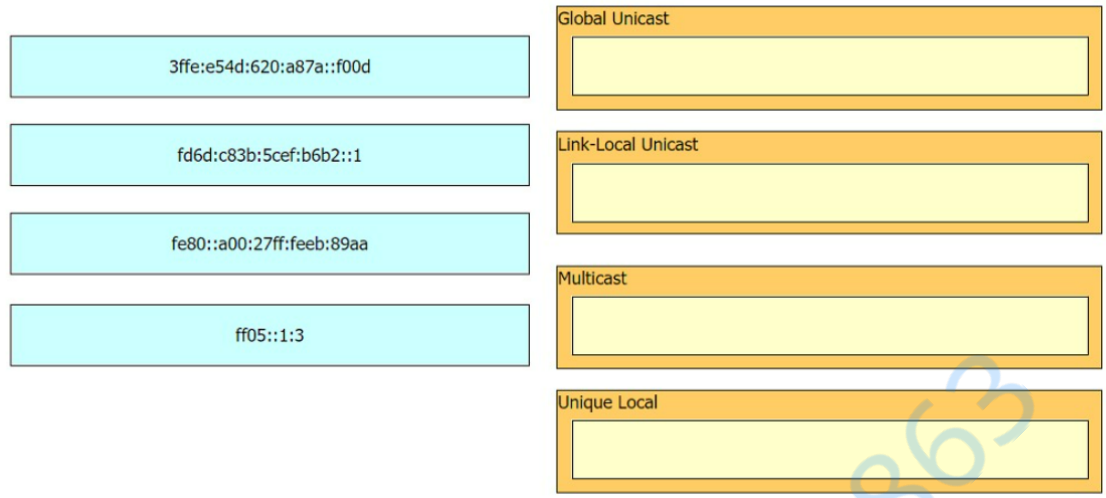
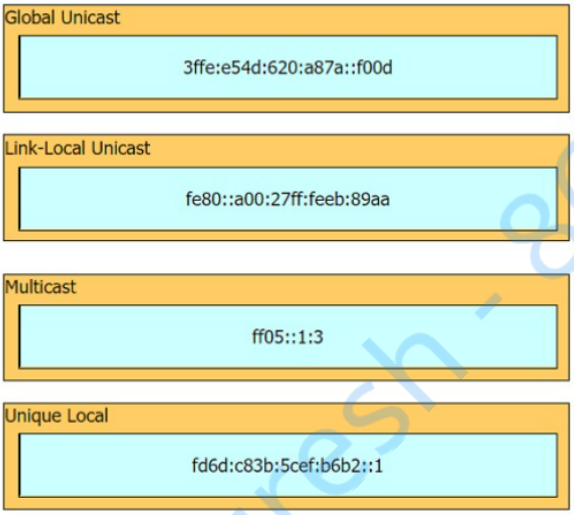
Answer: B

QUESTION NO. 202

Drag and drop the ipv6 addresses from the left onto the corresponding address types on the right.



Answer:



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QUESTION NO. 203

What is the function of FTP?

A. Always operated without user connection validation
B. Uses block number to identify and mitigate data-transfer errors
C. Relies on the well-known UDO port 69 for data transfer
D. Uses two separate connections for control and data traffic

Answer: D

QUESTION NO. 204

Which enhancements were implemented as part of WPA3?

A. Forward secrecy and SAE in personal mode for secure initial key exchange
B. 802.1x authentication and AES-128 encryption
C. AES-64 in personal mode and AES-128 in enterprise mode
D. TKIP encryption improving WEP and per-packet keying

Answer: A

QUESTION NO. 205

Why would a network administrator choose to implement automation in a network environment?

A. To simplify the process of maintaining a consistent configuration state across all devices
B. To centralize device information storage
C. To implement centralized user account management
D. To deploy the management plane separately from the rest of the network

Answer: D

QUESTION NO. 206

Which WLC interface provides out-of-band management the cisco Unified wireless Network Architecture?

A. Service port
B. AP-Manager
C. Virtual
D. Dynamic

Answer: A

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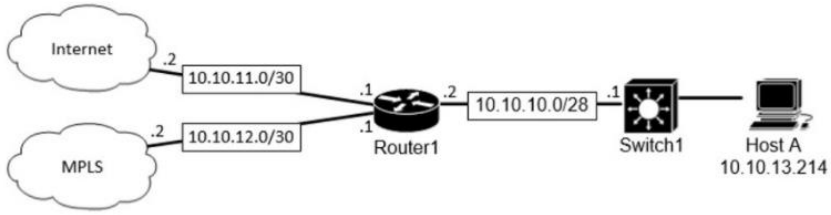
QUESTION NO. 207




```
Router1#show ip route
Gateway of last resort is 10.10.11.2 to network 0.0.0.0

     209.165.200.0/27 is subnetted, 1 subnets
B       209.165.200.224 [20/0] via 10.10.12.2, 03:22:14
     209.165.201.0/27 is subnetted, 1 subnets
B       209.165.201.0 [20/0] via 10.10.12.2, 02:26:33
     209.165.202.0/27 is subnetted, 1 subnets
B       209.165.202.128 [20/0] via 10.10.12.2, 02:26:03
     10.0.0.0/8 is variably subnetted, 8 subnets, 4 masks
C       10.10.10.0/28 is directly connected, GigabitEthernet0/0
C       10.10.11.0/30 is directly connected, FastEthernet2/0
C       10.10.12.0/30 is directly connected, GigabitEthernet0/1
O       10.10.13.0/25 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O       10.10.13.128/28 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O       10.10.13.144/28 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O       10.10.13.160/29 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O       10.10.13.208/29 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
S*   0.0.0.0/0 [1/0] via 10.10.11.2
```

Refer to the exhibit. What is the subnet mask of the route to the 10.10.13.160 prefix?

A. 255.255.255.128
B. 255.255.255.255.248
C. 255.255.248.0
D. 255.255.255.240

Answer: B

QUESTION NO. 208

What is the default port-security behavior on a trunk link?

A. It causes a network loop when a violation occurs.
B. It places the port in the err-disabled state after 10 MAC addresses are statically configured.
C. It places the port in the err-disabled state if it learns more than one MAC address
D. It disables the native VLAN configuration as soon as port security is enabled.

Answer: C

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QUESTION NO. 209

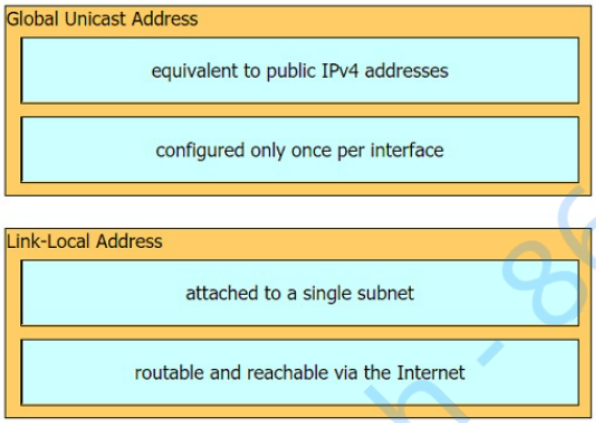
What are two examples of multifactor authentication? (Choose two)

A. Single sign-on
B. Unique user knowledge
C. Shared password repository
D. Soft tokens
E. Passwords that expire

Answer: C, D

QUESTION NO. 210

Drag and drop the Ipv6 address type characteristics from the left onto the right



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QUESTION NO. 211

Which device separates networks by security domains?

A. Access point
B. Firewall
C. Intrusion protection system
D. Wireless controller

Answer: B

QUESTION NO. 212

```
CPE1# show protocols e0/1
Ethernet0/1 is up, line protocol is up
   Internet address is 10.0.12.2/24

CPE1# show ip access-list LAN
Standard IP access list LAN
   10 permit 10.0.12.0, wildcard bits 0.0.0.255

CPE1# show ip nat translations

CPE1# show ip nat statistics
Total active translations: 0 (0 static, 0 dynamic; 0 extended)
Peak translations: 0
Outside interfaces:
Inside interfaces:
   Ethernet0/1
Hits: 0  Misses: 0
CEF Translated packets: 0, CEF Punted packets: 0
Expired translations: 0
Dynamic mappings:
-- Inside Source
[Id: 1] access-list LAN pool NATPOOL refcount 0
   pool NATPOOL: netmask 255.255.255.0
      start 198.51.100.11 end 198.51.100.20
      type generic, total addresses 10, allocated 0 (0%), misses 0

Total doors: 0
Appl doors: 0
Normal doors: 0
Queued Packets: 0
```

Refer to the exhibit. What is the next step to complete the implementation for the partial NAT configuration shown?

A. Apply the ACL to the pool configuration.
B. Modify the access list for the internal network on e0/1
C. Reconfigure the static NAT entries that overlap the NAT pool
D. Configure the NAT outside interface

Answer: C

QUESTION NO. 213

A router has two static routes to the same destination network under the same OSPF process. How does the router forward packets to the destination if the net-hop devices are different?

A. The router chooses the route with the oldest age.
B. The router chooses the next hop with the lowest IP address.
C. The router chooses the next hop with the lowest MAC address.
D. The router load-balances traffic over all routes to the destination.

Answer: B

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QUESTION NO. 214

Which WLC interface provides out-of-band management in the cisco unified wireless network architecture?

A. Service port
B. AP-Manager
C. Virtual
D. Dynamic

Answer: A

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QUESTION NO. 215

A network engineer must implement an ipv6 configuration on the vlan 2000 interface to create a routable locally-unique unicast address that is blocked from being advertised to the internet. Which configuration must the engineer apply?

A. Interface vlan 2000
   Ipv6 address fe80:0000:aaaa::1234:2343/65

B. Interface vlan 2000
   Ipv6 address fc00:0000:aaaa:a15d:1234:2343:8aca/64

C. Interface vlan 2000
   Ipv6 address ff00:0000:aaaa::1234:2342/64

D. Interface vlan 2000
   Ipv6 address fd00::1234:2343/64

Answer: B

QUESTION NO. 216

What is the effect when loopback interfaces and the configured router ID are absent during the OSPF process configuration?

A. The highest up/up physical interface IP address is selected as the router ID.
B. The router ID 0.0.0.0 us selected and placed in the OSPF process.
C. The lowest IP address is incremented by 1 and selected as the router ID.
D. No router ID is set and the OSPF protocol does not run.

Answer: A

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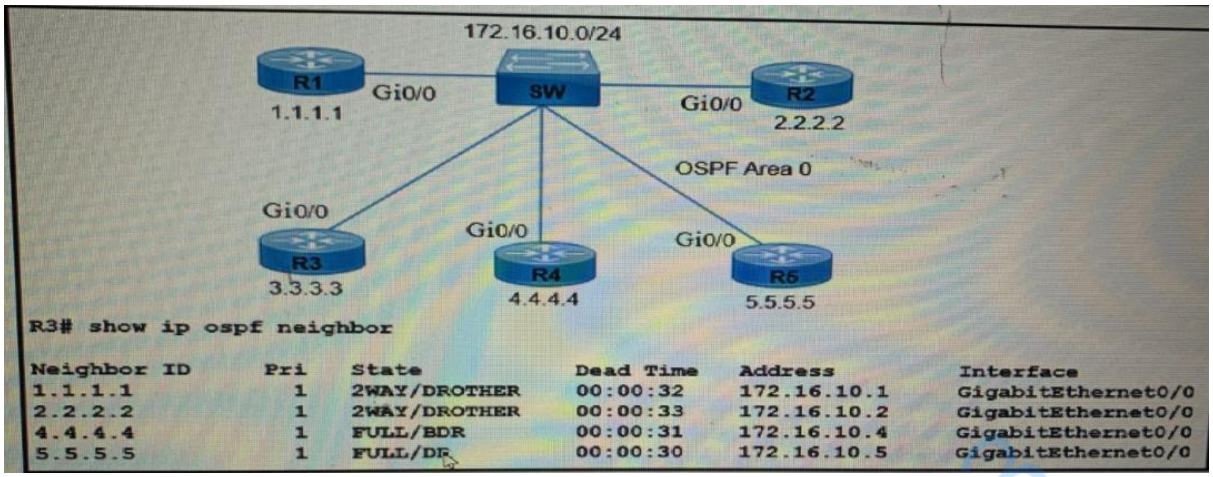
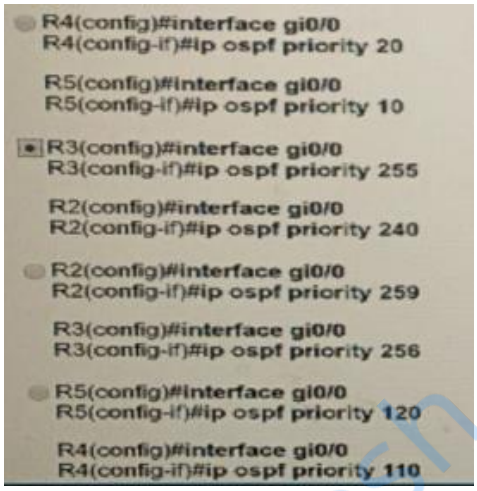
QUESTION NO. 217



Refer to the exhibit. R5 is the current DR on the network, and R4 is the BDR. Their interface are flapping, so a network engineer wants the ospf network to select a different DR and BDR what configurations must the engineer implement?



Answer: B

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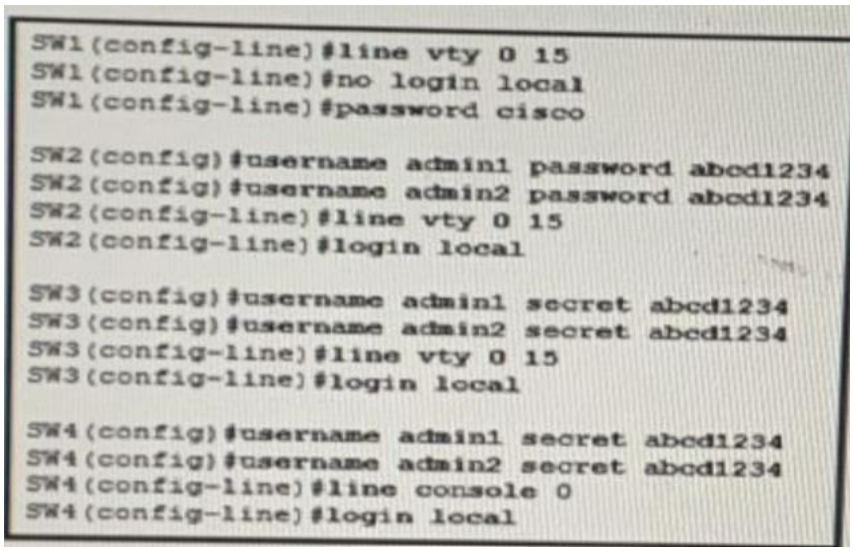
QUESTION NO. 218



Refer to the exhibit. An administrator configures four switches for local authentication using passwords that are stored as a cryptographic hash. The four switches must also support ssh access for administrators to manage the network infrastructure. Which switch is configured correctly to meet these requirements?

A. SW1
B. SW2
C. SW3
D. SW4

Answer: C

QUESTION NO. 219

Which command creates a static NAT binding for a PC address of 10.1.1.1 to the public routable address 209.165.200.225 assigned to the PC?

A. R1(config)#ip nat outside source static 209.165.200.225 10.1.1.1
B. R1(config)#ip nat outside source static 10.1.1.1 209.165.200.225
C. R1(config)#ip nat inside source static 209.165.200.225 10.1.1.1
D. R1(config)#ip nat inside source static 10.1.1.1 209.165.200.225

Answer: D

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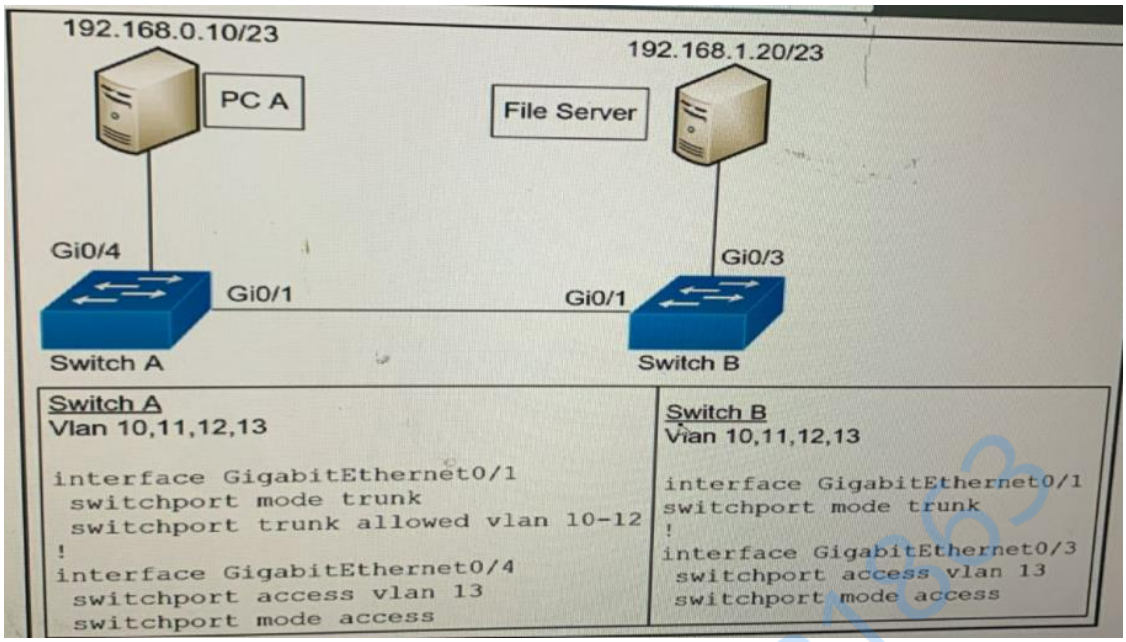
QUESTION NO. 220



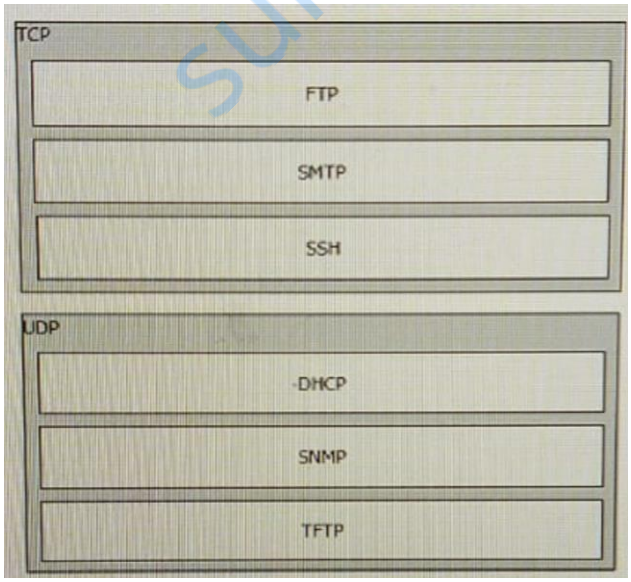
Refer to the exhibit. A network administrator assumes a task to complete the connectivity between PC A and the file server. Switch A and Switch B have been partially configured with VLANs 10,11,12 and 13, what is the next step in the configuration?

A. Add PC A to VLAN 10 and the File Server to VLAN 11 for VLAN segmentation.
B. Add VLAN 13 to the trunk links on switch A and Switch B for VLAN propagation.
C. Add a router on a stick between Switch A and Switch B allowing for inter-VLAN
D. Add PC A to the same subnet as the File Server allowing for intra-VLAN communication.

Answer: B

QUESTION NO. 221

Drag and drop the application protocols from the left onto the transport protocols that it uses on the right



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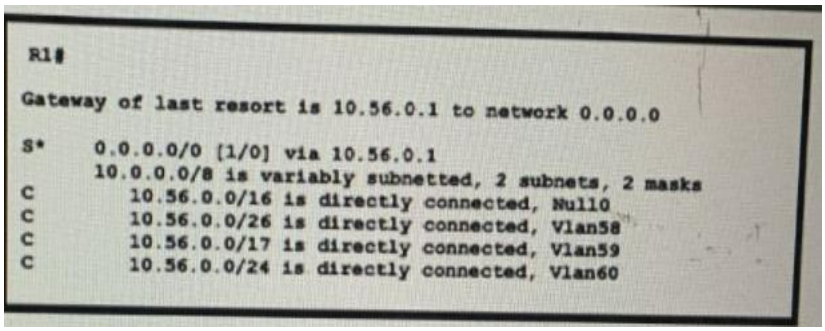
QUESTION NO. 222

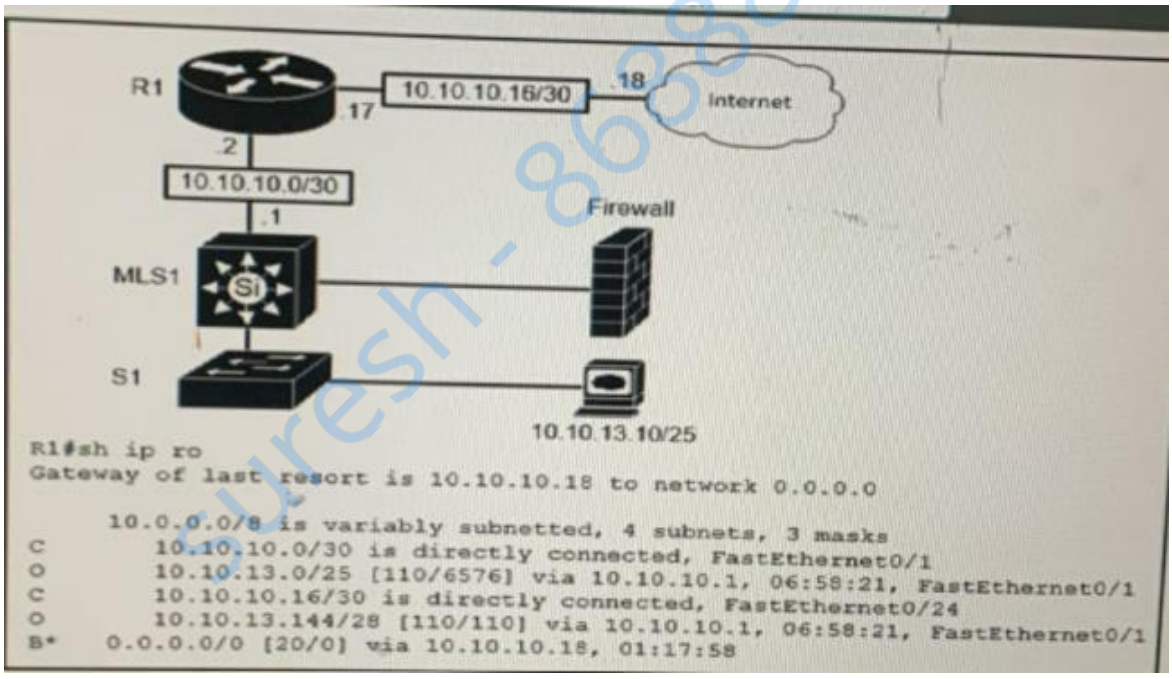


Refer to the exhibit. When router R1 receives a packet with destination IP address 10.56.0.62, through which interface does it route the packet?

