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**Vendor:**NetApp

**Exam Code:**NS0-520

**Exam Name:**NetApp Certified Implementation  
Engineer - SAN ONTAP

**Version:**Demo

### QUESTION 1

You have a thin-provisioned LUN that was created by using the `lun create -vserver vs1 - path /vol/vol1/lun1 -size 500G -ostype windows 2008 -space-reserve disabled -space- allocation disabled` command. You verify that your Windows 2016 host reports 200 GB free on lun1. However, lun1 shows 0 bytes free on the storage cluster.

What should you do to solve this problem?

- A. Change the LUN `-space-allocation` parameter to enabled.
- B. Change the LUN `-ostype` parameter to `windows_gpt`.
- C. Change the LUN `-space-reserve` parameter to enabled.
- D. Rescan the LUN disk in your Windows host so that it will notify NetApp about the free space.

Correct Answer: D

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### QUESTION 2

An SVM's LUN setup needs to have LIFs that are configured for FC access and iSCSI access. The administrator will also be using NetApp Virtual Storage Console.

In this scenario, which three types of LIFs are required? (Choose three.)

- A. FC LIFs
- B. management LIFs
- C. iSCSI data LIFs
- D. NAS data LIFs
- E. intercluster LIFs

Correct Answer: ABC

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### QUESTION 3

Which two requirements must be satisfied to run an Upgrade Advisor report on a Netapp All SAN Array? (choose two)

- A. The cluster nodes must have a valid support contract
- B. Autosupport must be enabled
- C. The vsadmin account must be enabled
- D. The Connectivity, Liveness, Availability Monitor (CLAM) must be enabled

Correct Answer: AB

To run Active IQ Upgrade Advisor the cluster must have a valid contract, and this tool gets information from Autosupport

Active IQ Digital Advisor shows systems with a valid support contract.

You can find more information on this link:

[https://kb.netapp.com/Advice\\_and\\_Troubleshooting/Data\\_Storage\\_Software/ONTAP\\_OS/How\\_does\\_Active\\_IQ\\_Upgrade\\_Advisor\\_help\\_to\\_perform\\_an\\_ONTAP\\_upgrade\\_or\\_revert\\_%3F](https://kb.netapp.com/Advice_and_Troubleshooting/Data_Storage_Software/ONTAP_OS/How_does_Active_IQ_Upgrade_Advisor_help_to_perform_an_ONTAP_upgrade_or_revert_%3F)

#### QUESTION 4

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+
e0c0c	Unified Target Adapter 2	ETH: 1/10 Gbps FC: 4/8/16 Gbps	Ethernet/Fibre Channel	SFP+
e0c0d	Unified Target Adapter 2	ETH: 1/10 Gbps FC: 4/8/16 Gbps	Ethernet/Fibre Channel	SFP+
e0c0e	Unified Target Adapter 2	ETH: 1/10 Gbps FC: 4/8/16 Gbps	Ethernet/Fibre Channel	SFP+
e0c0f	Unified Target Adapter 2	ETH: 1/10 Gbps FC: 4/8/16 Gbps	Ethernet/Fibre Channel	SFP+
e0c0g	Management	ETH: 10/100/1000 Mbps	Wrench	RJ45
Serial interface 0a0	Serial Console	RS-232/422/485	Serial Interface	RJ45
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

#### QUESTION 5

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-groupname 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 6

You are about to replace a failed Brocade Fibre Channel switch. Which three steps do you take prior to connecting the switch in the SAN? (Choose three.)

- A. Force the new switch to be the principle switch.
- B. Change the domain ID of the replacement switch to the domain ID of the failed switch.
- C. Clear all zoning configurations on the replacement switch.
- D. Change the core PID format of the replacement switch to the core PID format of the failed switch.
- E. Preload the zoning information from the fabric onto the new switch.

Correct Answer: BCD

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#### QUESTION 7

A company has 20 ESX hosts. Ten of the hosts are connected using FC, and the rest are connected over iSCSI. The FC host HBA queue depth is set to 32, and the iSCSI LUN queue depth is set to 64. The FC hosts are now experiencing random connectivity issues.

In this scenario, what would be the reason for the disconnects?

- A. The FC host has a lower queue depth.
- B. According to the IMT, unsupported HBA firmware is in use.
- C. All of the hosts are part of the same cluster.
- D. The queue depth is not consistent across the cluster.

Correct Answer: A

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#### QUESTION 8

A customer recently added two nodes with FC ports to a 4-node cluster.

Which SVM configuration is needed before the customer creates LUNs on the new nodes?

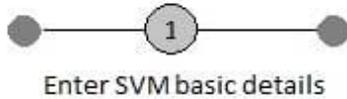
- A. The FC service needs to be enabled on the data SVM.
- B. The existing LIFs need to be migrated to the new nodes.
- C. New FC LIFs need to be created on the cluster SVM.
- D. New FC LIFs need to be created on the new nodes.

Correct Answer: D

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.exp-expand%2FGUID-E3BB89AF-6251-4210-A979-130E845BC9A1.html>

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## **QUESTION 9**

**Question****Exhibit****Storage Virtual Machine (SVM) Setup****SVM Details**

? Specify a unique name and the data protocols for the SVM

SVM Name:

? IPspace:  v

? Data Protocols:  CIFS  NFS  iSCSI  FC/FCoE

? Default language:  v

The language of the SVM specifies the default language encoding setting for the SVM and its volumes. Using a setting that incorporates UTF-8 character encoding is recommended.

? Security Style:  v

Root Aggregate:  v

**DNS Configuration**

Specify the DNS domain and name servers. DNS details are required to configure the CIFS protocol.

? Search Domains:

? Name Servers:

Referring to the exhibit, which two elements are required for NVMe host access with ONTAP 9.5 and using supported AFF nodes? (Choose two.)

- A. You need 16 Gb FC HBAs installed in the AFF nodes.
- B. You must have the license installed for NVMe support in the cluster.
- C. You must have the license installed for FC support in the cluster.
- D. You need 32 Gb FC HBAs installed in the AFF nodes.

Correct Answer: CD

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## QUESTION 10

What are two benefits of implementing VLANs for iSCSI configuration? (choose two)

- A. Reduced number of broadcast domains
- B. Increased performance
- C. Increased security
- D. Increased resiliency

Correct Answer: AC

When you implement VLANs in large IP network infrastructures, you derive the following benefits:

Increased security.

VLANs enable you to leverage existing infrastructure while still providing enhanced security because they limit access between different nodes of an Ethernet network or an IP SAN.

You can find more information on this link:

<https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-sanconf%2FGUID-C5288E55-DAED-4050-84A2-71BF13BC6556.html>

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## QUESTION 11

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>

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## QUESTION 12

A storage administrator needs to ensure that an ONTAP FC LUN is accessible for a remote data center. The ISL ports are reporting errors. The trunkshow command output from a Brocade switch is shown below.

```
switch01:admin> trunkshow 1: 10-> 10 10:00:50:eb:1a:20:83:96 5 deskew 15 MASTER 2: 11-> 11 10:00:50:eb:1a:20:83:96 5 deskew 16 MASTER
```

- A. Set the ISL ports as FL\_Ports
- B. Set the ISL ports as N\_Ports
- C. Set the ISL ports as F\_Ports
- D. Set the ISL ports as E\_Ports

Correct Answer: D

On each switch fabric, you must configure the switch ports that connect the Inter-Switch Link (ISL). These ISL ports are otherwise known as the E-ports.

You can find more information on this link:

<https://library.netapp.com/ecmdocs/ECMP1636017/html/GUID-B2BBB025-02A9-442C-9910-00FEF253CE52.html>