



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

NetApp Certified Implementation Engineer - SAN, Clustered Data  
ONTAP

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### QUESTION 1

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

---

### QUESTION 2

Exhibit

```
cl01::>iscsi portal show Logical Status CurrCurr Vserver Interface TPGT Admin/Oper IP Address Node Port Enabled
svm1 1-a 1035 up/up
192.168.1.66 cl01-01 e0a true svm1 1-b 1051 up/up
192.168.1.67 cl01-01 e0b true svm1 2-a 1046 up/down
192.168.1.68 cl01-02 e0a true svm1 2-b 1052 up/up
192.168.1.69 cl01-02 e0b true
```

Referring to the exhibit, which action would you take to troubleshoot the iscsi-2-a interface?

- A. Verify that the iSCSI protocol is licensed for svm1.
- B. Cycle the upstream switch port down and back up again.
- C. Verify network connectivity between the host and LIF.
- D. Verify that the iSCSI protocol is started on svm1.

Correct Answer: B

---

### QUESTION 3

A company has 50 ESXi hosts connected using FC to a single target port on a NetApp cluster. Ten hosts are configured with an HBA queue depth on 128. Forty hosts are configured with a HBA queue depth of



32. They are experiencing performance problems with their FC LUNs. Which two actions will resolve the problem? (Choose two.)

- A. Use VSC to set recommended values for the hosts.
- B. Reduce the HBA queue depth on the on the applicable HBAs.
- C. Add additional target ports to allow for greater initiator distribution.
- D. Increase the total queue depth on the NetApp cluster.

