

# NS0-520<sup>Q&As</sup>

NetApp Certified Implementation Engineer - SAN ONTAP

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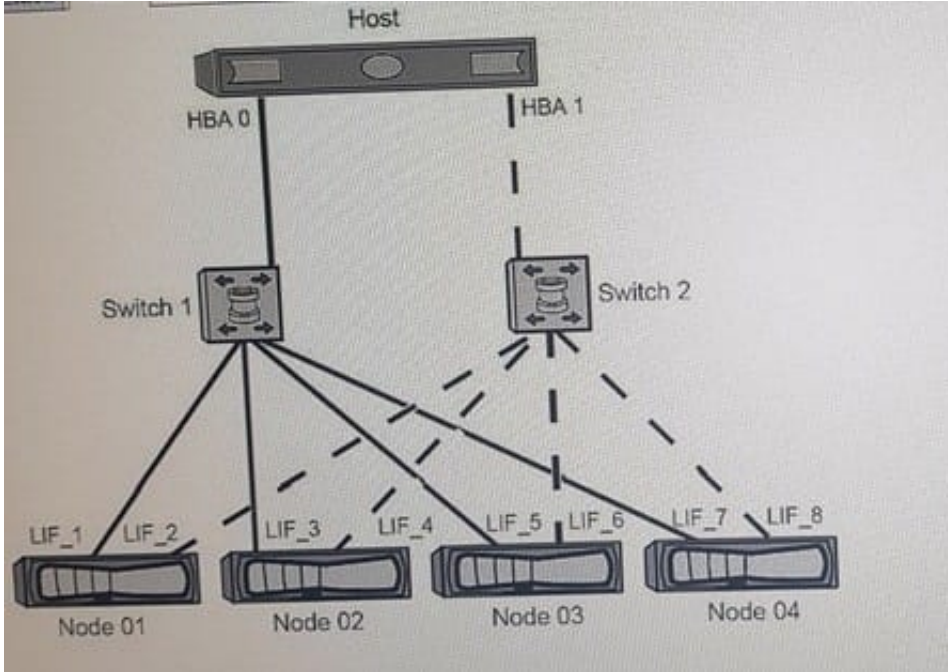
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**QUESTION 1**

Exhibit.



A customer is testing a dual-fabric FC SAN configuration as shown in the exhibit and the zones are implemented on the switches shown below.

Switch 1 / Zone 1: HBA 0, LIF\_1, LIF\_3, LIF\_5, and LIF\_7  
 Switch 2 / Zone 2: HBA 1, LIF\_2, LIF\_4, LIF\_6, and LIF\_8

If all the nodes are in the SLM reporting nodes list, how many paths per LUN should the customer expect when simulating an FC SFP failure by bringing LIF\_3 offline?

- A. 15 paths
- B. 3 paths
- C. 4 paths
- D. 7 paths

Correct Answer: D

**QUESTION 2**

A customer wants to deploy NVMe/FC along with an existing FC SAN fabric using ONTAP 9.8. In this scenario, which two actions are correct? (choose two)

- A. Use existing zoning on fabric switches

- B. Enable NVMe/FC on the existing FC SVM
- C. Upgrade your FC switches from 16GB to 32GB
- D. Create new zoning on fabric switches

Correct Answer: AB

Because NVMe/FC simply swaps command sets from SCSI to NVMe, it is an easy transition to make. NVMe/FC uses the same FC transport and therefore the same hardware from the host, through the

switch and all the way to the NVMe/FC target port on the storage array. Thus, NVMe/FC implementations can use existing FC infrastructure, including HBAs, switches, zones, targets, and cabling.

You can find more information on this link:

<https://www.netapp.com/de/media/10681-tr4684.pdf>

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### QUESTION 3

Which two are supported in ONTAP 9.5? (Choose two.)

- A. an NVMe LIF and an FC LIF in the same SVM
- B. an NVMe LIF associated with an FC Direct Connect port
- C. a NVMe LIF and an FC LIF associated with the same port
- D. multiple NVMe LIFs in the same SVM

Correct Answer: CD

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### QUESTION 4

**Question**

**Exhibit**

```
scaling:~> run -node scaling-01 -command fcp topology show
Switches connected on adapter 0c:
Switch Name:      switch
Switch Vendor:    Cisco Systems, Inc.
Switch Release:   4.2(1)N1(1)
Switch Domain:    75
Switch WWN:       23:e9:00:0d:ec:b4:94:01
```

