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NS0-161

NetApp Certified Data Administrator, ONTAP

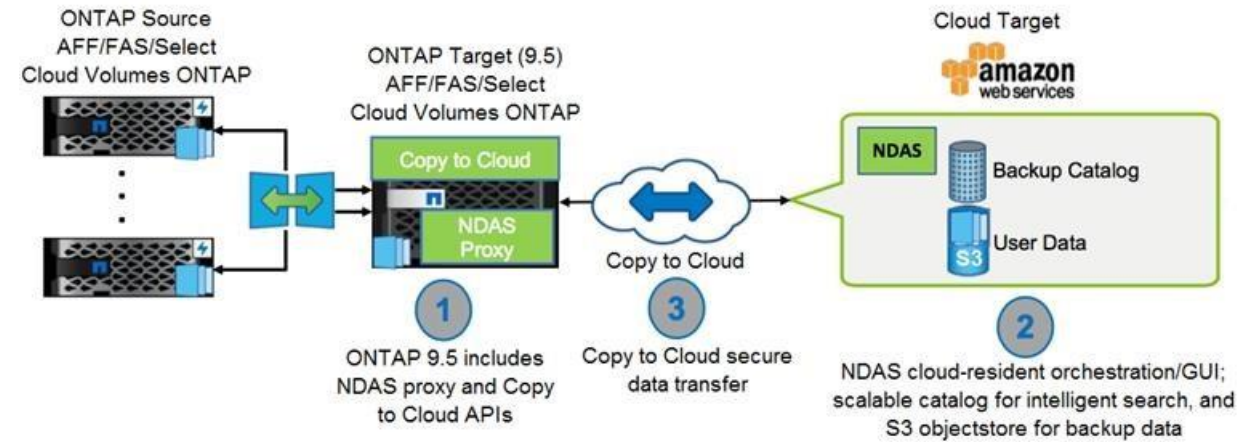


Version 1.0

Exam A

QUESTION 1

Click the Exhibit button.



Referring to the exhibit, which LIF role is required to copy to cloud with this NetApp Data Availability Services (NDAS) solution? (Choose the best answer.)

- A. node management
- B. cluster
- C. data
- D. intercluster

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 2** Which two components are required for committing data to a WORM volume? (Choose two.)

- A. You must license SnapLock.
- B. You must create a SnapLock volume.
- C. You must create a SnapLock SVM.
- D. You must create a SnapLock Aggregate.

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.pow-arch-con%2FGUID-ABFD860B-BBC5-4F0A-A83F-0942E4C214AA.html>

QUESTION 3

You are the administrator of your company's ONTAP 9.7 storage system. Your system hosted CIFS shares in your Active Directory environment for several years without any problems. Suddenly users report to you that they can no longer access their CIFS shares.

What is the reason for this problem? (Choose the best answer.)

- A. The CIFS standard license expired.
- B. The user account used to join your SMB server to your Active Directory expired.
- C. The WINS servers are unreachable.
- D. The NTP servers are unreachable.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 4** You are setting up replication between two clusters.

In this scenario, which two components are required to set up the cluster peering? (Choose two.)

- A. DNS service on each cluster.
- B. An intercluster LIF on only the epsilon node.
- C. ICMP service between clusters.
- D. An intercluster LIF on every node.

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://thinksystem.lenovofiles.com/storage/help/topic/ontap\\_cluster\\_peering\\_express\\_guide/M\\_27021470-BC22-4640-923C-8BD12CE66360\\_.pdf](https://thinksystem.lenovofiles.com/storage/help/topic/ontap_cluster_peering_express_guide/M_27021470-BC22-4640-923C-8BD12CE66360_.pdf)

**QUESTION 5** Your company requires that all data must be encrypted in flight to prevent data from falling into the wrong hands.

What are two ways to accomplish this task? (Choose two.)

- A. Ensure that SnapMirror compression is enabled in all SnapMirror relationships.
- B. Modify your cluster peering relationships to support cluster peering encryption.
- C. Enable Multi-Factor Authentication (MFA) for your SnapMirror relationships.
- D. Ensure that all intercluster replication traffic is done through a VPN tunnel.



**Correct Answer:** BC

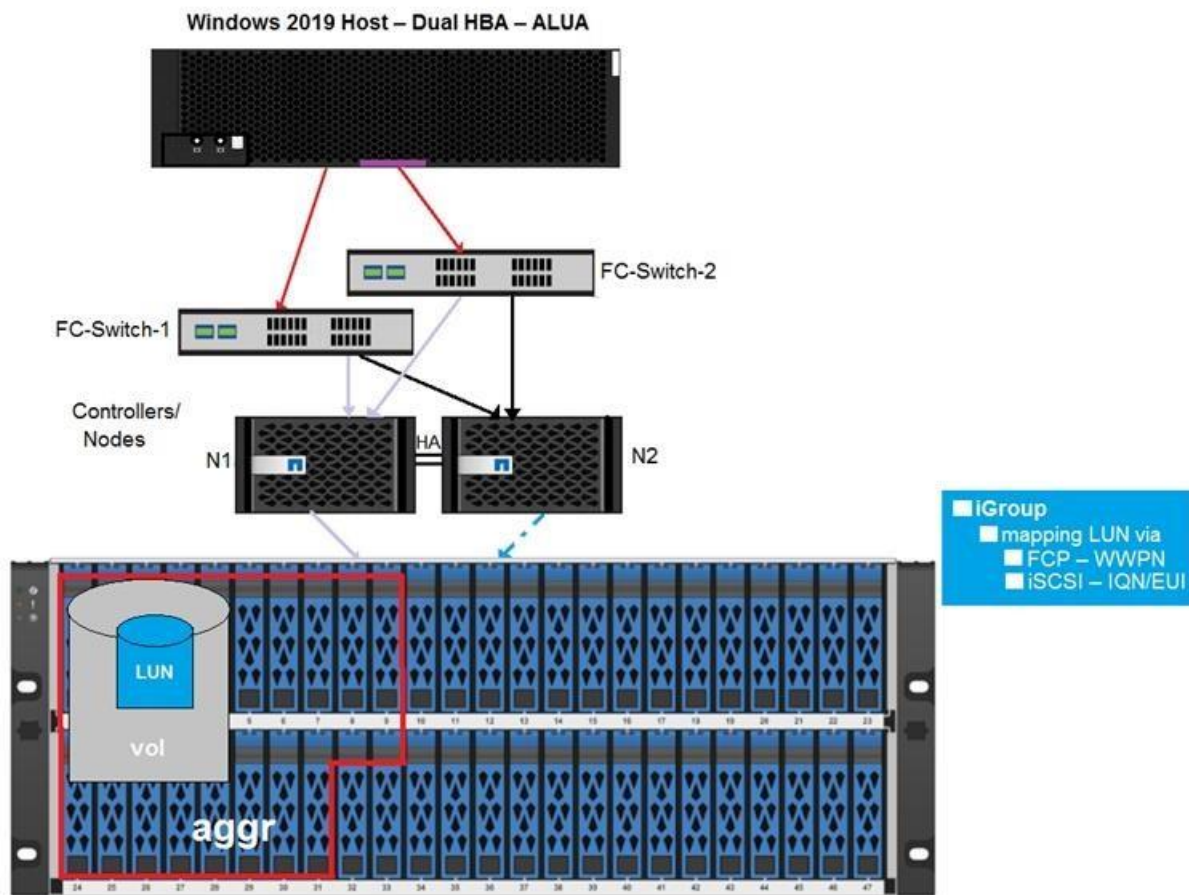
**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 6**

Click the Exhibit button.



