



HP

HPE0-S59

HPE Compute Solutions

Version: Demo

[Total Questions: 10]

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Question #:1

Put the steps of the HPE infosight flow in the correct order.

Answer:

Explanation

(observing, learning, predicting, recommending, acting)

- ➔ **Observing:** The first step involves collecting and monitoring data from the infrastructure. HPE InfoSight continuously gathers telemetry data from various components, including storage, compute, and networking devices.
- ➔ **Learning:** In this step, the collected data is analyzed to identify patterns and trends. Machine learning algorithms process the data to understand the normal behavior of the system and detect anomalies.
- ➔ **Predicting:** Based on the learned patterns, HPE InfoSight can predict potential issues before they occur. This predictive analysis helps in identifying areas that might cause problems in the future.
- ➔ **Recommending:** After predicting potential issues, HPE InfoSight provides actionable recommendations to prevent or resolve these issues. These recommendations are based on best practices and the vast amount of data analyzed by InfoSight.
- ➔ **Acting:** Finally, the recommendations are implemented to optimize the performance and reliability of the infrastructure. This step may involve configuring settings, applying updates, or other actions to maintain the health of the system.

Reference: HPE InfoSight Overview

Question #:2

What is a limitation when creating a server profile?

- A. BIOS settings can be changed only when UEFI optimized is selected as boot mode
- B. ILO management is limited to the integration with Active Directory or LDAP
- C. Administrator cannot define more than 8 connections within a server profile
- D. It is not possible to create shared volumes on demand through a server profile

Answer: A

Question #:3

What is one benefit of the infrastructure that underlies HPE GreenLake for File Storage within HPE Private Cloud AI?

- A. It is cost-effective and resilient, based on NVMe drives in HPE ProLiant servers.
- B. It provides 100% data availability.
- C. It is based on local drives on the AI-optimized nodes to accelerate data access.
- D. It is based on Lustre for massive scalability.

Answer: C

Explanation

HPE GreenLake for File Storage is a key component of the **HPE Private Cloud AI** architecture, designed to provide the high-throughput, low-latency performance required for AI workloads.

- ➔ **Hardware Foundation:** The infrastructure underlying this service is based on the **HPE Alletra Storage MP** platform. These modular "MP" (Multi-Protocol) nodes are built using standard **HPE ProLiant Gen11** hardware components. By leveraging the proven ProLiant ecosystem, HPE ensures the solution is both cost-effective (due to global supply chain efficiencies) and highly resilient (utilizing enterprise-grade power supplies, fans, and management via iLO).
- ➔ **NVMe Performance:** To handle the massive data requirements of AI model training and inference, the infrastructure utilizes all-NVMe drives. This provides the parallelism and speed necessary to feed hungry GPUs without the bottlenecks associated with traditional SAS or SATA storage.
- ➔ **Disaggregated Architecture:** Unlike legacy systems, this infrastructure separates performance (compute nodes) from capacity (JBOFs/Storage shelves), allowing the environment to scale efficiently as data grows.

Why other options are incorrect:

- ➔ **Option B:** While Alletra MP **Block** storage offers a 100% availability guarantee, the **File** persona is designed for extreme durability and high availability but is typically marketed with 99.9999% (six nines) availability rather than the absolute 100% block storage claim.
- ➔ **Option C:** HPE Private Cloud AI uses **shared storage** (Alletra MP) rather than local drives on the worker nodes. This ensures data persistence and allows multiple GPU nodes to access the same datasets simultaneously.
- ➔ **Option D:** HPE GreenLake for File Storage is powered by the **VAST Data** software stack, not Lustre. While Lustre is common in classic HPC, the VAST-based HPE solution is preferred for modern enterprise AI due to its ease of management and superior data reduction capabilities.

Question #:4

You need to configure a RoCE network to enable lossless networking for HPE J2000 Flash Enclosure support. Which interconnects are required to support this connection? (Select two.)

- A. HPE Virtual Connect SE 40Gb F8 Module for HPE Synergy
- B. HPE Virtual Connect SE 16Gb FC Module for HPE Synergy
- C. HPE Virtual Connect SE 100Gb F32 Module for HPE Synergy
- D. HPE Virtual Connect SE 32Gb FC Module for HPE Synergy
- E. Brocade 16Gb Fibre Channel SAN Switch Module for HPE Synergy
- F. Brocade 32Gb Fibre Channel SAN Switch Module for HPE Synergy

Answer: A C**Explanation**

To configure a RoCE (RDMA over Converged Ethernet) network for HPE J2000 Flash Enclosure support, you need interconnects that support high-bandwidth, low-latency Ethernet connections. The HPE Virtual Connect SE 40Gb F8 Module and the HPE Virtual Connect SE 100Gb F32 Module for HPE Synergy are suitable choices, as they provide the necessary capabilities for RoCE and lossless networking.

Reference: HPE Synergy Interconnect Modules

Question #:5

Which statement about manual orchestration during the firmware update is true?

