

Which resource identifies the number of onboard ports available on an AFF/FAS controller?

- ☐ A) BlueXP
- ☐ B) Interoperability Matrix
- ☒ C) Hardware Universe
- ☐ D) ActiveIQ Config Advisor

An administrator is troubleshooting failover to an ONTAP SVM-DR destination cluster. The failover test works but stops replication. The administrator has a requirement to keep SnapMirror replication running while performing the failover test.

What ONTAP feature will accomplish this task?

- ☐ A) SM-BC
- ☒ B) SM-S
- ☐ C) FlexClone
- ☐ D) SnapRestore

A storage administrator is trying to establish a SnapMirror relationship between a primary cluster and a secondary cluster. The clusters are unable to establish a peering relationship. The administrator discovers that the IP subnet used for the secondary cluster's intercluster LIFs conflicts with a local subnet.

Which feature would enable the clusters to peer with each other?

- ☐ A) Broadcast domains
- ☒ B) IPspaces
- ☐ C) Subnets
- ☐ D) VLANs

In which two tools can an administrator identify security vulnerabilities and receive actionable intelligence? (Choose two.)

- ☐ A) NetApp Harvest 2.0
- ☒ B) Active IQ Digital Advisor
- ☒ C) BlueXP Classification
- ☐ D) ONTAP System Manager

What are two ways that an administrator can define a new consistency group? (Choose two.)

- ☐ A) SANtricity
- ☒ B) ONTAP REST API
- ☒ C) System Manager
- ☐ D) Active IQ Unified Manager

Which SVM type owns cluster LIFs?

- ☐ A) Admin
- ☒ B) System
- ☐ C) Node
- ☐ D) Data

What should be done to non-disruptively correct capacity imbalances in a FlexGroup?

- ☐ A) Move the FlexGroup to a different aggregate
- ☒ B) Perform a rebalance of the FlexGroup constituents
- ☐ C) Move the constituent to a new aggregate
- ☐ D) Convert the FlexGroup to a FlexVol

In the NetApp Product line, what makes the AFF Platform unique?

- ☐ A) It can use both spinning and solid state disks (HDD & SSD)
- ☒ B) It can only use solid state disks (SSD)
- ☐ C) It can only use spinning disks (HDD)
- ☐ D) It can only use secure digital (SD) cards

Refer to the exhibit.

Object: resource_headroom_cpu
Instance: CPU_sti2520-213
Start-time: 2/9/2023 16:06:27
End-time: 2/9/2023 16:06:27
Scope: sti2520-213

Counter	Value
ewma_hourly	-
current_ops	4376
current_latency	37719
current_utilization	86
optimal_point_ops	2573
optimal_point_latency	3589
optimal_point_utilization	72
optimal_point_confidence_factor	1

Based on the CPU headroom statistics provided for one node in the cluster, what is the available performance capacity?

- ☒ A) 86
- ☐ B) -14
- ☐ C) 72
- ☐ D) 14

Which RDMA protocol does ONTAP support with NFS using TCP?

- ☐ A) RoCE
- ☐ B) Infiniband
- ☐ C) FC/NVMe
- ☒ D) iWARP

When using SAN protocols, what is the maximum number of nodes that can be added to a four node cluster?

- ☐ A) 24
- ☒ B) 8
- ☐ C) 4
- ☐ D) 12

Refer to the exhibit.

```
clusterA::> qtree show -qtree sea -fields export-policy
vserver volume    qtree export-policy
-----
blue    aquaman1 sea    sea

clusterA::> export-policy rule show -policyname sea -fields clientmatch,rorule,rwrul
e,superuser
vserver policyname ruleindex clientmatch  rorule rwrule superuser
-----
blue    sea          1          140.70.10.22 sys    sys    sys

clusterA::> vserver export-policy check-access -vserver blue -volume aquaman1 -qtree
sea -client-ip 140.70.10.22 -authentication-method sys -protocol nfs3 -access-type
read-write
```

Path	Policy	Policy Owner	Policy Owner Type	Rule Index	Access
/	default	blue_root	volume	1	read
/aquaman1	Aquaman	aquaman1	volume	0	denied

2 entries were displayed.

```
clusterA::>
```

An administrator creates a new qtree and an associated export policy. When the client tries to connect, they are denied.