The exhibit shows a Windows 2019 server with two FC HBAs using ALUA.

How many paths to LUN1 are active/optimized? (Choose the best answer.)

- A. 8
- B. 2
- C. 1
- D. 4

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 7** What is the default RAID policy for aggregates created with 10 TB disk drives? (Choose the best answer.)

- A. RAID4
- B. RAID-DP
- C. RAID0
- D. RAID-TEC

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.netapp.com/ontap-9/topic/com.netapp.doc.dot-cm-psmg/GUID-2808F15F-6057-4E43-9407-5B3CA274E6C5.html> **QUESTION 8**

Your customer has an NTFS volume that they want to access over both SMB and NFS. The client explains that SMB access works fine, but the clients are unable to NFS mount the volume. What are three reasons that would cause this issue? (Choose three.)

- A. There is no export-policy rule for the NFS clients.
- B. The NSF server is not configured.
- C. Multi-protocol is not licensed on the cluster.
- D. The volume security style must be changed to UNIX.
- E. The LIF data protocol does not allow NFS.

**Correct Answer:** ABD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.netapp.com/ontap-9/topic/com.netapp.doc.exp-multip-cg/GUID-22C99AFB-C64C-4E99-8DD0-8F705BC803F8.html>

**QUESTION 9**

You want to improve the write performance of NL-SAS volumes serving data on your ONTAP. You also want to keep the performance consistent during a possible controller failover.

In this scenario, which feature do you use? (Choose the best answer.)

- A. Flash Cache
- B. Flash Pool
- C. FlexCacheD. FabricPool

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 10**

You created a new SVM with two NFS data volumes. You have a Linux host on the same subnet as the SVM that is able to NFS mount, however a Linux host on a different subnet is not able to NFS mount. You confirmed that the export policy rules are correct.

In this scenario, which configuration will solve the mount failure? (Choose the best answer.)

- A. The NFS server is not configured on the SVM.
- B. NTP is not configured on the SVM.
- C. NFS auditing is not enabled on the SVM.
- D. The SVM default network route is missing.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 11**

Click the Exhibit button.

Filesystem	kbytes	used	avail	capacity	Mounted on
/vol/netapp_n01/	347277960	39072700	308205260	11%	/vol/netapp_n01/
/vol/netapp_n01/.snapshot	18277784	14637544	14637544	20%	/vol/netapp_n01/.snapshot
/vol/netapp_esx/	996148	1112	995036	0%	/vol/netapp_esx/
/vol/netapp_esx/.snapshot	52428	18252	34176	35%	/vol/netapp_esx/.snapshot
/vol/netapp_lnx_m1/	996148	10808	985340	1%	/vol/netapp_lnx_m1/
/vol/netapp_lnx_m1/.snapshot	0	0	0	0%	/vol/netapp_lnx_m1/.snapshot
/vol/netapp_esx_m1/	996148	844	995304	0%	/vol/netapp_esx_m1/
/vol/netapp_esx_m1/.snapshot	52428	26348	26080	50%	

Referring to the exhibit, which volume has a snap reserve value set to zero (0)? (Choose the best answer.)

- A. netapp\_esx\_m1
- B. netapp\_esx
- C. netapp\_lnx\_m1
- D. netapp\_n01

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 12

Click the Exhibit button.

```
cluster1::> qos adaptive-policy-group show -policy-group adaptive_qos

Name: adaptive_qos
Vserver: svm1
Uuid: 09ab72bc-3653-11ea-9e81-0050569dce56
ID: 3782
Expected IOPS: 2048 IOPS/TB
Peak IOPS: 4096 IOPS/TB
Absolute Minimum IOPS: 500 IOPS
Expected IOPS Allocation: used-space
Peak IOPS Allocation: allocated-space
Block Size: ANY
Number of Workloads: 0

cluster1::> vol show -volume vol01 -fields qos-adaptive-policy-group, size, used
vserver   volume   size      used      qos-adaptive-policy-group
-----
svm1      vol01    2000GB    500GB     adaptive_qos
```



You have an ONTAP 9.7 cluster. You increased the size of the volume to 3 TB, but the IOPS did not increase as expected.

What are the expected IOPS for the volume after the change? (Choose the best answer)

- A. 2048
- B. 6144
- C. 1024
- D. 4096

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://kb.netapp.com/Advice\\_and\\_Troubleshooting/Data\\_Storage\\_Software/ONTAP\\_OS/What\\_is\\_Adaptive\\_QoS\\_and\\_how\\_does\\_it\\_work%3F](https://kb.netapp.com/Advice_and_Troubleshooting/Data_Storage_Software/ONTAP_OS/What_is_Adaptive_QoS_and_how_does_it_work%3F)



### QUESTION 13

Click the Exhibit button.

```

alphanal1::> vlan show -node alphanal-01 -vlan-name e0c-1

Node: alphanal-01
VLAN Name: e0c-1
Associated Network Port: e0c
Network Switch VLAN Identifier: 1
MAC address: 02:a0:98:76:e5:da

alphanal1::>net int show -vserver lab-fs1
(network interface show)

```

Vserver	Logical Interface	Status Admin/Oper	Network Address/Mask	Current Node	Current Port	Is Home
lab-fs1	lab-fs1_lif1	up/up	10.1.100.199/24	alphanal-01	e0c-1	true

```

alphanal1::> net route show -vserver lab-fs1
(network route show)
There are no entries matching your query.

alphanal1::> network ping -vserver lab-fs1 -lif lab-fs1_lif1 -destination 10.1.100.1
no answer from 10.1.100.1

alphanal1::> network ping -vserver lab-fs1 -lif lab-fs1_lif1 -destination 10.1.100.2
no answer from 10.1.100.2

```

You are configuring a NetApp cluster to communicate on VLAN 1. However, the new LIF is unable to communicate with any host in the VLAN. The network administrator has configured the switch port as an access (untagged) port on VLAN 1 and says that the VLAN is non-routed.

Referring to the exhibit, what would you do to troubleshoot this problem? (Choose the best answer.)