Correct Answer: A

---

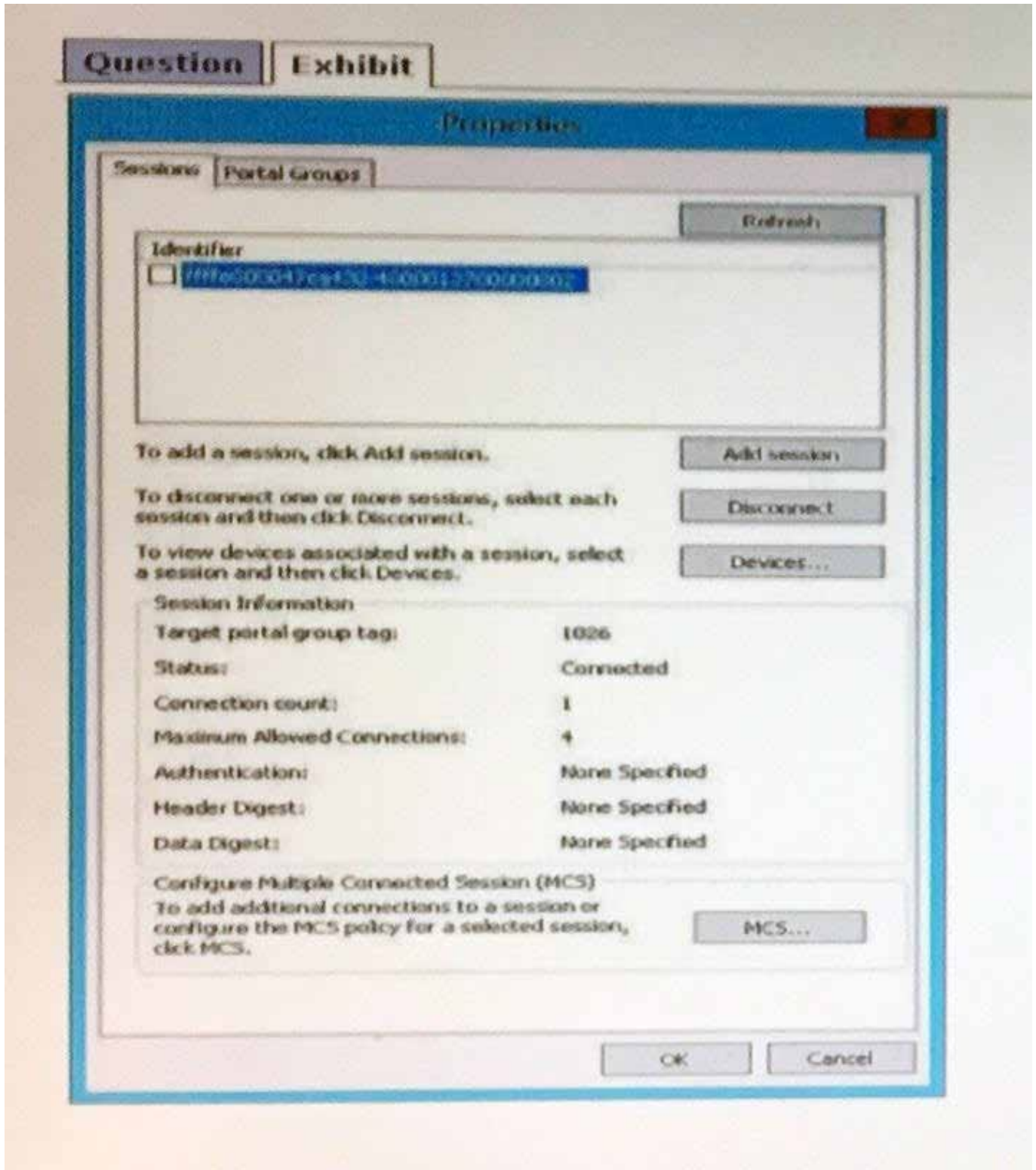
#### QUESTION 4

Click the Exhibit button.

Based on the exhibit, you are configuring a 4-node cluster with an iSCSI LIF on each node. You connect using the first LIF from a Windows Server 2012 host.

How would you add the other three LIFs?

Exhibit:



- A. Use the MCS button.
- B. Use the Devices button.
- C. Use the Add session button.
- D. Wait and then press the Refresh button until the other sessions appear.



Correct Answer: C

---

#### QUESTION 5

Microsoft ODX supports which scenario on clustered Data ONTAP 8.3?

- A. moving a VHDX with both SMB 3.0 and SAN protocols as either source or destination
- B. moving a VHDX from an SMB 3.0 source to an SMB 3.0 destination with no SAN support
- C. moving a VHDX from a SAN LUN source to a SAN LUN destination with no SMB support
- D. moving a VHDX with both SMB 2.1 and SAN protocols as either source or destination

Correct Answer: D

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#### QUESTION 6

A volume with a single LUN shows 30% deduplication savings. However, the output of df on the cluster does not show the 30% savings back to the volume or aggregate.

What is causing this behavior?

- A. Volume space guarantee is set to none.
- B. Volume space guarantee is set to volume.
- C. LUN space reserve is disabled.
- D. LUN space reserve is enabled.

Correct Answer: A

---

#### QUESTION 7

Exhibit

You have a 2-node data ONTAP 8.3 cluster.

Based on the exhibit, which change must be made to make svm1 conform to iSCSI best practices?

```
cl01::> net int show -vserver svm1 -data -protocol iscsi Logical Status Network Current Current Is Vserver Interface
Admin/Oper Address/Mask Node Port Home
```

```
svm1 up/up 10.204.34.25/24 cl01-01 a0a 434 true cl01::>iscsi show -vserver svm1 Vserver: svm1 Target Name:
iqn.1992 08.com.netapp: sn.ca5eaa069c211 Target Alias: svm1 Administrative Status: up
```

- A. The iSCSI LIFs must be moved to a VLAN higher than 1024.
- B. An iSCSI LIF must be added to node cl01-02.