Port	Port	WWPN	State	Type	Attached WWPN
vfc1	20:00:00:0d:ec:b4:94:3f		Offline	none	
vfc2	20:01:00:0d:ec:b4:94:3f		Offline	none	
vfc3	20:02:00:0d:ec:b4:94:3f		Offline	none	
vfc4	20:03:00:0d:ec:b4:94:3f		Offline	none	
vfc5	20:04:00:0d:ec:b4:94:3f		Offline	none	
2/1	20:41:00:0d:ec:b4:94:00		Offline	none	
2/2	20:42:00:0d:ec:b4:94:00		Online	F-port	50:0a:09:80:00:05:a2:40
2/3	20:43:00:0d:ec:b4:94:00		Online	F-port	50:0a:09:85:8d:9d:bf:ce
2/4	20:44:00:0d:ec:b4:94:00		Online	F-port	50:0a:09:85:8d:ad:c0:02

A customer has an AFF A700 connected to a Cisco switch and has verified connectivity but cannot see any LUNs. The customer issued the run -node scaling-01 -command fcp topology show command to verify the connection. Referring to the exhibit, what needs to be enabled on the Cisco switch?

- A. Trunking needs to be enabled.
- B. VSAN needs to be enabled.
- C. NPIV needs to be enabled.
- D. VFC needs to be enabled.

Correct Answer: D

**QUESTION 5**

A user cannot add more than one NVMe data LIF in ONTAP 9.4 on an SVM with a data protocol parameter set to nvme. In this scenario, what is the problem?

- A. The SVM data protocol should be set to FC.
- B. The NVMe namespace is not created.
- C. A demo license is used.
- D. Only one NVMe data LIF can be configured per SVM.

Correct Answer: B

**QUESTION 6**

Which native GUI switch tool is used to manage Cisco MDS-Series switches and directors?

- A. Operations Manager
- B. Fabric Manager
- C. Web Tools
- D. Data Fabric Manager

Correct Answer: B

**QUESTION 7**

An administrator needs to connect a new VMware 6.5 cluster to an ONTAP cluster for iSCSI connectivity. Which two steps would accomplish this task? (Choose two.)

- A. Enable iSCSI adapters on the ESXi hosts.
- B. Install the Virtual Storage Console for VMware vSphere.
- C. Configure zoning for the HBAs and the ONTAP data LIFs.
- D. Configure ALUA on the ONTAP SVM.

Correct Answer: AD

**QUESTION 8**

Question	Exhibit
<pre> c11::&gt; network fcp adapter show Node                Adapter  Connection Established  Port Address  Admin Status  Operational Status ----- node1                0e      false      false      0         0         up      link not connected node1                0f      false      false      0         0         up      link not connected node1                0g      false      false      0         0         up      link not connected node1                0h      false      false      0         0         up      link not connected node2                0e      false      false      0         0         up      link not connected node2                0f      false      false      0         0         up      link not connected node2                0g      false      false      0         0         up      link not connected node2                0h      false      false      0         0         up      link not connected </pre>	

You have an existing 2-node AFF A300 cluster with premium bundle licensing applied. You need to have consistently low front end latency, and have determined that NVMe satisfies this requirement. Referring to the exhibit, which two actions would accomplish this task? (Choose two.)

- A. Add a UTA2 adapter to each of the two AFF A300 nodes.
- B. Add a 32 GB FC HBA to each of the two AFF A300 nodes.
- C. Apply the license for FCP.

D. Apply the license for NVMe.

Correct Answer: B

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### QUESTION 9

An administrator is configuring their existing Ethernet network switches to provide iSCSI LUNs to several servers. The network switches are also used for other traffic from various hosts. In this scenario, which statement is true?

- A. Increase the ratio of access ports to trunk ports to 2:1
- B. Configure the MTU size to be larger on the switch and storage than on the host.
- C. Use multiple VLANs to isolate traffic from other network traffic
- D. Netapp recommends using the same LIFs for NFS and iSCSI traffic

Correct Answer: C

VLANs offer specific benefits, such as increased security and improved network reliability that you might want to leverage in iSCSI.

You can find more information on this link:

<https://docs.netapp.com/ontap-9/topic/com.netapp.doc.dot-cm-sanconf/SAN%20configuration.pdf> (page 5)

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### QUESTION 10

You need to configure iSCSI on your existing ONTAP cluster in a new SVM. The iSCSI LUNs will be served over a new Layer 2 network using the same physical ports that also use the CIFS protocol on a different SVM.

Which two actions should you perform to accomplish this task? (Choose two.)

- A. Create a new portset.
- B. Create a new VLAN.
- C. Create a new broadcast domain.
- D. Create a new AD object.

Correct Answer: BC

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### QUESTION 11

You are installing a NetApp FAS6040 high availability storage system. Which cfmode should be set to ensure proper failover in an HP-UX environment?