A. Vlan58
B. Null0
C. Vlan59
D. Vlan60

Answer: A

QUESTION NO. 223



Refer to the exhibit. Which route type is configured to reach the Internet?

A. Host route
B. Default route
C. Floating static route
D. Network route

Answer: B

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QUESTION NO. 224

Which access point mode relies on a centralized controller for management, roaming and ssid configuration?

A. Bridge mode
B. Autonomous mode
C. Lightweight mode
D. Repeater mode

Answer: C

QUESTION NO. 225

What is a similarity between 1000BASE-LX and 1000BASE-T standards?

A. Both use the same data-link header and trailer formats.
B. Both cable types support LR connectors.
C. Both support up to 550 meters between nodes.
D. Both cable types support Rj-45 connectors.

Answer: A

QUESTION NO. 226

An engineer is configuring router R1 with an IPv6 static group for prefix 2019:C15C:0CAF:E001::/64. The next hop must be 2019:C15C:0CAF:E002::1. The route must be reachable via the R1 Gigabit 0/0 interface. Which command configured the designed route?

A. R1(config)#ipv6 route 2019:C15C:0CAF:E001::/64 2019:C15C:0CAF:E002::1
B. R1(config-if)#ipv6 route 2019:C15C:0CAF:E001::/64 2019:C15C:0CAF:E002::1
C. R1(config-if)#ip route 2019:C15C:0CAF:E001::/64 GigabitEthernet 0/0
D. R1(config)#ip route 2091:C15C:0CAF:E001::/64 GigabitEthernet 0/0

Answer: A

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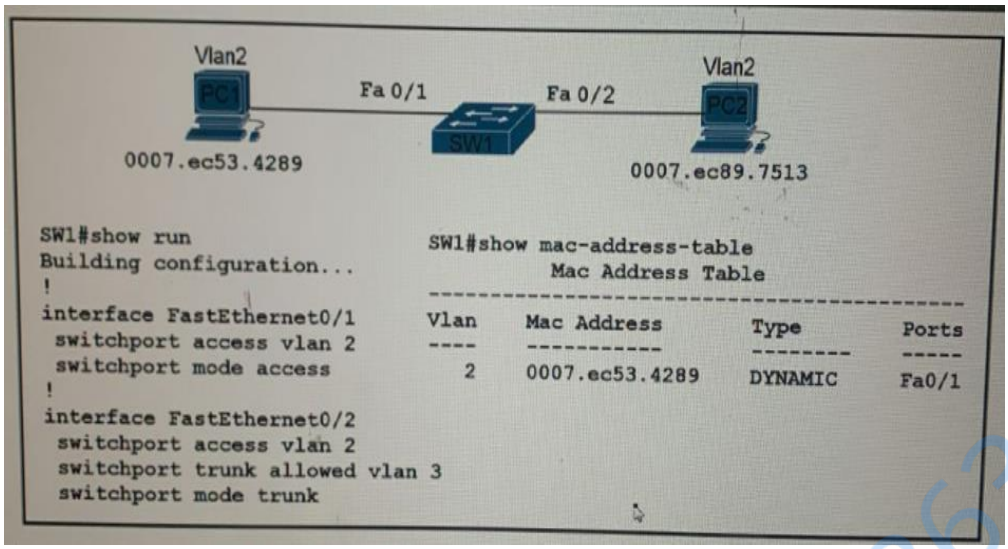
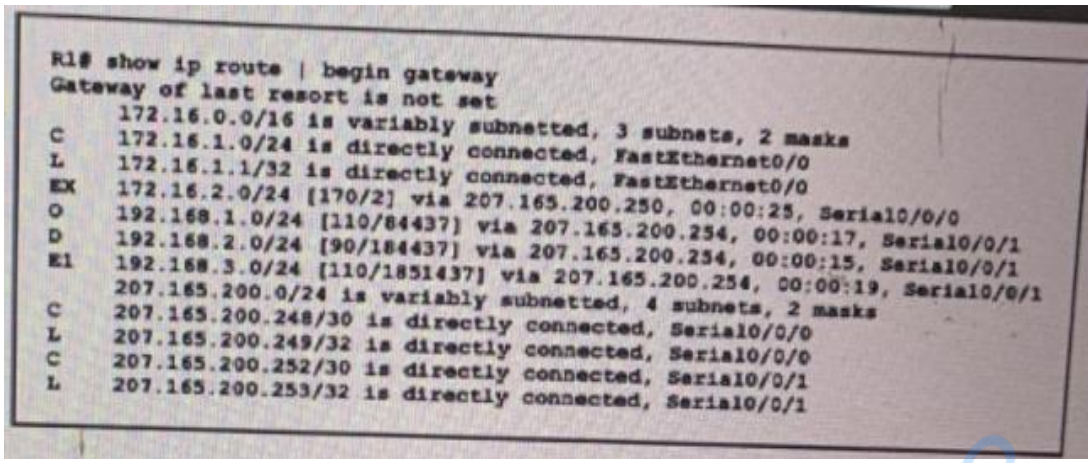
QUESTION NO. 227



Refer to the exhibit. An engineer has started to configure replacement switch SW1. To verify part of the configuration, the engineer issued the commands as shown and noticed that the entry for PC2 is missing. Which change must be applied to SW1 so that PC1 and PC2 communicate normally?

Answer: D

QUESTION NO. 228



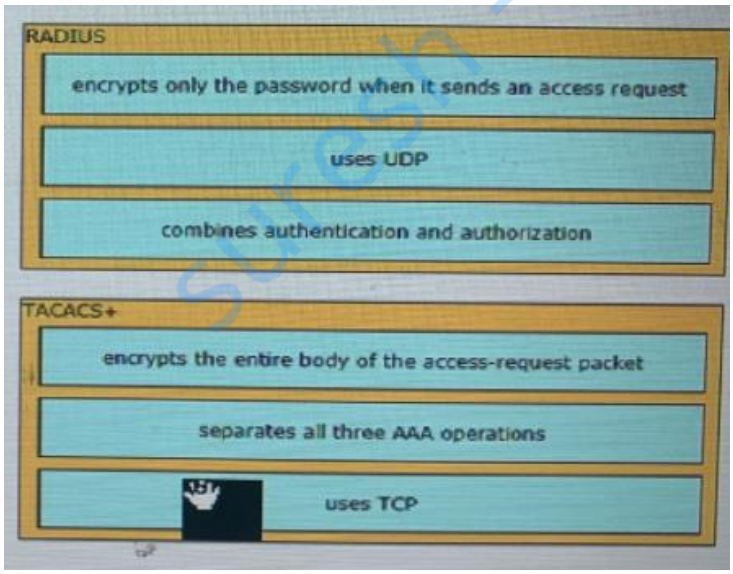
Refer to the exhibit. Which prefix did router R1 learn from internal EIGRP?

A. 172.16.1.0/24
B. 192.168.3.0/24
C. 192.168.1.0/24
D. 192.168.2.0/24

Answer: D

QUESTION NO. 229

Drag and drop the functions of AAA supporting protocols from the left onto the protocols on the right



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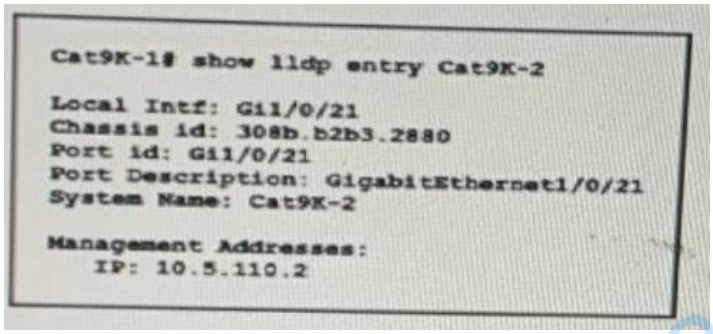
QUESTION NO. 230

Why implement VRRP?

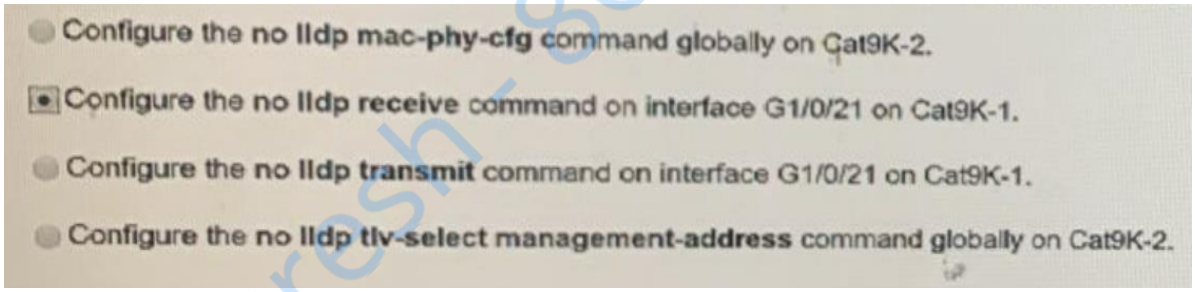
A. To hand over to end users the autodiscovery of virtual gateways
B. To provide end users with a virtual gateway in a multivendor network
C. To leverage a weighting scheme to provide uninterrupted service
D. To detect link failures without the overhead of Bidirectional Forwarding Detection

Answer: B

QUESTION NO. 231



Refer to the exhibit. The network administrator must prevent switch the Cat9K-2 Ip address from being visible in LLDP without disabling the protocol. Which action must be taken to complete the task?



Answer: C

QUESTION NO. 232

In an SDN architecture, which function of a network node is centralized on a controller?

A. Provides protocol access for remote access devices
B. Discards a message due filtering
C. Makes a routing decision
D. Created the IP routing table

Answer: A

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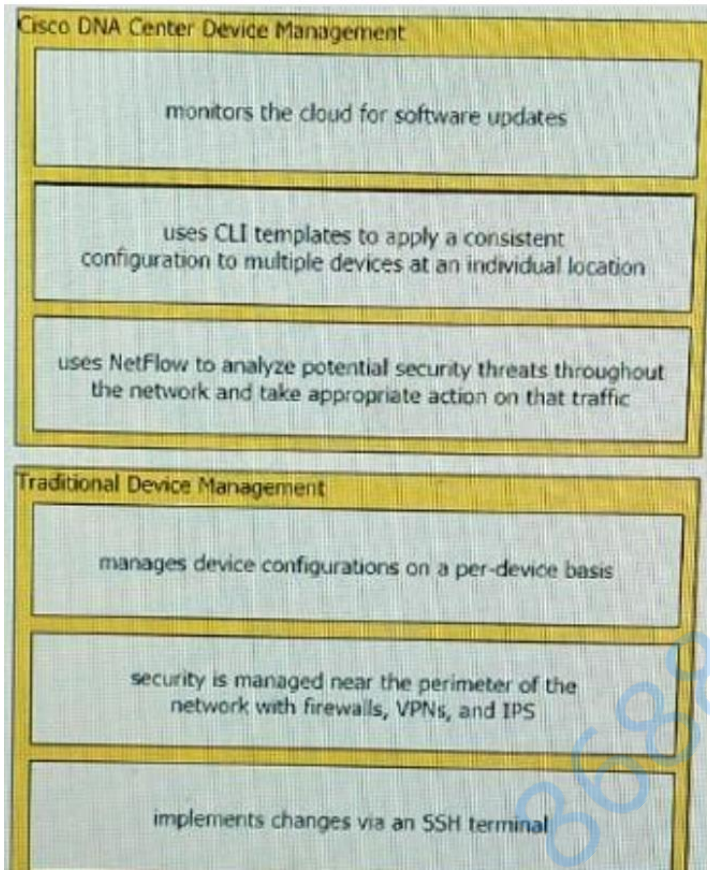
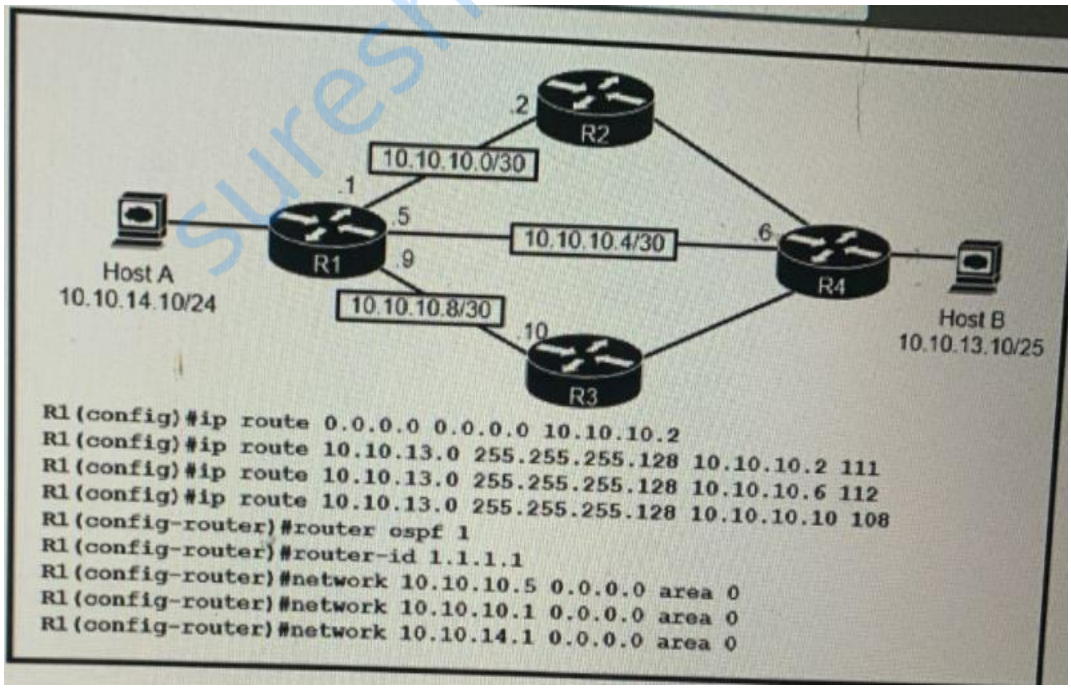
QUESTION NO. 233

Drag and drop the descriptions of device management from the left onto the types of device management on the right.



QUESTION NO. 234



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Refer to the exhibit. R1 has just received a packer from host A that is destined to host B. which route in the routing table is used by R1 to reach host B?

A. 10.10.13.0/25 [110/2] via 10.10.10.6
B. 10.10.13.0/25 [110/2] via 10.10.10.2
C. 10.10.13.0/25 [108/0] via 10.10.10.10
D. 10.10.13.0/25 [1/0] via 10.10.10.2

Answer: C

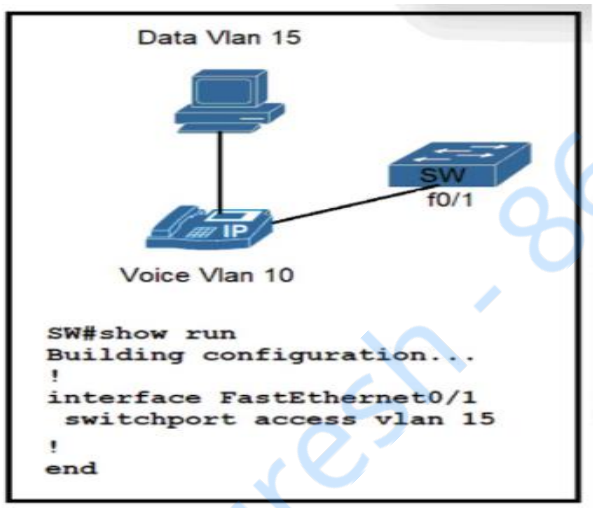
QUESTION NO. 235

What is a function performed by a web server?

A. Provide an application that is transmitted over HTTP
B. Authenticate and authorize a user's identity
C. Security store files for FTP access
D. Send and retrieve email from client devices

Answer: A

QUESTION NO. 236



Refer to the exhibit. All VLANs are present in the VLAN database. Which command sequence must be applied to complete the configuration?

interface FastEthernet0/1
switchport mode trunk
switchport trunk allowed vlan 10,15

interface FastEthernet0/1
switchport mode access
switchport voice vlan 10

Interface FastEthernet0/1
switchport trunk allowed vlan add 10
vlan 10
private-vlan isolated

interface FastEthernet0/1
switchport trunk native vlan 10
switchport trunk allowed vlan 10,15

Answer: B

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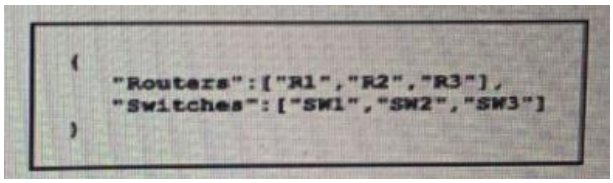
QUESTION NO. 237

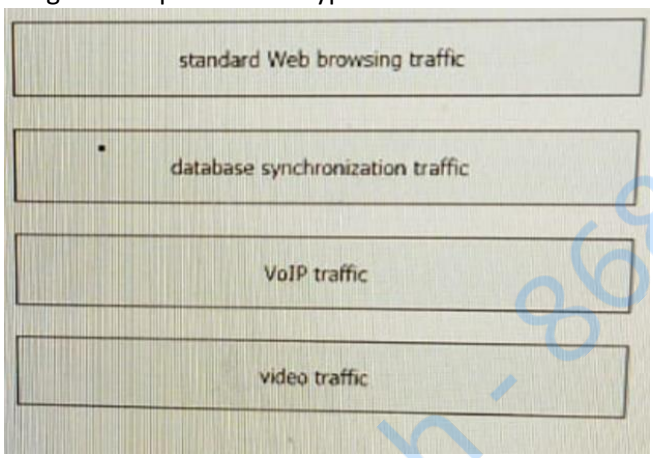


Refer to the exhibit. What is represented by “R1” and “SW1” within the JSON output?

A. Value
B. Array
C. Object
D. Key

Answer: A

QUESTION NO. 238
Drag and drop the traffic types from the left onto the QoS delivery mechanisms on the right



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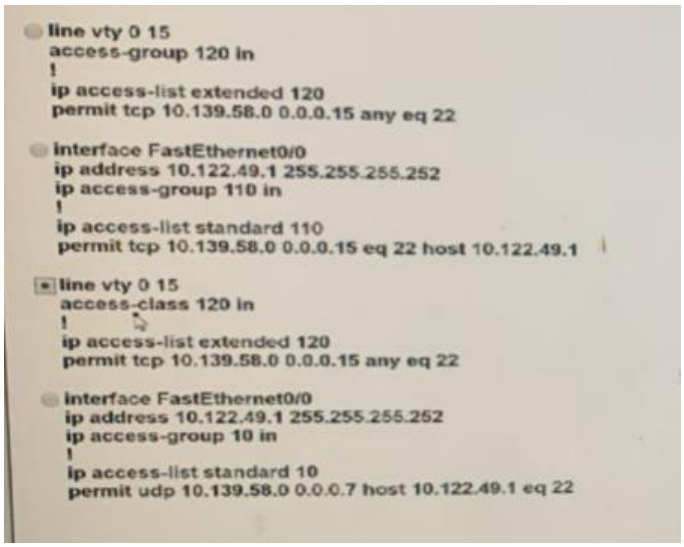
QUESTION NO. 239

An engineer is configuring remote access to a router from IP subnet 10.139.58.0/28. The domain name, crypto keys, and SSH have been configured. Which configuration enables the traffic on the destination router?



Answer: C

QUESTION NO. 240

How does authentication differ from authorization?

A. Authentication is sued to verify a person's identity, and authorization is used to create syslog messages for logins.
B. Authentication verifies the identity of a person accessing a network, and authorization determines what resources a user can access.
C. Authentication is used to record what resource a user accesses, and authorization is used to determine what resources a user can access.
D. Authentication is used to determine what resources a user is allowed to access, and authorization is used to track what equipment is allowed access to the network.

Answer: B

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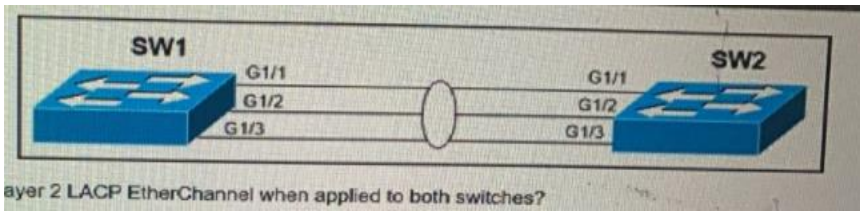
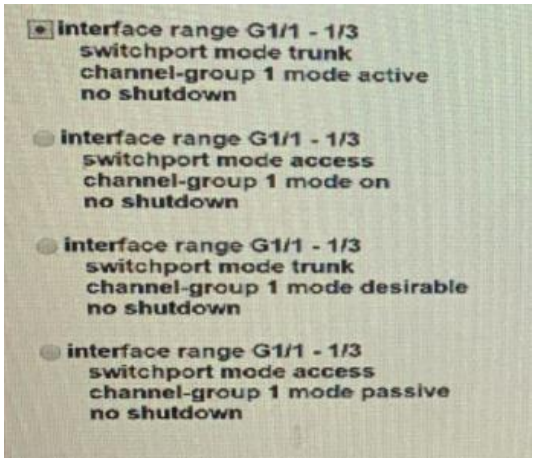
QUESTION NO. 241



Refer to the exhibit. Which configuration establishes a Layer 2 LACP EtherChannel when applied to both switches?



Answer: A

QUESTION NO. 242

Which port security violation mode allows traffic from valid MAC addresses to pass but blocks traffic from invalid MAC addresses?

A. Restrict
B. Shutdown
C. Shutdown VLAN
D. Protect

Answer: D

QUESTION NO. 243

What prevents a workstation from receiving a DHCP address?