- A. Verify that there is not IP address conflict on the network.
- B. Reconfigure the LIF to be on port e0c.
- C. Add a default gateway.
- D. Verify that the network cabling is working properly.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

### QUESTION 14

Node A has taken over Node B. You solved the issue that caused the takeover and are now ready to resume normal operation. After

initiating the `storage failover giveback` command, how are the aggregates given back? (Choose the best answer.)

- A. CFO aggregates are automatically given back, SFO aggregates must be manually given back.
- B. CFO aggregates and SFO aggregates are automatically given back.
- C. The root aggregate is automatically given back, CFO and SFO aggregates must be manually given back.
- D. SFO aggregates are automatically given back, CFO aggregates must be manually given back.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: [https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-cmpr-960%2Fstorage\\_failover\\_giveback.html](https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-cmpr-960%2Fstorage_failover_giveback.html)

**QUESTION 15** You are asked to delete an SVM that was used for CIFS.

Which two steps must be completed prior to completing this task? (Choose two.)

- A. Delete all LIFs from all SVMs.
- B. Stop the SVM.
- C. Delete all data volumes in the SVM.
- D. Delete the CIFS license.

**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.onc-sm-help-900%2FGUID-1286A6CD-2981-444F-97F6-65D65A00D758.html>

**QUESTION 16** You want to create a new SVM for serving NFS data using the Storage Virtual Machine (SVM) Setup wizard.

In this scenario, which object is created automatically during the setup process? (Choose the best answer.)

- A. a data volume named after the SVM with the suffix `_nfs_vol1`
- B. a data aggregate named after the SVM with the suffix `_nfs_aggr1`
- C. a data LIF named after the SVM with the suffix `_nfs_lif`
- D. an export policy named after the SVM with the suffix `_nfs_exp1`

**Correct Answer:** C

**Section:** (none)

**Explanation**



**Explanation/Reference:**

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.exp-nfs-vaai%2FGUID-363E3FA6-DE29-4578-9F45-4D23A6E1E53F.html>

**QUESTION 17**

You are asked to deploy a two-node ONTAP Select system. The physical hardware is located in two different locations. You must ensure high availability and automated switchover.

Which two steps would you take to satisfy this requirement? (Choose two.)

- A. Ensure that the ONTAP Select Deploy VM resides at a third location other than the two datacenters.
- B. Use ONTAP Select Deploy to install the nodes on the physical hardware.
- C. Ensure that the SyncMirror license is installed on the cluster.
- D. Use Active IQ Unified Manager to provide a quorum for the two nodes.

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 18** Which two protocols does ALUA support on an ONTAP cluster? (Choose two.)

- A. iSCSI
- B. NVMe
- C. FCP
- D. NFS



**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://library.netapp.com/ecmdocs/ECMP1204463/html/GUID-D7570D36-76FF-4923-8ECC-525AF435C2D6.html>

#### QUESTION 19

Click the Exhibit button.

Default policy group	Expected IOPS/TB	Peak IOPS/TB	Absolute Min IOPS
extreme	6,144	12,288	1000
performance	2,048	4,096	500
value	128	512	75

The exhibit displays the values for the default adaptive QoS policy. An administrator assigns the Value policy to a 1 TB volume. Over time, the volume expands to 3 TB.

What is the peak IOPS for the volume, both before and after the expansion? (Choose the best answer.)

- A. 512 IOPS and 512 IOPS
- B. 512 IOPS and 1536 IOPS
- C. 512 IOPS and 12288 IOPS
- D. 75 IOPS and 512 IOPS

**Correct Answer:** C

**Section:** (none)





**Explanation**

**Explanation/Reference:**

Reference: <http://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.pow-perf-mon%2FGUID-B144F39A-2E14-4048-91CA-D8080C50F70D.html>

#### QUESTION 20

Click the Exhibit button.

FC Ports				
Node	2a	2b	2c	2d
A800_1				
	32 Gb/s	32 Gb/s	32 Gb/s	32 Gb/s
WWPN	50:0a:09:81:80:71:50:b2	50:0a:09:82:80:71:50:b2	50:0a:09:83:80:71:50:b2	50:0a:09:84:80:71:50:b2
Network Interface	6	2	1	0
Data Link Rate	32 Gb/s	32 Gb/s	32 Gb/s	32 Gb/s
Port Address	a0000	a0100	a0200	a0300
Protocol	FC, NVMe	FC, NVMe	FC, NVMe	FC, NVMe

A customer has an issue with performance on an NVMe solution. The SVM is using all four ports shown in the exhibit.

In this scenario, how would the customer improve the host performance? (Choose the best answer.)

- A. Change the SFP+ in the controllers from 32 Gbps to 64 Gbps.
- B. Move all of the network interfaces to port 2a.

- C. Move some of the network interfaces from 2a to 2c and 2d.
- D. Remove support of the FC protocol and only use NVMe.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 21** You have a FlexClone parent volume with several child volumes.

In this scenario, which statement is true when you move the FlexClone parent volume to another aggregate? (Choose the best answer.)

- A. All FlexClone child volumes are also moved.
- B. All FlexClone child volumes are split and are no longer FlexClone volumes.
- C. The volumes move operation fails.
- D. A temporary FlexClone parent remains on the original aggregate.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 22** Which two resources are managed by an SVM administrator? (Choose two.)

- A. disks
- B. aggregates
- C. Snapshot copies
- D. LUNs

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://thinksystem.lenovofiles.com/storage/help/index.jsp?topic=%2Fcluster\\_management\\_using\\_thinksystem\\_storage\\_manager\\_for\\_dm\\_series\\_9-6%2F1A0349D6-AB43-4D05-9413-EFBB89B847EB\\_.html](https://thinksystem.lenovofiles.com/storage/help/index.jsp?topic=%2Fcluster_management_using_thinksystem_storage_manager_for_dm_series_9-6%2F1A0349D6-AB43-4D05-9413-EFBB89B847EB_.html)

**QUESTION 23** You want to prevent a single file from filling up a single constituent in a FlexGroup.

Which FlexGroup feature in ONTAP 9.7 will accomplish this task? (Choose the best answer.)

- A. Flash Pool
- B. fractional reserve
- C. Snapshot autodelete
- D. elastic sizing

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.netapp.com/pdf.html?item=/media/7337-tr4557pdf.pdf> (30)



**QUESTION 24** What are three types of licenses available for ONTAP?

(Choose three.)

- A. standard
- B. evaluation
- C. system
- D. site
- E. field

**Correct Answer:** ABD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.ont-s-m-help-930%2FGUID-28C78952-A5CC-40BE-9F30-7057B4045CB6.html>

**QUESTION 25**

You currently have an 8-node cluster and want to perform a rolling upgrade to a newer version of ONTAP to solve security issues reported in the Active IQ Web site. In

this scenario, which two steps should you validate before you perform the upgrade? (Choose two.)

- A. Run Active IQ Config Advisor.
- B. Validate Nodes with Hardware Universe.
- C. Validate Nodes with Active IQ Unified Manager.
- D. Run Upgrade Advisor Report.