C. The Target Alias must be modified to match the Target Name.

D. The iSCSI LIFs must be moved to a physical interface; iSCSI LIFs are not supported on top of an ifgrp.

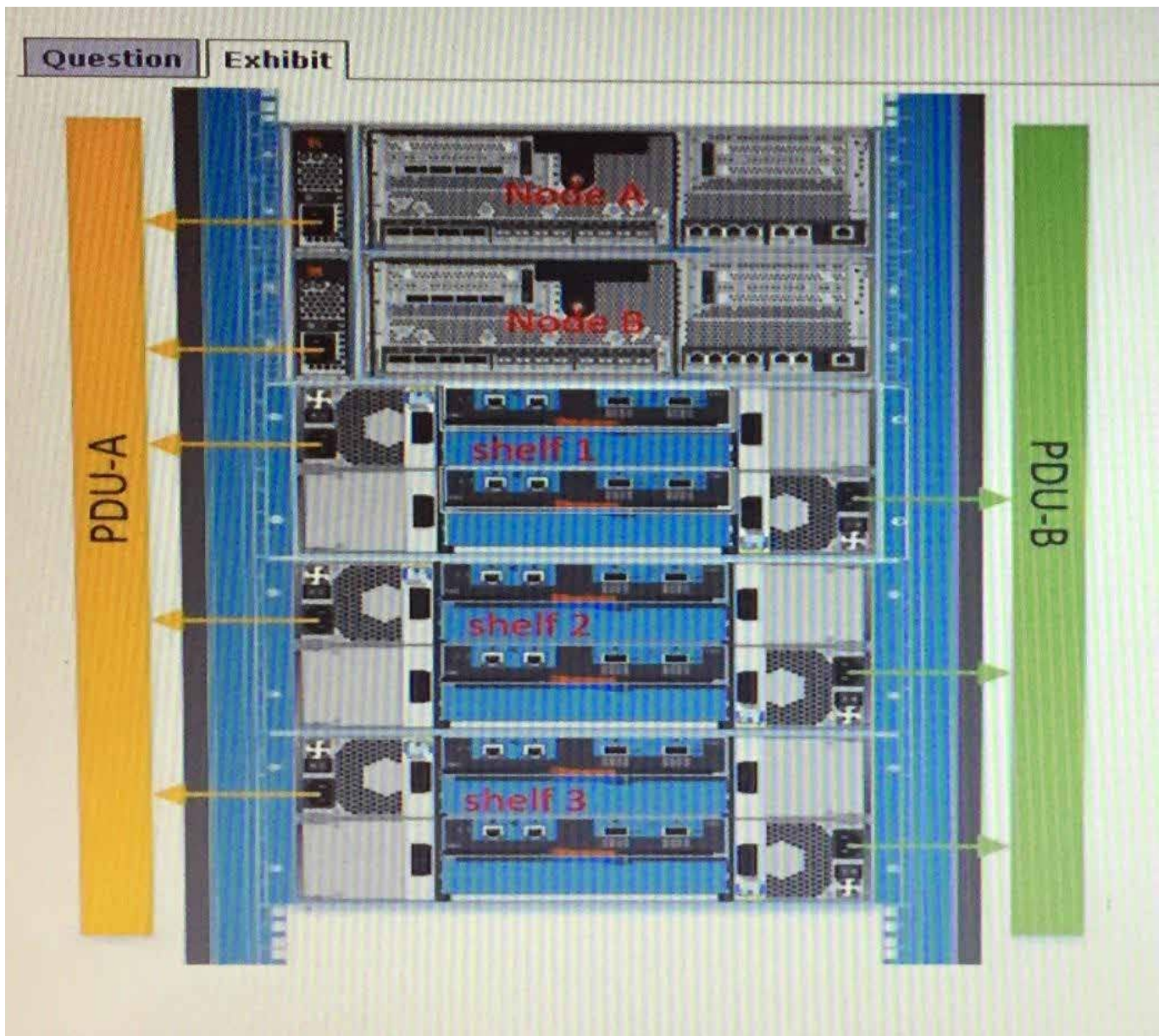
Correct Answer: C

### QUESTION 8

Click the Exhibit button.

