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QUESTION 1

You are setting up a switchless 2-node cluster. You must ensure that it is set up correctly. Which two commands would you execute to complete this task? (Choose two.) onfigured true

- A. cluster ha modify ode ata
- B. not int modify luster modify true
- C. network options switchless
- D. net int create

Correct Answer: AC

Explanation: Enabling cluster HA and switchless-cluster in a two-node cluster If you have a two-node switchless configuration that uses direct-cable connections between the

nodes instead of a cluster interconnect switch, you must ensure that the switchless-cluster- network option is enabled.

This ensures proper cluster communication between the nodes.

Stepscluster ha modify -configured true

If storage failover is not already enabled, you will be prompted to confirm enabling of both storage failover and auto-giveback.

set -privilege advanced

Confirm when prompted to continue into advanced mode. The advanced mode prompt appears (*>).

network options switchless-cluster show

If the output shows that the value is false, you must issue the following command:

network options switchless-cluster modify true

set -privilege admin

Reference: Enabling cluster HA and switchless-cluster in a two-node cluster

<https://library.netapp.com/ecmdocs/ECMP1196905/html/GUID-CE8ADA56-E05B-4398-A7E2-05C7BD816467.html>

QUESTION 2

You are asked to install a 6-node cluster of FAS8080 controllers. The installation has been completed and Config Advisor shows no warnings or errors. The customer can ping and access the controller. Which statement is true in this scenario?

- A. This installation has not been completed successfully until you have confirmed that SSH is enabled.
- B. This installation has not been completed successfully until the customer and NetApp Support have received a minimum of three AutoSupport messages.



- C. This installation has been completed successfully only if you have confirmed that the configuration is correct.
- D. This installation has been completed successfully, because Config Advisor would identify the missing configuration.

Correct Answer: C

Explanation: Config Advisor is a configuration validation and health check tool. It is used to check for common configuration errors. You can use the Config Advisor tool to verify that the cluster is cabled correctly. After Config Advisor indicates that no errors is found, you must complete protocol configuration and verify cluster setup.

Reference: Clustered Data ONTAP 8.3, Express Setup Guide for 80xx Systems, page 33

QUESTION 3

Which two statements are true regarding SSDs? (Choose two.)

- A. SSDs are only available in 400 GB sizes.
- B. SSDs must be in different RAID groups than HDDs.
- C. SSDs are available for multi-disk carrier shelves.
- D. The Maintenance Center is not available for SSDs.

Correct Answer: BD

Incorrect:

Not A: There are, for example, 100 GB, 200 GB, and 800 GB SSD sizes. Not C: Disks in multi-disk carriers always have the Data ONTAP disk type of MSATA.

QUESTION 4

You are planning to update your running switch environment. You need to determine if certain conditions exist before the FASTPATH software and reference configuration file (RCF) on a NetApp CN16xx cluster switch can be installed. Which condition must exist in this scenario?

- A. You must set the port configuration to default for all ports before running the portcfgdefault port- number command.
- B. The cluster must be a fully functioning cluster (no error log messages or other issues).
- C. All ISL ports must be moved to a different switch.
- D. You can only update your switch environment within offline windows.

Correct Answer: B

Explanation: The following conditions must exist before installing the FASTPATH software and reference configuration file (RCF) on a NetApp CN16xx cluster switch:

*

The cluster must be a fully functioning cluster.



*
There must be no defective cluster NICs and all connected ports on both cluster switches must be functional. *All cluster ports must be up.

*
All cluster logical interfaces (LIFs) must be up and must not have been migrated.

*
The Data ONTAP (privilege: advanced) cluster ping-cluster -node node1 command must indicate that larger than PMTU communication is successful on all paths.

*
You must consult the switch compatibility table on the NetApp CN1601 and CN1610 Switches page for the supported FASTPATH, RCF, and Data ONTAP versions. T Reference: Installing FASTPATH software and RCF files on NetApp Cluster switches, page 1

https://library.netapp.com/ecm/ecm_download_file/ECMP11694144

QUESTION 5

What are two supported cluster interconnect switches for the FAS8040 nodes? (Choose two.)

- A. Cisco Catalyst 2960
- B. Cisco NX5596
- C. NetApp CN1610
- D. NetApp CN1601

Correct Answer: BC

Explanation: Cisco NX5596 is a cluster interconnect switch. NetApp CN1610 is a cluster interconnect switch that can be used for FAS8040 nodes.