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 26** Which three steps are required to serve NFS exports from your ONTAP system?

(Choose three.)

- A. You must create an export policy rule.
- B. You must license CIFS.
- C. You must create an SMB share.
- D. You must license NFS.
- E. You must have provisioned a volume to export.

**Correct Answer:** ABD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.exp-nfsv3-cg%2FGUID-A9424109-8286-4053-BBA9-3E542A73080A.html>

**QUESTION 27**

Click the Exhibit button.

## Network Interfaces

Interface Name	Storage Virtual Machine (SYM)	IP Address/WWPN	Current Port
svm_sjbtest_fc_data_fcp_lif_54	svm_sjbtest_fc	20:06:d0:39:ea:05:03:a3	tme-a700-01:2a
svm_sjbtest_fc_data_fcp_lif_67	svm_sjbtest_fc	20:07:d0:39:ea:05:03:a3	tme-a700-01:2b
svm_sjbtest_fc_data_fcp_lif_701	svm_sjbtest_fc	20:09:d0:39:ea:05:03:a3	tme-a700-02:2b
svm_sjbtest_fc_data_fcp_lif_993	svm_sjbtest_fc	20:08:d0:39:ea:05:03:a3	tme-a700-02:2a

## FC/FCoE and NVMe Adapters

WWNN	Node Name	Slot	Data Protocols	WWPN
50:0a:09:80:80:d2:c3:b8	tme-a700-01	2a	fcp,fc_nvme	50:0a:09:81:80:d2:c3:b8
50:0a:09:80:80:d2:c3:b8	tme-a700-01	2b	fcp,fc_nvme	50:0a:09:82:80:d2:c3:b8
50:0a:09:80:80:42:c2:b9	tme-a700-02	2a	fcp,fc_nvme	50:0a:09:81:80:42:c2:b9
50:0a:09:80:80:42:c2:b9	tme-a700-02	2b	fcp,fc_nvme	50:0a:09:81:80:42:c2:b9

A customer has zoned switches to a host, but the host cannot see the LUNs.

Referring to the exhibit, what needs to be done to make the LUNs visible to the host? (Choose the best answer.)

- A. Zoning should be changed to use the 20:06:d0:39:ea:05:03:a3 and 20:08:d0:39:ea:05:03:a3 WWPNs.
- B. Ports on time-a700 nodes 1 and 2 should have the `fc_nvme` protocol removed.
- C. Zoning should be changed to use the 50:0a:09:81:80:d2:c3:b8 and 50:0a:09:81:42:c2:b9 WWPNs.
- D. The customer should remove the switches and directly connect the host to the controller ports.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**



## QUESTION 28

Click the Exhibit button.

Create Share

Folder To Share: /sql01\_ca

Browse...

Share Name: sql01\_ca

Comment:

☒ Enable continuous availability for Hyper-V and SQL

Select this option if the share contains Hyper-V VHDs over SMB

☐ Encrypt data while accessing this share

Encrypts data using SMB 3.0 to prevent unauthorized file access on this share.

Create

Cancel

You have a mission-critical SQL application that uses a single SMB 3.1.1 share to host its database. The storage node that is hosting the SMB share sql01\_ca for the SQL database experiences a hardware failure and fails over to the surviving node.

Referring to the exhibit, what is the state of the SMB share for the SQL database during the failover? (Choose the best answer.)

- A. The SMB share will be available, but all data is corrupted.

- B. The SMB share will be unavailable until node failback.
- C. The SMB share will be available, and all data is accessible.
- D. The SMB share is unavailable due to its stateful nature.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 29** Which two SVM types does a cluster contain after cluster creation?

(Choose two.)

- A. dp-destination
- B. peer
- C. data
- D. admin

**Correct Answer:** CD

**Section:** (none)

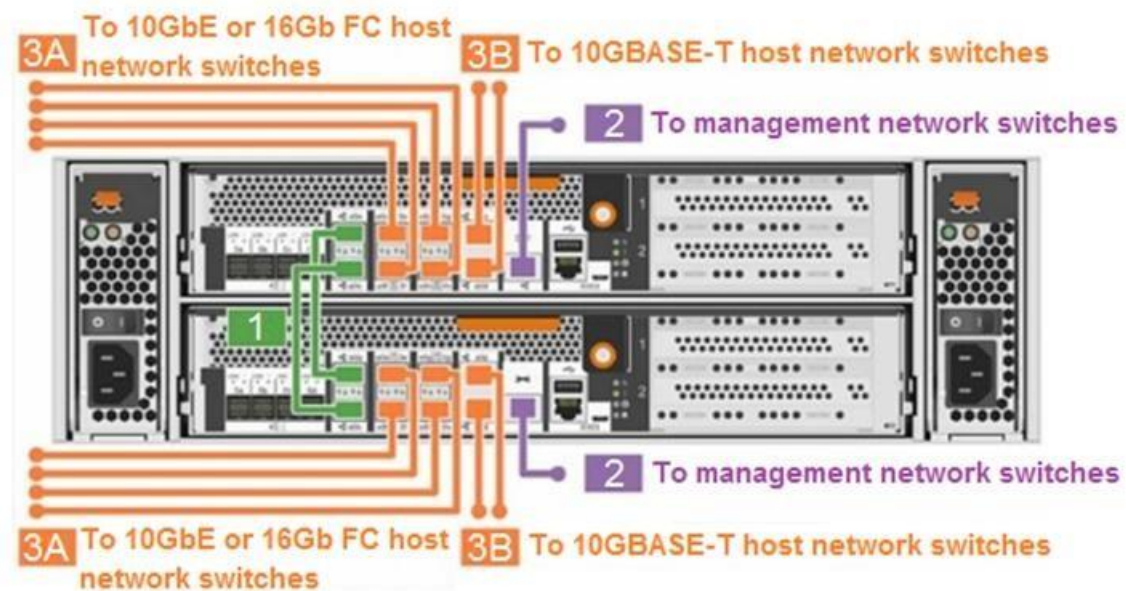
**Explanation**

**Explanation/Reference:**

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-sag%2FGUID-D860985F-11BF-4589-9457-E0FD03130B1F.html>

**QUESTION 30**

Click the Exhibit button.



You have a 2-node cluster cabled as shown in the exhibit. You want to convert the cluster to a switched cluster.

Which two statements are true in this scenario? (Choose two.)

- A. The conversion is disruptive.
- B. The conversion is non-disruptive.
- C. After the conversion, traffic to the intercluster LIFs will flow through the cluster switch.
- D. After the conversion, traffic to the cluster LIFs will flow through the cluster switch.

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 31** You are asked to investigate possible solutions for increasing the performance of a read-intensive, NFSv3 workload in your FAS environment.

Which two NetApp technologies would satisfy the requirement? (Choose two.)

- A. Flash Pool
- B. FabricPool
- C. FlexCache
- D. FlexVol

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.netapp.com/media/10720-tr-4067.pdf>

**QUESTION 32** You are asked to create a new SVM to serve SMB data using Active Directory authentication.

Which two requirements must be satisfied prior to serving data? (Choose two.)