- A. standby
- B. partner

C. single system image

D. dual\_fabric

Correct Answer: C

**QUESTION 12**

Referring to the exhibit, which two actions would you perform to ensure that each host has valid multipathing? (choose two)

```
node      port  link  broadcast-domain
-----
Cluster1-01 ala-10 up    Storage
Cluster1-02 a2a-10 up    Storage

Vserver      Logical  Status  Network      Current  Current  Is
-----
Storage_iSCSI
Storage_iSCSI_lif1 up/up  10.10.10.30/24 Cluster1-01 ala-10 true
Storage_iSCSI_lif2 up/up  10.10.10.31/24 Cluster1-02 a2a-10 true

Vserver      Igroup  Protocol OS Type      Initiators
-----
Storage_iSCSI vmware  iscsi    vmware      iqn.1998-01.com.vmware:5dfa0d08-9a33-fbc6-abac-94c691140409-59a59ccf
iqn.1998-01.com.vmware:5dfa0efa-8c55-5a44-a125-94c6911407fd-5972503d

Vserver      Tpgroup Name      TSIH Initiator Name
-----
Storage_iSCSI Storage_iSCSI_lif1 1 iqn.1998-01.com.vmware:5dfa0efa-8c55-5a44-a125-94c6911407fd-5972503d
Storage_iSCSI Storage_iSCSI_lif1 2 iqn.1998-01.com.vmware:5dfa0efa-8c55-5a44-a125-94c6911407fd-5972503d
Storage_iSCSI Storage_iSCSI_lif2 1 iqn.1998-01.com.vmware:5dfa0efa-8c55-5a44-a125-94c6911407fd-5972503d
Storage_iSCSI Storage_iSCSI_lif2 2 iqn.1998-01.com.vmware:5dfa0efa-8c55-5a44-a125-94c6911407fd-5972503d
Storage_iSCSI Storage_iSCSI_lif2 3 iqn.1998-01.com.vmware:5dfa0d08-9a33-fbc6-abac-94c691140409-59a59ccf
Storage_iSCSI Storage_iSCSI_lif2 4 iqn.1998-01.com.vmware:5dfa0d08-9a33-fbc6-abac-94c691140409-59a59ccf
6 entries were displayed.
```

- A. Verify that the VLANs are properly configured on the switches
- B. Verify that the VLANs are properly configured on the ONTAP cluster
- C. Verify that ALUA is enabled on the switches
- D. Verify that ISCSI service is started on the ONTAP cluster

Correct Answer: AB

Iscsi is already started, we can not run those commands successfully if the protocol is not started ALUA is enabled on hosts, It is not enabled on switches VLANs are configured on the Netapp and switches, they need to be properly configured on both sides to work correctly You can find more information on this link:  
<https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-nmg%2FGUID-52AE6E9C-13B6-49BA-B030-545C1C7647AC.html>

**QUESTION 13**

You are designing a new 4-node AFF A400 SAN cluster with 20 ISCSI hosts. Each AFF A400 node will have four data LIFs. Each ISCSI host needs to access every LUN over two LIFs per node on every SAN node.

In this scenario, which Netapp SAN feature enable this connectivity?

- A. Port sets
- B. HBA queue depth
- C. Selective LUN mapping
- D. Asymmetric namespace

Correct Answer: A

SLM will choose 4 LIFs per node, being 8 LIF total (owner and HA partner), enabling portsets will help to limit the ports per node... that way we can establish only 2 LIF per node. Creating port sets and binding igroups to port sets In addition to using Selective LUN Map (SLM), you can create a port set and bind the port set to an igroup to further limit which LIFs can be used by an initiator to access a LUN. If you do not bind a port set to an igroup, then all of the initiators in the igroup can access mapped LUNs through all of the LIFs on the node owning the LUN and the owning node's HA partner. You can find more information on this link:

<https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-sanag%2FGUID-5CC27202-A43F-429F-AB13-C70E7CD58E09.html>

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#### QUESTION 14

Which three components are required for NetApp iSCSI LUN access on Linux servers? (Choose three.)

- A. device-mapper-multipath
- B. NetApp SnapDrive
- C. scsi-target-utils
- D. iscsi-initiator-utils
- E. NetApp Host Utilities

Correct Answer: ACE

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#### QUESTION 15

You create a 20 GB LUN in a newly created 100 GB FlexVol volume. You then write 5 GB of data to the LUN. You have space reservation disabled on the LUN. In this scenario, how much space do you have left on the volume?

- A. 95 GB
- B. 80 GB
- C. 75 GB
- D. 85 GB

Correct Answer: A

Reference: <https://library.netapp.com/ecmdocs/ECMP1368017/html/GUID-0E0B085C-5A42-43F3-9CCD->

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