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Question 1

After adding new nodes to an HCP G10 system, which two actions should be performed? (Choose two.)

Options:

A- Upgrade the new nodes software

B- Run the capacity balancing service

C- Adjust the region count

D- Reboot all the new nodes

Answer:

A, B

Explanation:

After adding new nodes to an HCP G10 system, the following actions should be performed:

Upgrade the new nodes' software: Ensuring that the newly added nodes are running the same software version as the existing nodes is essential for compatibility and stability within the cluster.

Run the capacity balancing service: This service redistributes data across all nodes in the cluster to ensure balanced storage utilization and optimal performance, especially after the addition of new nodes.

Hitachi Vantara Content Platform Installation Reference:

These steps are necessary to maintain consistency, stability, and efficient use of resources within the HCP system after scaling up by adding new nodes.

Question 2

You are installing an HCP G10 and are setting up the BIOS.

What are two requirements when configuring in the BIOS? (Choose two.)

Options:

A- The BMC IP address, net mask and gateway should be set

B- Fast boot should be enabled

C- PXE should be disabled for all interfaces

D- The OS virtual disk should be selected as boot device

Answer:

A, D

Explanation:

When setting up the BIOS for an HCP G10, two key requirements are:

The BMC (Baseboard Management Controller) IP address, net mask, and gateway should be set: This configuration enables remote management and monitoring of the HCP G10 node, allowing administrators to manage the node even when the operating system is not running.

The OS virtual disk should be selected as the boot device: This ensures that the node boots from the correct storage device where the operating system is installed, which is essential for the system to operate correctly.

Hitachi Vantara Content Platform Installation Reference:

Proper configuration in the BIOS is critical for managing and booting the HCP G10 node effectively, as outlined in the installation instructions.

Question 3

Which combination of trays allows a HCP S31 to be configured to its maximum capacity?

Options:

A- 1 x 4U106 and 2 x 4U100

B- 1 x 4U100 and 8 x 4U106

C- 1 x 4U100 and 2 x 4U106

D- 1 x 4U100 and 1 x 4U106

Answer:

B

Explanation:

To configure an HCP S31 to its maximum capacity, the combination of 1 x 4U100 and 8 x 4U106 trays is used. The 4U100 is a 4U enclosure that can hold 100 drives, while the 4U106 is another 4U enclosure that holds 106 drives. This combination allows for the highest possible storage density and capacity, leveraging the different tray sizes to maximize the total available storage.

Hitachi Vantara Content Platform Installation Reference:

The configuration maximizes the storage capacity supported by the HCP S31 system, as specified in the installation and hardware configuration guidelines.

Question 4

What is a requirement for a running HCP system to maintain quorum for cluster operations?

Options:

A- minimum 50% of the nodes

B- minimum 50% of the nodes + quorum LUN

C- minimum 50% of the nodes + Command Device

D- minimum 50% of the nodes + 1 node

Answer:

D

Explanation:

For a running HCP (Hitachi Content Platform) system to maintain quorum for cluster operations, a majority of nodes must be operational. Specifically, this means that at least 50% of the nodes + 1 node must be available to achieve quorum. Quorum is necessary to maintain consistency, availability, and coordination among the nodes in the cluster, ensuring that the cluster can continue operating correctly in case of node failures. This configuration avoids split-brain scenarios where multiple parts of the cluster operate independently.

Hitachi Vantara Content Platform Installation Reference:

The quorum requirement is designed to ensure that a majority of nodes are always participating in cluster operations, providing a safeguard against data corruption and ensuring high availability.

Question 5

Question Type: **MultipleChoice**

You are performing a six-drive upgrade of an HCP G10 with local storage.

Which two statements are true? (Choose two.)

Options:

A- RAID level and Virtual Disks will be created automatically

B- The node is offline during this procedure

C- The node is online during this procedure

D- RAID level and Virtual Disks need to be manually created

Answer:

A, C

Explanation:

When performing a six-drive upgrade on an HCP G10 with local storage:

RAID level and Virtual Disks will be created automatically (A): This is correct. The system automatically handles the RAID configuration and creation of virtual disks to ensure that the new drives are correctly integrated into the existing storage structure.

The node is online during this procedure (C): This is also correct. The upgrade can be performed while the node remains online, minimizing disruption to the system's operation and ensuring continuous availability. These procedures are documented in the 'HCP G10

Maintenance and Upgrade Guide,' which outlines the steps for online upgrades and automatic RAID configuration.

Question 6

Question Type: **MultipleChoice**

A customer has an HCP system consisting of four G10 nodes and they want to expand the configuration with another four G11 nodes.

To implement this upgrade, what is the minimum HCP software version required?

Options:

A- Version 8.3

B- Version 8.5

C- Version 9.0

D- Version 10.1

Answer:

C

Explanation:

To expand an existing HCP system consisting of four G10 nodes with additional G11 nodes, the minimum required HCP software version is Version 9.0 (C). This version introduces support for mixed-node environments, allowing the integration of different node generations (e.g., G10 and G11) within the same cluster. It is essential to ensure compatibility and seamless operation across the different node types. The 'HCP Software Release Notes for Version 9.0' provides detailed information on the support for mixed-node clusters.

