

# NS0-506<sup>Q&As</sup>

NetApp Certified Implementation Engineer - SAN, Clustered Data  
ONTAP

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### QUESTION 1

A Windows 2012 Server has a 1 GB thin-provisioned LUN in a 10 GB thin-provisioned volume. After copying a 500 MB file to the LUN, you observe the LUN using 500 MB of space in the volume. After deleting the 500 MB file, you observe the LUN is still using 500 MB of space in the volume.

Which two steps are required to reclaim the space? (Choose two.)

- A. Press Optimize in the Windows Defragment and Optimize Drives utility.
- B. Enable space-allocation on the LUN.
- C. Run TRIM on the host.
- D. Empty the Recycle Bin on the host.

Correct Answer: C

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### QUESTION 2

Exhibit

```
cl01::> net int show -vserver svm1 (network interface show) Logical Status Network Current Current Is Vserver Interface
Admin/Oper Address/Mask Node Port Home
```

```
svm1 fc_lif1 up/up 20:0b:00:a0:98:4e:ba:14 cl01-01 3a true fc_lif2 up/up 20:0c:00:a0:98:4e:ba:14 cl01-02 3a true lif1
up/up 172.16.21.31/24 cl01-01 a0a true
```

```
lif2 up/up 172.16.21.32/24 cl01-02 a0a true 4 entries were displayed. cl01::>
```

Referring to the exhibit, a customer needs to move LIF "fc\_lif1" to a new port.

Which three actions must be performed to accomplish this task? (Choose three.)

- A. Remove LIF from the existing portset.
- B. Quiesce all hosts accessing LUNs over the LIF.
- C. Take the LIF offline.
- D. Update the switch zone to include the new WWPN.
- E. Move the LIF to a new home port using the network interfacemodify command.

Correct Answer: CDE

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### QUESTION 3

A customer is experiencing slower than expected performance on a database connected to an iSCSI LUN. They are surprised that performance has decreased even though they have upgraded from a 1 GB to a 10 GB switch.

What are three causes for this problem? (Choose three.)

- A. Spanning Tree is incorrectly configured on the cluster nodes.
- B. There is a faulty cable or SFP in the data path.
- C. There is an MTU mismatch between the hosts, controllers, and switch.
- D. Flow control is incorrectly set on either the host or controllers.
- E. Routing is not set up between the iSCSI and cluster networks.

Correct Answer: ABC

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#### QUESTION 4

A customer has recently deployed a clustered Data ONTAP 8.3 system and is trying to mount LUNs to a Windows 2012 Server using the iSCSI protocol. They have enabled jumbo frames on their nodes as well as their Windows 2012 Server. Whenever they attempt to scan for a new LUNs, Disk Management times out and does not present any new storage.

What is causing the problem?

- A. Windows 2012 does not support jumbo frames with the iSCSI protocol.
- B. Clustered Data ONTAP 8.3 does not support the iSCSI protocol.
- C. They have jumbo frames enabled on the host and storage, but not the Ethernet switches.
- D. Clustered Data ONTAP 8.3 does not support jumbo frames with the iSCSI protocol.

Correct Answer: C

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#### QUESTION 5

Which two flags would you use to enable NetApp thin provisioning on a LUN? (Choose two.)

- A. -space-reserve enabled -space-allocation enabled
- B. -space-reserve enabled -space-allocation enabled
- C. -space-reserve disabled -space-allocation disabled
- D. -space-reserve disabled -space-allocation enabled

Correct Answer: AC

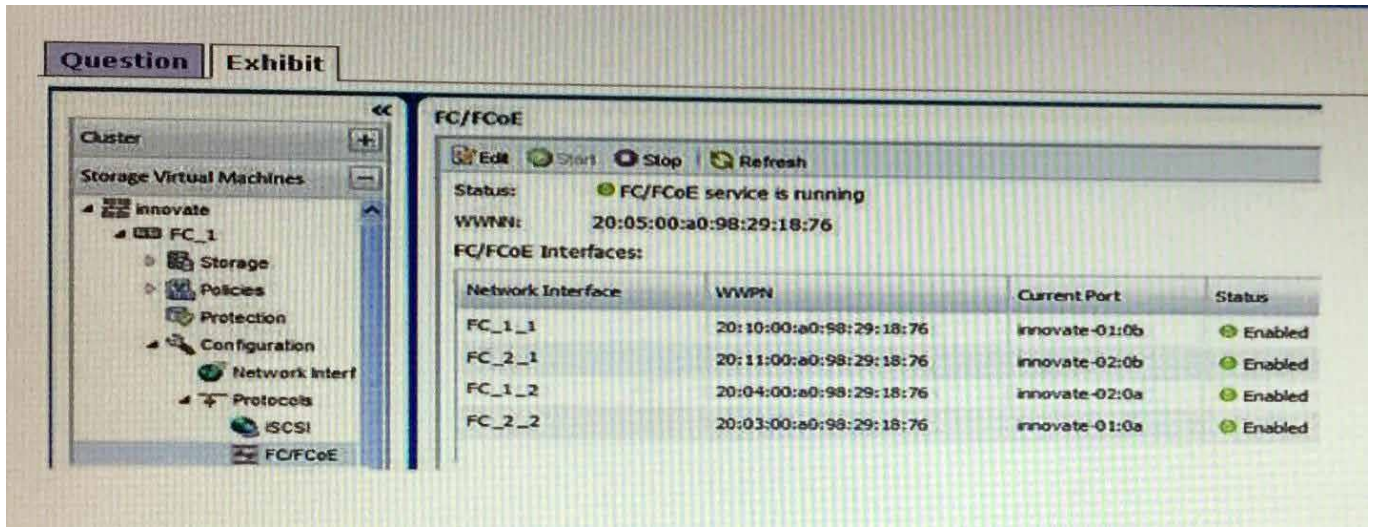
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#### QUESTION 6

Click the Exhibit button.

