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Vendor:NetApp

Exam Code:NS0-180

Exam Name:NetApp Certified Storage Installation
Engineer

Version:Demo

QUESTION 1

A remote administrator is connecting to a cluster from a different remote network.

According to NetApp best practices, which type of LIF routing is required to accomplish this task?

- A. cluster LIF
- B. data LIF
- C. cluster management LIF
- D. intercluster LIF

Correct Answer: B

Explanation: Data ONTAP services may initiate network connections from a node in the cluster. For example: AutoSupport, SNMP, time synchronization, and syslog. When a Node Management interface is configured and available, it is preferred for these connections. When Data ONTAP contacts name services like Active Directory, NIS, DNS, or LDAP, it prefers to initiate these connections from Data or SVM Management interfaces belonging to the Storage Virtual Machine (SVM). Note: A LIF role determines the kind of traffic that is supported over the LIF, along with the failover rules that apply and the firewall restrictions that are in place. The five LIF roles are:

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Cluster-management LIF

*

Node-management LIF

*

Cluster LIF

*

Data LIF

*

Intercluster LIF

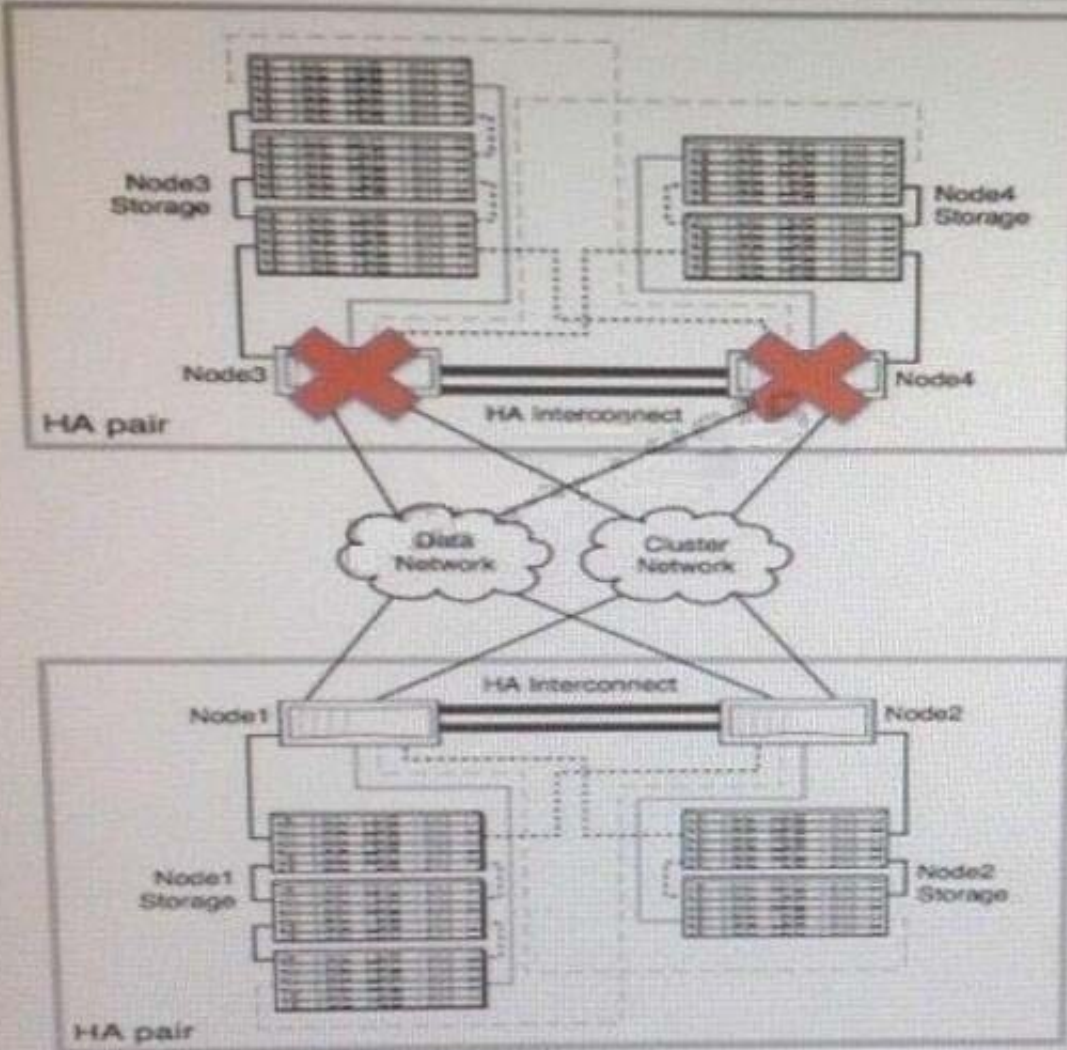
Reference: What LIF roles does clustered Data ONTAP use to establish connections to remote servers?