Incorrect:

Not A: The Cisco Catalyst 2960 is not a cluster interconnect switch. Not D: NetApp CN1601 is a cluster management switch.

Reference: Clustered Data ONTAP 8.3, Express Setup Guide for 80xx Systems

QUESTION 6

A customer has a six-node cluster running NFS and FCP. The customer wants to add nodes to the cluster. How many nodes would be added in this scenario?

- A. 18



- B. 4
- C. 6
- D. 2

Correct Answer: D

QUESTION 7

While testing storage failover, you receive an error message indicating that you have a disk inventory mismatch. What is a reason for the error message?

- A. unsupported disks
- B. cabling problems
- C. Flash Cache problems
- D. unowned disks

Correct Answer: D

QUESTION 8

Which technology allows NetApp to ship replacements for defective parts automatically?

- A. SLDIAG
- B. OnCommand System Manager
- C. Call Home
- D. AutoSupport

Correct Answer: D

Explanation: The NetApp AutoSupport family helps you optimize your data center by providing simple, effective, proactive monitoring and management of your storage infrastructure.

*

AutoSupport is an integrated and efficient monitoring and reporting technology that checks the health of AutoSupport-enabled NetApp systems on a continual basis. It's an effective troubleshooting tool for you and for the NetApp Support team.

*

Remote Support Diagnostics Tool (RSDT) helps NetApp Support solve storage-system issues for you--without your intervention.

*



My AutoSupport is a Web-based application that works with AutoSupport.

Incorrect:

Not A: System-level diagnostics (SLDIAGs) provides a command-line interface for tests that search for and determine hardware problems on supported storage systems. You use system-level diagnostics to confirm that a specific component

is operating properly or to help identify faulty components. Not B: OnCommand System Manager provides fast, simple configuration and management for NetApp FAS storage systems. Not C: Call Home is a function within AutoSupport. You

can verify that AutoSupport is working by using the Call Home Check function.

Reference: <http://www.netapp.com/se/services-support/autosupport.aspx>

QUESTION 9

Your customer has four disk shelves attached to an HA pair of nodes running clustered Data ONTAP 8.3. One disk shelf has six SSDs and 18 HDDs installed. They want to know how to partition the SSDs to use them in a flash pool aggregate.

In this situation, what should you tell the customer?

- A. Flash pool aggregates must have whole SSDs assigned, not partitions.
- B. When the disks are assigned to a storage pool, they are automatically partitioned into four equal parts that can be assigned to an existing aggregate where the partition will be used as flash storage by the assigned aggregate.
- C. All SSDs in a mixed disk system are partitioned to a 25% and a 75% partition. The larger partition can be used for data.
- D. When the disks are assigned to a storage pool, you can partition each disk into as many partitions as needed. A partition can be assigned to an existing aggregate where the partition will be used as a flash storage by the assigned aggregate.

Correct Answer: B

Explanation: Advanced drive partitioning for Flash Pool segments each drive into four pieces.

Reference: Clustered Data ONTAP 8.3: A Proven Foundation for Hybrid Cloud <http://community.netapp.com/t5/Tech-OnTap-Articles/Clustered-Data-ONTAP-8-3-A-Proven-Foundation-for-Hybrid-Cloud/ta-p/92703>

QUESTION 10

You want to create a data volume on aggr0 and you receive a message with the following warning:

```
Warning: You are about to create a volume on a root aggregate. This may cause severe performance or stability problems and therefore is not recommended. Do you want to proceed?
```

What is the reason for this severe performance or stability problem?

- A. Controller failover and storage failover are separate processes that must occur in parallel, otherwise problems will



arise.

- B. The performance load generated by the data volume can be very strong, so it should not be shared with vol0 on aggr0, requiring a separate aggregate for it.
- C. The performance load generated by the vol0 cannot be shared with any other volume on aggr0, requiring a dedicated aggregate for it.
- D. Controller failover and storage failover are separate processes that must occur at different times, otherwise problems will arise.

Correct Answer: B

Explanation: One possibly cause is Disk I/O contention on the data volume.

The root volume in Cluster-Mode is used to store and update various tables of the replicated database. Crucial information regarding the locations of LIFs, volumes, aggregates, and different jobs required to run in the cluster are stored in

these tables. If a root aggregate has very busy data volumes, the disks in the aggregate will experience higher latency. When a node is unable to update its copy of the replicated database fast enough, it will consider itself unhealthy and stop

serving all the data until it can catch up. This is extremely disruptive and affects all the volumes on the node, even if the cause is related to the data volumes stored on the root aggregate only.