Referring to the exhibit, which entry is appropriate to add to a zone on the FC switch?

Exhibit:



- A. 20:05:00:a0:98:29:18:76
- B. 20:10:00:a0:98:29:18:76
- C. 20:14:00:a0:98:29:18:76
- D. 50:10:00:a0:98:29:18:76

Correct Answer: A

**QUESTION 7**

You are verifying multipathing from the host to the storage controller. Which three components should you verify? (Choose three.)

- A. Verify that all switch ports connected to the hosts and storage devices are online using the vendor's GUI.
- B. Verify that both FC HBA ports in the host are online using the HBA vendor's GUI.
- C. Verify that the FC HBAs WWNN's are in the igroup in the SVM.
- D. Verify that the SVM's LIFs being used for multipathing are attached to the correct same physical FC port.
- E. Verify that the storage controller FC target ports status are online with the switch port showing the FC switch to which they are connected.

Correct Answer: ADE

**QUESTION 8**

You are asked to migrate a SAN LIF to a node that was recently added to your cluster. The following CLI command was

provided to you to complete the migration:

```
network interface modify -vserver svm1 -lif lif1 home -node cl01-04 -homeport6a
```

Which step is missing?

- A. All hosts connecting to the controller through lif1 must be shut down.
- B. The LIF must first be added to a portset.
- C. Your zoning must be updated on the upstream switch.
- D. The LIF must be put in a status-admin down state.

Correct Answer: A

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#### QUESTION 9

Which two port personality combinations are valid for the onboard UTA2 ports on a FAS8040 controller?

- A. e0e/0e - fc e0f/0f - fc e0g/0g - cna e0h/0h -cna
- B. e0e/0e - fc e0f/0f - cna e0g/0g - fc e0h/0h -cna
- C. e0e/0e - fc e0f/0f - fc e0g/0g - fc e0h/0h -cna
- D. e0e/0e - cna e0f/0f -cna e0g/0g - fc e0h/0h - fc

Correct Answer: C

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#### QUESTION 10

You want to prevent an FCoE frame from being split into two Ethernet frames.

What is the minimum required frame size that will satisfy this requirement?

- A. 9216
- B. 2240
- C. 1512
- D. 9000

Correct Answer: B

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#### QUESTION 11

You have executed the following FC configuration workflow:

- 1.

Verify IMT supported configuration.

2.

Install VSC for VMware vSphere on a Windows Server.

3.

Add the storage cluster to VSC and set recommended values.

4.

Update host HBA firmware and BIOS.

5.

Provision the LUN.

6.

Manually create an igroup and add the host WWPNs into it.

7.

Map the LUN to the igroup.

8.

Create datastore and its containing LUNS and volumes.

In step 8, you are not able to see the LUNs you provisioned on your storage controller. When you run igroup show you see the ESX host's initiators; however, they are listed "not logged in".

What is the problem?

- A. You need to configure ALUA.
- B. The LUN was not put online.
- C. The LUN type is not set to type VMware.
- D. You need to configure zoning.

Correct Answer: D

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## QUESTION 12

You have a new FAS8080EX 2-node cluster. The FC switch ports connected to the onboard UTA2 ports will not come online.

Which two node-based issues would cause the problem? (Choose two.)

- A. The UTA2 ports are set to target.

- B. The UTA2 ports have 10 GB SFP+ optics installed.
- C. The UTA2 ports have 16 GB SFP+ optics installed.
- D. The UTA2 ports are in cna mode.

Correct Answer: D

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### QUESTION 13

You configure space-reserved LUNs on thick-provisioned volumes, and you want to guarantee overwrites. How would you accomplish this task?

- A. Set the fractional reserve to 0%.
- B. Enable space allocation.
- C. Set the fractional reserve to 100%.
- D. Disable the fractional reserve.

Correct Answer: A

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### QUESTION 14

Which three environmental or physical requirements need to be met when designing a SAN solution? (Choose three.)

- A. rack space
- B. cooling
- C. clustered Data ONTAP version
- D. IOPS
- E. power

Correct Answer: ACD

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### QUESTION 15

A customer is configuring their host for FC connectivity to a clustered Data ONTAP storage solution. They have installed a 4 GB FC HBA into the host and connected it with optical cables to an 8 GB FC switch. They have also connected the UTA2 ports from the FAS2552 with 16 GB SFP+ optics installed using optical cables to the switch.

Which two actions will improve host FCP throughput? (Choose two.)

- A. replacing the existing 8 GB FC switch with a new 16 GB FC switch.
- B. replacing the switch with a 10 GB Ethernet switch

C. adding 16 GB FC HBA and appropriate optics

D. replacing the optical cables with copper TwinAx cables.

Correct Answer: BC

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