What should the administrator do?

☐ A) Add a new rule in the qtree export policy to allow read-write access for the new host

☐ B) Update the export policy to "sea" as the volume mount point

```
clusterA::> export-po
```

Refer to the exhibit.

```
-----
blue      sea      1      140.70.10.22 sys      sys      sys

clusterA::> vserver export-policy check-access -vserver blue -volume aquaman1 -qtree
sea -client-ip 140.70.10.22 -authentication-method sys -protocol nfs3 -access-type
read-write

Path                Policy      Policy      Policy      Rule
                   Owner       Owner Type   Index Access
-----
/                   default    blue_root  volume      1 read
/aquaman1           Aquaman    aquaman1   volume      0 denied
2 entries were displayed.

clusterA::> █
```

An administrator creates a new qtree and an associated export policy. When the client tries to connect, they are denied.

What should the administrator do?

- ☐ A) Add a new rule in the qtree export policy to allow read-write access for the new host
- ☐ B) Update the superuser entry to "any" in the volume export-policy
- ☒ C) Add the new host IP with at least read access to the volume export-policy
- ☐ D) Replace the IP with the client hostname in the qtree export policy

After an unexpected ONTAP node reboot, an administrator notices that the NAS data LIFs are not on their home port.

Which LIF configuration would modify this behavior?

- ☐ A) `-auto-revert`
- ☒ B) `-home-port`
- ☐ C) `-failover-group`
- ☐ D) `-service-policy`

Which two tools can be used to actively monitor ONTAP cluster performance? (Choose two.)

- ☒ A) Cloud Insights
- ☐ B) Active IQ OneCollect
- ☐ C) Cloud Sync
- ☒ D) Active IQ Unified Manager

Refer to the exhibit.

Op	Size	Total	Failed	Latency(ms)			Throughput
				min	max	avg	
PUT	4MB	50000	0	273	10500	719	277.3MB
GET	4KB	5000000	0	4	9591	38	48.46MB
GET	8KB	5000000	9	5	10021	37	123.3MB
GET	32KB	5000000	0	7	7889	60	475.3MB
GET	256KB	2125276	0	21	7838	450	530.7MB

An administrator has a NetApp AFF cluster with Cloud Tiering enabled on all data using the snapshot-only policy. When restoring files, users report slow response times.

What is the highest latency seen during restore?

- ☐ A) 9591
- ☐ B) 7889
- ☐ C) 10500
- ☒ D) 10021

Which two interfaces can an administrator use to disable unused Ethernet ports on an ONTAP cluster? (Choose two.)

- ☐ A) Active IQ Unified Manager
- ☒ B) Command line interface
- ☒ C) System Manager
- ☐ D) Active IQ Config Advisor

Which command parameter will result in a thin-provisioned LUN?

- ☒ A) `-space-reservation disabled`
- ☐ B) `-space-allocation enabled`
- ☐ C) `-space-guarantee none`
- ☐ D) `-space-guarantee volume`

Which two configurations ensure end users are able to restore previous versions of files? (Choose two.)

- ☒ A) Volume snapshot copy
- ☒ B) Share previous versions enabled
- ☐ C) Enable FlexClone operations
- ☐ D) SVM previous versions enabled

Which ONTAP feature combines multiple writes into a single 4K block on the aggregate?

- ☐ A) Data compression
- ☐ B) Aggregate-level deduplication
- ☐ C) Volume-level deduplication
- ☒ D) Data compaction

What are two properties of the NVMe protocol? (Choose two.)

- ☐ A) NQNs are added to namespaces.
- ☒ B) Namespaces are mapped to subsystems.
- ☐ C) LUNs are mapped to initiator groups.
- ☒ D) NQNs are added to subsystems.