- A. It is supported only for logical enclosures with at least three frames
- B. It provides an ability to select and update one side of the Interconnect topology at a time

- C. It provides the ability to install an older firmware version than currently Installed In the interconnect
- D. It allows all the interconnect modules to be activated manually at the same time.

Answer: B

Explanation

Manual orchestration during a firmware update allows administrators to control the update process more precisely. Specifically, it enables the selection and update of one side of the interconnect topology at a time. This capability is particularly useful in maintaining network availability and minimizing downtime during the update process, as one side can be updated and verified before proceeding to the other side.

Reference: HPE OneView Firmware Update Guide

Question #:6

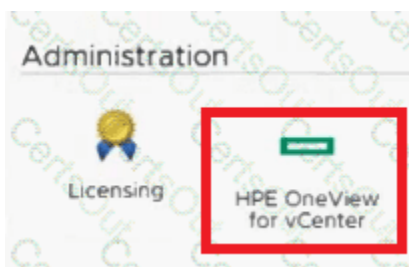
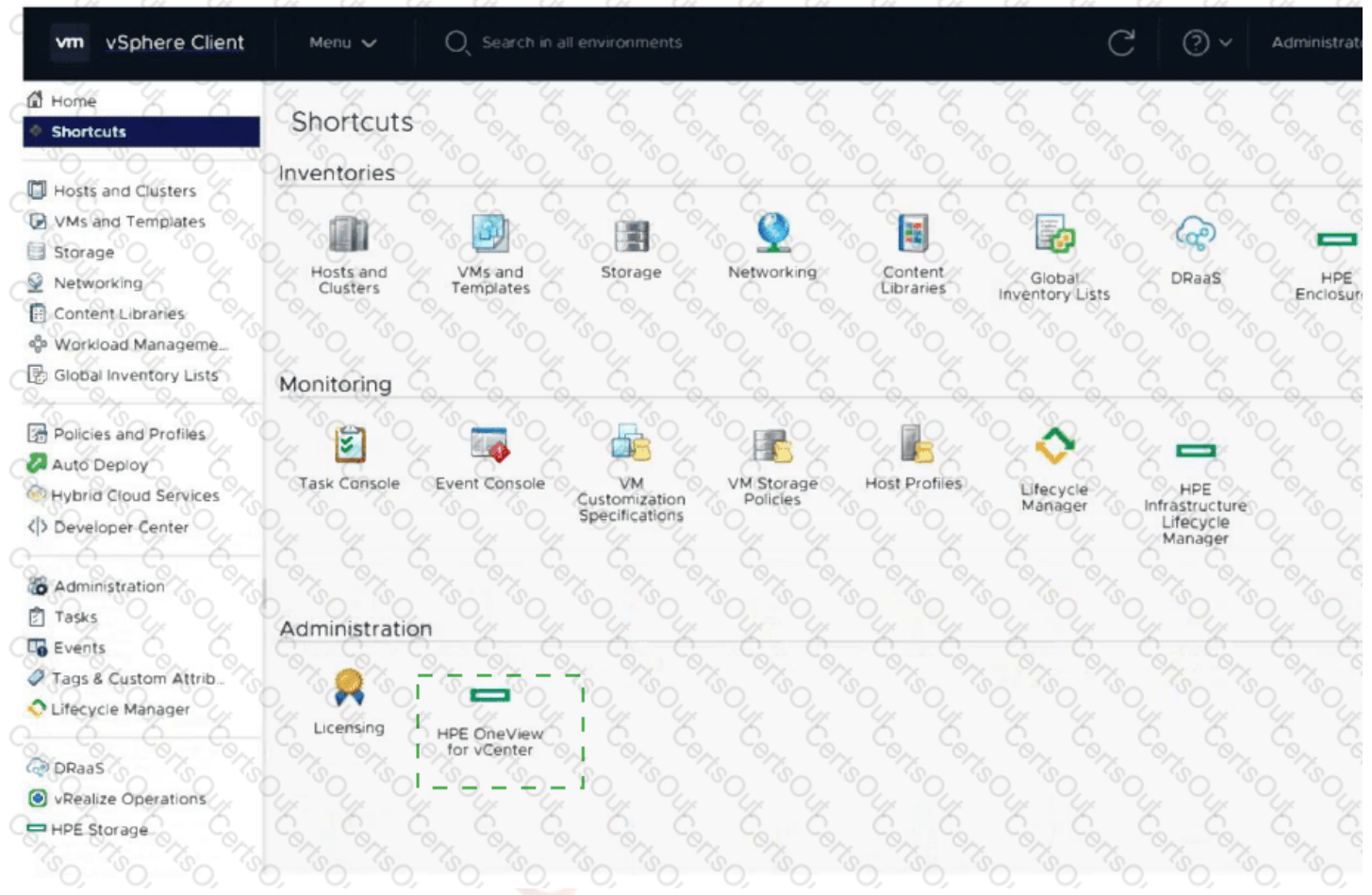
Click the option that will allow you to update the HPE Synergy logical enclosure firmware.