Question 7

Question Type: **MultipleChoice**

Which two statements are true about encryption for data at rest on an HCP system? (Choose two.)

Options:

A- The encryption key is displayed several times during the installation process.

B- SSH connection must be used to enable encryption during the installation process.

C- You must run the install program as root.

D- Once enabled, encryption cannot be disabled.

Answer:

C, D

Explanation:

You must run the install program as root (C): To enable encryption for data at rest on an HCP system, the installation program must be executed with root privileges. Running the installation as root ensures that the program has the necessary permissions to configure encryption settings and other critical system operations, such as accessing low-level disk management functions and securing data at rest.

Once enabled, encryption cannot be disabled (D): In the HCP system, once encryption is enabled for data at rest, it cannot be disabled. This is a security feature designed to ensure that sensitive data remains protected throughout its lifecycle on the platform. Disabling encryption after it has been enabled would pose significant security risks, hence the system is designed to prevent this action to maintain data integrity and security.

Other options, like the encryption key being displayed several times during installation (A) or the use of SSH to enable encryption (B), are not applicable to the HCP installation and encryption process. The encryption key is carefully protected, and SSH is not specifically required for enabling encryption.

Hitachi Vantara HCP Installation and Configuration Guide

Question 8

Question Type: **MultipleChoice**

Your customer wants to order an HCP G10 system with 2 PB usable capacity.

Which HCP G10 configuration is the most cost-effective solution for this customer?

Options:

A- HCP G10 with local storage and eight S10 nodes

B- HCP G10 with local storage and one S30 node

C- HCP G10 with a VSP G200 and four S10 nodes

D- HCP G10 with a VSP G600

Answer:

B

Explanation:

The most cost-effective solution for a customer requiring 2 PB of usable capacity is HCP G10 with local storage and one S30 node (B). This configuration leverages the local storage of the G10 along with the large storage capacity provided by the S30 node, which is optimized for large-scale, cost-effective storage. The S30 node can store a significant amount of data, making it a suitable choice for achieving the required capacity with fewer nodes, reducing costs. The 'HCP G10 and S30 Configuration and Sizing Guide' provides more details on cost-effective configurations for various capacity requirements.

Question 9

Question Type: MultipleChoice

What is the maximum number of drives supported in one HCP S10 enclosure?

Options:

A- 24

B- 30

C- 60

D- 128

Answer:

C

Explanation:

The maximum number of drives supported in one HCP S10 enclosure is 60. The S10 enclosure is designed to accommodate a large number of drives to provide significant storage capacity in a relatively compact form factor. This drive density is essential for scaling storage in environments that require large data volumes. This configuration is detailed in the 'HCP S10 Hardware Configuration Guide,' which outlines the specifications and capacities of the S10 enclosures.

Question 10

Question Type: MultipleChoice

You are preparing to perform an offline upgrade on an HCP G10 and the pre-upgrade check procedure fails. The error message says that you do not have enough capacity on node 103 to perform the upgrade.

Which service procedure should you run to resolve this problem?

Options:

A- Recover an HCP Node

B- Free Space On Nodes

C- Install a Hotfix

D- Change Region Count

Answer:

B

Explanation:

If the pre-upgrade check procedure fails due to insufficient capacity on node 103 to perform the upgrade, the service procedure to run is Free Space On Nodes. This procedure helps to identify and clear unnecessary files or redistribute data, freeing up the required capacity on the node to proceed with the upgrade.

Hitachi Vantara Content Platform Installation Reference:

The 'Free Space On Nodes' procedure is specifically designed to manage and optimize storage capacity across HCP nodes, ensuring that upgrades and other operations have adequate space to execute successfully.

Question 11

Your customer has tested a new HCP G10 with an S10 node and they now want to re-install the S10 node before turning it into production.

What are three requirements? (Choose three.)

Options:

A- The S10 node must be retired in the HCP G10 System Management Console

B- The S10 node must be disconnected from the HCP G10 cluster

C- The S10 node must boot the installation package from the USB drive

D- The Genesis build must be manually started on the S10 node

E- The first-time setup wizard must be completed on the S10 node

Answer:

A, B, C

Explanation:

Before re-installing the S10 node for production:

The S10 node must be retired in the HCP G10 System Management Console: This step ensures the S10 node is correctly removed from the cluster management to avoid conflicts during re-installation.

The S10 node must be disconnected from the HCP G10 cluster: Disconnecting the node from the cluster prevents any unintended interactions with the current configuration.

The S10 node must boot the installation package from the USB drive: This is required to load the new installation environment onto the S10 node, ensuring a clean and fresh installation.

Hitachi Vantara Content Platform Installation Reference:

These steps are necessary to prepare the S10 node for reinstallation without causing disruptions to the existing HCP G10 cluster operations.