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Wayne  
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**Exam** : **NS0-158**

**Title** : NetApp Certified Data Administrator, ONTAP

**Vendor** : Network Appliance

**Version** : DEMO

**NO.1** Click the Exhibit button.

```
c11::> cluster show
```

Node	Health	Eligibility
c11-01	true	true
c11-02	true	true
c11-03	true	true
c11-04	true	true

4 entries were displayed.

```
c11::>
```

```
c11::> storage failover show
```

Node	Partner	Takeover Possible	State Description
c11-01	c11-02	true	Connected to c11-02
c11-02	c11-01	true	Connected to c11-01
c11-03	c11-04	true	Connected to c11-04
c11-04	c11-03	true	Connected to c11-03

4 entries were displayed.

```
cli::>
```

An administrator has a 4-node FAS8200 cluster, as shown in the exhibit.

A failover process is initiated to reboot node c11-02.

Regarding storage failover giveback processes, which statement is true?

- A.** During giveback, node c11-01 simultaneously returns ownership of both root and data aggregates to c11-02.
- B.** During giveback, node c11-01 returns ownership of all aggregates to c11-02, before reverting the data LIFs back to the home ports.
- C.** During giveback, node c11-01 returns ownership of the root aggregate to c11-02 before returning ownership of the data aggregates.
- D.** During giveback, node c11-01 moves ownership of the root aggregate to c11-04 and ownership of the data aggregates to c11-04.

**Answer:** C

Explanation:

The following process takes place in a normal giveback. In this discussion, node A has taken over node B.

Any issues on Node B have been resolved and it is ready to resume serving data.

References: <https://library.netapp.com/ecmdocs/ECMP1196905/html/GUID-E8DC7475-49ED-4397-9F00-AC5CB2875CA5.html>

**NO.2** A customer has a 1,000 GB volume used as a NAS share that has 3x 100 GB files and has no existing Snapshot copies.

The customer creates a Snapshot copy of the volume, adds a 500 Gb file to the volume, and then deletes one of the 100 GB files from the volume.

How much free space is in the volume in this scenario?

- A.** 500 GB
- B.** 200 GB

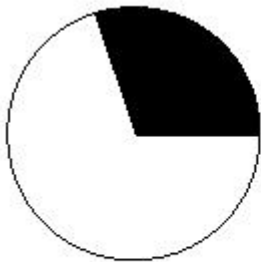
C. 300 GB

D. 600 GB

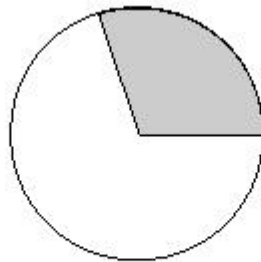
**Answer:** B

Explanation:

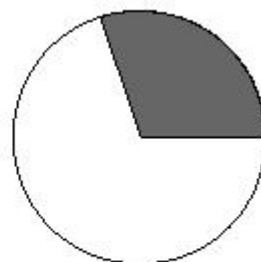
Snapshot copies minimize disk consumption by preserving individual blocks rather than whole files. Snapshot copies begin to consume extra space only when files in the active file system are changed or deleted. When this happens, the original file blocks are still preserved as part of one or more Snapshot copies.



Before any Snapshot copy is created, disk space is consumed by the active file system only.



After a Snapshot copy is created, the active file system and Snapshot copy point to the same disk blocks. The Snapshot copy does not use extra disk space.



After *myfile.txt* is deleted from the active file system, the Snapshot copy still includes the file and references its disk blocks. That is why deleting active file system data does not always free disk space.

- Space used by the active file system
- Space used by the Snapshot copy only
- Space shared by the Snapshot copy and the active file system
- Unused disk space

References: <https://library.netapp.com/ecmdocs/ECMP1368826/html/GUID-CF9E77A6-BDD9-4138-A281-FC0E7BEA4C6D.html>

**NO.3** Which NetApp management tool verifies the disk-shelf cabling of an existing NetApp cluster?

A. System Setup

B. Config Advisor

C. OnCommand Unified Manager

D. OnCommand System Manager

**Answer:** B

Explanation:

NetApp Config Advisor is a tool that will allow you to check the health and ensure your NetApp infrastructure is adhering to NetApp best practices.