What predefined SVM role provides management for NDMP operations?

- ☐ A) vsadmin-readonly
- ☒ B) vsadmin-backup
- ☐ C) vsadmin-volume
- ☐ D) vsadmin-protocol

An administrator wants to scale out storage performance for real time read-intensive workloads across multiple controllers.

Which two NetApp ONTAP features accomplish this task? (Choose two.)

- ☒ A) FlexCache
- ☐ B) FlexVol
- ☒ C) FlexGroup
- ☐ D) FlexClone

An administrator enables the NFS protocol on an SVM and creates a volume to be used as a datastore in a VMware environment. After a rescan, the volume is not visible on the ESXi hosts.

What must the administrator validate to resolve this problem?

- ☐ A) Access control
- ☐ B) Name service
- ☐ C) Security style
- ☒ D) Export policy

Which two tools should an administrator use to monitor system performance in real time? (Choose two.)

- ☐ A) ONTAP System Manager
- ☒ B) ONTAP CLI
- ☒ C) ActiveIQ Unified Manager
- ☐ D) ActiveIQ Config Advisor

An administrator has presented a thinly provisioned iSCSI LUN to your ESXi host. The administrator deleted data from the datastore in ESXi. No blocks have been freed on the LUN.

What are two of the steps the administrator should use to solve this problem? (Choose two.)

- ☒ A) Use the `vmfs unmap` command
- ☐ B) Set the volume to thin-provisioned
- ☒ C) Rescan the storage from the host
- ☐ D) Set the space-allocation to enabled

Which capacity and parity savings feature is configured at the factory with all AFF systems?

- ☐ A) RAID4
- ☒ B) ADP root-data-data
- ☐ C) ADP root-data
- ☐ D) RAID-TEC

What two actions occur automatically if the system detects ransomware activity when Autonomous Ransomware Protection is enabled? (Choose two.)

- ☐ A) Offline the suspicious volume
- ☐ B) Block user access
- ☒ C) Create a new snapshot
- ☒ D) Email the administrators

Which two options must be configured to use tamperproof snapshots? (Choose two.)

- ☐ A) Multi-Admin Verification
- ☒ B) SnapLock license
- ☒ C) Compliance clock
- ☐ D) SnapLock aggregate

An administrator wants to provide isolation from connected hosts to the same FCP LUN.

Which two features accomplish this request? (Choose two.)

- ☒ A) IPSpaces
- ☐ B) Broadcast Domains
- ☐ C) Selective LUN Mapping
- ☒ D) Portsets

Which ONTAP feature allows the most efficient use of disk space for provisioning root aggregates?

- ☐ A) DDP
- ☒ B) ADP
- ☐ C) XDP
- ☐ D) XCP

What is the minimum number of HA pairs required for Epsilon to be automatically assigned?

☐ A) 3

☒ B) 4

☐ C) 1

☐ D) 2

Which ONTAP feature will allow WORM and non-WORM volumes in the same aggregate?

- ☐ A) SnapLock Enterprise
- ☐ B) SnapLock Compliance
- ☐ C) NetApp Aggregate Encryption
- ☒ D) Unified Aggregate

Which ONTAP policy type defines the kind of traffic that is supported for a LIF?

- ☐ A) Export
- ☒ B) Service
- ☐ C) Failover
- ☐ D) QoS

Which ONTAP authentication method must be added to enable two-factor authentication to an existing administrator's SSH login?

- ☐ A) cert
- ☐ B) domain
- ☒ C) publickey
- ☐ D) nsswitch

Which policy type determines access to volumes for NFS within ONTAP?

- ☒ A) Export
- ☐ B) Tiering
- ☐ C) Snapshot
- ☐ D) Service

Which method should an administrator use to make sure all data in a local tier cannot be read if the underlying device is repurposed, returned, misplaced, or stolen?