https://kb.netapp.com/support/index?page=content&id=3012724&locale=en_US

QUESTION 2

Click the Exhibit button.

Question Exhibit



A customer has a 4-node cluster and wants to know what will happen to their data if one of the two HA pairs goes down. Epsilon is configured and working properly and is owned by Node1. Nodes 3 and 4 have failed as shown in the exhibit.

What happens to the customer's data that is owned by the HA pair 3 and 4?

- A. Nodes 1 and 2 will takeover the storage for nodes 3 and 4 and continue running normally.
- B. The cluster will go into maintenance mode and only allow administrators access to data on nodes 1 and 2.
- C. The entire cluster will panic and no data will be accessible.
- D. The customer will lose access to the data on nodes 3 and 4 but will still have access to storage in nodes 1 and 2.

Correct Answer: A

Explanation: An HA pair is two storage systems (nodes) whose controllers are connected to each other directly. In this configuration, one node can take over its partner's storage to provide continued data service if the partner goes down.

Reference: Clustered Data ONTAP 8.3, High-Availability Configuration Guide, page 7

QUESTION 3

Which switch vendor is supported for the cluster network switches?

- A. Juniper Networks
- B. Cisco
- C. Brocade
- D. Hewlett-Packard

Correct Answer: B

Explanation: Cisco Nexus 50x0 switches can be deployed as NetApp cluster network switches. Reference: How to setup and configure the Cluster Network Switch

https://kb.netapp.com/support/index?page=content&id=1012684&locale=en_US

QUESTION 4

You were dispatched to install a cluster made up of FAS8060 and FAS8080 controllers. There are three FAS8060 controllers and three FAS8080 controllers.

Which solution would provide the largest possible cluster?

- A. a cluster made up of two nodes
- B. a cluster made up of four nodes
- C. a cluster made up of five nodes
- D. a cluster made up of six nodes

Correct Answer: D

QUESTION 5

When you create a single-node cluster, which statement is correct about the cluster base license key?

- A. A single-node cluster does not need any cluster-base license key.
- B. A single-node clustered Data ONTAP 8.1 license key is seven characters long.
- C. Clustered Data ONTAP 8.2 and 8.3 license keys are 14 characters long.
- D. A single-node cluster requires a cluster base key to use a cluster.

Correct Answer: D

Explanation: A Cluster Base Key required to create a Single-Node Cluster.

Incorrect:

Not A: A single-node Cluster requires a Cluster Base Key to run the create cluster command. Not B:

Clustered ONTAP 8.1 license keys are fourteen (14) characters long.

Reference: FAQ - Data ONTAP Licensing

https://kb.netapp.com/index?page=content&id=3013756&actp=LIST_POPULAR

QUESTION 6

Click the exhibit button.

The screenshot shows a web interface with two tabs: "Question" and "Exhibit". The "Exhibit" tab is active, displaying a table titled "Onboard Ports for FA52552 8.3 Clustered Data ONTAP (Click row to view supported cable)".

Port Address	Description	Max Data Rate
0a	Serial-Attached SCSI	6 Gbps
0b	Serial-Attached SCSI	6 Gbps
e0a	Ethernet	1 Gbps
e0b	Ethernet	1 Gbps
e0c/0c	Unified Target Adapter 2	16 Gbps
e0d/0d	Unified Target Adapter 2	16 Gbps

Below the port table, there is a section titled "Cable Compatibility for Port 0a". It has two tabs: "SAS 3 /6 Gbps (Cu)" and "SAS 3 /6 Gbps (Qp)". The "SAS 3 /6 Gbps (Cu)" tab is selected, showing a table of copper cables.