Reference: Why is a warning displayed when attempting to create one or more data volumes in the root aggregate in Data ONTAP Cluster-Mode?

https://kb.netapp.com/support/index?id=3013563andpage=contentandlocale=en_US

QUESTION 11

How would you install the disk shelves?

- A. Install the solid state disks first, then the DS2246 shelf so that the solid state disks are as close to the top of the stack as possible.
- B. Install the spinning disk shelf first and put the solid state disks at the end of the stack.
- C. Advise the customer that solid state disks cannot exist on the same stack as spinning disks.
- D. Move the disk drives around to create two shelves that are half solid state and half spinning drives.

Correct Answer: A

Explanation: As SSDs are faster they should be put close to the top of the stack.

Incorrect:

Not C: The DS4246 disk shelf only supports high-capacity disk configurations and "Mixed Shelf" SSD configurations that combine SSDs with high-capacity disk drives. Not D: Place the SSD disk shelves in a separate stack other than the disk

shelves containing SAS disks. Because the potential high IOPS, thus high SAS I/O bandwidth utilization, we don't want



to be limited by our backend SAS I/O. As NetApp states; "Full SSD shelves (24 SSDs) are best placed in their own stack".

Reference: Clustered Data ONTAP 8.3, Physical Storage Management Guide, page 25

QUESTION 12

You are assigned to install two DS2246 shelves, three DS4243 shelves, and one DS4486 shelf. How many rack units (U space) should you account for in this rack layout?

- A. 6U
- B. 20U
- C. 10U
- D. 22U

Correct Answer: B

Explanation: DS2246 rack units: 2U (Here: 2*2 -> 4U) DS4243 rack units: 4U (Here: 3*4 -> 12U) DS4286 rack units: 4U (Here: 1*4 -> 4U)

Total: 20U (4+12+4)

Reference: NetApp Disk Shelves and Storage Media Technical Specifications

<http://www.netapp.com/se/products/storage-systems/disk-shelves-and-storage-media/disk-shelves-tech-specs.aspx>

QUESTION 13

What happens to the NTP configuration in clustered Data ONTAP 8.3 when a node joins a cluster?

- A. A node that joins a cluster has a separate NTP service.
- B. A node that joins a cluster automatically adopts the NTP configuration of the cluster.
- C. A node that joins a cluster must be manually configured in the NTP.
- D. A node that joins a cluster must reboot before running the NTP service.

Correct Answer: B

Explanation: A node that joins a cluster automatically adopts the NTP configuration of the cluster.

Reference: How to configure and troubleshoot NTP on clustered Data ONTAP 8.2 and later using CLI
<https://kb.netapp.com/support/index?page=content&id=1014787>

QUESTION 14

You are performing an installation of a clustered Data ONTAP and you reach the AutoSupport configuration point. You



configured AutoSupport with all of the customer's information. But when you trigger AutoSupport, the customer says that they did not receive the message, and neither did NetApp.

Which two actions must be verified? (Choose two.)

- A. You can ping the mailhost from the NetApp storage systems.
- B. The customer has enabled port 25 from the storage controllers on their firewall.
- C. The customer has enabled routing of email-based messages from the storage controllers on their email server.
- D. You can ping the NetApp Support site from the storage systems.

Correct Answer: AB

Explanation: A: Check that the mail host specified in the options is a host that the storage system can talk to, by running the following command on the storage system:

```
ping mailhost_name
```

mailhost_name is the name of the mail host specified in the AutoSupport options.

B: The customer firewall must let SMTP (port 25) messages go through their firewall. Reference: How to troubleshoot AutoSupport delivery when using SMTP

https://kb.netapp.com/index?page=content&id=1014216&dactp=LIST_POPULAR

QUESTION 15

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

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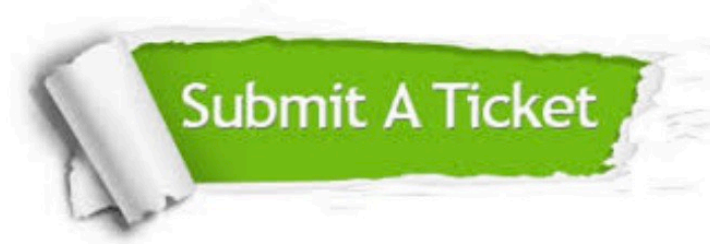
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