A. 802.1Q
B. VTP
C. DTP
D. STP

Answer: D

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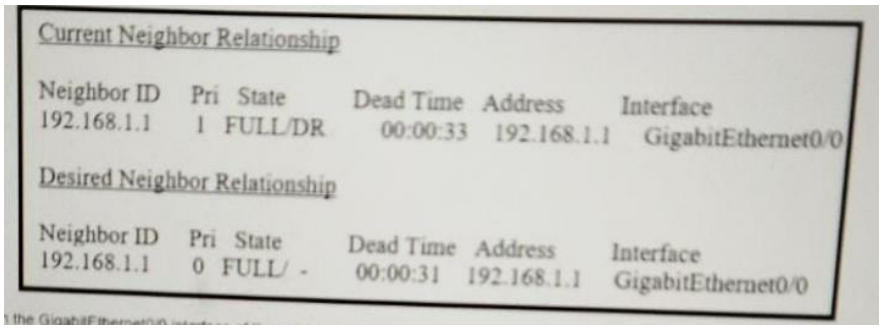
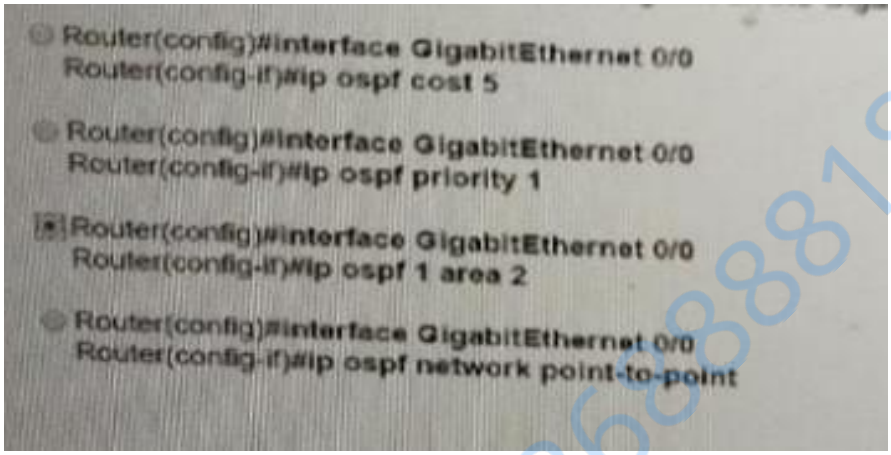
QUESTION NO. 244



Refer to the exhibit. How much OSPF be configured on the GigabitEthernet0/0 interface of the neighbor device to achieve the destined neighbor relationship?



Answer: D

QUESTION NO. 245

Which QoS forwarding per-hop behaviour changes a specific value in a packet header to set the class of service for the packet?

A. Classification
B. Policing
C. Marking
D. shaping

Answer: B

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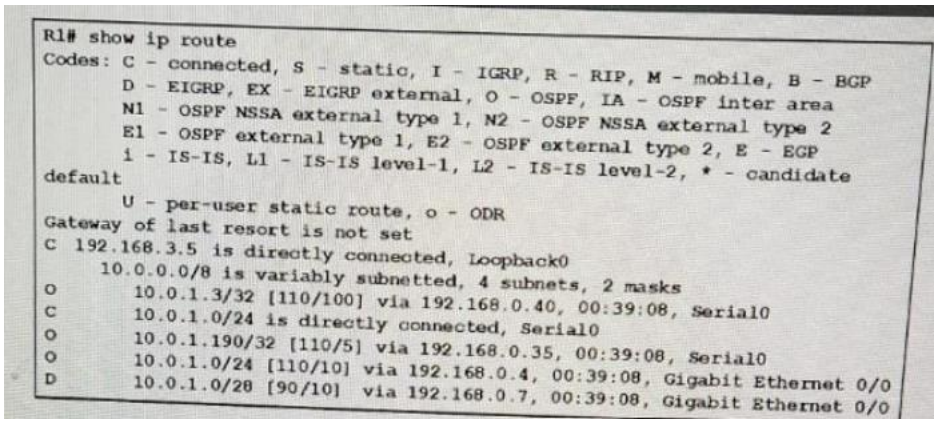
QUESTION NO. 246



```
R1# show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, * - candidate
default
       U - per-user static route, o - ODR
Gateway of last resort is not set
C  192.168.3.5 is directly connected, Loopback0
     10.0.0.0/8 is variably subnetted, 4 subnets, 2 masks
O       10.0.1.3/32 [110/100] via 192.168.0.40, 00:39:08, Serial0
C       10.0.1.0/24 is directly connected, Serial0
O       10.0.1.190/32 [110/5] via 192.168.0.35, 00:39:08, Serial0
O       10.0.1.0/24 [110/10] via 192.168.0.4, 00:39:08, Gigabit Ethernet 0/0
D       10.0.1.0/28 [90/10]  via 192.168.0.7, 00:39:08, Gigabit Ethernet 0/0
```

Refer to the exhibit. Traffic sourced from the loopback0 interface is trying to connect via ssh to the host at 10.0.1.15. what is the next hop to the destination address?

A. 192.168.0.7
B. 192.168.0.4
C. 192.168.0.40
D. 192.168.3.5

Answer: B

QUESTION NO. 247

Which management security process is invoked when a user logs in to a network device using their username and password?

A. Authentication
B. Auditing
C. Authorization
D. Accounting

Answer: A

QUESTION NO. 2478

When a WPA2-PSK WLAN is configured in the wireless LAN Controller, what is the minimum number of characteristics that is required in ASCII format?

A. 6
B. 8
C. 12
D. 18

Answer: B

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QUESTION NO. 249

Which type of traffic is sent with pure IPsec?

A. Unicast messages from a host at a remote site to a server at headquarters
B. Spanning -tree updates between switches that ate at two different sites
C. Multicast traffic from a server at one site to hosts at another location
D. Broadcast packets from a switch that is attempting to locate a MAC address at one of several remote sites.

Answer: A

QUESTION NO. 250

What is a practice that protects a network from VLAN hopping attacks?

A. Implement port security on internet-facing VLANs.
B. Enable dynamic ARP inspection
C. Assign all access ports to VLANs other than the native VLAN.
D. Configure an ACL to prevent traffic from changing VLANs

Answer: C

QUESTION NO. 251

```
Switch#show ip dhcp snooping
Switch DHCP snooping is enabled
Switch DHCP gleaning is disabled
DHCP snooping is configured on following VLANs:
1
DHCP snooping is operational on following VLANs:
1
DHCP snooping is configured on the following L3 Interfaces:
Insertion of option 82 is disabled
circuit-id default format: vlan-mod-port
remote-id: aabb.cc00.6500 (MAC)
Option 82 on untrusted port is not allowed
Verification of hwaddr field is enabled
Verification of giaddr field is enabled
DHCP snooping trust/rate is configured on the following Interfaces:
Interface Trusted Allow option Rate limit (pps)
```

```
Switch#show ip dhcp snooping statistics detail
Packets Processed by DHCP Snooping = 34
Packets Dropped Because
IDB not known = 0
Queue full = 0
Interface is in errdisabled = 0
Rate limit exceeded = 0
Received on untrusted ports = 32
Nonzero giaddr = 0
Source mac not equal to chaddr = 0
No binding entry = 0
Insertion of opt82 fail = 0
Unknown packet = 0
Interface Down = 0
Unknown output interface = 0
Misdirected Packets = 0
Packets with Invalid Size = 0
Packets with Invalid Option = 0
```

Refer to the exhibit. The DHCP server and clients are connected to the same switch. What is the next step to complete the DHCP configuration to allow clients on VLAN 1 to receive addresses from the DHCP server?

A. Configure the ip dhcp snooping trust command on the interface that is connected to the DHCP server.
B. Configure the ip dhcp relay information option command on the interface that is connected to the DHCP server.
C. Configure the ip dhcp snooping trust command on the interface that is connected to the DHCP client.
D. Configure the ip dhcp relay information option command on the interface that is connected to the DHCP client

Answer: A

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QUESTION NO. 252

An engineer has configured the domain name, user name, and password on the local router. What is the next step to complete the configuration for a Secure Shell access RSA key?

A. Crypto key generate rsa
B. Crypto key zeroize rsa
C. Crypto key pubkey-chain rsa
D. Crypto key import rsa pem

Answer: A

QUESTION NO. 253

When should an engineer implement a collapsed-core architecture?

A. Only when using VSS technology
B. For small networks with minimal need for growth
C. For large networks that are connected to multiple remote sites
D. The access and distribution layers must be on the same device

Answer: B

QUESTION NO. 254

Which two REST API status-code classes represent errors? (Choose two)

A. 1xx
B. 2xx
C. 3xx
D. 4xx
E. 5xx

Answer: D, E

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QUESTION NO. 255

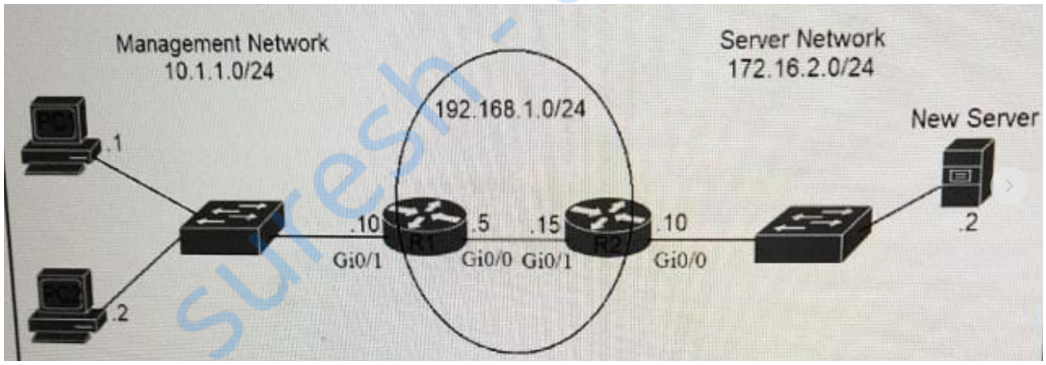
```
R1# show ip route | begin gateway
Gateway of last resort is 209.165.200.254 to network 0.0.0.0
S* 0.0.0.0/0 [1/0] via 209.165.200.254, Serial0/0/1
                   is directly connected, Serial0/0/1
      172.16.0.0/16 is variably subnetted, 3 subnets, 2 masks
C     172.16.1.0/24 is directly connected, FastEthernet0/0
L     172.16.1.1/32 is directly connected, FastEthernet0/0
R     172.16.2.0/24 [120/2] via 207.165.200.250, 00:00:25, Serial0/0/0
O     192.168.1.0/24 [110/4437] via 207.165.200.254, 00:00:17, Serial0/0/1
D     192.168.2.0/24 [90/84437] via 207.165.200.254, 00:00:15, Serial0/0/1
      207.165.200.0/24 is variably subnetted, 5 subnets, 2 masks
S     207.165.200.244/30 [1/1] via 207.165.200.254, Serial0/0/1
C     207.165.200.248/30 is directly connected, Serial0/0/0
L     207.165.200.249/32 is directly connected, Serial0/0/0
C     207.165.200.252/30 is directly connected, Serial0/0/1
L     207.165.200.253/32 is directly connected, Serial0/0/1
```

Refer to the exhibit. Which network prefix was learned via EIGRP?

A. 207.165.200.0/24
B. 172.16.0.0/15
C. 192.168.2.0/24
D. 192.168.1.0/24

Answer: C

QUESTION NO. 256



Refer to the exhibit. An engineer is updating the R1 configuration to connect a new server to the management network. The PCs on the management network must be blocked from pinging the default gateway of the new server. Which command must be configured on R1 to complete the task?

A. R1(config)#ip route 172.16.2.2 255.255.255.255 gi0/0
B. R1(config)#ip route 172.16.2.2 255.255.255.248 gi0/1
C. R1(config)#ip route 172.16.2.0 255.255.255.0 192.168.1.5
D. R1(config)#ip route 172.16.2.0 255.255.255.0 192.168.1.15

Answer: D

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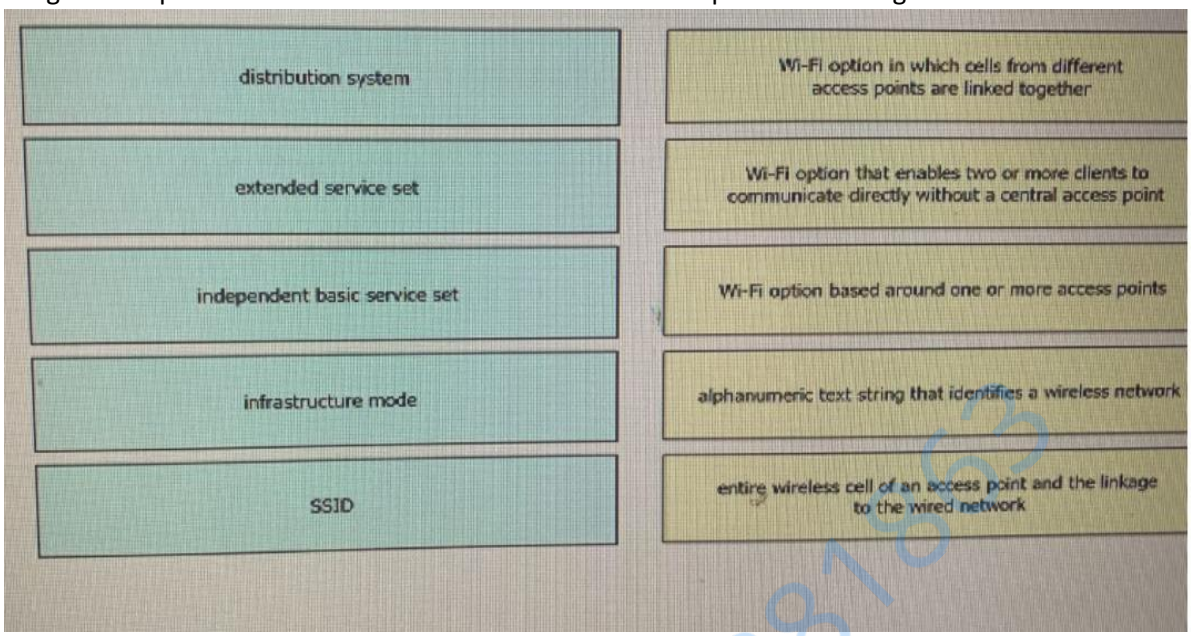
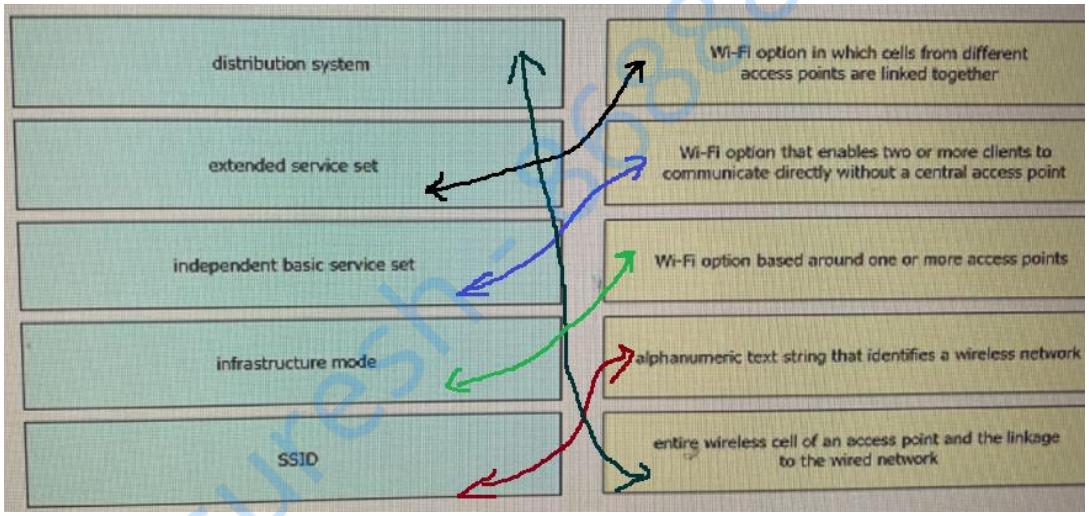
QUESTION NO. 257

Drag and drop the Wi-Fi terms from the left onto the descriptions on the right.



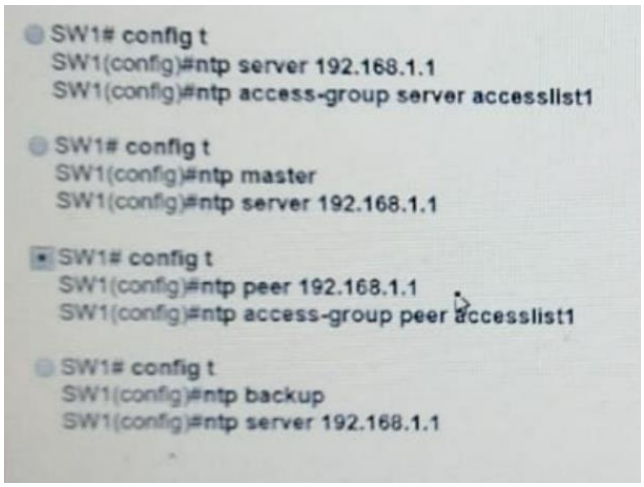
Answer:



Suresh 9638881863

QUESTION NO. 258

An engineer is configuring switch SW1 to act as an NTP server when all upstream NTP server connectivity fails. Which configuration must be used?



Answer: B

QUESTION NO. 259

What is a feature of TFTP?

A. Provides secure data transfer
B. Uses two separate connections for control and data traffic
C. Offers anonymous user login ability
D. Relies on the well-known TCP port 20 to transmit data

Answer: C

QUESTION NO. 260

Which SDN plane forwards user-generated traffic?

E. Management plane
F. Control plane
G. Policy plane
H. Data plane

Answer: D

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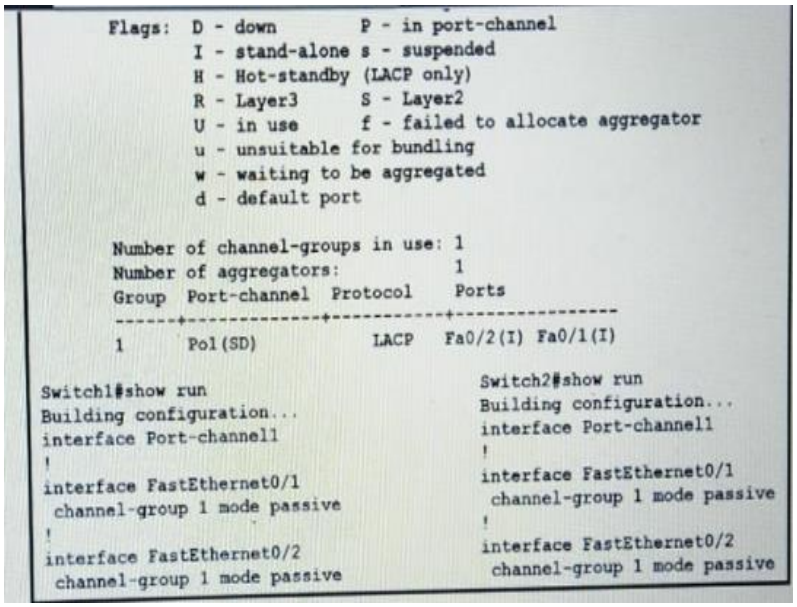
QUESTION NO. 261



Refer to the exhibit. Which change to the configuration on Switch2 allows the two switches to establish an EtherChannel?

A. Change the protocol to PAgP and use auto mode.
B. Change the LACP mode to desirable.
C. Change the LACP mode to active.
D. Change the protocol to EtherChannel mode on.

Answer: C

QUESTION NO. 262

What is the path or traffic sent from one user workstation to another workstation on a separate switch in a three-tier architecture model?

A. Access-core-distribution-access
B. Access-core-access
C. Access-distribution-distribution-access
D. Access-distribution-core-distribution-access

Answer: D

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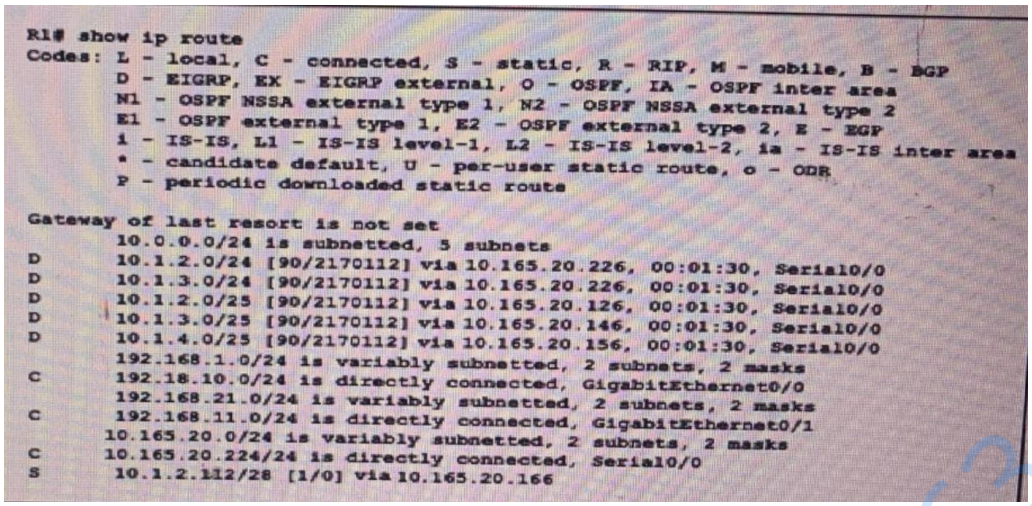
QUESTION NO. 263

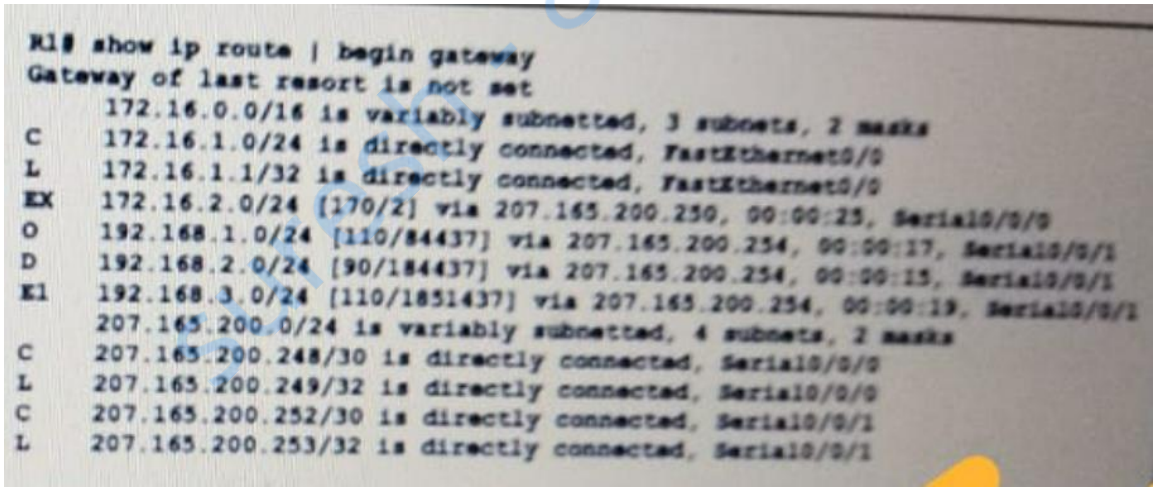


Refer to the exhibit. What is the next hop for traffic entering R1 with a destination of 10.1.2.126?