- A. DNS must be enabled and configured correctly.
- B. The CIFS license must be installed on the storage system.
- C. An intercluster LIF must be created for serving SMB data.
- D. An administrative user must be created for the SMB SVM.

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 33**

Click the Exhibit button.





```
cluster1::> volume efficiency config -volume vol1, vol2
```

```
Vserver:          SVM1
Volume            vol1
Schedule:         -
Policy:           files_new
Compression       true
Inline Compression: true
Inline Dedupe:    true
Data Compaction:  true
Cross Volume Inline Deduplication: false
```

```
Vserver:          SVM1
Volume            vol2
Schedule:         -
Policy:           auto
Compression       true
Inline Compression: true
Inline Dedupe:    true
Data Compaction:  true
Cross Volume Inline Deduplication: true
```

The volumes shown in the exhibit, vol1 and vol2, are in the same AFF aggregate. You write the same large 100 GB file to both vol1 and vol2. Based on the volume efficiency settings, which action occurs? (Choose the best answer.)



- A. The files are deduplicated at the volume level.
- B. The files are deduplicated at the SVM level by SVM1.
- C. The files are deduplicated at the aggregate level.
- D. The files are queued for a background deduplication schedule.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 34** You created a thick-provisioned NAS volume. You receive an alert that the snapshot reserve is full.

In this scenario, which two actions will solve this problem? (Choose two.)

- A. Increase the fractional reserve.
- B. Increase the snapshot reserve percentage.
- C. Delete Snapshot copies.
- D. Decrease the volume size.

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-vsmg%2FGUID-2F5C9474-FFE9-4E59-84DB-1B9D6D134688.html> **QUESTION 35**

Click the Exhibit button.

```
cluster1::> network interface service-policy show
```

Vserver	Policy	Service: Allowed Addresses
-----	-----	-----
cluster1	default-intercluster	intercluster-core: 10.10.1.0/8 management-https: 0.0.0.0/0
	default-management	management-core: 0.0.0.0/0 management-autosupport: 0.0.0.0/0 management-ssh: 192.168.1.0/24 management-https: 192.168.1.0/24
	default-route-announce	management-bgp: 0.0.0.0/0
Cluster		
	default-cluster	cluster-core: 0.0.0.0/0
SVM1		
	default-data-blocks	data-core: 0.0.0.0/0 data-iscsi: 0.0.0.0/0
	default-data-files	data-core: 0.0.0.0/0 data-nfs: 0.0.0.0/0 data-cifs: 0.0.0.0/0 data-flexcache: 0.0.0.0/0
	default-management	data-core: 0.0.0.0/0 management-ssh: 192.168.1.0/24 management-https: 192.168.1.0/24
7 entries were displayed		



Your ONTAP 9.7 cluster failed a security audit on the management control plane. Your network security team asked you to allow only cluster1 and SVM1 management on the 192.168.1.0/24 subnet.

In this scenario, where do you apply the `default-management` service policy shown in the exhibit? (Choose the best answer.)

- A. LIF
- B. DNS
- C. port
- D. firewall

**Correct Answer:** A

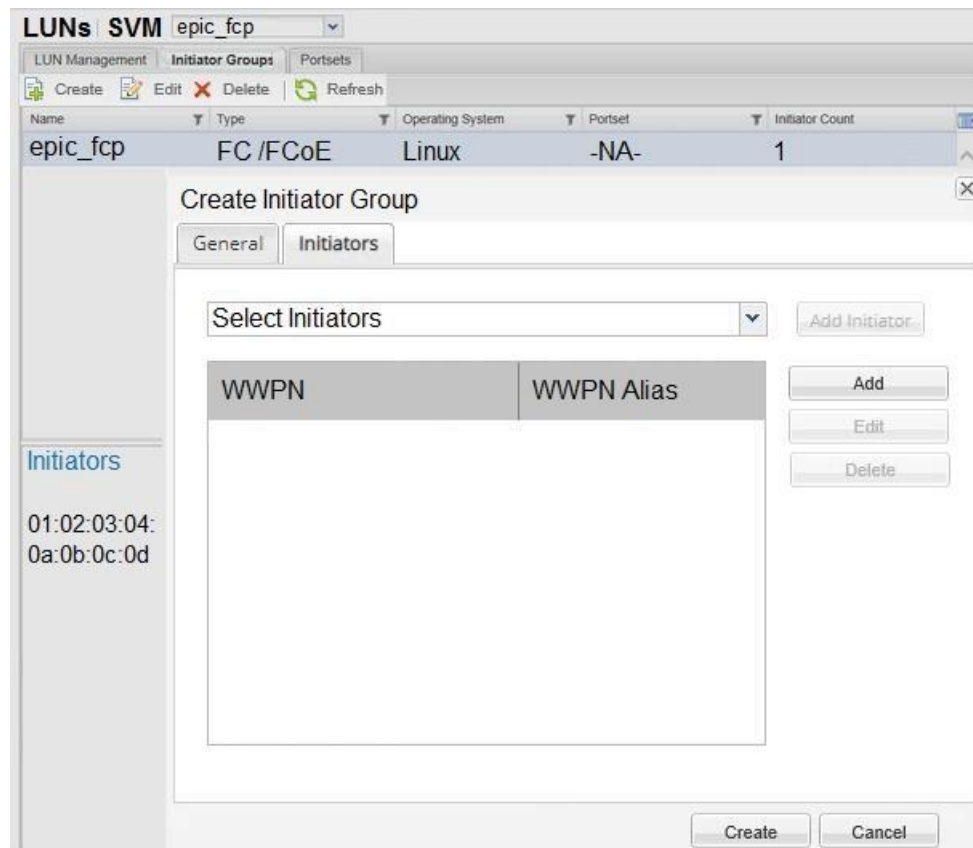
**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 36

Click the Exhibit button.



Referring to the exhibit, what are two reasons why no initiators are displayed in the initiators' igrup screen? (Choose two.)

- A. Zoning on the switches has been done incorrectly.
- B. The server has not been powered up.
- C. ALUA has not been enabled on the NetApp controllers.
- D. SLM has not been enabled.



**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 37

Click the Exhibit button.

```
clus01::> fcp interface show
(vserver fcp interface show)
-----
Vserver   Logical  Status      WWPN          Current  Current  Is
Interface Admin/Oper                                Node     Port     Home
-----
svm01     fc-1     up/up       20:01:00:a0:98:87:b6:ce clus01-01 0c   true
svm01     fc-2     up/up       20:02:00:a0:98:87:b6:ce clus01-02 0d   true
2 entries were displayed.

clus01::> fcp adapter show -fields fc-wwpn, node, fc-wwnn
(network fcp adapter show)
-----
node      adapter  fc-wwnn          fc-wwpn
-----
clus01-01 0c       50:0a:09:80:80:31:06:da 50:0a:09:81:80:31:06:da
clus01-02 0d       50:0a:09:80:80:11:0d:bb 50:0a:09:81:80:11:0d:bb
2 entries were displayed.

clus01::>
```

You are planning to present storage to your servers from your AFF system using FC protocol. You have a pair of FC switches to ensure connectivity and you have decided to use WWPN zoning.