- ☐ A) Multi-admin authentication
- ☐ B) SMB encryption
- ☐ C) SnapLock volumes
- ☒ D) Self-encrypting drives

Which two networking components must be configured to failover LIFs across subnets? (Choose two.)

- ☒ A) BGP
- ☒ B) VLAN
- ☐ C) LACP
- ☐ D) VIP

Which ONTAP feature discards identical blocks and replaces them with references to a single shared block?

- ☐ A) Thin provisioning
- ☐ B) Compression
- ☒ C) Deduplication
- ☐ D) Compaction

In ONTAP 9.12, what allows an S3 permission to read existing NFS files as objects?

- ☐ A) Security certificate
- ☐ B) SMB share
- ☐ C) NFS export
- ☒ D) User mapping

Which two conditions would prevent an ONTAP upgrade? (Choose two.)

- ☒ A) Established iSCSI sessions
- ☒ B) Offline volume
- ☐ C) Offline LIF
- ☐ D) Failed disk
- ☐ E) Established NFS sessions

When creating an S3 bucket using System Manager, ONTAP uses which default performance service level for an AFF?

- ☐ A) Performance
- ☐ B) Value
- ☐ C) Custom
- ☒ D) Extreme

Which two steps should an administrator take to create a two-node ONTAP Select cluster that spans two data centers and provide automated switchover without any data loss? (Choose two.)

- ☐ A) Use ONTAP Select Deploy to install the nodes on the VMware environment
- ☒ B) Make sure that the ONTAP Select Deploy VM resides at a third location other than the two data centers
- ☒ C) Use ONTAP Mediator service to make sure that a quorum exists for the two nodes
- ☐ D) Set up a SnapMirror Synchronous relationship in StrictSync mode to prevent any data loss in case of a failover

How should an administrator encrypt network traffic to iSCSI LUNs?

- ☐ A) NVE
- ☒ B) IPsec
- ☐ C) MFA
- ☐ D) krb5p

Which tool can be used to deploy Cloud Volumes ONTAP?

- ☒ A) CloudCheckr
- ☐ B) Config Advisor
- ☐ C) Active IQ
- ☐ D) BlueXP

An administrator has an existing FlexVol accessed by Linux hosts over NFSv3. A CIFS share to the same FlexVol was created for SMB access. Windows users are unable to view the share. CIFS share permissions allow for read and write access for the Windows users.

What does the administrator need to modify to allow SMB access?

- ☐ A) Export policies
- ☐ B) Junction paths
- ☐ C) Security style
- ☒ D) User mapping

An administrator is troubleshooting failed cluster peering between three ONTAP clusters for cascaded SnapMirror replication. Cluster1 is peered to Cluster2. Cluster2 is peered to Cluster3.

Cluster1 and Cluster3 do not have an available route to reach each other. Cluster2 can route to both Cluster1 and Cluster3 using dedicated and separate intercluster LIFs.

What ONTAP network component must be configured on Cluster2 to resolve this issue?

- ☐ A) Broadcast domains
- ☐ B) Failover groups
- ☒ C) IPspaces
- ☐ D) Subnets

Which two products can be used to administer Cloud Volumes ONTAP? (Choose two.)

- ☐ A) Cloud Data Sense
- ☒ B) System Manager
- ☐ C) CloudCheckr
- ☒ D) NetApp BlueXP

Which native ONTAP feature allows an administrator to block a Windows user from writing files with the .crypto extension?

- ☒ A) FPolicy
- ☐ B) IP-SEC
- ☐ C) Kerberos
- ☐ D) FIPS

Which NetApp SnapMirror method allows for transparent failover between two AFF clusters with applications using iSCSI LUNs?

- ☒ A) SM-BC
- ☐ B) SM-S
- ☐ C) SVM-DR
- ☐ D) SnapVault

An administrator is troubleshooting connection problems with ONTAP System Manager. The cluster management LIF is on port a0a-33. Web clients on VLAN 33 are able to access System Manager. Web clients on other subnets are unable to reach System Manager.

Which network component should the administrator modify?