A. 10.165.20.126
B. 10.165.20.146
C. 10.165.20.166
D. 10.165.20.226

Answer: A

QUESTION NO. 264

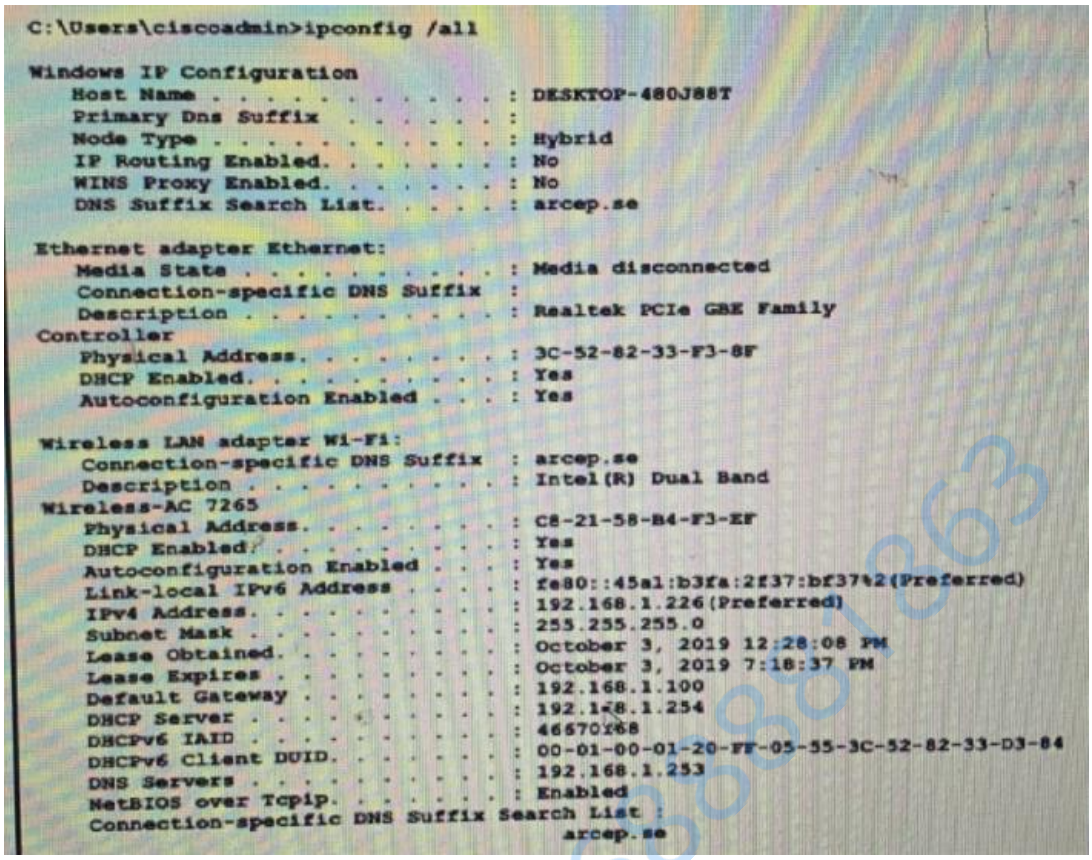


Refer to the exhibit. Which prefix did router R1 learn from internal EIGRP?

A. 192.168.3.0/24
B. 192.168.1.0/24
C. 172.16.1.10/24
D. 192.168.2.0/24

Answer: D

QUESTION NO. 265



Refer to the exhibit. The given Windows PC is requesting the IP address of the host at www.cisco.com. To which IP address is the request sent?

A. 192.168.1.253
B. 192.168.1.226
C. 192.168.1.100
D. 192.168.1.254

Answer: A

QUESTION NO. 266

How does TFTP operate in a network?

A. Provides secure data transfer
B. Relies on the well-known TCP port 20 to transmit data
C. Uses block numbers to identify and mitigate data-transfer errors
D. Requires two separate connections for control and data traffic

Answer: C

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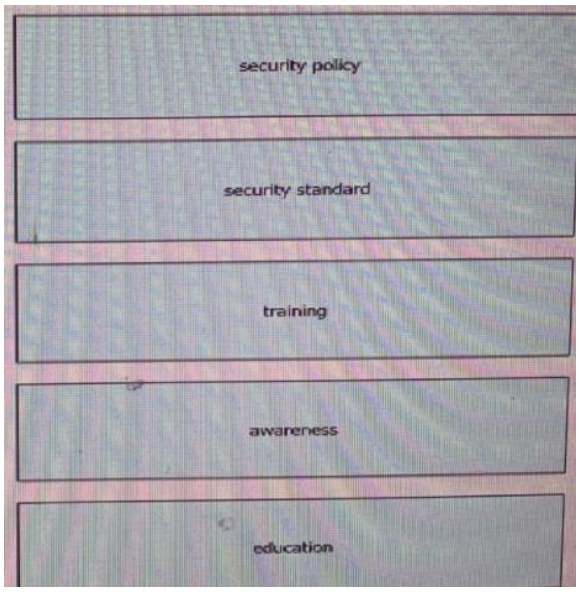
QUESTION NO. 267

Drag and drop the elements of a security program from the left onto the corresponding descriptions on the right



QUESTION NO. 268

Router A learns the same route form two different neighbors; one of the neighbor routers is an OSPF neighbor, and the other is an EIGRP neighor. What is the administrative distance of the route that will be installed in the routing table?

A. 20
B. 90
C. 110
D. 115

Answer: B

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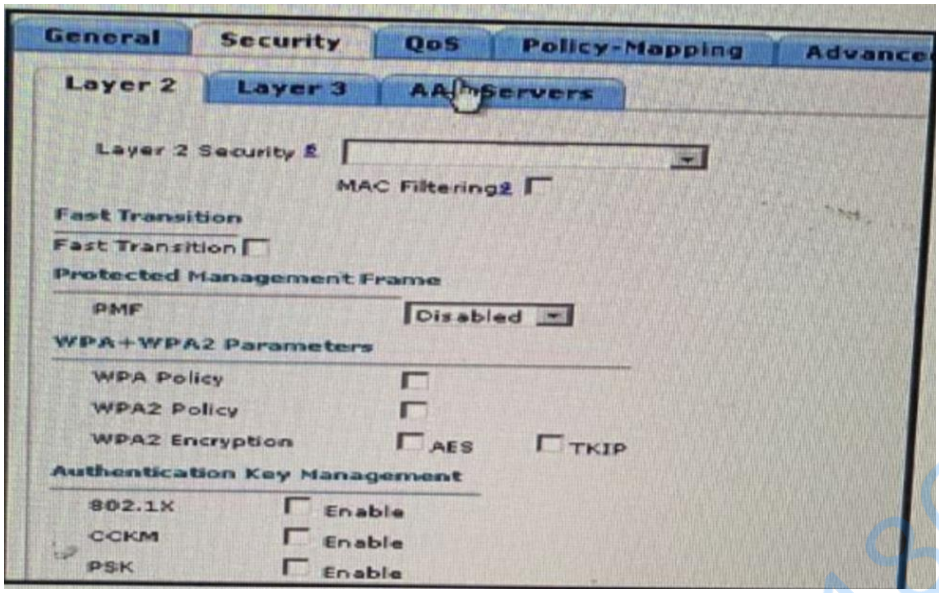
QUESTION NO. 269



Refer to the exhibit. What are the two steps an engineer must take to provide the highest encryption and authentication using domain credentials from LDAP? (Choose two)

A. Select WPA Policy with TKIP Encryption
B. Select static +WEP + 802.1X on Layer 2 Security.
C. Select 802.1X from under Authentication Key Management.
D. Select the WPA+WPA2 on Layer 2 security.
E. Select PSK under Authentication Key management.

Answer: C D

QUESTION NO. 270

Which switch concept is used to create separate broadcast domains?

A. STP
B. VTP
C. VLAN
D. CSMA/CD

Answer: C

QUESTION NO. 271

Which encryption method is used by WPA3?

A. SAE
B. PSK
C. TKIP
D. AES

Answer: A

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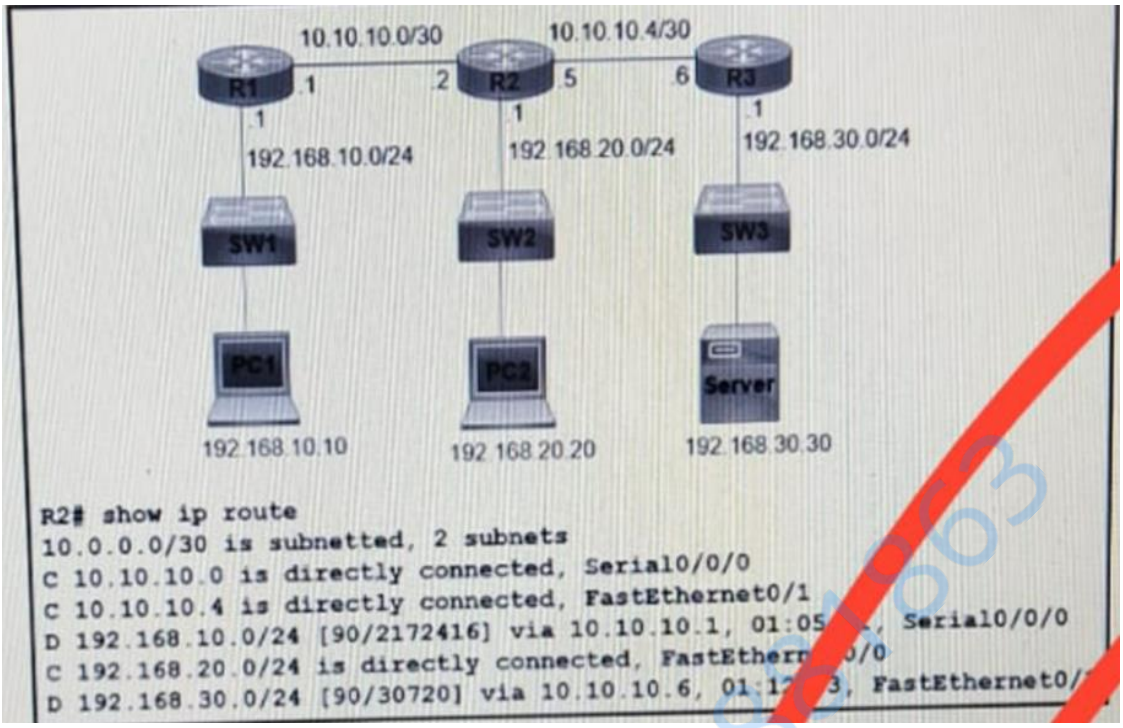
QUESTION NO. 272



Refer to the exhibit. What is the net-hop IP address for R2 so that PC2 reaches the application server via EIGRP?

A. 192.168.20.1
B. 10.10.10.5
C. 10.10.10.6
D. 192.168.30.1

Answer: C

QUESTION NO. 273

What is a feature of WPA?

A. Small Wi-Fi application
B. TKIP/MIC encryption
C. Preshared key
D. 802.1x authentication

Answer: B

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QUESTION NO. 274

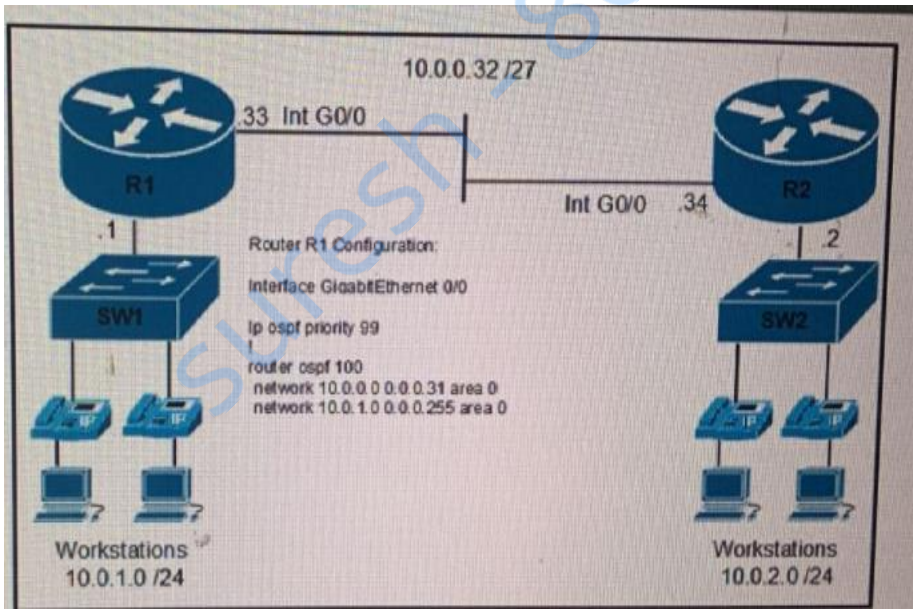
```
interface g2/0/0
   channel-group 1 mode active
interface g4/0/0
   channel-group 1 mode active
interface Port-channel1
   ip address 203.0.113.65 255.255.255.252

%LINEPROTO-5-UPDOWN: Line protocol on Interface Port-channel1, changed state to down
```

Refer to the exhibit. An engineer is configuring a Layer 2 port-channel interface with LACP. The configuration on the first device is complete, and it is verified that both interfaces have registered the neighbor device in the CDP table. Which task on the neighbor device enables the new port channel to come up without negotiating the channel?

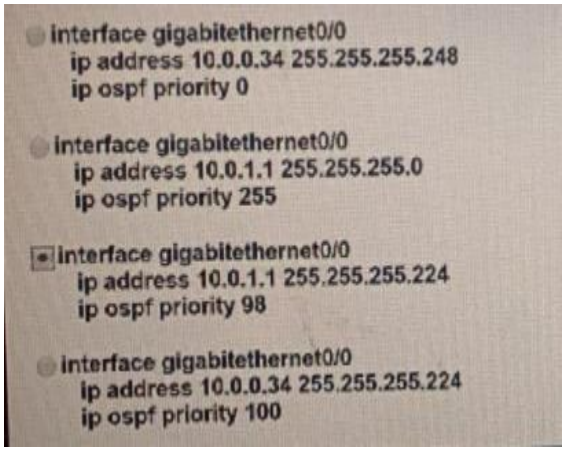
A. Bring up the neighboring interfaces using the no shutdown command.
B. Change the EtherChannel mode on the neighboring interfaces to auto
C. Modify the static EtherChannel configuration of the device to passive mode.
D. Configure the IP address of the neighboring device.

Answer: C

QUESTION NO. 275



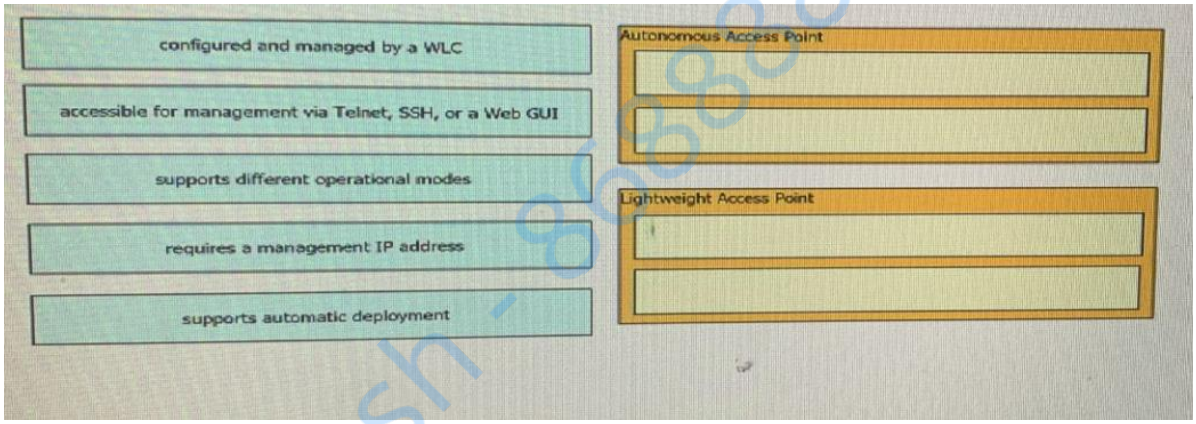
Refer to the exhibit. An engineer must configure router R2 so it is elected as the DR on the WAN subnet. Which command sequence must be configured?

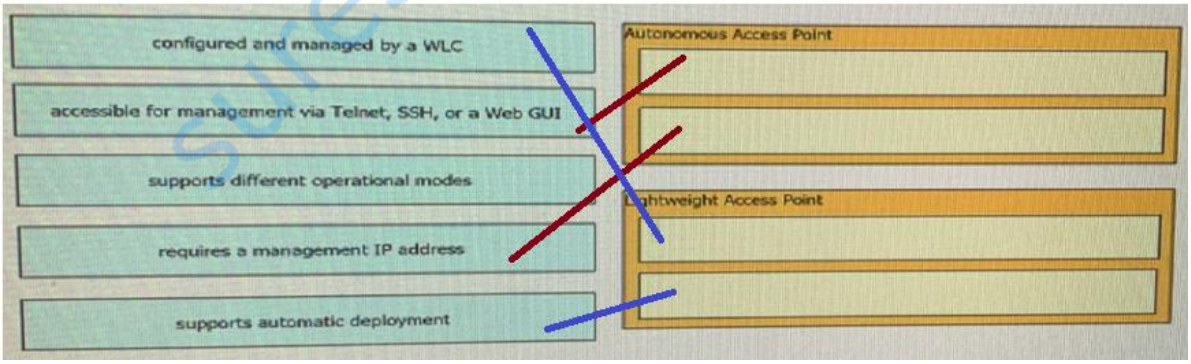


Answer: D

QUESTION NO. 276

Drag and drop the facts about wireless architectures from the left onto the types of access point on the right. Not all options are used.





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QUESTION NO. 277

Which command entered on a switch configured with Rapid PVST+ listens and learns for a specific time period?

A. Switch(config)#spanning-tree vlan 1 priority 4096
B. Switch(config)#spanning-tree vlan 1 forward-time 20
C. Switch(config)#spanning-tree vlan 1 hello-time 10
D. Switch(config)#spanning-tree vlan 1 max-age 6

Answer: B

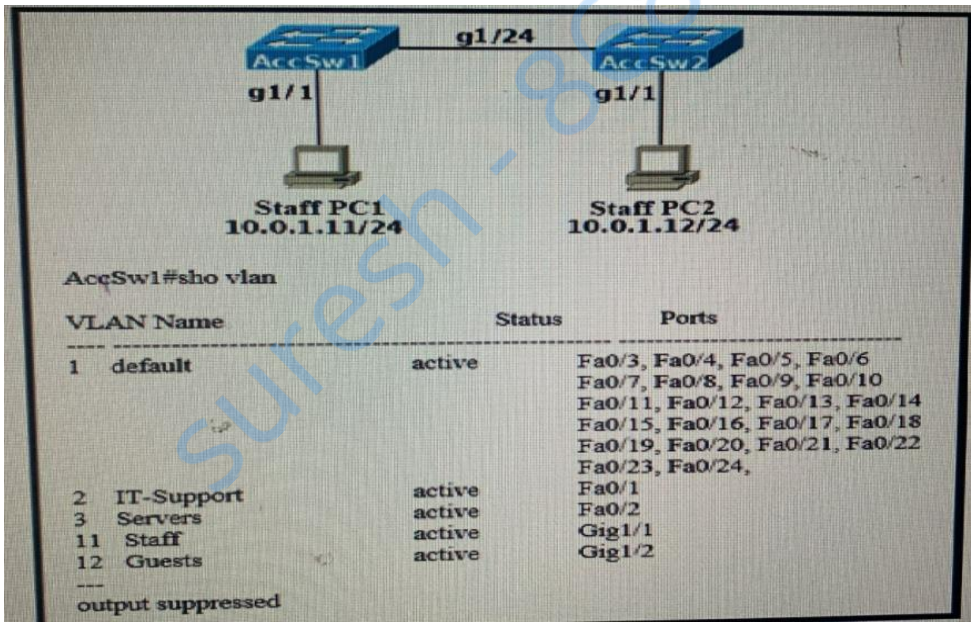
QUESTION NO. 278

Which port type supports the **spanning-tree portfast** command without additional configuration?

A. Layer 2 main interfaces
B. Trunk port
C. Access ports
D. Layer 3 subinterfaces

Answer: C

QUESTION NO. 279



Refer to the exhibit. Switch accSw2 has just been added to the network along with PC2. All VLANs have implemented on AccSw2. How must the ports on AccSw2 be configured to establish 2 connectivity between PC1 and PC2?

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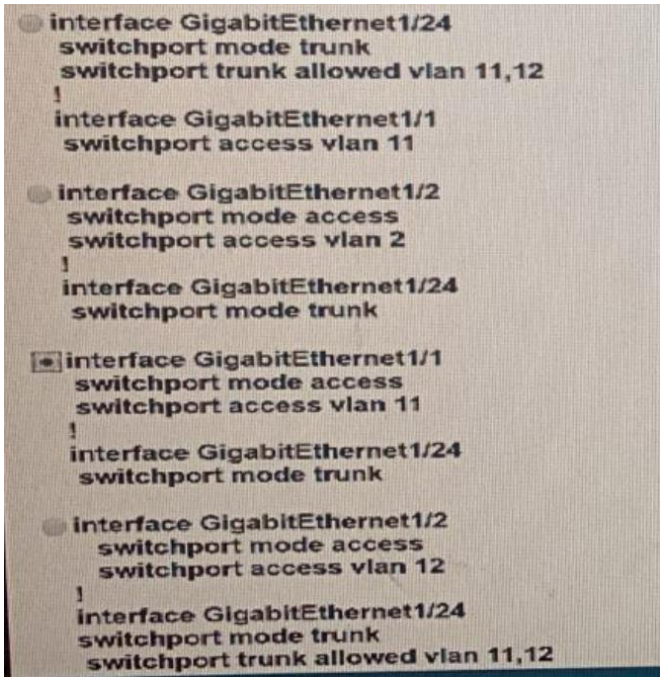
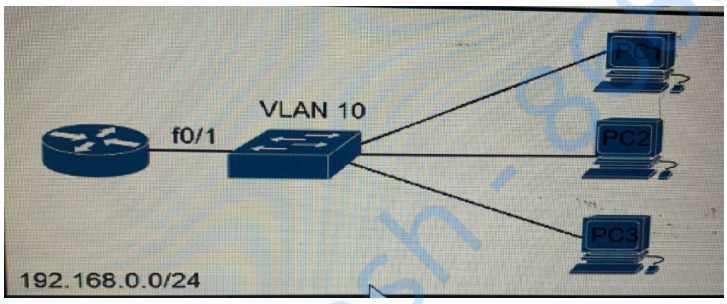
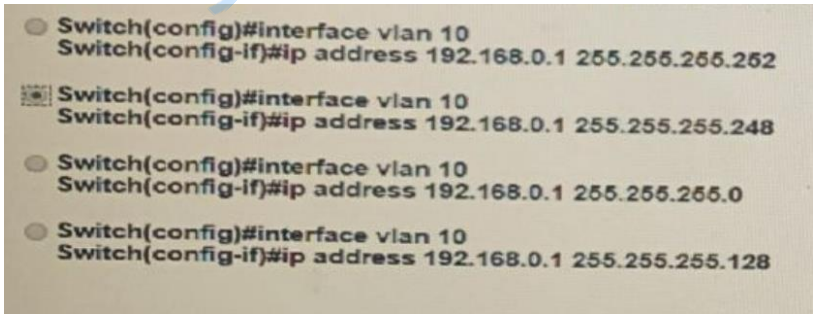


Answer: C

QUESTION NO. 280



Refer to the exhibit. An engineer assigns IP addressing to the current VLAN with three PCs. The configuration must also account for the expansion of 30 additional VLANS using the same Class C subnet for subnet for subnetting and host count. Which command set fulfills the request while reserving address space for the expected growth?