Referring to the diagram shown in the exhibit, what will happen if PDU-B fails?

Exhibit:



A. Both Node A and Node B will remain online and all disk shelves will remain online.



B. Both Node A and Node B will remain online, but all disk shelves will immediately lose power and become inaccessible.

C. Both Node A and Node B will immediately lose power and become inaccessible.

D. Node A will immediately lose power and become inaccessible. Node B will remain online.

Correct Answer: A

---

### QUESTION 9

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 10

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

---

#### QUESTION 11

What is installed on your Linux host when you install the Linux Unified Host Utilities 7.0?

- A. drivers and firmware
- B. software iSCSI initiator
- C. SAN Toolkit data collection utility
- D. nSANity

Correct Answer: C

---

#### QUESTION 12

Exhibit

```
cl01::>lun resize -vserver svm1 -volume db1_vol -lun db1 -size 4096g Error: command failed: New size exceeds this LUN's initial geometry cl01::>
```

What is the reason for the error shown in the exhibit?

- A. The LUN is thin provisioned, but the parent volume is thick provisioned and cannot satisfy the request.
- B. The aggregate over commitment threshold has been exceeded.
- C. The parent volume that contains the LUN is out of space.
- D. The LUN cannot be grown past its maximum resize size.





Correct Answer: D

---

### QUESTION 13

Exhibit

```
cl01::>igroup show -vserver svm1 VserverIgroup Protocol OS Type Initiators svm1 esx_cluster mixed vmware
```

```
20:00:00:25:b5:11:a0:01,
```

```
20:00:00:25:b5:11:b0:01,
```

```
iqn.1998-01.com.vmware:esx02
```

```
cl01::>
```

A customer is provisioning storage for two ESXi hosts using FCoE with CNA adapters. The customer mapped the LUN to the igroup shown in the exhibit. After scanning for new devices, the LUN is only seen by one of the ESXi hosts.

What caused the problem?

- A. One of the hosts is added in the igroup via iSCSI IQN.
- B. The igroup protocol needs to be configured as FCP.
- C. The switch zoning configuration does not include the correct initiators.
- D. The LIFs are not on their home ports.

Correct Answer: A

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### QUESTION 14

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 15

Click the Exhibit button.



An administrator is attempting to map an iSCSI LUN to a Windows 2012 host, but the windows host fails to discover the iSCSI targets.

Referring to the exhibit, what is the connectivity problem?

Exhibit:

The screenshot shows a network configuration interface with a table of logical interfaces and a section for SAS cabling checks.

Logical Interface	Role	Port	Switch	Operational Speed (Mbps)	Network Address
clus1	cluster	e0a	ap2na1-sw-ci-01:0/1	10000	169.254.96.136
clus2	cluster	e0b	ap2na1-sw-ci-02:0/1	10000	169.254.84.85
clus3	cluster	e0c	ap2na1-sw-ci-02:0/2	10000	169.254.2.143
clus4	cluster	e0d	ap2na1-sw-ci-01:0/2	10000	169.254.50.59
mgmt1	node-mgmt	e0M		1000	10.5.3.101

Category	Rule Target	Risk / Description	Details
SAS Cabling Checks	ap2na1-02	Checking SAS Cabling.	Controller SAS ports B and D ports should be connected to shelf circle ports. Port 0b is connected to Shelf 20 B Module Square.
SAS Cabling Checks	ap2na1-01	Checking SAS Cabling.	Controller SAS ports B and D ports should be connected to shelf circle ports. Port 0b is connected to Shelf 20 A Module Square.

- A. The iSCSI service is running on svm1, but iSCSI is not licensed on the nodes.
- B. The iSCSI LIFs are not currently on their home port.
- C. The iSCSI LIFs are currently disabled.
- D. The LIFs do not have a failover group defined.

Correct Answer: A

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