Answer Area

The screenshot displays the HPE OneView vSphere Client interface. The top navigation bar includes the 'vm vSphere Client' title, a 'Menu' dropdown, a search bar for 'Search in all environments', and an 'Administrat' button. The left sidebar contains a 'Shortcuts' menu with various categories like 'Hosts and Clusters', 'VMs and Templates', 'Storage', 'Networking', 'Content Libraries', 'Workload Manage...', 'Global Inventory Lists', 'Policies and Profiles', 'Auto Deploy', 'Hybrid Cloud Services', 'Developer Center', 'Administration', 'Tasks', 'Events', 'Tags & Custom Attrib...', 'Lifecycle Manager', 'DRaaS', 'vRealize Operations', and 'HPE Storage'. The main content area is divided into three sections: 'Inventories' (Hosts and Clusters, VMs and Templates, Storage, Networking, Content Libraries, Global Inventory Lists, DRaaS, HPE Enclosure), 'Monitoring' (Task Console, Event Console, VM Customization Specifications, VM Storage Policies, Host Profiles, Lifecycle Manager, HPE Infrastructure Lifecycle Manager), and 'Administration' (Licensing, HPE OneView for vCenter). The 'HPE Enclosure' icon is highlighted in the 'Inventories' section.

Answer:

Answer Area



Question #:7

A company needs to provide object storage to applications running on their HPE servers. Which HPE solution should you recommend?

- A. HPE Alletra MP X10000
- B. HPE Solutions with Weka
- C. HPE Solutions with Qumulo

D. HPE Alletra MP B10000

Answer: A

Explanation

The **HPE Alletra Storage MP X10000** is the specific HPE solution designed to deliver high-performance, scale-out **object storage**. As HPE transitioned its storage portfolio to the modular "MP" (Multi-Protocol) hardware platform, it introduced distinct software-defined personas for different data types.

- ➔ **HPE Alletra MP X10000 (The Object Specialist):** This model is optimized specifically for unstructured data and massive-scale object workloads. It provides a cloud-native, S3-compatible interface, making it ideal for modern application development, active data lakes, and AI training sets. It leverages a disaggregated architecture that allows capacity and performance to scale independently.
- ➔ **HPE Alletra MP B10000:** The "B" series is designated for **Block and File** services. While it is a versatile platform providing mission-critical performance with 100% availability guarantees, it is not the primary recommendation when the requirement is specifically for an object storage service.
- ➔ **HPE Solutions with Weka/Qumulo:** While HPE partners with Weka and Qumulo for high-performance file systems that *can* support object protocols (like S3), these are typically categorized as "File-first" solutions or specialized third-party integrations. The **X10000** is the first-party, flagship HPE Alletra branded solution for dedicated high-performance object storage.

Key Technical Advantages of X10000 for Object Storage:

- ➔ **S3 Native API:** Provides the standard interface required by modern applications for object access.
- ➔ **Exabyte Scalability:** Designed to handle massive growth in unstructured data without the performance bottlenecks found in traditional NAS.
- ➔ **Cloud-Managed:** Fully integrated into the **HPE GreenLake** cloud console for unified management alongside block and file services.

Question #:8

Your customer plans to deploy HPE OneView for VMware vCenter Server together with HPE Storage Integration Pack for VMware vCenter. The customer wants to use them to manage HPE Synergy Gen10 compute modules, HPE ProLiant Gen 10 servers and an MSA array.

Which statement about compatibility of the existing environment with the planned software components is true?

- A. Both HPE Synergy Gen10 full-height compute module plugins will require a license
- B. HPE OneView for VMware vCenter Server does not support standalone HPE ProLiant servers
- C. To use the required plugins HPE ProLiant Gen10 systems must be managed using HPE OneView

D. HPE Storage integration Pack for VMware vCenter does not support MSA arrays

Answer: D

Question #:9

In the past a customer experienced a networking issue where network ports went down and came back up in quick succession.

Which HPE Virtual Connect SE 100 GD F32 Module for HPE Synergy feature can be configured to disable such ports?

- A. Pause flood protection
- B. sFlow
- C. Storm control
- D. Port flap protection

Answer: D

Explanation

Port flap protection is a feature of the HPE Virtual Connect SE 100Gb F32 Module for HPE Synergy that can be configured to disable ports experiencing frequent up and down transitions. This feature helps to stabilize the network by preventing the disruptive effects of port flapping.

Reference: HPE Virtual Connect SE 100Gb F32 Module for HPE Synergy User Guide

Question #:10

What benefit is provided by the buffer design in HPE SN 4000 Series (NVIDIA Spectrum) switches?

- A. It offers multiple shared pools with configurable sizes to meet the needs of different stages of the ML /DL lifecycle.
- B. It is segmented across port groups to ensure confidentiality for sensitive data.
- C. It is shared to better handle bursty traffic, such as for AI workloads.
- D. It is split across each port to ensure losslessness for critical traffic.

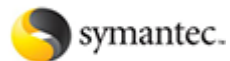
Answer: C

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