Answer: B

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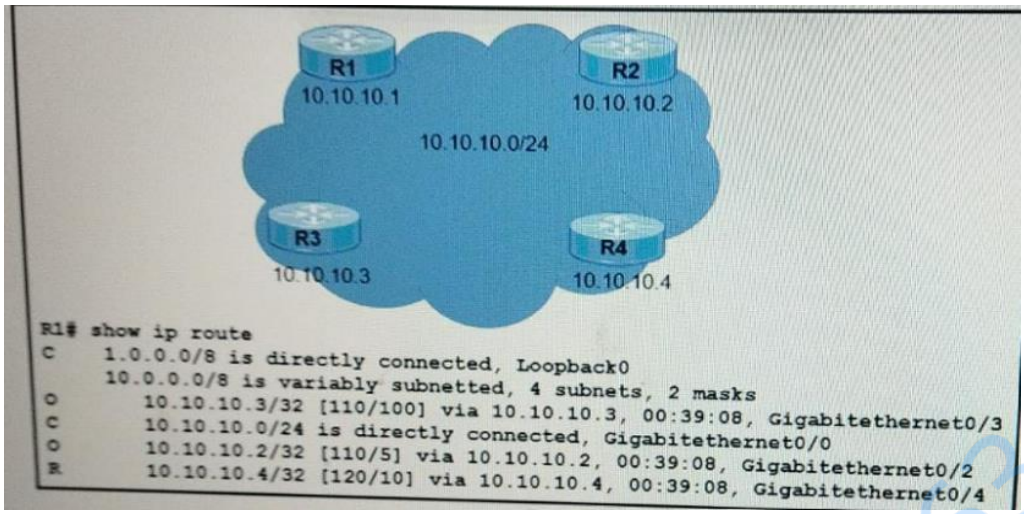
QUESTION NO. 281

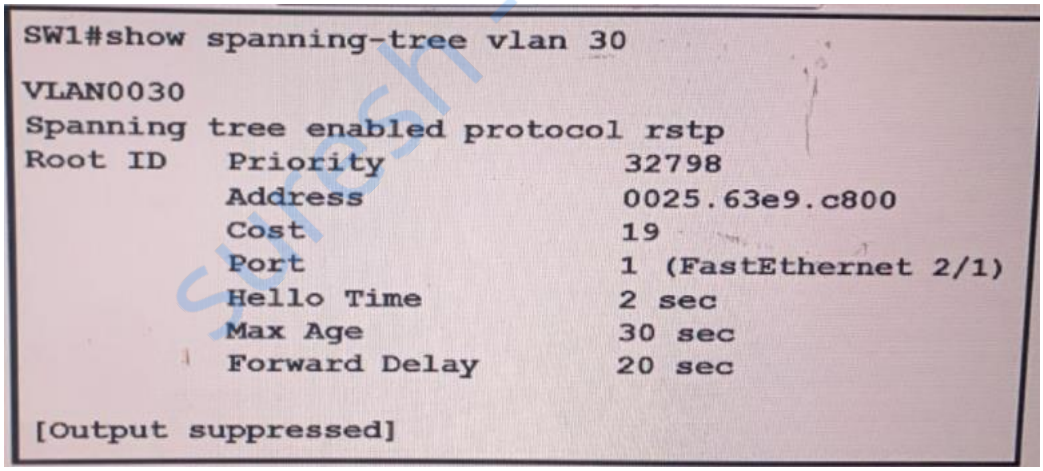


Refer to the exhibit. Which next-hop ip address has the least desirable metric when sources from R1?

A. 10.10.10.2
B. 10.10.10.5
C. 10.10.10.3
D. 10.10.10.4

Answer: C

QUESTION NO. 282



Refer to the exhibit. What are two conclusions about this configuration? (Choose two)

A. The spanning-tree mode is PVST+
B. The root port is FastEthernet 2/1.
C. The spanning-tree mode is Rapid PVST+.
D. This is a root bridge.
E. The designated port is FastEthernet 2/1.

Answer: B, C

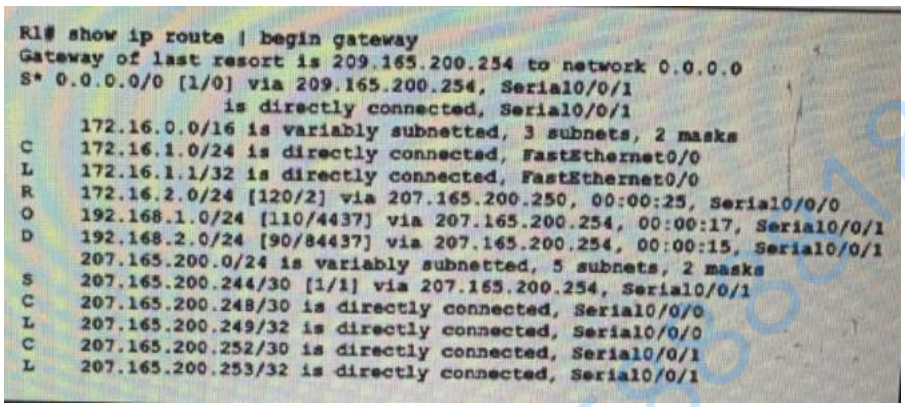
QUESTION NO. 283

A network engineer is installing an IPv6-only capable device. The client has requested that the device IP address be reachable only from the internal network. Which type of IPv6 address must the engineer assign?

A. Unique local address
B. IPv4-compatible IPv6 address
C. Link-local address
D. Aggregable global address

Answer: C

QUESTION NO. 284



Refer to the exhibit. Which network prefix was learned via EIGRP?

A. 207.165.200.0/24
B. 192.168.1.0/24
C. 192.168.2.0/24
D. 172.16.0.0/16

Answer: C

QUESTION NO. 285

An engineer is configuring data and voice services to pass through the same port. The designated switch interface fastethernet0/1 must transmit packets using the same priority for data when they are received from the access port of the IP phone. Which configuration must be used?

A. Interface fastetherent0/1
Switchport priority extend trust

B. Interface fastethernet0/1
Switchport voice vlan untagged

C. Interface fastethernet0/1
Switchport voice vlan dot1p

D. Interface fastethernet0/1
Switchport priority extend cos 7

Answer: A

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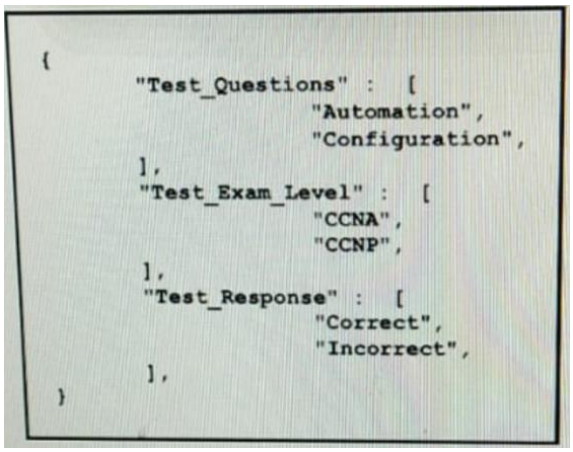
QUESTION NO. 286

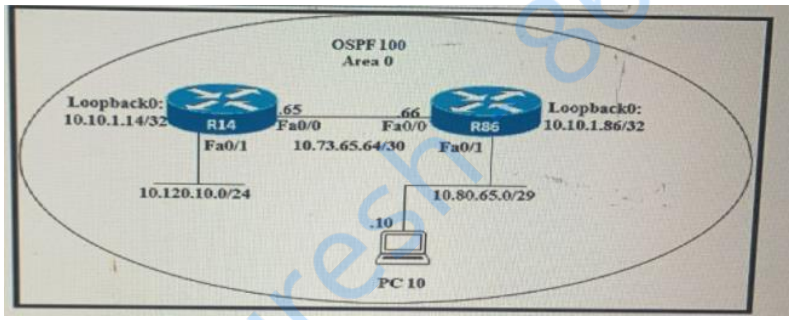


Refer to the exhibit. How many objects keys, and JSON list values are present?

A. Three objects, two keys, and three JSON list values
B. Three objects, three keys, and two JSON list values
C. One object, three keys, and three JSON list values
D. One object, three keys, and two JSON list values

Answer: B

QUESTION NO. 287



An engineer just installed network 10.120.10.0/24. Which configuration must be applied to the R14 router to add the new network to its OSPF routing table?

A. Router ospf 100
Network 10.120.10.0 0.0.0.255 area 0

B. Router ospf 120
Network 10.120.10.0 255.255.255.0 area 0
Ip route 10.120.10.0 255.255.255.0 fa0/1

C. Router ospf 100 area 0
Network 10.120.10.0 0.0.0.255

D. Router ospf 100
Network 10.120.10.0 255.255.255.0 area 0

Answer: A

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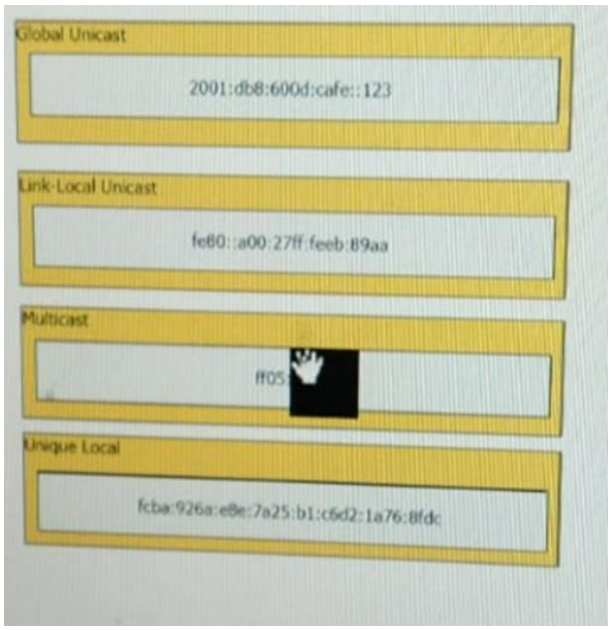
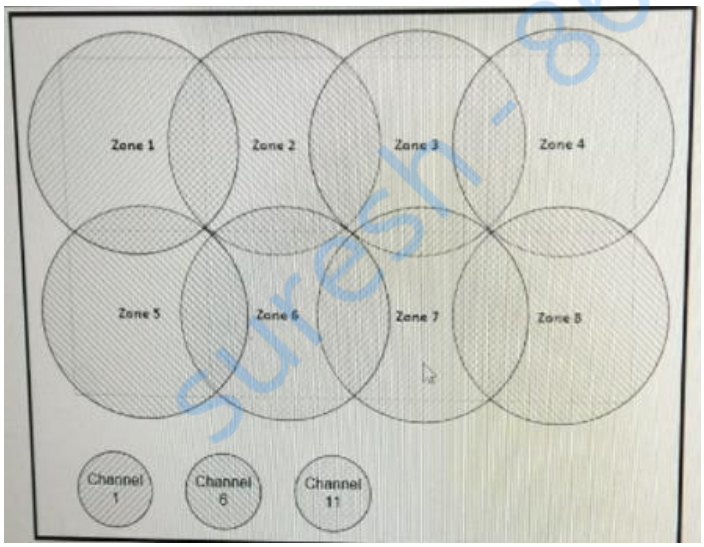
QUESTION NO. 288

Drag and drop the IPv6 addresses from the left onto the corresponding address types on the right.



QUESTION NO. 289



Refer to the exhibit. Between which zones do wireless users expect to experience intermittent connectivity?

A. Between zones 1 and 2
B. Between zones 2 and 5
C. Between zones 3 and 4
D. Between zones 3 and 6

Answer: C

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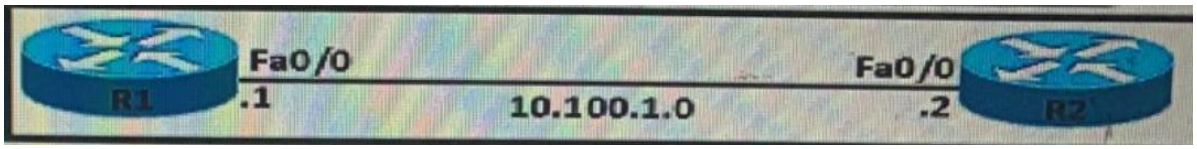
QUESTION NO. 290



Refer to the exhibit. An OSPF neighbor relationship must be configured using these guidelines

- R1 is only permitted to establish a neighbor with R2.
- R1 will never participate in DR elections.
- R1 will use a router-id of 10.1.1.1

Which configuration must be used?

A.

```
interface Loopback0
 ip address 10.1.1.1 255.255.255.255

interface FastEthernet0/0
 ip address 10.100.1.1 255.255.255.252
 ip ospf priority 100
 ip access-group 102 in

router ospf 10
 log-adjacency-changes
 network 10.1.1.1 0.0.0.0 area 0
 network 10.100.1.0 0.0.0.3 area 0
 ospf router-id 10.1.1.1

access-list 102 permit 88 host 10.100.1.2 host 224.0.0.5
access-list 102 deny 88 any any
access-list 102 permit ip any any
```

B.

```
interface Loopback0
 ip address 10.1.1.1 255.255.255.255

interface FastEthernet0/0
 ip address 10.100.1.1 255.255.255.252
 ip ospf priority 0
 ip access-group 102 in

router ospf 10
 log-adjacency-changes
 network 10.1.1.1 0.0.0.0 area 0
 network 10.100.1.0 0.0.0.3 area 0
 router-id 10.1.1.1

access-list 102 permit 88 host 10.100.1.2 host 224.0.0.5
access-list 102 deny 88 any any
access-list 102 permit ip any any
```

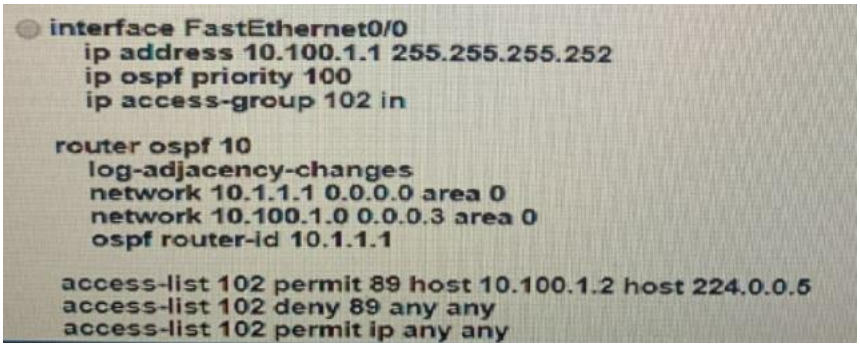
C.

```
interface FastEthernet0/0
 ip address 10.100.1.1 255.255.255.252
 ip ospf priority 0
 ip access-group 102 in

router ospf 10
 log-adjacency-changes
 network 10.1.1.1 0.0.0.0 area 0
 network 10.100.1.0 0.0.0.3 area 0
 router-id 10.1.1.1

access-list 102 permit 89 host 10.100.1.2 host 224.0.0.5
access-list 102 deny 89 any any
access-list 102 permit ip any any
```

D.



Answer: C

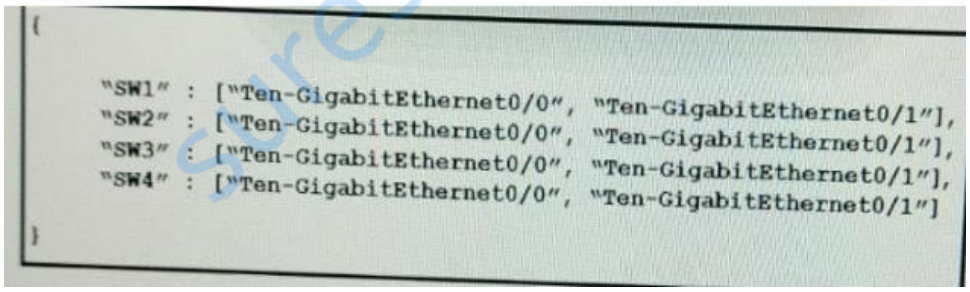
QUESTION NO. 291

Which two practices are recommended for an acceptable security in a network? (Choose two)

A. Disable unused or unnecessary ports, interfaces, and services.
B. Back up device configurations to encrypted USB drives for secure retrieval.
C. Place internal email and file servers in a designated DMZ.
D. Maintain network equipment in a secure location.
E. Use a cryptographic keychain to authenticate to network devices.

Answer: C D

QUESTION NO. 292



Refer to the exhibit. How many JSON objects are represented?

A. 1
B. 2
C. 3
D. 4

Answer: A

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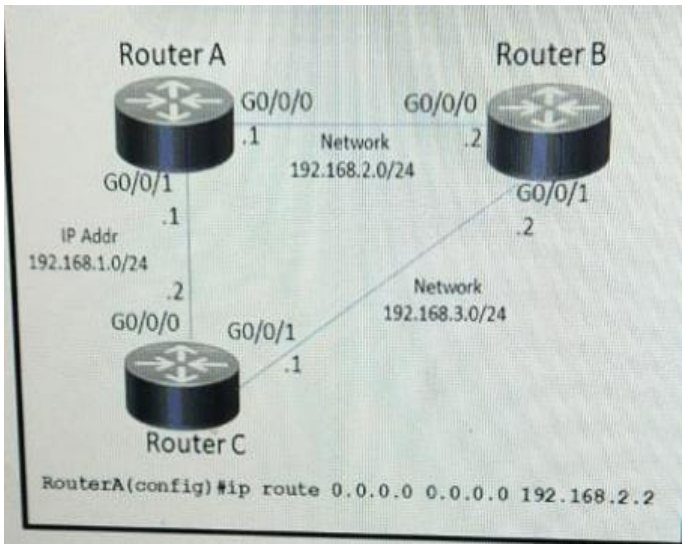
QUESTION NO. 293



Refer to the exhibit. Which command must be issued to enable a floating static default route on router A?

A. Ip route 0.0.0.0 0.0.0.0 192.168.1.2
B. Ip route 0.0.0.0 0.0.0.0 192.168.2.1 10
C. Ip default-gateway 192.168.2.1
D. Ip route 0.0.0.0 0.0.0.0 192.168.1.2 10

Answer: D

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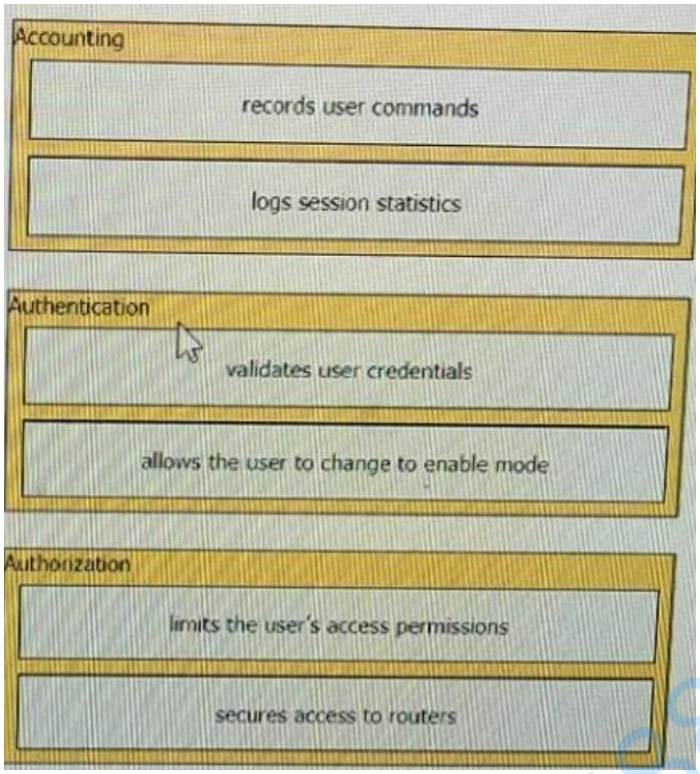
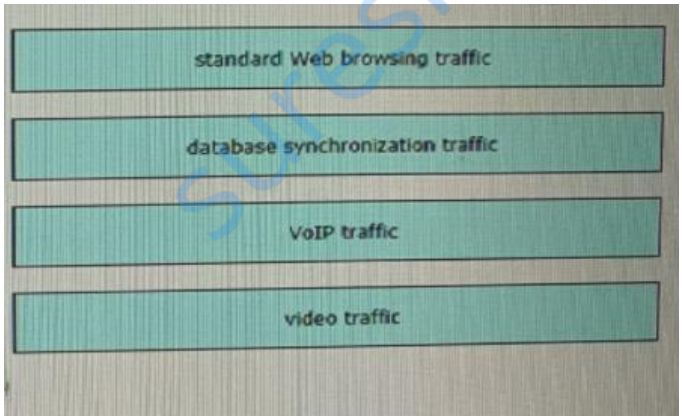
QUESTION NO. 294

Drag and drop the descriptions of AAA services from the left onto the corresponding services on the right.



QUESTION NO. 295

Drag and drop the traffic types from the left onto the QoS delivery mechanisms on the right.