Mktg Part No	Mfg Part No	Images	Length	End 1	End 2
Copper Cables					
X8557-R6	112-00176	-	0.5m	QSFP	QSFP
X8594-R6	112-00256	-	1m	QSFP	QSFP
X8558-R6	112-00177	-	2m	QSFP	QSFP
X8595-R6	112-00255	-	3m	QSFP	QSFP
X6559-R6	112-00178	-	5m	QSFP	QSFP

At the bottom of the interface, there are three buttons: "Print Preview", "Export to PDF", and "Export to Excel".

You are installing a FAS2254 and a DS2246 disk shelf at a customer's site. The controller and disk shelf must be racked in separate rows in the data center due to available space. The customer wants you to use two of the 20-meter copper SAS cables to make connections.

Referring to the exhibit, which statement is correct?

- A. You will need to contract sales to obtain a wireless adapter.
- B. You will need to contract sales to obtain the 20 meter copper cables.
- C. The controller and disk shelf must be closer together if copper cables are to be used.
- D. You will need to contact sales to obtain an Ethernet adapter.

Correct Answer: C

Explanation: According to the exhibit the maximum copper cable length that can be used is 5 meters.

QUESTION 7

Upon completion of an installation, you have begun failover/giveback testing. You notice that when node-02 has been taken over by node-01, node-02 will not respond to ping requests.

Which statement describes what is happening?

- A. The controller is down and has been taken over by the partner, this is normal behavior during a failover.
- B. The controller that is up, node-01, does not have partner statements in the /etc/rc file.
- C. The controller that is down, node-02, does not have partner statements in the /etc/rc file.
- D. There are no ports in the LIFs\' broadcast domain that are linked.

Correct Answer: C

Explanation: We need to add a partner statement to the /etc/rc file on node-2.

QUESTION 8

Multiple customers want to access a cluster from different domains that may contain duplicate IP addresses.

In this situation, which feature should you use?

- A. IPspaces
- B. interface groups
- C. VLAN
- D. logical interfaces

Correct Answer: A

Explanation: IPspaces enable you to configure a single Data ONTAP cluster so that it can be accessed by clients from more than one administratively separate network domain, even if those clients are using the same IP address subnet range

QUESTION 9

What is s LIF?

- A. a logical internet file
- B. a logical inventory file
- C. a logical interaction file
- D. a logical interface

Correct Answer: D

Explanation: A LIF (logical interface) is an IP address or WWPN with associated characteristics, such as a role, a home port, a home node, a list of ports to fail over to, and a firewall policy. You can configure LIFs on ports over which the cluster sends and receives communications over the network.

Reference: Clustered Data ONTAP 8.3, Network Management Guide, page 54

QUESTION 10

Which three types of interface groups are supported on NetApp storage systems? (Choose three.)

- A. single mode
- B. HA interconnect
- C. IPspaces
- D. static multimode
- E. dynamic multimode

Correct Answer: ADE

Explanation: You can create three different types of interface groups on your storage system: single-mode, static multimode, and dynamic multimode interface groups.

Reference: Types of interface groups

<https://library.netapp.com/ecmdocs/ECMP1196907/html/GUID-EFA72201-E035-41E2-AC53CD81A472B5ED.html>

QUESTION 11

You are asked to install a cluster that consists of two FAS8060 controllers and four DS2246 shelves. The customer wants two stacks of shelves (10-11 and 20-21).

According to NetApp, how many SAS cables are required to complete this installation with MPHA?

- A. 10 SAS cables
- B. 12 SAS cables
- C. 8 SAS cables
- D. 6 SAS cables

Correct Answer: C

QUESTION 12

You have completed the installation of a 4-node cluster. The customer did not purchase management switches and will not allow your laptop on the network.

In this situation, what are two valid procedures that will allow you to collect the Config Advisor output? (Choose two.)

- A. Bring a switch that allows you to connect your laptop to all the switches and controllers.
- B. Connect to a single controller in the cluster since it can run commands on every node.
- C. Ask the customer to install and run Config Advisor on one of their PCs on the network.
- D. Connect four USB serial cables to your laptop to allow you to connect to all four controllers.

Correct Answer: BC