- ☒ A) Route
- ☐ B) Interface group
- ☐ C) IPspace
- ☐ D) VLAN

What needs to be enabled on an ONTAP SMB share to increase data throughput and fault tolerance for Microsoft SQL Server databases?

- ☒ A) Multi-channel
- ☐ B) Initiator group
- ☐ C) Round-robin
- ☐ D) Multipathing

Which NetApp solution enables block-level backup and restore from ONTAP to StorageGRID?

- ☐ A) LockVault
- ☐ B) SnapRestore
- ☒ C) Cloud Backup
- ☐ D) FabricPool

Which two types of Restore does Cloud Backup allow? (Choose two.)

- ☐ A) StorageGRID
- ☐ B) Windows 2019 server
- ☒ C) AFF ONTAP system
- ☒ D) Cloud Volumes ONTAP (CVO)
- ☐ E) E-Series system

Which workload type supports Autonomous Ransomware Protection?

- ☐ A) SAN
- ☒ B) NAS
- ☐ C) Object
- ☐ D) VMFS

After configuring an ONTAP cluster for SAN access, the administrator is notified that the cluster nodes are connected to separate FC switches.

Given the following output:

```
san_clus::*> fcp adapter show -fields switch-port
(network fcp adapter show)
node          adapter switch-port
-----
node-01       1a        sw-SAN-A:0
node-01       1b        -
node-01       1c        -
node-01       1d        sw-SAN-A:4
node-02       1a        sw-SAN-B:4
node-02       1b        -
node-02       1c        -
node-02       1d        sw-SAN-B:0
8 entries were displayed.
```

What action will correct the redundancy issue?

- ☐ A) swap cable at node-01 / 1d with cable at node-02 / 1d
- ☐ B) swap cable at node-01 / 1a with cable at node-01 / 1d
- ☐ C) swap cable at node-01 / 1c with cable at node-02 / 1c
- ☒ D) swap cable at node-01 / 1b with cable at node-02 / 1b

What are two logical network components of ONTAP? (Choose two.)

- ☒ A) VLAN
- ☒ B) Interface group
- ☐ C) SFP+
- ☐ D) Network port

Which ONTAP feature will report real-time inactive data on NAS volumes?

- ☐ A) Quality of Service
- ☒ B) File System Analytics
- ☐ C) Foreign LUN Import
- ☐ D) FabricPool

Which two tools should an administrator use to manage NVMe namespaces? (Choose two.)

- ☐ A) System Manager
- ☒ B) ONTAP CLI
- ☐ C) Config Advisor
- ☒ D) SAN Host Tools

Which two SVM types can host intercluster LIFs? (Choose two.)

- ☐ A) Node
- ☐ B) Admin
- ☒ C) Data
- ☒ D) System

Which two protocols provide NAS access for home directories on an SVM? (Choose two.)

- ☐ A) NVMe/TCP
- ☒ B) SMB
- ☐ C) iSCSI
- ☒ D) NFS
- ☐ E) FC

What NetApp tool includes Grafana dashboards to display ONTAP performance, capacity and hardware metrics?

- ☐ A) AIQ Digital Advisor
- ☒ B) NetApp Harvest
- ☐ C) AIQ Unified Manager
- ☐ D) ONTAP System Manager

Which two default HA features work together to reduce and avoid client outages on an ONTAP FAS cluster? (Choose two.)

- ☐ A) Automatic failover
- ☒ B) Automatic takeover
- ☒ C) Automatic giveback
- ☐ D) Automatic SAN LIF migration

What is the default FabricPool tiering policy for a newly created volume?

- ☒ A) snapshot-only
- ☐ B) auto
- ☐ C) all
- ☐ D) none

An administrator has an ESXi cluster with VMware VMFS LUNs on an AFF system. After troubleshooting performance issues, the administrator determines that timeout best practices are not set on the hosts.

Which NetApp tool would apply the best practice settings?