Referring to the exhibit, which two WWPNs do you use for your configuration? (Choose two.)

- A. fc-2 WWPN
- B. fc-1 WWPN
- C. 0d WWPN
- D. 0c WWPN

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 38

You currently have a Cloud Volumes ONTAP instance running and need to have read/write access to a volume on an on-premises ONTAP cluster.

In this scenario, which feature do you use? (Choose the best answer.)

- A. Flash Pool
- B. FlexCache
- C. SnapMirror
- D. Flash Cache

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 39 What are three supported fabric-attached MetroCluster solutions?

(Choose three.)

- A. a four-node solution
- B. a two-node solution
- C. an eight-node solution

- D. a two-node direct-attached solution
- E. a two-node bridge-attached solution

**Correct Answer:** ABC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.netapp.com/pdf.html?item=/media/13482-tr4375pdf.pdf>

**QUESTION 40** You are configuring an ONTAP cluster to use NVMe/FC. In this scenario, which two statements are true?  
(Choose two.)

- A. Create NVMe LIFs on FC target ports.
- B. Create an SVM with both NVMe and FC protocols enabled.
- C. Create an SVM with NVMe enabled.
- D. Create and start the FC service.

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.netapp.com/pdf.html?item=/media/10681-tr4684pdf.pdf>

**QUESTION 41** You have a mix of FAS8200s and AFF A700s in your environment.

In this scenario, which two statements are true? (Choose two.)

- A. Inline data compaction is disabled by default on FAS systems.
- B. Inline aggregate-level deduplication is enabled by default on FAS systems.
- C. Inline data compaction is disabled by default on AFF systems.
- D. Inline aggregate-level deduplication is enabled by default on AFF systems.

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-vsmg%2FGUID-9C88C1A6-990A-4826-83F8-0C8EAD6C3613.html>

**QUESTION 42** A customer uses Active IQ Unified Manager to configure SnapMirror relationships.

In this scenario, which statement is true? (Choose the best answer.)

- A. Active IQ Unified Manager and OnCommand WFA have licensing dependencies.
- B. Active IQ Unified Manager uses the OnCommand WFA API.
- C. Automation works directly through Active IQ Unified Manager and later versions.
- D. Active IQ Unified Manager and OnCommand WFA cannot be installed on or work with the same cluster.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**



### QUESTION 43

Click the Exhibit button.

```
cluster1::>vserver services ndmp show
```

type		
SVM1	true	challenge

```
cluster1::> system services ndmp show
```

Node	Enabled	Clear Text	User ID
cluster1-01	false	true	root

```
cluster1::>system services ndmp node-scope-mode status
```

NDMP node-scope-mode is disabled.

```
cluster1::> network interface show
```

Vserver	Logical Interface	Status Admin/Oper	Network Address/Mask	Current Node	Current Port	Is Home
SVM1						
	data_lif1	up/up	192.168.150.250/24	cluster1-01	e0a	true
cluster						
	cluster_mgmt	up/up	192.168.150.240/24	cluster1-01	e0c	true
	cluster1-01_ic1	up/up	192.168.150.242/24	cluster1-01	e0d	true
	cluster1-01_mgmt1	up/up	192.168.150.241/24	cluster1-01	e0c	true

4 entries were displayed.

You are configuring your tape backup software to authenticate to your single-node cluster by using NDMP.

Referring to the exhibit, which LIF do you use to connect? (Choose the best answer.)

- A. cluster\_mgmt
- B. cluster1-01\_ic1
- C. cluster-01\_mgmt1
- D. data\_lif1

**Correct Answer: D**

**Section: (none)**





**Explanation**

**Explanation/Reference:**

### QUESTION 44

Click the Exhibit button.



FC Ports		
Node	2a	2b
^ tme-a700-01		
	32 Gb/s	32 Gb/s
WWPN	50:0a:09:81:80:d2:c3:b8	50:0a:09:82:80:d2:c3:b8
Network Interface	1	1
Data Link Rate	32 Gb/s	16 Gb/s
Port Address	b1200	a1200
Protocol	FC,NVMe	FC,NVMe
^ tme-a700-02		
	32 Gb/s	32 Gb/s
WWPN	50:0a:09:81:80:42:c2:b9	50:0a:09:82:80:42:c2:b9
Network Interface	1	1
Data Link Rate	32 Gb/s	16 Gb/s
Port Address	b1100	a1100

Referring to the exhibit, a customer is experiencing performance problems on an SVM supporting NVMe/FC. You review the physical FC ports that are connected into the 32 Gbps switches for cluster tme-a700.

In this scenario, what is causing the performance problems? (Choose the best answer.)

- A. Port 2a needs more network interfaces added to the physical port.
- B. Port 2b has a 16 Gbps SFP+ installed.
- C. Port 2a needs a 16 Gbps SFP+ installed.
- D. Port 2b has too many LIFs running across the physical port.



**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 45

You must enable remote authentication and grant a remote administrator either cluster admin or vsadmin access.

In this scenario, which three authentication types are supported for ONTAP 9.7? (Choose three.)

- A. CHAP
- B. AD
- C. SAML
- D. RADIUS
- E. LDAP

**Correct Answer:** BCE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.netapp.com/ontap-9/topic/com.netapp.doc.pow-adm-auth-rbac/Administrator%20authentication%20and%20RBAC.pdf> (5)

#### QUESTION 46

You have a new ONTAP 9.7 2-node AFF A300 cluster with 2x DS224C full shelves of 3.8 TB encrypted SSDs.

In this scenario, which statement matches the factory disk-ownership setting? (Choose the best answer.)

- A. All drives on shelf 1 are assigned to one node, and all drives on shelf 2 are assigned to the partner node.
- B. All even-numbered drives on each shelf are assigned to one node, and all odd-numbered drives on each shelf are assigned to the partner node.
- C. Disk ownership is not assigned by the factory.
- D. Drives 0-11 on each shelf are assigned to one node, and drives 12-23 on each shelf are assigned to the partner node.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 47** How many global namespaces are there in a 4-node ONTAP cluster that has a single SVM? (Choose the best answer.)