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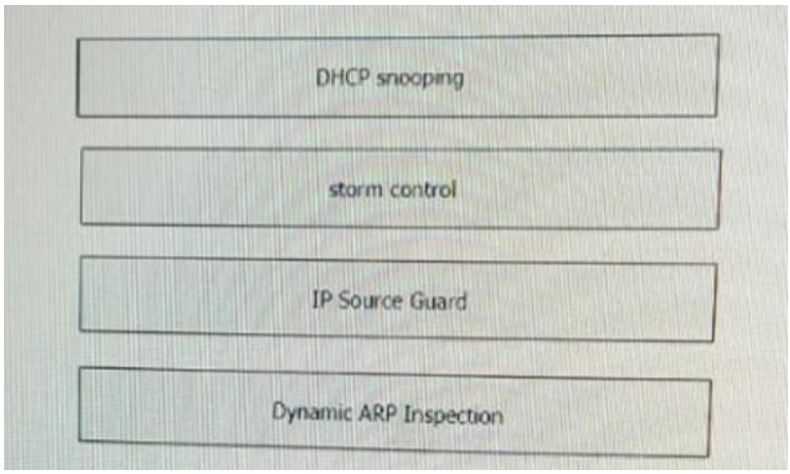
QUESTION NO. 296

Drag and drop the cisco IOS attack mitigation feature from the left onto the types of network attack they mitigate on the right



QUESTION NO. 297

A client experiences slow throughput from a server that is directly connected to the core switch in a data center. A network engineer finds minimal latency on connections to the server, but data transfers are unreliable, and the output of the show interfaces counters errors command shows a high FCS-Err count on the interface that is connected to the server. What is the cause of the throughput issue?

A. a physical cable fault
B. a speed mismatch
C. high bandwidth usage
D. a cable that is too long

Answer: B

QUESTION NO. 298

What is a function of cisco Advanced Malware Protection for a Next-Generation IPS?

A. Authenticating end users
B. URL filtering
C. Inspecting specific files and file types for malware
D. Authorizing potentially compromised wireless traffic

Answer: C

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QUESTION NO. 299

Which WAN topology has the highest degree of reliability

A. Hub-and-spoke
B. Router-on-a-stick
C. Full mesh
D. Point-to-point

Answer: C

QUESTION NO. 300

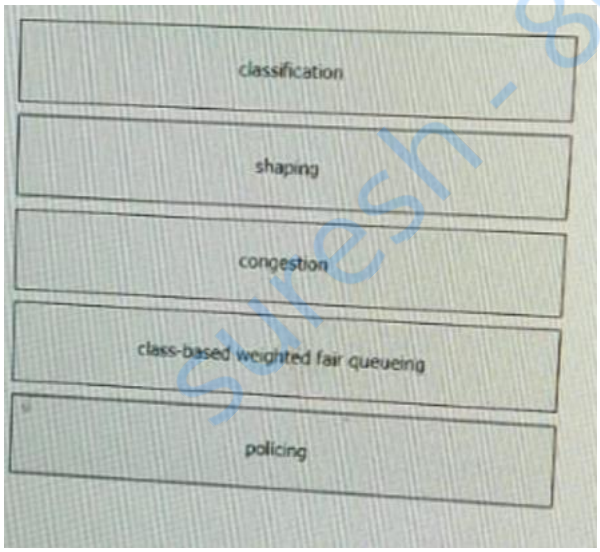
Which rest method updates an object in the cisco DNA center Internet API?

A. UPDATE
B. CHANGE
C. POST
D. PUT

Answer: D

QUESTION NO. 301

Drag and drop the QoS terms from the left onto the descriptions on the right.



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QUESTION NO. 302

Which characteristic differentiates the concept of authentication from authorization and accounting?

A. Identity verification
B. User-activity logging
C. Service limitations
D. Consumption-based billing

Answer: A

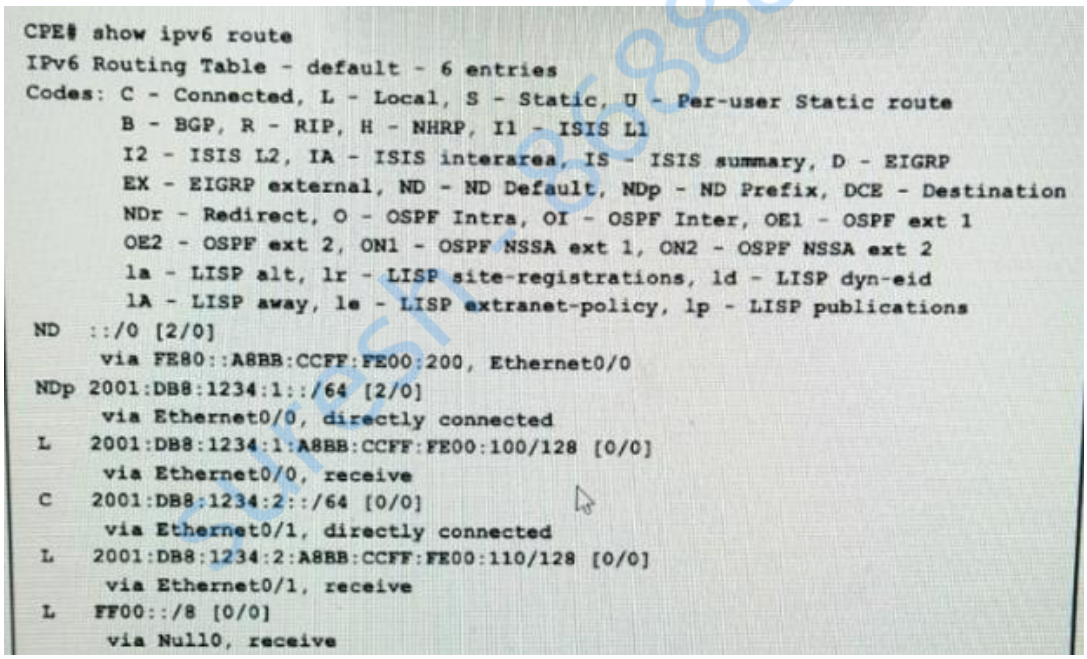
QUESTION NO. 303

Which protocol is used for secure remote CLI access?

A. Telnet
B. SSH
C. HTTP
D. HTTPS

Answer: B

QUESTION NO. 304



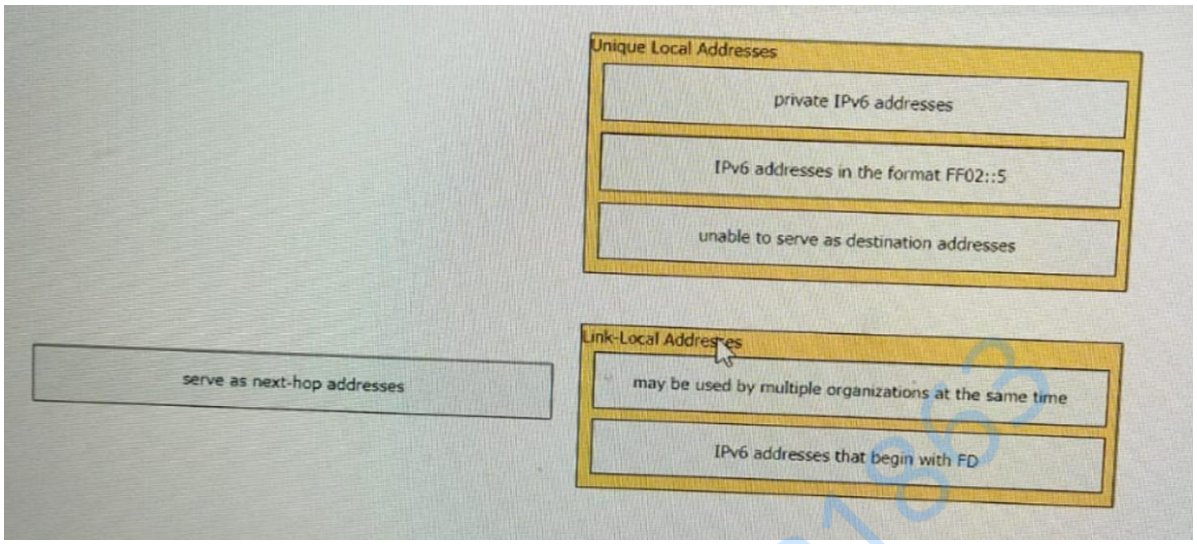
Refer to the exhibit. The administrator must configure a floating static default route that points to 20001:db8:1234:2::1 and replaces the current default route only if it fails. Which command must the engineer configure on the CPE?

A. ipv6 route ::/128 2001:db8:1234:2::1 3
B. ipv6 route ::/0 2001:db8:1234:2::1 3
C. ipv6 route ::/0 2001:db8:1234:2::1 1
D. ipv6 route ::/0 2001:db8:1234:2::1 2

Answer: B

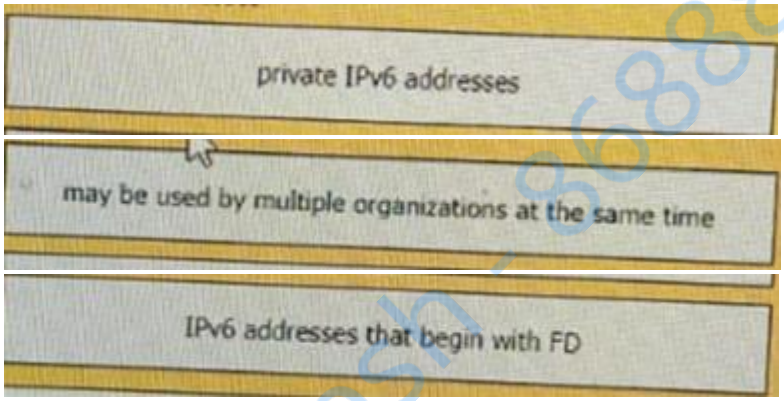
QUESTION NO. 305

Drag and drop the IPv6 address descriptions from the left onto the IPv6 address types on the right. Not all options are used.

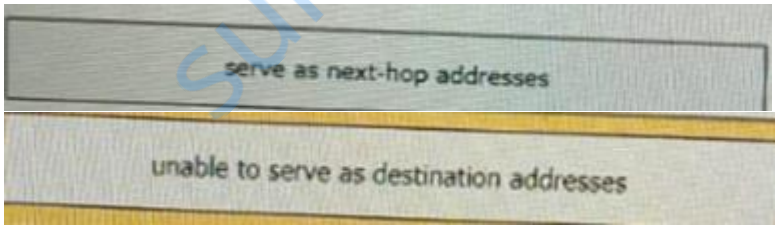


Answer:

Unique Local address:



Link-Local Addresses:



QUESTION NO. 306

What is the function of “off-the-shelf” switches in a controller-based network?

A. Forwarding packets
B. Making routing decisions
C. Setting packet-handling policies
D. Providing a central view of the deployed network

Answer: A

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QUESTION NO. 307

An engineer is installing a new wireless printer with a static IP address on the Wi-Fi network. Which feature must be enabled and configured to prevent connection issues with the printer?

A. Static IP tunneling
B. DHCP address assignment
C. Passive client
D. Client exclusion

Answer: B

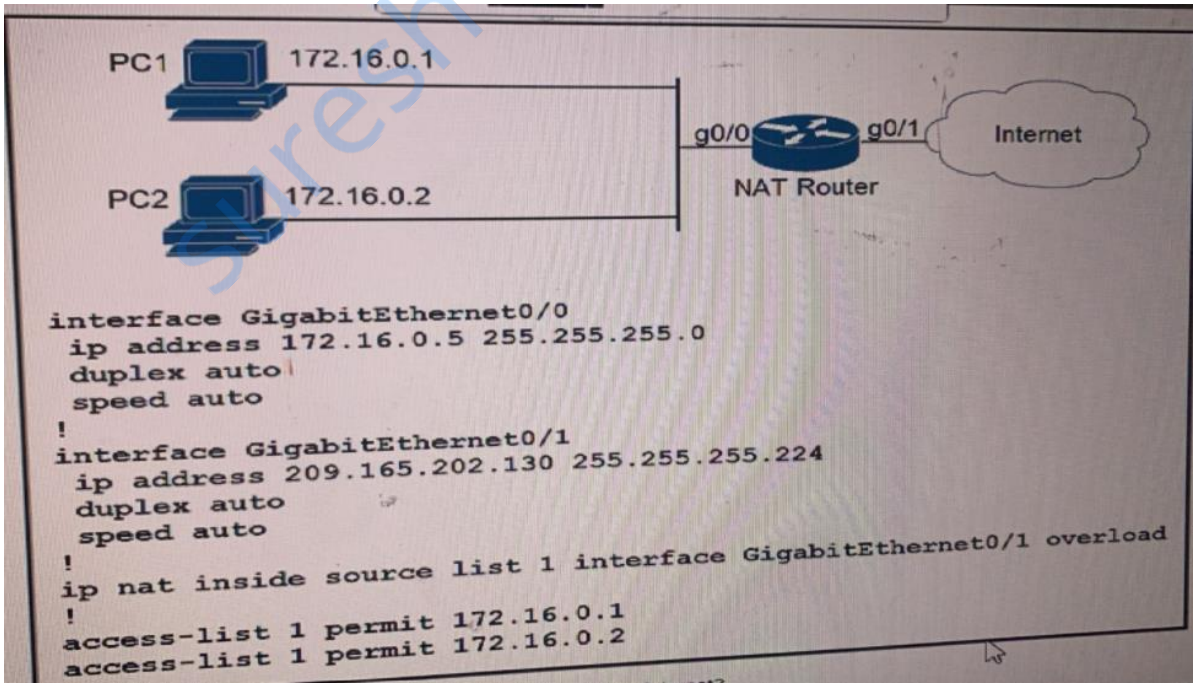
QUESTION NO. 308

What is the difference between 1000BASE-LX/LH and 1000BASE-ZX interfaces?

A. 1000BASE-LX/LH interoperates with multimode and single-mode fiber, and 1000BASE-ZX needs a conditioning patch cable with multimode.
B. 1000BASE-ZX interoperates with dual-rate 100M/1G 10Km SFP over multimode fiber, and 1000BASE-LX/LH supports only single-rate
C. 1000BASE-ZX is supported on links up to 1000km, and 1000BASE-LX/LH operates over links up to 70 km
D. 1000BASE- LX/LH is supported on links up to 10km, and 1000Base-ZX operates over links up to 70 km

Answer: D

QUESTION NO. 309



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Refer to the exhibit. How should the configuration be updated to allow PC1 and PC2 access to the internet?

A. Change the ip nat inside source command to use interface GigabitEthernet0/0.
B. Add either the ip nat {inside|outside} command under both interfaces.
C. Remove the overload keyword from the ip nat inside source command.
D. Modify the configured number of the second access list.

Answer: B

QUESTION NO. 310

What is a function of MAC learning on a switch?

A. MAC address learning is disabled by default on all VLANs.
B. Frames received for a destination MAC address not listed in the address table are dropped.
C. The MAC address table is used to populate the ARP table.
D. A static MAC address is manually added to the MAC table.

Answer: D

QUESTION NO. 311

What does a switch do when it receives a frame whose destination MAC address is missing from the MAC address table?

A. It changes the checksum of the frame to a value that indicates an invalid frame.
B. It updates the CAM table with the destination MAC address of the frame.
C. It appends the table with a static entry for the MAC and shuts down the port.
D. It floods the frame unchanged across all remaining ports in the incoming VLAN.

Answer: D

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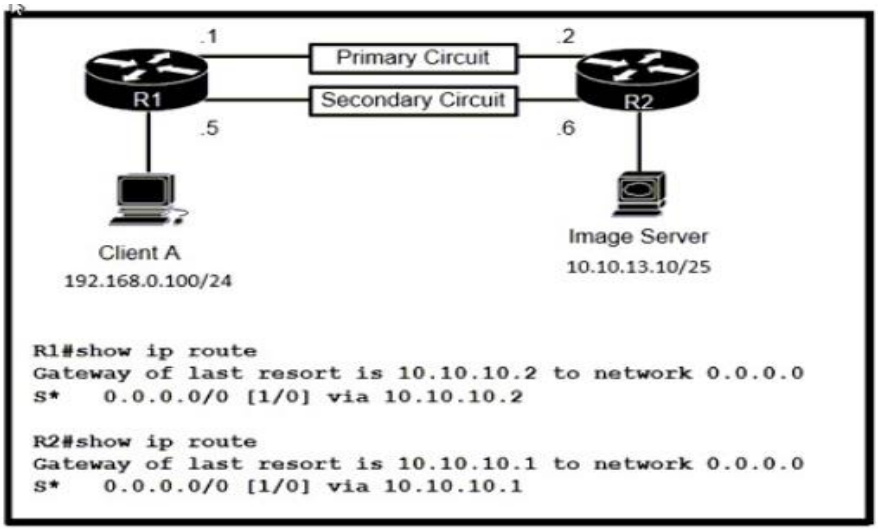
QUESTION NO. 312



Refer to the exhibit. Routers R1 and R2 have been configured with their respective LAN interfaces. The two circuits are operational and reachable across WAN. Which command set establishes failover redundancy if the primary circuit goes down?

- R1(config)#ip route 10.10.13.10 255.255.255.255 10.10.10.6
  R2(config)#ip route 192.168.0.100 255.255.255.255 10.10.10.5
- R1(config)#ip route 0.0.0.0 0.0.0.0 10.10.10.6
  R2(config)#ip route 0.0.0.0 0.0.0.0 10.10.10.5
- R1(config)#ip route 10.10.13.10 255.255.255.255 10.10.10.2
  R2(config)#ip route 192.168.0.100 255.255.255.255 10.10.10.1
- R1(config)#ip route 0.0.0.0 0.0.0.0 10.10.10.6 2
  R2(config)#ip route 0.0.0.0 0.0.0.0 10.10.10.5 2

Answer: D

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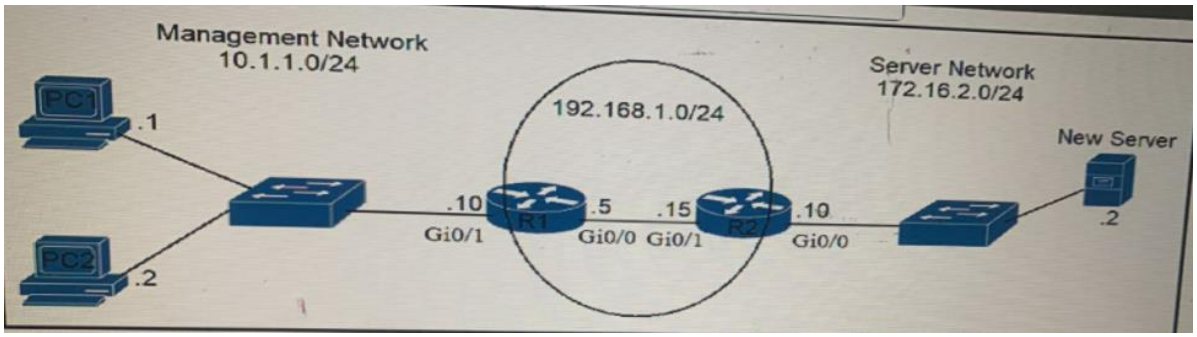
QUESTION NO. 313

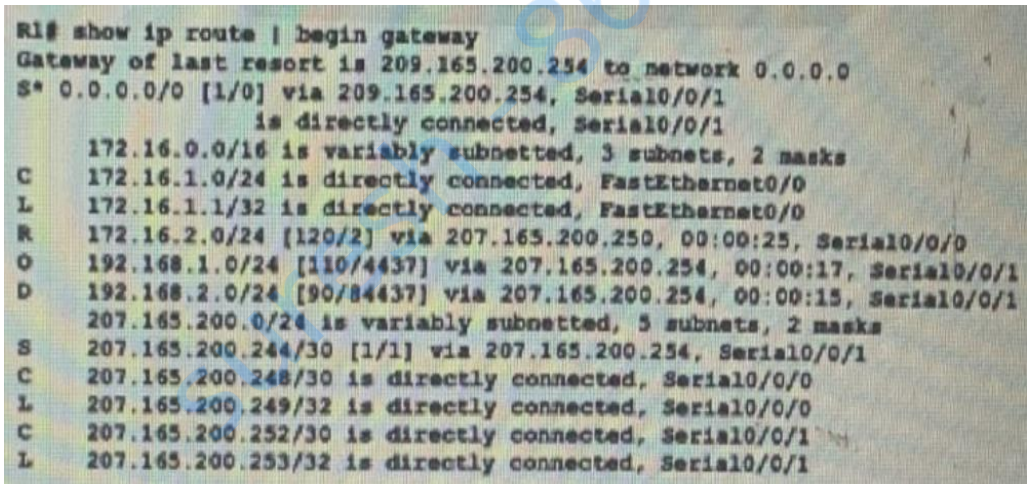


Refer to the exhibit. An engineer is updating the R1 configuration to connect a new server to the management network. The PCs on the management network be blocked from pinging the default gateway of the new server. Which command must be configured on R1 to complete the task?

A. R1(config)#ip route 172.16.2.2 255.255.255.248 gi0/1
B. R1(config)#ip route 172.16.2.0 255.255.255.0 192.168.1.5
C. R1(config)#ip route 172.16.2.0 255.255.255.0 192.168.1.15
D. R1(config)#ip route 172.16.2.2 255.255.255.255 gi0/0

Answer: B

QUESTION NO. 314



```
R1# show ip route | begin gateway
Gateway of last resort is 209.165.200.254 to network 0.0.0.0
S* 0.0.0.0/0 [1/0] via 209.165.200.254, Serial0/0/1
                   is directly connected, Serial0/0/1
      172.16.0.0/16 is variably subnetted, 3 subnets, 2 masks
C     172.16.1.0/24 is directly connected, FastEthernet0/0
L     172.16.1.1/32 is directly connected, FastEthernet0/0
R     172.16.2.0/24 [120/2] via 207.165.200.250, 00:00:25, Serial0/0/0
O     192.168.1.0/24 [110/4437] via 207.165.200.254, 00:00:17, Serial0/0/1
D     192.168.2.0/24 [90/84437] via 207.165.200.254, 00:00:15, Serial0/0/1
      207.165.200.0/24 is variably subnetted, 5 subnets, 2 masks
S     207.165.200.244/30 [1/1] via 207.165.200.254, Serial0/0/1
C     207.165.200.248/30 is directly connected, Serial0/0/0
L     207.165.200.249/32 is directly connected, Serial0/0/0
C     207.165.200.252/30 is directly connected, Serial0/0/1
L     207.165.200.253/32 is directly connected, Serial0/0/1
```

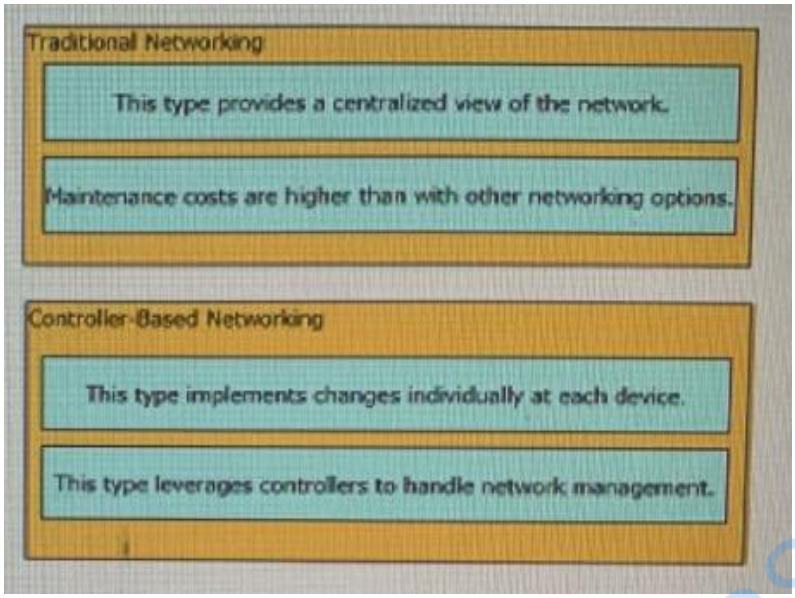
Refer to the exhibit. Which network prefix was learned via EIGRP?