- ☐ A) SnapCenter Plug-in for VMware vSphere
- ☐ B) SnapManager
- ☐ C) SAN Host Utilities
- ☒ D) ONTAP Tools for vSphere

Which two protocols does Fpolicy support? (Choose two.)

- ☒ A) SMB
- ☒ B) NFS
- ☐ C) FCP
- ☐ D) iSCSI

```
cluster1::> network port broadcast-domain show VM*
IPspace Broadcast
Name      Domain Name MTU      Port List
-----
Default Default      1500
          VMware-NFS  9000
          cluster1-01:e0M
          cluster1-01:e0d-10
          cluster1-01:e0f-10
Update
Status Details
-----
```

2 entries were displayed.

```
cluster1::> net int show -vserver svmNFS1
(network interface show)
Vserver      Logical      Status      Network      Current      Current Is
Interface    Admin/Oper   Address/Mask Node          Port         Home
-----
svmNFS1
      lif_NFS      up/up       172.16.10.20/24 cluster1-01  e0M         true
      lif_MGMT     up/up       172.16.1.70/24  cluster1-01  e0d-10      true
```

2 entries were displayed.

What does the administrator need to correct?

- ☐ A) Modify lif_MGMT to port e0f-10
- ☒ B) Modify lif_NFS to port e0f-10
- ☐ C) Enable the NFS option "-vstorage" on svmNFS1
- ☐ D) Change the Default broadcast domain MTU to 9000

What would allow for an automatic switchover of an SM-BC relationship in case of a site disaster?

- ☐ A) Cluster failover
- ☐ B) ONTAP Mediator
- ☐ C) Storage failover
- ☒ D) Automated unplanned switchover

Which ONTAP feature guarantees that critical workload performance is not degraded by competing workloads?

- ☐ A) Quotas
- ☒ B) Quality of Service
- ☐ C) Storage Pool
- ☐ D) FlashPool

Which two interfaces can be used to administer ONTAP systems? (Choose two.)

- ☒ A) SANtricity
- ☐ B) NetApp BlueXP
- ☐ C) Astra Control
- ☒ D) System Manager

Which tool should an administrator use to identify the number of empty SAS ports on an existing cluster?

- ☐ A) Interoperability Matrix Tool
- ☐ B) SnapCenter
- ☒ C) Active IQ Web site
- ☐ D) Hardware Universe

An administrator tries to create an SVM for CIFS access only.

Which two steps are required? (Choose two.)

- ☐ A) Create an intercluster LIF
- ☐ B) Create failover policies
- ☒ C) Create DNS entries
- ☐ D) Create export policies
- ☒ E) Create a data LIF

Which ONTAP feature should a customer use to migrate a series of LUNs from a third-party array to an FAS?

- ☐ A) FLI
- ☒ B) XCP
- ☐ C) NVE
- ☐ D) SM-S

Refer to the exhibit.

A company has three servers that are using the iSCSI protocol to connect to a two node NetApp ONTAP cluster. The server administrator notices that half of the paths are down. The administrator checks the ONTAP cluster and notices the servers are logging into only the first controller.

Which two steps should the administrator take to troubleshoot the issue? (Choose two.)

- ☐ A) Verify that the iSCSI data protocol has been enabled on the ports
- ☒ B) Verify that the LIFs are up
- ☐ C) Verify that each server has been rebooted
- ☒ D) Verify that the controller has not been taken over

What is required to use NetApp antivirus protection?

- ☒ A) Fpolicy
- ☐ B) Onboard key manager
- ☐ C) Intercluster LIF
- ☐ D) Scanner pool

What NetApp tool collects data from ONTAP AutoSupport to report health, performance, capacity and efficiency?

- ☐ A) NetApp Harvest
- ☐ B) Active IQ Unified Manager
- ☒ C) Active IQ Digital Advisor
- ☐ D) ONTAP System Manager

A customer wants to migrate data from a third-party array to a FAS.

Which two methods should the customer use? (Choose two.)

- ☒ A) FLI
- ☐ B) SM-S
- ☐ C) XDP
- ☒ D) XCP