- A. 1
- B. 4
- C. 8
- D. 2

**Correct Answer:** A

**Section:** (none)

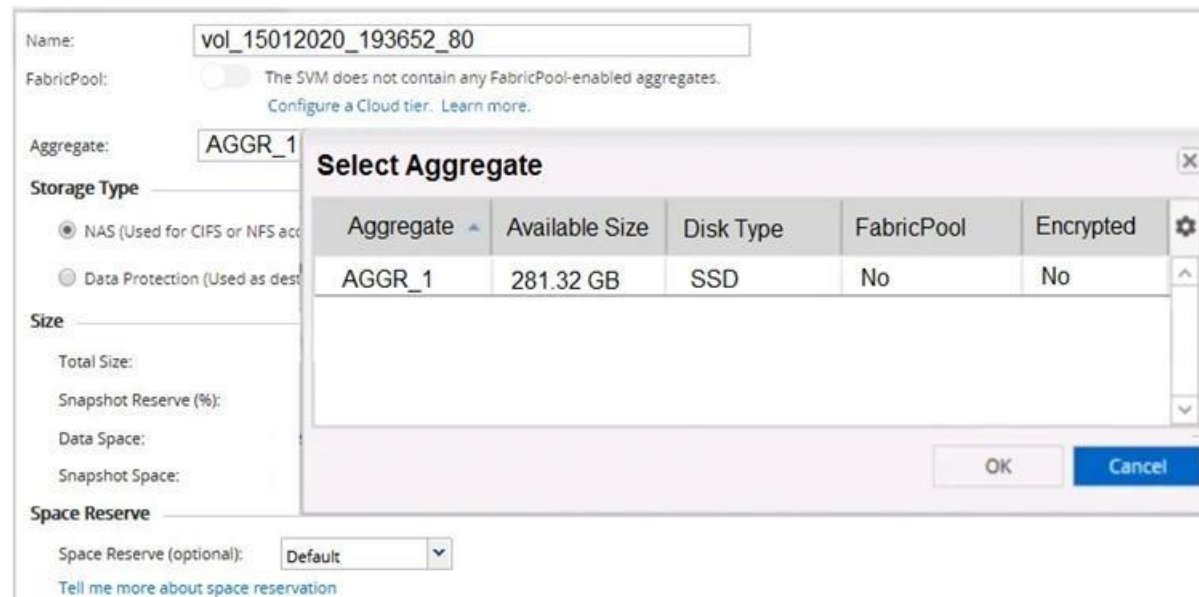
**Explanation**

**Explanation/Reference:**

Reference: <https://docs.netapp.com/ontap-9/topic/com.netapp.doc.dot-cm-concepts/GUID-78701FC2-2910-41FA-AEF4-9E6245030189.html>

**QUESTION 48**

Click the Exhibit button.

Aggregate	Available Size	Disk Type	FabricPool	Encrypted
AGGR_1	281.32 GB	SSD	No	No

Your manager asks you to create a new FlexVol on an aggregate called AGGR\_2. When you click “Create new FlexVol”, you are unable to select AGGR\_2 to create the new volume. Referring to the exhibit, which two SVM settings solve this problem? (Choose two.)

- A. Change the aggregate security style of AGGR\_2 to UNIX.
- B. Use the `volume move` option and reallocate the SVMs root volume to AGGR\_2.
- C. In the resource allocation tab, select the “Do not delegate volume creation” option.
- D. In the resource allocation tab, select the “Delegate volume creation” option and select AGGR\_2.

Correct Answer: BC  
Section: (none)  
Explanation

Explanation/Reference:

QUESTION 49

Click the Exhibit button.

Platform Configuration: AFF A300 Single Chassis HA pair				
Port Address ▲	Description	Max Data Rate	Port Icon	Port Type
0a	Serial-Attached SCSI	SAS: 6/12 Gbps	SAS	MiniSAS HD
0b	Serial-Attached SCSI	SAS: 6/12 Gbps	SAS	MiniSAS HD
0c	Serial-Attached SCSI	SAS: 6/12 Gbps	SAS	MiniSAS HD
0d	Serial-Attached SCSI	SAS: 6/12 Gbps	SAS	MiniSAS HD
e0a	Ethernet	Ethernet: 10 Gbps	Ethernet	SFP+
e0b	Ethernet	Ethernet: 10 Gbps	Ethernet	SFP+
e0c	Ethernet	Ethernet: 1/10 Gbps	Ethernet	RJ45
e0d	Ethernet	Ethernet: 1/10 Gbps	Ethernet	RJ45
e0/0e <sup>[1]</sup>	Unified Target Adapter 2	Ethernet: 1/10 Gbps FC: 4/8/16 Gbps	Ethernet/Fibre Channel	SFP+



You want to add shelves to an AFF A300 HA pair that currently has six DS224C shelves already connected. You are using the onboard SAS port only, and you want to keep the multipath high availability (MPHA) configuration.

Referring to the exhibit, what is the maximum number of additional shelves allowed to be added in this configuration? (Choose the best answer.)

- A. 2
- B. 10
- C. 6
- D. 4

Correct Answer: A  
Section: (none)  
Explanation

Explanation/Reference:

QUESTION 50

You want to use external tools to monitor your ONTAP cluster's performance metrics so that your operations team does not have to log in to the cluster. Which

three tools allow you to accomplish this task? (Choose three.)

- A. OnCommand Insight
- B. OnCommand Workflow Automation
- C. Active IQ Unified Manager
- D. ONTAP System Manager

E. Cloud Insights

**Correct Answer:** ACD

**Section:** (none)

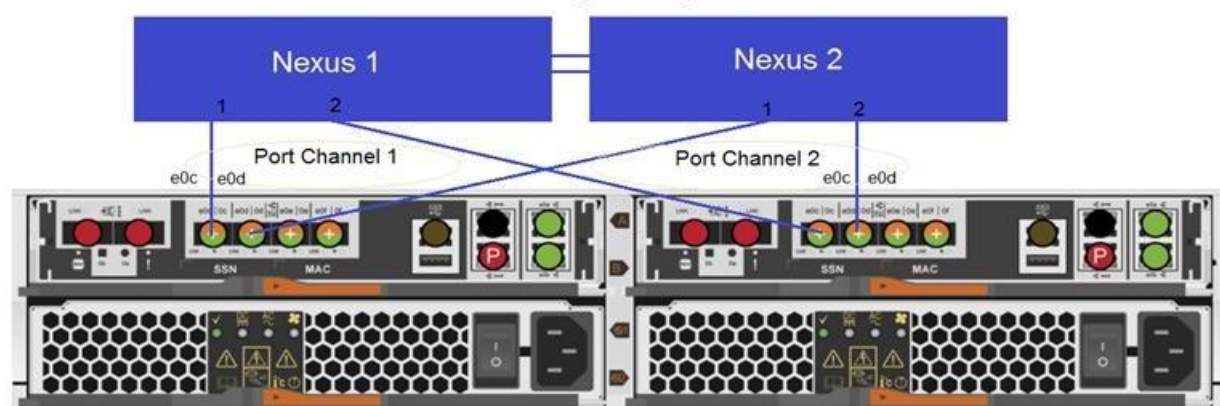
**Explanation**

**Explanation/Reference:**

# **QUESTION 51**

Click the Exhibit button.