Once the Config Advisor query finishes, view the results and take corrective action on any configuration issues:

Config Advisor 4.2 (Clustered Data)

Nodes: fas-netapp-01 (FAS8040), fas-netapp-02 (FAS8040)

Network Interfaces | **Cabling** | System Config Summary | Aggregate Info

Logical Interface	Role	Port	Switch	Operational Speed (Mbps)
clus1	cluster	e0a		10000
clus2	cluster	e0c		10000
mqmt1	node-mqmt	e0M		1000
snapmirror	data	a0a-705		10000

Configuration Check Profile : Clustered Data ONTAP Install Checks

Filters:  All Devices  Only Selected Devices

Fact L	Category	Rule Target	Risk / Description
			modify' com
			Flow Contro
			ports e0a,e0
			control to no

References: <http://bestpracticetips.com/tag/config-advisor/>

**NO.4** You are configuring an ONTAP solution for FC host connectivity. In this scenario, how should the cluster be configured? (Choose two.)

- A. The SVM must be configured for Ethernet LIFs.
- B. FC ports must be configured as initiators.
- C. FCP must be licensed on the cluster.
- D. FC ports must be configured as targets.

**Answer:** CD

Explanation:

You can configure the FC and the FCoE protocols on the SVM for SAN hosts.

LIFs are created on the most suitable adapters and assigned to port sets to ensure data path redundancy.

Based on your requirements, you can configure either FC, FCoE, or both the protocols.

Before you begin

The FCP license must be enabled on the cluster.

All the nodes in the cluster must be healthy.

Each node must have at least two correctly configured ports for each protocol (FC and FCoE).

**NO.5** You have a FlexVol volume with LUNs and need to set policies to prevent an ENOSPC error on the host.

In this scenario, which two commands will keep the LUN available to the host? (Choose two.)

- A. volume autosize
- B. snapshot autodelete
- C. snapshot delete
- D. volume size

**Answer:** B,C

Explanation:

ENOSPC is a UNIX operating system error that sometimes returns the message Not enough space is

available to service your request." The error message occurs because of a shortage of file system space or lack of available media blocks.

You can delete Snapshot copies manually, or automatically by enabling the Snapshot autodelete capability for the volume.

Define and enable a policy for automatically deleting Snapshot copies by using the volume snapshot autodelete modify command.

You can use the snap delete command to delete a Snapshot copy before the preset interval to free disk space or because it is a manual Snapshot copy that is no longer needed but is not going to be automatically deleted.

Note: We get ENOSPC errors because Data ONTAP lets the Snapshot copy grow into the volume space. Every write in WAFL is a write to a new block. If an old block is part of a Snapshot copy, Data ONTAP needs to preserve the old block and the new changed block.

This is not a problem specific to NetApp. Every storage vendor who supports a snapshot feature has to deal with it. There are two options when there is no space to accommodate the Snapshot copies: References: <https://community.netapp.com/fukiw75442/attachments/fukiw75442/backup-and-restore-discussions/5980/1/tr-3633.pdf>

**NO.6** To log in to the cluster with OnCommand System Manager, a cluster administrator account must be authorized for which two application types? (Choose two.)

- A. HTTP
- B. SSH
- C. ONTAPI
- D. service processor

**Answer:** A,C

Explanation:

You must have a cluster user account configured with the admin role and the http, ontapi, and console application types.

References: <https://library.netapp.com/ecmdocs/ECMP1636037/html/GUID-0E8373DA-D297-4FBA-9C4D-3AD3C169D37F.html>

**NO.7** When a two-node cluster is expanded, which cluster configuration would be supported?

- A. a 4-node switched cluster
- B. a 4-node switchless cluster
- C. a 3-node switched cluster
- D. a 3-node switchless cluster

**Answer:** A

Explanation:

If you are adding nodes to a two-node switchless cluster, you must have installed and configured the cluster management and interconnect switches before adding additional nodes.

The switchless cluster functionality is supported only in a two-node cluster.

References: <https://library.netapp.com/ecmdocs/ECMP1636037/html/GUID-B13FF812-785E-4E62-9914-30E7A8F51A4C.html>