A. 192.168.2.0/24
B. 192.168.1.0/24
C. 207.165.200.0/24
D. 172.16.0.0/16

Answer: A

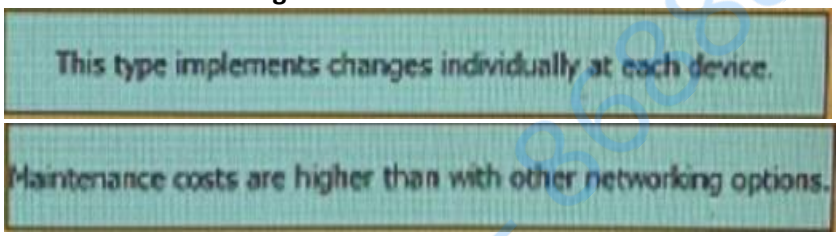
QUESTION NO. 314

Drag and drop the statements about networking from the left onto the corresponding networking types on the right.

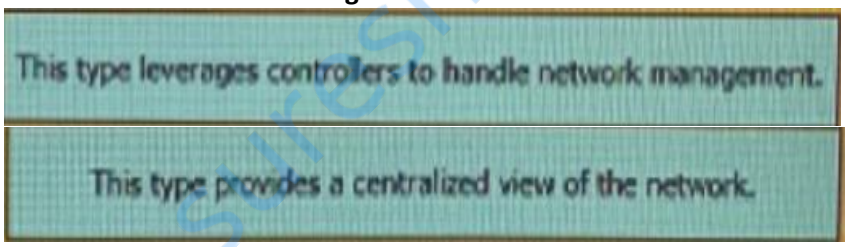


Answer:

Traditional Networking:



Controller-Based Networking:



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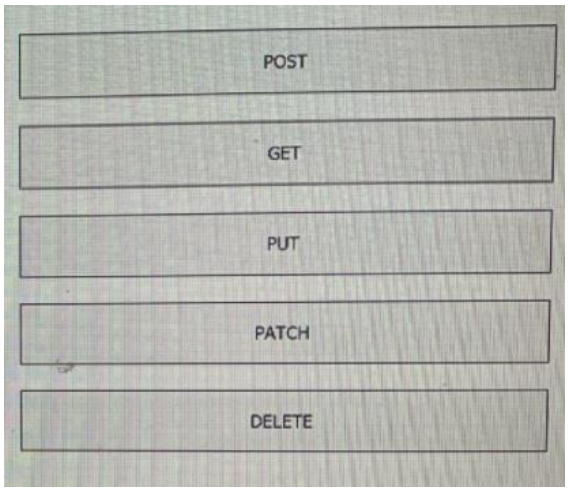
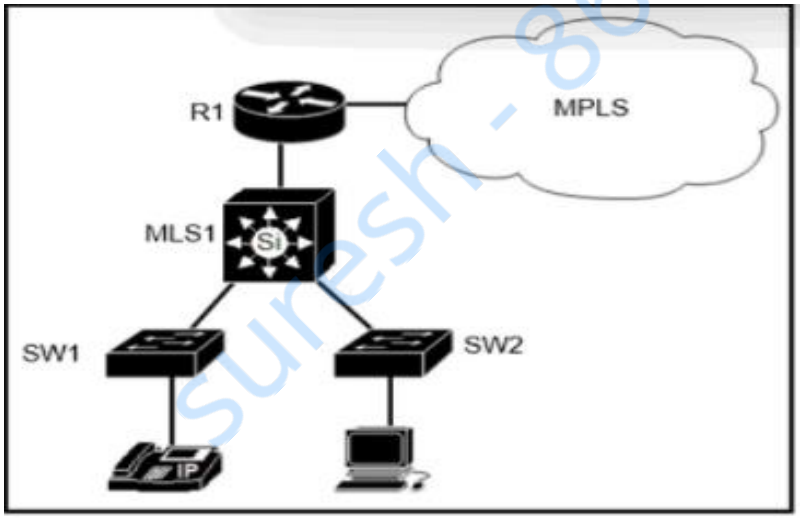
QUESTION NO. 315

Drag and drop the HTTP methods from the left onto the functions on the right.



POST --- Create
GET --- Read
PUT --- Update
PATCH – Update/change
DELETE -- Delete

QUESTION NO. 316



Refer to the exhibit. Which plan must be implemented to ensure optimal QoS marking practices on this network?

A. As traffic traverses MLS1 remark the traffic, but trust all markings at the access layer.
B. Remark traffic as it traverses R1 and trust all markings at the access layer.
C. Trust the IP phone markings on SW1 and mark traffic entering SW2 at SW2.
D. As traffic enters from the access layer on SW1 and SW2, trust all traffic markings.

Answer: B

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QUESTION NO. 317

What are two reasons to implement IPv4 private addressing on a network? (Choose Two)

A. To enable internal applications to treat the private IPv4 addresses as unique
B. To facilitate renumbering when merging networks
C. To expand the routing table on the router
D. To provide protection from external denial-of-service attacks
E. To conserve global unique IPv4 addresses

Answer: D, E

QUESTION NO. 318

What is the function of the controller in a software-defined network?

A. Multicast replication at the hardware level
B. Making routing decisions
C. Fragmenting and reassembling packets
D. Forwarding packets

Answer: B

QUESTION NO. 319

Which wireless security protocol relies on Prefect Forward Secrecy?

A. WPA3
B. WPA2
C. WEP
D. WPA

Answer: C

QUESTION NO. 320

What is the purpose of the ip address dhcp command?

A. To configure an interface as a DHCP relay
B. To configure an interface as a DHCP server
C. To configure an interface as a DHCP helper
D. To configure an interface as a DHCP client

Answer: D

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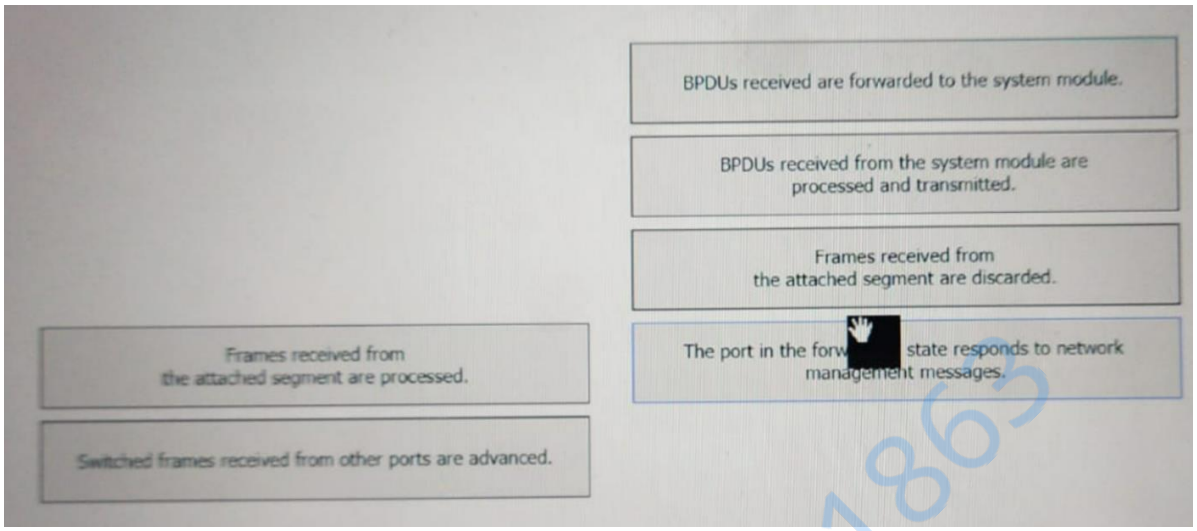
QUESTION NO. 321

Drag and drop the Rapid PVST+ forwarding state actions from the left to the right. Not all actions are used.



QUESTION NO. 322

By default, how long will the switch continue to know a workstation MAC address after the workstation stops sending traffic?

A. 200 seconds
B. 300 seconds
C. 600 seconds
D. 900 seconds

Answer: B

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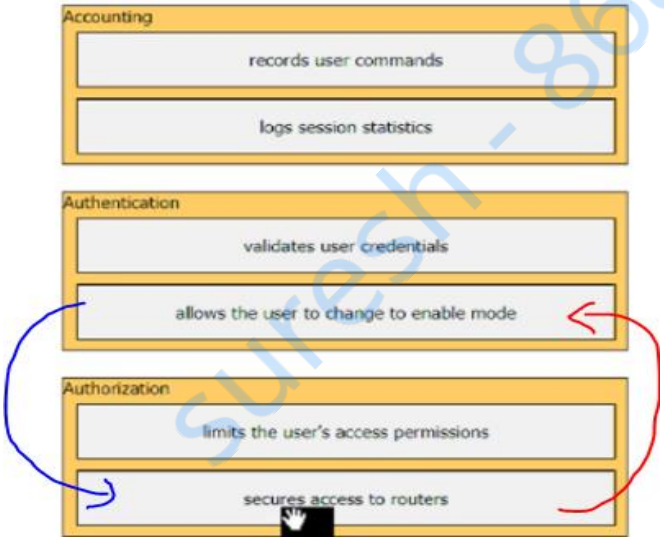
QUESTION NO. 323

Drag and drop the description of AAA services from the left onto the corresponding services on the right.

Answer:



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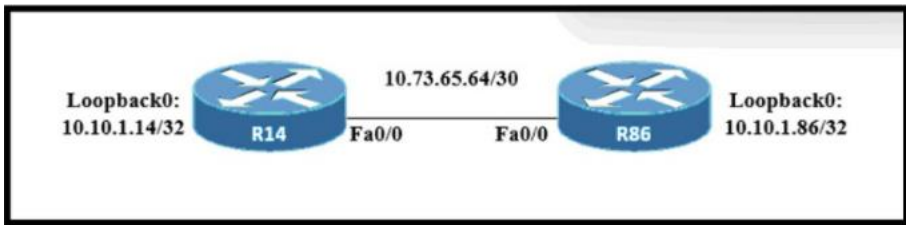
QUESTION NO. 324



Refer to the exhibit. Which configuration allows routers R14 and R86 to form an OSPFv2 adjacency while acting as a central point for exchanging OSPF information between routers?

A.

```
R14#
interface FastEthernet0/0
ip address 10.73.65.65 255.255.255.252
ip ospf network broadcast
ip ospf priority 255
ip mtu 1500

router ospf 10
router-id 10.10.1.14
network 10.10.1.14 0.0.0.0 area 0
network 10.73.65.64 0.0.0.3 area 0
R86#
interface FastEthernet0/0
ip address 10.73.65.66 255.255.255.252
ip ospf network broadcast
ip mtu 1500

router ospf 10
router-id 10.10.1.86
network 10.10.1.86 0.0.0.0 area 0
network 10.73.65.64 0.0.0.3 area 0
```

B.

```
R14#
interface Loopback0
ip ospf 10 area 0

interface FastEthernet0/0
ip address 10.73.65.65 255.255.255.252
ip ospf network broadcast
ip ospf 10 area 0
ip mtu 1500

router ospf 10
ip ospf priority 255
router-id 10.10.1.14

R86#
interface Loopback0
ip ospf 10 area 0

interface FastEthernet0/0
ip address 10.73.65.66 255.255.255.252
ip ospf network broadcast
ip ospf 10 area 0
ip mtu 1500

router ospf 10
router-id 10.10.1.86
```

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C.

R14#
interface FastEthernet0/0
ip address 10.73.65.65 255.255.255.252
ip ospf network broadcast
ip ospf priority 255
ip mtu 1500

router ospf 10
router-id 10.10.1.14
network 10.10.1.14 0.0.0.0 area 0
network 10.73.65.64 0.0.0.3 area 0
R86#
interface FastEthernet0/0
ip address 10.73.65.66 255.255.255.252
ip ospf network broadcast
ip mtu 1400

router ospf 10
router-id 10.10.1.86
network 10.10.1.86 0.0.0.0 area 0
network 10.73.65.64 0.0.0.3 area 0

D.

R14#
interface FastEthernet0/0
ip address 10.73.65.65 255.255.255.252
ip ospf network broadcast
ip ospf priority 0
ip mtu 1400

router ospf 10
router-id 10.10.1.14
network 10.10.1.14 0.0.0.0 area 0
network 10.73.65.64 0.0.0.3 area 0
R86#
interface Loopback0
ip address 10.10.1.86 255.255.255.255

interface FastEthernet0/0
ip address 10.73.65.66 255.255.255.252
ip ospf network broadcast
ip mtu 1500

router ospf 10
router-id 10.10.1.86
network 10.10.1.86 0.0.0.0 area 0
network 10.73.65.64 0.0.0.3 area 0

Answer: A

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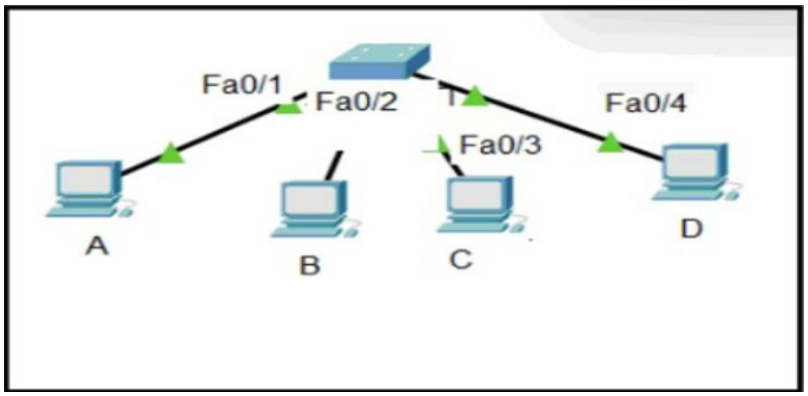
QUESTION NO. 325



Refer to the exhibit. Host A sent a data frame destined for host D.

```
SwitchA#show mac-address table
          Mac Address Table
------------------------------------------------------------
Vlan    Mac Address       Type        Ports
-------  -----------------------  -------  -------
2         000c.859c.bb7b  DYNAMIC  Fa0/1
2         0010.11dc.3e91  DYNAMIC  Fa0/2
2         0041.43d1.c843  DYNAMIC  Fa0/3
SwitchA#
```

What does the switch do when it receives the frame from host A?

A. It experiencing a broadcast storm
B. It shuts down the port Fa0/1 and places it in err-disable mode
C. It drops the frame from the switch CAM table
D. It floods the frame out of all ports except port Fa0/1

Answer: D

QUESTION NO. 326

Which script paradigm does puppet use?

A. Playbooks and roles
B. Recipes and cookbooks
C. Strings and marionettes
D. Manifests and modules

Answer: D

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QUESTION NO. 327

A project objective is to minimize the association time to the different access points as mobile devices move around the office. The ideal solution must cover numerous devices and device types, including laptops, mobile phones, tablets and wireless printers. What must be configured?

A. 802.11v BSS Max Idle Service
B. 802.11v Disassociation Imminent
C. 802.11ax BSS configure
D. 802.11k neighbor List Dual Band

Answer: B

QUESTION NO. 328

Which type of port is used to connect to the wired network when an autonomous AP maps two VLANs to its WLANs?

A. Access
B. Trunk
C. LAG
D. EtherChannel

Answer: B

QUESTION NO. 329

Which QoS queuing method discards or marks packets that exceed the desired bit rate of traffic flow?

A. Shaping
B. CBWFQ
C. LLQ
D. Policing

Answer: B

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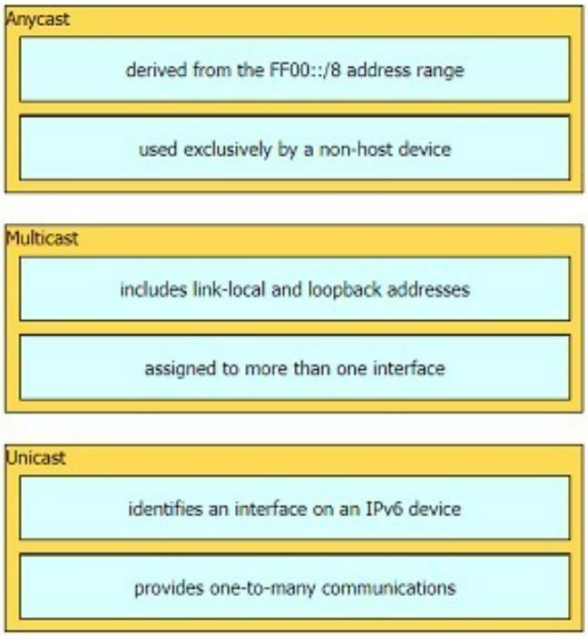
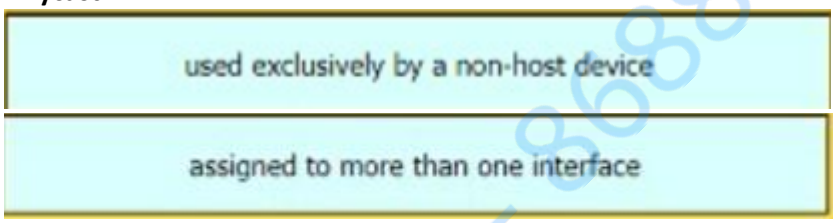
QUESTION NO. 330

Drag and drop the IPV6 address details from the left onto the corresponding types on the right.

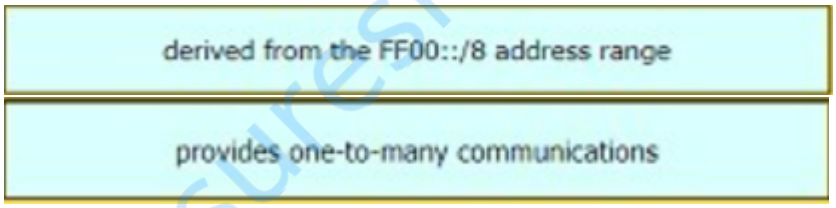


Answer:

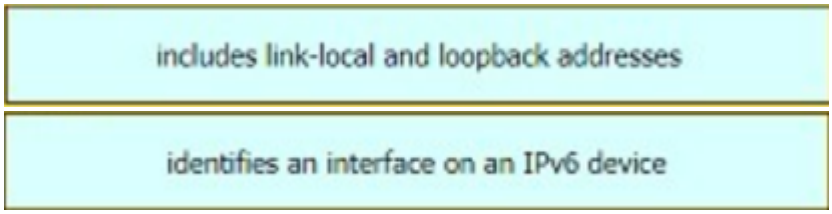
Anycast:



Multicast:



Unicast:



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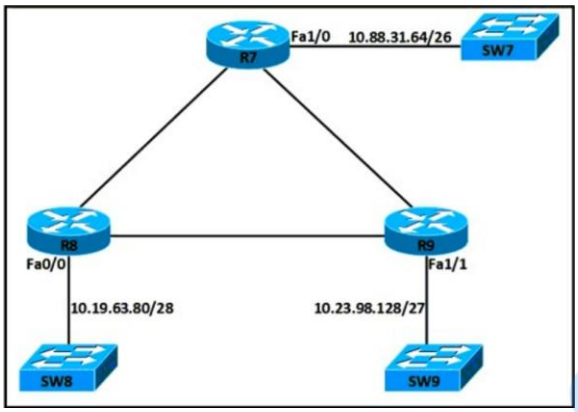
QUESTION NO. 331

Which set of 2.4 GHz nonoverlapping wireless channels is standard in the United States?

A. Channels 1,6, and 11
B. Channels 2,7,9, and 11
C. Channels 2,7, and 11
D. Channels 1,6,11, and 14

Answer: A

QUESTION NO. 332



Refer to the exhibit. Each router must be configured with the last usable IP address in the subnet. Which configuration fulfils this requirement?

R7#
interface FastEthernet1/0
ip address 10.88.31.127 255.255.255.192

R8#
interface FastEthernet0/0
ip address 10.19.63.95 255.255.255.240

R9#
interface FastEthernet1/1
ip address 10.23.98.159 255.255.255.224

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R7#
interface FastEthernet1/0
ip address 10.88.31.127 255.255.255.240

R8#
interface FastEthernet0/0
ip address 10.19.63.95 255.255.255.192

R9#
interface FastEthernet1/1
ip address 10.23.98.159 255.255.255.248

R7#
interface FastEthernet1/0
ip address 10.88.31.126 255.255.255.192

R8#
interface FastEthernet0/0
ip address 10.19.63.94 255.255.255.240

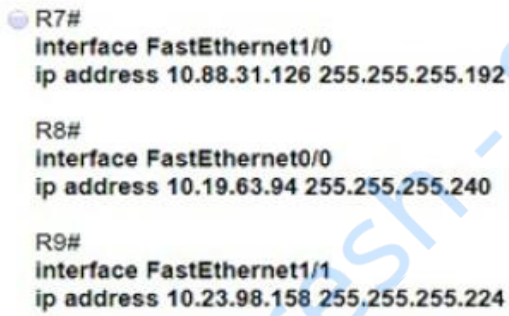
R9#
interface FastEthernet1/1
ip address 10.23.98.158 255.255.255.224

R7#
interface FastEthernet1/0
ip address 10.88.31.126 255.255.255.240

R8#
interface FastEthernet0/0
ip address 10.19.63.94 255.255.255.192

R9#
interface FastEthernet1/1
ip address 10.23.98.158 255.255.255.248

Answer: C



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QUESTION NO. 333

What is a zero-day exploit?