**Correct Design Diagram**



**Current Connections**

```
cluster1::> network device-discovery show
```

Node/ Protocol	Local Port	Discovered Device	Interface	Platform
node1/cdp	e0c	Nexus1 (SSI142311PD)	tengigabitethernet1/1/1	N5K-C5010P-BF
	e0d	Nexus1 (SSI142311PD)	tengigabitethernet1/1/2	N5K-C5010P-BF
node2/cdp	e0c	Nexus2 (SSI142311KK)	tengigabitethernet2/1/2	N5K-C5010P-BF
	e0d	Nexus2 (SSI142311KK)	tengigabitethernet2/1/1	N5K-C5010P-BF

4 entries were displayed.

```
cluster1::> network port ifgrp show
```

Node	Port ifgrp	Distribution Function	MAC Address	Active Ports	Ports
node1	a0a	ip	b8:f8:7a:20:00	partial	e0c, e0d
node2	a0a	ip	07:26:60:02:00	partial	e0c, e0d

You configured LACP between a 2-node AFF 220 system and two Ethernet switches using multichassis Ether-channel for redundancy. You sent the network connection diagram in the exhibit to your network team to cable and configure the switch. You noticed partial connectivity on the AFF A220 for the interface groups.

Referring to the exhibit, which two statements are correct? (Choose two.)

- A. ONTAP does not have a multichassis Ether-channel feature.
- B. The network team forgot to verify the port channel members.
- C. 10 GbE ports are not supported with the AFF A220.
- D. The storage cabling to the switches is incorrect.

**Correct Answer:** AC

**Section:** (none)

**Explanation**

#### Explanation/Reference:

#### QUESTION 52

You are asked to separate replication and data traffic into their own individual VLANs. You created two new VLANs and need to create logical interfaces (LIFs). In

this scenario, what must you do before creating the LIFs? (Choose the best answer.)

- A. Create a firewall policy.
- B. Create an interface group.
- C. Create a network subnet.
- D. Create a broadcast domain.

**Correct Answer: B**

**Section: (none)**

**Explanation**

#### Explanation/Reference:

#### QUESTION 53

Click the Exhibit button.

```
cluster1::> volume show -vserver vs2 -is-constituent *
```

Vserver	Volume	Aggregate	State	Type	Size	Available	Used%
vs2	fg1	-	online	RW	200TB	76TB	62%
vs2	fg1_0001	aggr1	online	RW	25TB	10MB	99%
vs2	fg1_0002	aggr2	online	RW	25TB	12TB	52%
vs2	fg1_0003	aggr1	online	RW	25TB	10TB	60%
vs2	fg1_0004	aggr2	online	RW	25TB	11TB	60%
vs2	fg1_0005	aggr1	online	RW	25TB	10TB	56%
vs2	fg1_0006	aggr2	online	RW	25TB	12TB	52%
vs2	fg1_0007	aggr1	online	RW	25TB	10TB	60%
vs2	fg1_0008	aggr2	online	RW	25TB	11TB	56%



```
cluster1::> aggr show
```

Aggregate	Size	Available	Used%	State	#Vols	Nodes	RAID Status
aggr1	300TB	103.71TB	65%	online	30	cluster1-01	raid_dp, normal
aggr0_root	368.4GB	15.83GB	96%	online	1	cluster1-02	raid_dp, normal
aggr2	300TB	176.51TB	41%	online	25	cluster1-02	raid_dp, normal
aggr0_root	368.4GB	15.83GB	96%	online	1	cluster1-01	raid_dp, normal

4 entries were displayed

You have an ONTAP cluster that is running a FlexGroup that is serving SMB data out to various users. One of the users receives an error when trying to modify an existing file.

What is the cause of the problem? (Choose the best answer.)

- A. The FlexGroup is full
- B. The constituent is full
- C. The FlexGroup is offline
- D. The aggregate is full

**Correct Answer: B**

**Section: (none)**

**Explanation**

#### Explanation/Reference:

#### QUESTION 54

You have a FAS8200 serving a dataset with a high volume of random reads. The dataset is highly optimized by deduplication and compression.



In this scenario, which compression setting provides both high performance and storage efficiency? (Choose the best answer.)

- A. secondary compression
- B. compression disabled
- C. aggregate compression
- D. adaptive compression

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-vsmg%2FGUID-9C88C1A6-990A-4826-83F8-0C8EAD6C3613.html>

#### QUESTION 55

Your company is merging with another company. You are asked to set up your AFF A400 cluster to support two networks that have the same overlapping 192.168.1.0/24 subnet.

In this scenario, what must you create, to enable the same subnet with overlapping IPs on the same cluster? (Choose the best answer.)

- A. broadcast domain
- B. IPspace
- C. subnet
- D. failover group

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 56** Which two statements are true about epsilon?

(Choose two.)

- A. In a two-node cluster, each node holds epsilon.
- B. Epsilon is automatically assigned to the first node when the cluster is created.
- C. Epsilon is automatically assigned to the last node when the cluster is created.
- D. Epsilon is an extra fractional vote that enables quorum.

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://library.netapp.com/ecmdocs/ECMP1196798/html/GUID-EFE1DEF4-8B87-4C4A-8E4E-C6C79F760710.html#:~:text=Epsilon%20is%20automatically%20assigned%20to,a%20factor%20in%20determining%20quorum>

**QUESTION 57** What are three firewall policies?

(Choose three.)

- A. cluster
- B. node
- C. data
- D. mgmt
- E. intercluster

**Correct Answer:** ACE

**Section:** (none)

**Explanation**



**Explanation/Reference:**

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-nmg%2FGUID-09329781-2E57-49E5-B052-EC4D6FEBB41B.html>

**QUESTION 58**

When deploying NVMe/FC, what must be supported and enabled on the host to ensure proper multipathing? (Choose the best answer.)

- A. NVMe Qualified Names (NQN)
- B. Asynchronous Namespace Access (ANA)
- C. single initiator multiple target zoning
- D. Asymmetric Logical Unit Access (ALUA)

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.netapp.com/pdf.html?item=/media/10681-tr4684pdf.pdf>

**QUESTION 59** You are using NetApp Volume Encryption (NVE) on an AFF system.

In this scenario, which two key-management solutions are supported for NVE? (Choose two.)

- A. a KMIP server
- B. an SSH key manager
- C. the onboard key management service
- D. an XTS-AES-256 key manager

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.pow-nve%2FGUID-EAD13D8E-0219-45B6-A2C6-B25B76C9CA1A.html>

**QUESTION 60**

Your company has recently decided to stop using the Fibre Channel Protocol (FCP) in the data center. You are asked to decommission FCP and reuse any UTA2 ports to 10 GbE. Which two steps are involved in this task? (Choose two.)

- A. Reboot the nodes.
- B. Destroy any FC LIFs hosted on UTA2 ports.
- C. Remove the FCP license from all nodes in the cluster.
- D. License additional ports for 10 GbE connectivity.

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**