

# NS0-509<sup>Q&As</sup>

NetApp Certified Implementation Engineer - SAN - ONTAP

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### QUESTION 1

What is the recommended minimum of data LIFs per node for iSCSI in a dual-fabric configuration with four SVMs?

- A. 8
- B. 12
- C. 16
- D. 4

Correct Answer: A

Reference: <https://docs.netapp.com/ontap-9/topic/com.netapp.doc.dot-cm-sanconf/GUID-650DC466CA3F-4032-8005-078FCEE52E7.html> (6th bullet)

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### QUESTION 2

Which resource would you use to verify whether a specific SAN configuration is supported by NetApp?

- A. SAN Configuration Guide
- B. Hardware Universe (HWU)
- C. Active IQ
- D. Interoperability Matrix Tool (IMT)

Correct Answer: A

Reference: [https://docs.netapp.com/ontap-9/topic/com.netapp.doc.dot-cm-sanconf/SAN% 20configuration.pdf](https://docs.netapp.com/ontap-9/topic/com.netapp.doc.dot-cm-sanconf/SAN%20configuration.pdf)

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### QUESTION 3

How do you configure the iSCSI-SendTargets datastore when the datastore is provisioned from NetApp storage?

- A. You must configure jumbo frames when SendTargets-based iSCSI is used.
- B. Use static discovery to add the target IQN.
- C. Use dynamic discovery to add the target IQN.
- D. You must configure a single protocol on the SVM when SendTargets-based iSCSI is used.

Correct Answer: C

Reference: [https://www.vmware.com/pdf/vsphere4/r40\\_u1/vsp\\_40\\_u1\\_iscsi\\_san\\_cfg.pdf](https://www.vmware.com/pdf/vsphere4/r40_u1/vsp_40_u1_iscsi_san_cfg.pdf) (37)

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#### QUESTION 4

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 5

You want to access and mount a Linux LUN using only iSCSI. In the past, the LUN has been accessed using FC. What must you do to accomplish this task?

- A. Change the LUN protocol type to (SCSI).
- B. Create a new iSCSI igroup. and change the LUN mapping from the original to the new igroup.
- C. Create a new iSCSI Igroup and map the LUN to both the new and existing FC igroup.
- D. Add an iSCSI protocol type to the existing igroup so that the LUN can be accessed by both FC and iSCSI hosts.

Correct Answer: B

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#### QUESTION 6

You create a new iSCSI SVM and secure iSCSI sessions by using both Challenge-Handshake Authentication Protocol (CHAP) and iSCSI Access Control Lists (ACL).

In this scenario, in which two ways are you securing your iSCSI implementation? (Choose two.)

- A. CHAP creates a hash value for the username and shared secret.
- B. iSCSI ACLs are applied to the initiator configuration to provide an IP address of the targets.
- C. CHAP encrypts all iSCSI session I/O.
- D. iSCSI ACLs are applied to the target configuration to provide an IP address of the initiators.

Correct Answer: AD

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#### QUESTION 7

Exhibit.

```

c11::> lun mapping show
vsrver      path                igroup lun-id reporting-nodes
-----
SVM1       /vol/host1/lun0    linux1 0      c11-01, c11-02
SVM1       /vol/host2/lun0    linux2 0      c11-01, c11-02

c11::> lun show
vsrver      Path                State  Mapped  Type      Size
-----
SVM1       /vol/host1/lun0    online mapped  linux    10GB
SVM1       /vol/host2/lun0    online mapped  linux    20MB
    
```

During a data mobility test on a 4-node ONTAP 9.3 cluster, the host loses direct access to its LUNs. The LUNs are hosting on node c11-01 and are being moved to c11-03 on a different HA pair. Referring to the exhibit, which corrective step is needed to ensure access while the volume is moved?

- A. Add reporting nodes for c11-03 and c11-04.
- B. Create additional LIFs on c11-01 and c11-02.
- C. Create a new destination volume on c11-03.
- D. Create new igroups on c11-03 and c11-04.

Correct Answer: A

**QUESTION 8**

Exhibit.

Port Address	Description	Max Data Rate	Port Icon	Port Type
0a	Serial-Attached SCSI	SAS 6/12 Gbps	Circle	MiniSAS HD
0b	Serial-Attached SCSI	SAS 6/12 Gbps	Square	MiniSAS HD
e0a	Ethernet	ETH 10 Gbps	Ethernet	SFP+
e0b	Ethernet	ETH 10 Gbps	Ethernet	SFP+
w00c	Unified Target Adapter 2	ETH: 1/10 Gbps FC: 4/8/16 Gbps	Ethernet/Fibre Channel	SFP+
w00d	Unified Target Adapter 2	ETH: 1/10 Gbps FC: 4/8/16 Gbps	Ethernet/Fibre Channel	SFP+
w00e	Unified Target Adapter 2	ETH: 1/10 Gbps FC: 4/8/16 Gbps	Ethernet/Fibre Channel	SFP+
w00f	Unified Target Adapter 2	ETH: 1/10 Gbps FC: 4/8/16 Gbps	Ethernet/Fibre Channel	SFP+
w00g	Management	ETH: 10/100/1000 Mbps	Wrench	RJ45
Serial interface controller	Serial Console	RS-232 115200 bps	Serial Interface	RS45
USB0	USB Serial Console	USB 12 Mbps	USB 2.0	MiniUSB Type-B

An administrator has an AFF A200 HA pair.