A. It is when a new network vulnerability is discovered before a fix is available.
B. It is when the network is Saturated with malicious traffic that overloads resources and bandwidth
C. It is when the perpetrator inserts itself in a conversation between two parties and captures or alters data
D. It is when an attacker inserts malicious code into a SQL server

Answer: A

QUESTION NO. 334

```
R1#show run
!
router ospf 1
auto-cost reference-bandwidth 100000
!
interface GigabitEthernet0/0
bandwidth 10000000
!
interface GigabitEthernet0/1
bandwidth 100000000
!
interface GigabitEthernet0/2
ip ospf cost 100
!
interface GigabitEthernet0/3
ip ospf cost 1000
end
```

Refer to the exhibit. Router R1 resides in OSPF Area 0. After updating the R1 configuration to influence the paths that will use to direct traffic, an engineer verified that each of the four Gigabit interfaces has the same route to 10.10.0.0/16. Which interface will R1 choose to send traffic to reach the route?

A. GigabitEthernet0/0
B. GigabitEthernet0/1
C. GigabitEthernet0/2
D. GigabitEthernet0/3

Answer: B

QUESTION NO. 335

What is the role of disaggregation in controller-based networking?

A. It enables a network topology to quickly from a ring network to a star network.
B. It streamlines traffic handling nu assigning individual devices to perform either Layer 2 or Layer 3 functions.
C. It summarizes the routes between the core and distribution layers of the network topology.
D. It divides the control-plane and data-plane functions.

Answer: D

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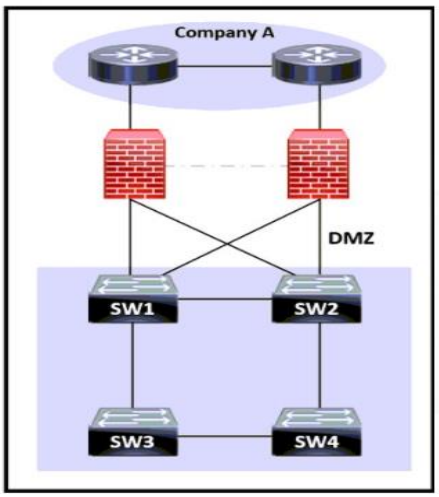
QUESTION NO. 336



SW1: VLAN 10 - 32778 0018.1843.3cb0
SW2: VLAN 10 - 24586 004a.14e3.1842
SW3: VLAN 10 - 28682 0022.55cf.cc00
SW4: VLAN 10 - 64000 0022.66ed.a29f

Refer to the exhibit. Which switch becomes the root of a spanning tree for VLAN 10 if the primary switch fails and all links are of equal speed?

A. SW1
B. SW2
C. SW3
D. SW4

Answer: C

QUESTION NO. 337

An application in the network is being scaled up from 3000 servers to 600. Each server requires 3 network connections to support production, backup, and management traffic. Each connection resides on a different subnet. The router configuration for the production network must be configured first using a subnet in the 10.0.0.0/8 network, which command must be configured on the router to accommodate the requirements and limit wasted IP address space?

A. ip address 10.10.10.1 255.255.255.240
B. ip address 10.10.10.1 255.255.252.0
C. ip address 10.10.10.1 255.255.254.0
D. ip address 10.10.10.1 255.255.240.0

Answer: C

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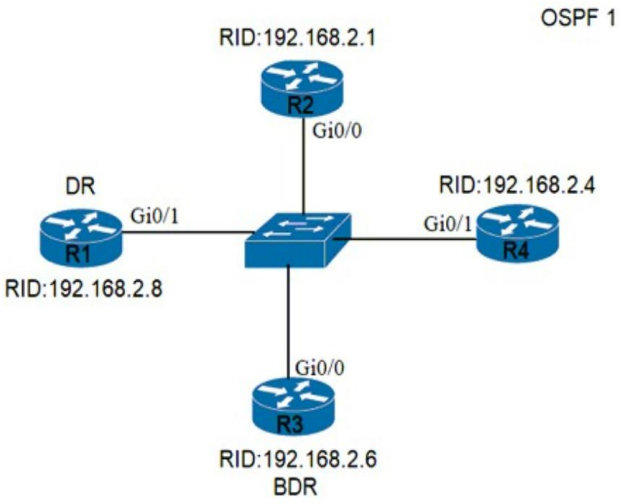
QUESTION NO. 338



Refer to the Exhibit. All routers in the network are configured R2 must be the DR. After the engineer connected the devices. R1 was elected as the DR. which command sequence must be configured on R2 to be elected as the DR in the network?

A. R2(config)#router ospf1

   R2(config-router)#router-id 10.100.100.100

B. R2(config)#interface gi0/0

   R2(config-if)#ip ospf priority 1

C. R2(config)#router ospf 1

   R2(config-router)#router-id 192.168.2.7

D. R2(config)#interface gi0/0

   R2(config-if)#ip ospf priority 100

Answer: D

QUESTION NO. 339

What is the collapsed layer in collapsed core architectures?

A. Core and distribution
B. Distribution and access
C. Access and WAN
D. Core and WAN

Answer: A

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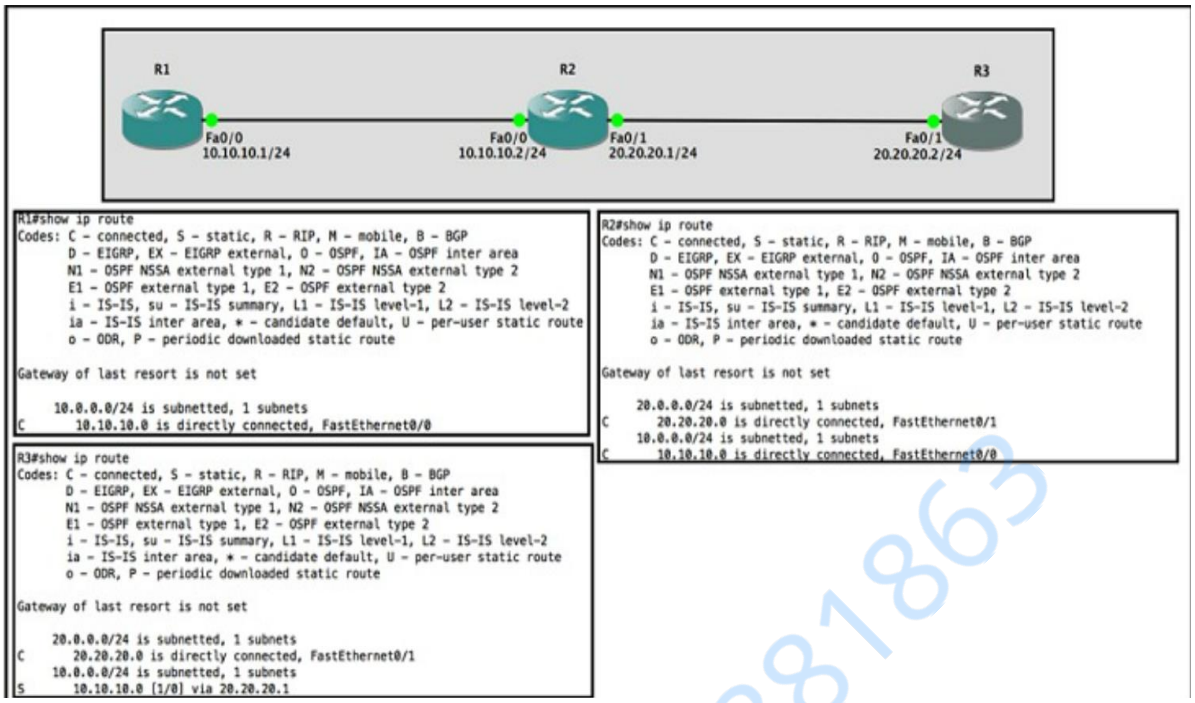
QUESTION NO. 340



Refer to the exhibit. Router R1 Fa0/0 is unable to ping router R3 Fa0/1. Which action must be taken in router R1 to help resolve the configuration issue?

A. Configure a static route with 10.10.10.2 as the next hop to reach the 20.20.20.0/24 network
B. Set the default gateway as 20.20.20.2
C. Set the default network as 20.20.20.0/24
D. Configure a static route with Fa0/1 as the egress interface to reach the 20.20.20.0/24 network

Answer: A

QUESTION NO. 341

What is a function performed by a web server?

A. Send and retrieve email from client devices
B. Authenticate and authorize a user's identity
C. Provide an application that is transmitted over HTTP
D. Securely store files for FTP access

Answer: C

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QUESTION NO. 342

```
Flags:  D - down        P - in port-channel
        I - stand-alone s - suspended
        H - Hot-standby (LACP only)
        R - Layer3      S - Layer2
        U - in use      f - failed to allocate aggregator
        u - unsuitable for bundling
        w - waiting to be aggregated
        d - default port

Number of channel-groups in use: 1
Number of aggregators:           1
Group  Port-channel  Protocol    Ports
------+-------------+-----------+----------------
1      Po1(SD)           LACP   Fa0/2(I) Fa0/1(I)
```

```
Switch1#show run
Building configuration...
interface Port-channel1
!
interface FastEthernet0/1
 channel-group 1 mode passive
!
interface FastEthernet0/2
 channel-group 1 mode passive
```

```
Switch2#show run
Building configuration...
interface Port-channel1
!
interface FastEthernet0/1
 channel-group 1 mode passive
!
interface FastEthernet0/2
 channel-group 1 mode passive
```

Refer to the exhibit. Which change to the configuration on Switch2 allows the two switches to establish an EtherChannel?

A. Change the protocol to PAgP and use **auto** mode.
B. Change the LACP mode to **active**
C. Change the protocol to EtherChannel mode on.
D. Change the LACP mode to **desirable**.

Answer: B

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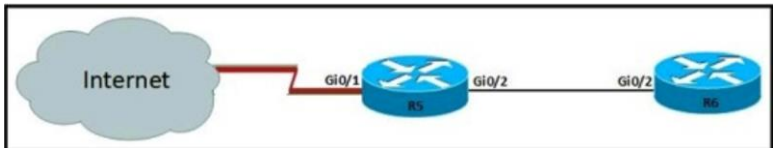
QUESTION NO. 343



Refer to the exhibit. For security reasons, automatic neighbor discovery must be disabled on the R5 Gi0/1 interface. These tasks must be complete:

- Disable all neighbor discovery methods on R5 interface Gi0/1
- Permit neighbour discovery on R5 interface Gi0/2
- Verify there are no dynamically learned neighbors on R5 interface Gi0/1
- Display the IP address of R6 interface Gi0/2

Which configuration must be used?

R5(config)#**int Gi0/1**
R5(config-if)#**no cdp enable**
R5(config-if)#**exit**
R5(config)#**no lldp run**
R5(config)#**cdp run**
R5#**sh cdp neighbor detail**
R5#**sh lldp neighbor**

R5(config)#**int Gi0/1**
R5(config-if)#**no cdp enable**
R5(config-if)#**exit**
R5(config)#**lldp run**
R5(config)#**no cdp run**
R5#**sh cdp neighbor detail**
R5#**sh lldp neighbor**

R5(config)#**int Gi0/1**
R5(config-if)#**no cdp run**
R5(config-if)#**exit**
R5(config)#**lldp run**
R5(config)#**cdp enable**
R5#**sh cdp neighbor**
R5#**sh lldp neighbor**

R5(config)#**int Gi0/1**
R5(config-if)#**no cdp enable**
R5(config-if)#**exit**
R5(config)#**no lldp run**
R5(config)#**cdp run**
R5#**sh cdp neighbor**
R5#**sh lldp neighbor**

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Answer: A

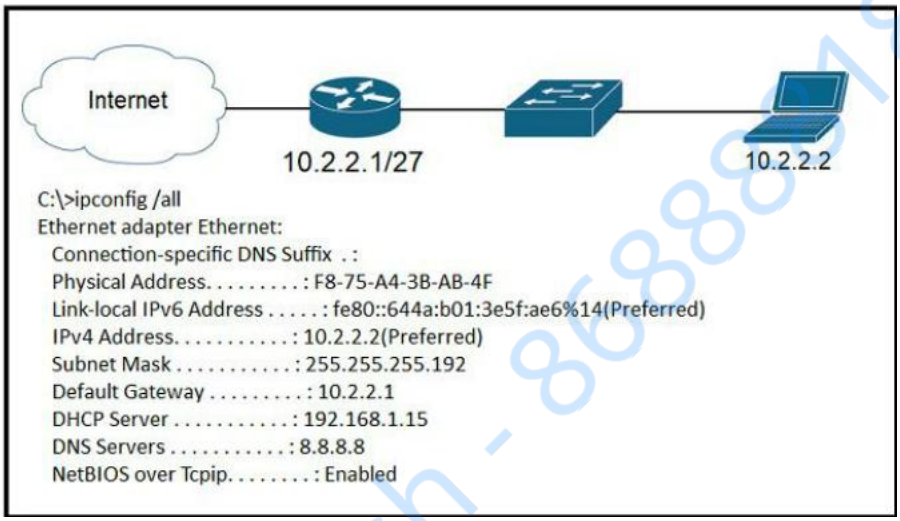
QUESTION NO. 344

A user configured OSPF in a single area between two routers. A serial interface connecting R1 and R2 is running encapsulation PPP. By default, which OSPF network type is seen on this interface when the user types **show ip ospf interface** on R1 or R2?

A. Point-to-multipoint
B. Point-to-point
C. Nonbroadcast
D. Broadcast

Answer: B

QUESTION NO. 345



Refer to the exhibit. A newly configured PC fails to connect to the internet by using TCP port 80 to www.cisco.com. Which setting must be modified for the connection to work?

A. Defaut Gateway
B. DHCP servers
C. Subnet Mask
D. DNS servers

Answer: B

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QUESTION NO. 346

A network administrator plans an update to the Wi-Fi networks in multiple branch offices. Each location is configured with an SSID called “Office.” The Administrator wants every user who connects to the SSID at any location to have the same access level. What must be set the same on each network to fulfill the request?

A. Profile name
B. Security policies
C. Radio policy
D. NAS-ID configuration

Answer:

QUESTION NO. 347

What is the purpose of the Cisco DNA center controller?

A. To secure physical access to a data center.
B. To provide Layer 3 services to autonomous access points
C. To securely manage and deploy network devices
D. To scan a network and generate a layer 2 network diagram

Answer: B

QUESTION NO. 348

Which two protocols are used by an administrator for authentication and configuration on access points? (Choose two.)

A. 802.1Q
B. RADIUS
C. Kerberos
D. TACACS+
E. 802.1x

Answer: B, E

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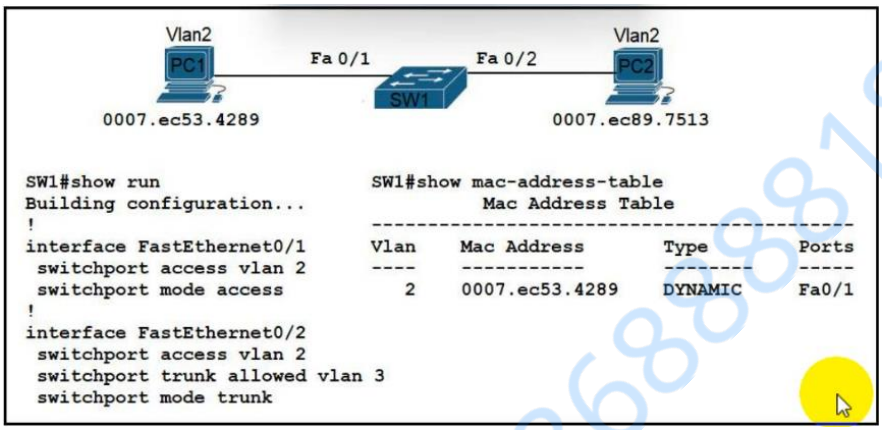
QUESTION NO. 349

Which concern is addressed with the use of private IPv4 addressing?

A. Lack of routing protocol support for CIDR and VLSM
B. Lack of security protocols at the network perimeter
C. Lack of available TCP/UDP ports per IPv5 address
D. Lack of available publicly routable unique IPv4 address

Answer: D

QUESTION NO. 350



Refer to the exhibit. An engineer has started to configured replacement switch SW1. To verify part of the configuration, the engineer issued the commands as shown and notices that the entry for PC2 is missing. Which change must be applied to SW1 so that PC1 and PC2 communicate normally?

Answer: C

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QUESTION NO. 351

What are two functions of a server on a network? (Choose two)

A. Runs applications that send and retrieve data for workstations that make requests
B. Handles requests from multiple workstations at the same time
C. Runs the same operating system in order to communicate with other servers
D. Housed solely in a data center that is dedicated to a single client
E. Achieves redundancy by exclusively using virtual server clustering

Answer: A, B

QUESTION NO. 352

```
R1#show ip interface brief
Interface                  IP-Address      OK? Method Status                Protocol
FastEthernet0/0            unassigned      YES NVRAM  administratively down down
GigabitEthernet1/0         192.168.0.1     YES NVRAM  up                    up
GigabitEthernet2/0         10.10.1.10      YES manual up                    up
GigabitEthernet3/0         10.10.10.20     YES manual up                    up
GigabitEthernet4/0         unassigned      YES NVRAM  administratively down down
Loopback0                  172.16.15.10    YES manual
```

Refer to the exhibit. What does router R1 use as its OSPF router-ID?

A. 10.10.1.10
B. 10.10.10.20
C. 172.16.15.10
D. 192.168.0.1

Answer: C

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QUESTION NO. 353

```
R1# show ip route
D       192.168.10.0/24   [90/2679326]    via 192.168.1.1
R       192.168.10.0/27   [120/3]     via 192.168.1.2
O       192.168.10.0/23   [110/2]     via 192.168.1.3
i  L1   192.168.10.0/13   [115/30]     via 192.168.1.4
```

Refer to the exhibit. How does router R1 handle traffic to 192.168.10.16?

A. It selects the RIP route because it has the longest prefix inclusive of the destination address.
B. It selects the EIGRP route because it has the lowest administrative distance.
C. It selects the OSPF route because it has the lowest cost
D. It selects the IS-IS route because it has the shortest prefix inclusive of the destination address.

Answer: A

QUESTION NO. 354

What occurs when PortFast is enabled on an interface that is connected to another switch?

A. Spanning-tree fails to detect a switching looping increasing the likelihood of broadcast storms
B. VTP is allowed to propagate VLAN configuration information from switch to switch automatically
C. After spanning-tree converges, PortFast shuts down any port that receives BPDUs
D. Root port circle and spanning-tree recalculation are accelerated when a switch link goes down.

Answer: A

QUESTION NO. 355

Which IPv6 address type provides communication between subnets and is unable to route on the internet?

A. Unique local
B. Link-local
C. Global unicast
D. Multicast

Answer: A

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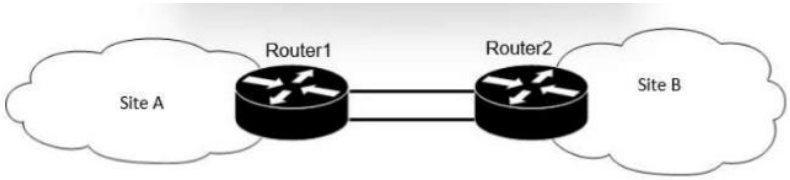
QUESTION NO. 356




```
Router2#show ip route
Gateway of last resort is not set

     10.0.0.0/8 is variably subnetted, 4 subnets, 2 masks
C       10.10.10.8/30 is directly connected, FastEthernet0/2
C       10.10.10.12/30 is directly connected, FastEthernet0/1
O       10.10.13.0/25 [110/11] via 10.10.10.9,  00:00:03, FastEthernet0/2
                      [110/11] via 10.10.10.13, 00:00:03, FastEthernet0/1
C       10.10.10.4/30 is directly connected, FastEthernet0/2
```

Refer to the exhibit. If OSPF is running on this network, how does Router2 handle traffic from Site B to 10.10.13.128/25 at site A?

A. It sends packets out of interface Fa0/1.
B. It is unreachable and discards the traffic.
C. It load-balances traffic out of Fa0/1 and Fa0/2.
D. It sends packers out of interface Fa0/2.

Answer: B

QUESTION NO. 357

Which WPA3 enhancement protects against hackers viewing traffic on the Wi-Fi network?

A. SAE encryption
B. Scrambled encryption key
C. AES encryption
D. TKIP encryption

Answer: A

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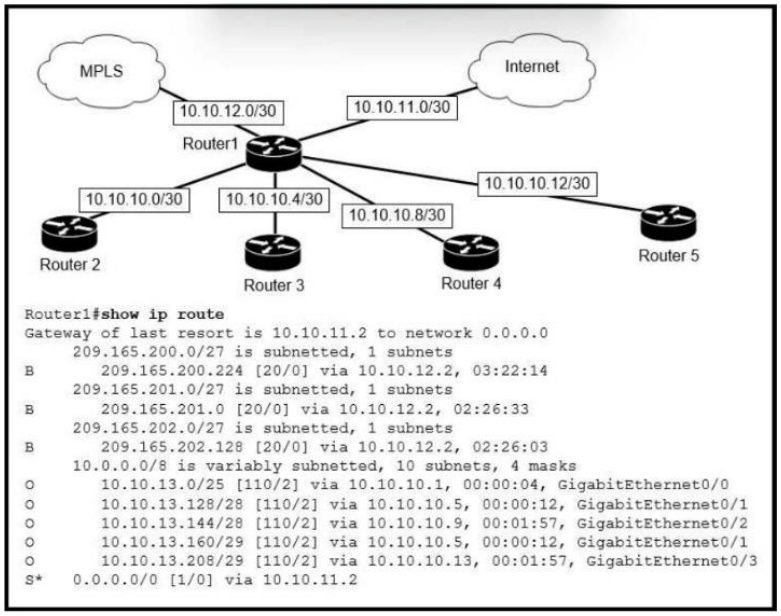
QUESTION NO. 358




```
Router1#show ip route
Gateway of last resort is 10.10.11.2 to network 0.0.0.0
     209.165.200.0/27 is subnetted, 1 subnets
B       209.165.200.224 [20/0] via 10.10.12.2, 03:22:14
     209.165.201.0/27 is subnetted, 1 subnets
B       209.165.201.0 [20/0] via 10.10.12.2, 02:26:33
     209.165.202.0/27 is subnetted, 1 subnets
B       209.165.202.128 [20/0] via 10.10.12.2, 02:26:03
     10.0.0.0/8 is variably subnetted, 10 subnets, 4 masks
O       10.10.13.0/25 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O       10.10.13.128/28 [110/2] via 10.10.10.5, 00:00:12, GigabitEthernet0/1
O       10.10.13.144/28 [110/2] via 10.10.10.9, 00:01:57, GigabitEthernet0/2
O       10.10.13.160/29 [110/2] via 10.10.10.5, 00:00:12, GigabitEthernet0/1
O       10.10.13.208/29 [110/2] via 10.10.10.13, 00:01:57, GigabitEthernet0/3
S*   0.0.0.0/0 [1/0] via 10.10.11.2
```

Refer to the exhibit. To which device does Router1 send packets that are destined to host 10.10.13.165?

A. Router2
B. Rouer3
C. Router4
D. Router5

Answer: B

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