Referring to the exhibit, how many 10 Gbps connections would the customer have on a single node for SAN host connectivity?

- A. 4

B. 6

C. 7

D. 2

Correct Answer: A

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#### QUESTION 9

Changes to your organization requires access to an SVM be given to a group of individuals. Your company uses Active Directory as a method of access control. You decide to use the security login create -vserver engCluster - user-or-group-name CORP\Admins -application ssh -authmethod domain -role vsadmin command.

In this scenario, which access rights will this command grant?

A. read only rights to the SVM engCluster for Active Directory group CORP

B. vsadmin rights to the SVM engCluster for Active Directory group CORP\Admins

C. vsadmin rights to the SVM CORP for Active Directory group CORP\Admins

D. vsadmin rights to the SVM engCluster for Active Directory group CORP

Correct Answer: B

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#### QUESTION 10

You have a 4-node FAS8200 A300 cluster that are using ONTAP 9.3 default settings. For faster performance, you move a volume with LUNs from a node on the FAS8200 to a node on the AFF A300. You determine that your SAN host is still using all active/optimized FC paths to the FAS8300 HA pair. What do you need to troubleshoot to move all active/optimized FC paths to the AFF A300 HA pair?

A. reporting nodes list

B. host MPIO and ALUA

C. LUN mapping

D. igroup WWPNs

Correct Answer: A

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#### QUESTION 11

An administrator needs to determine the maximum volume size that is supported per operating system. Which resource has this information?

A. Config Advisor

B. OneCollect

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- C. Interoperability Matrix Tool (IMT)
- D. Hardware Universe (HWU)

Correct Answer: C

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#### QUESTION 12

You are provisioning a LUN using an iSCSI initiator on an ESX host. You disable Ethernet flow control for all ports but are experiencing Performance issues.

In this scenario, which two actions would improve the performance issue? (Choose two.)

- A. Set the MTU settings 1500 for optimal performance.
- B. Dedicate your ports to iSCSI traffic.
- C. Enable jumbo frames across the entire data path.
- D. Confirm that your host .mil storage polls are connected to a different network.

Correct Answer: BC

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#### QUESTION 13

Which path selection policy is used by Windows Servers using NetApp LUNs that are greater than 2 TB?

- A. Least Queue Depth
- B. Round Robin
- C. Round Robin with Subset Policy
- D. Least Weighted Paths

Correct Answer: C

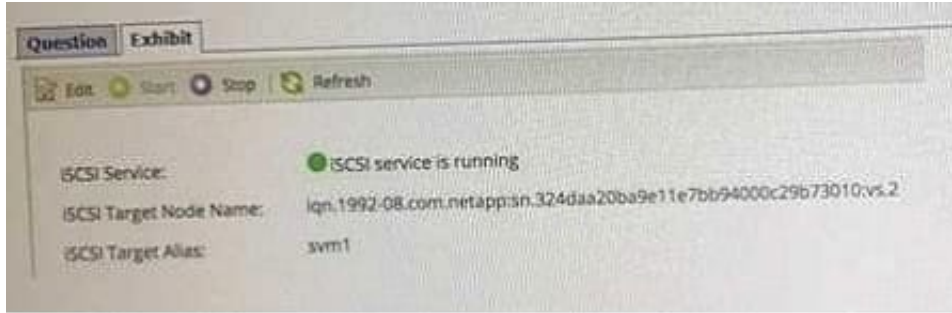
Reference:

<https://library.netapp.com/ecmdocs/ECMP1307349/html/GUID-29CBF302-D78C-4A38-900D9F1E8DDB0D6A.html>

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#### QUESTION 14

Exhibit.



You are asked to change the iSCSI Target Node Name of an SVM named SVM1 that is serving data. Referring to the exhibit, which two statements are correct? (Choose two.)

- A. Reconnect all the IUNs after renaming the target node.
- B. Disable Selective LUN Mapping (SIM) and create port sets.
- C. Unmap and re-map the LUNs.
- D. Stop and start the iSCSI service.

Correct Answer: CD

#### QUESTION 15

A customer is required to encrypt iSCSI traffic across their public network.

In this scenario, which method will accomplish this task?

- A. dot1q
- B. IPsec
- C. NVMe
- D. CHAP

Correct Answer: B

Reference: <https://www.computerweekly.com/feature/iSCSI-security-Networking-and-security-optionsavailable>