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## HP Advanced HPE Storage Architect Solutions Written Exam Sample Questions (Q51-Q56):

### NEW QUESTION # 51

An administrator needs to cable a new HPE Alletra MP B10000.  
Match the number in the graphic below with its description. Not every answer will be used.

**Answer:**

Explanation:

Explanation:

- \* Admin port: 2
- \* Back-end and cluster connectivity (southbound): 4
- \* Front-end connectivity (northbound): 3
- \* iLO Ethernet port: 1

The HPE Alletra MP B10000 architecture is defined by its disaggregated nature, separating the controller nodes from the physical

storage capacity. Proper cabling of these nodes is fundamental to ensuring the performance and manageability of the cluster.

The ports on the rear of a controller node are categorized by their function within the disaggregated ecosystem:

iLO Ethernet port (1): This is the dedicated management port for the Integrated Lights-Out (iLO) processor. It provides out-of-band management, allowing administrators to access the hardware's health, power status, and remote console regardless of the operating system state.

Admin port (2): This RJ45 port is used for the management plane of the storage OS. It allows the array to communicate with the HPE GreenLake Data Services Cloud Console (DSCC) or local management software for configuration and provisioning tasks.

Front-end connectivity / Northbound (3): These ports (typically located in PCIe slots 1 and 2) provide the "Northbound" path to the host fabric. They are populated with high-speed Fibre Channel or iSCSI adapters to facilitate data access for servers and applications.

Back-end and cluster connectivity / Southbound (4): In a disaggregated shared-everything (DASE) architecture, "Southbound" connectivity is critical. These ports (often 100GbE RoCEv2) connect the controllers to the storage fabric and the disaggregated NVMe JBODs. This allows every controller to see every drive in the cluster with ultra-low latency.

Understanding the distinction between Northbound (Host) and Southbound (Storage/Cluster) cabling is vital for a Master ASE.

Incorrectly cabling the Southbound ports can lead to a "cluster split" or performance bottlenecks, as the disaggregated architecture relies on high-bandwidth, redundant paths to the underlying flash media to maintain its mission-critical performance profile. Number 5 in the diagram often represents the Serial console port, which is utilized primarily for initial setup or low-level troubleshooting by HPE Support and is typically not included in primary functional matching.

### NEW QUESTION # 52

A customer has a diverse NoSQL big data and data analytics workload implementation. This workload runs on bare-metal servers to achieve the most efficient performance. The customer requires a new storage solution to meet their growing data needs. Which solution will be best for the customer?

- A. HPE GreenLake for Private Business Cloud Edition (PBCE)
- B. HPE Alletra Storage Server 4110
- C. HPE SimpliVity
- D. HPE Alletra dHCI

**Answer: B**

Explanation:

For workloads like NoSQL databases (e.g., MongoDB, Cassandra), Big Data analytics (e.g., Hadoop, Spark), and high-throughput data lakes, the primary performance bottleneck is often the latency and bandwidth between the compute and the storage media. When a customer specifies they are running on bare-metal servers to achieve "most efficient performance," they are looking for a solution that minimizes the overhead of hypervisors and provides direct, high-speed access to storage.

The HPE Alletra Storage Server 4000 series, and specifically the Alletra 4110, is purposefully engineered for this "Data-First" server-based storage market. The Alletra 4110 is a 1U, all-NVMe ultra-dense storage server that supports dual 4th or 5th Gen Intel Xeon Scalable processors and PCIe Gen5 throughput. Unlike traditional storage arrays that connect via a SAN, the Alletra 4110 functions as high-performance Software-Defined Storage (SDS) infrastructure. It is designed to run the application and the data storage on the same high-density nodes, or to act as a high-speed storage tier for bare-metal clusters.

Other options are less suitable for this specific "bare-metal NoSQL" requirement:

\* HPE SimpliVity (B) is a Hyperconverged Infrastructure (HCI) solution that is inherently tied to a hypervisor (VMware or Hyper-V), which contradicts the customer's bare-metal requirement.

\* HPE Alletra dHCI (C) is a disaggregated HCI solution that automates a SAN environment but is also centered around VMware virtualization.

\* HPE GreenLake for Private Cloud Business Edition (A) is a service-oriented offering primarily for managing virtualized private clouds.

The Alletra 4110 provides the massive I/O throughput (up to 315 GB/s of PCIe Gen5 bandwidth to SSDs) and the low-latency NVMe performance that NoSQL and analytics workloads demand, making it the superior architectural choice for bare-metal, data-intensive environments.

### NEW QUESTION # 53

A customer is considering purchasing an HPE StoreOnce solution to meet their VMware VM data protection needs. Which two Veeam features, paired with HPE StoreOnce, will validate the restoration of backups and allow the customer to easily create labs for validation testing from backups? (Choose two.)

- A. Veeam DataLabs

- B. Veeam Proxy-to-Proxy
- **C. Veeam SureBackup**
- D. Veeam Virtual Lock
- E. Veeam Data Immutability

**Answer: A,C**

Explanation:

The integration of Veeam Backup & Replication with HPE StoreOnce via the StoreOnce Catalyst protocol offers specialized features that transform static backup data into active assets for testing and verification. To address the specific requirements of validating restores and creating testing environments, Veeam utilizes the SureBackup and DataLabs features.

Veeam SureBackup is the primary feature used to validate the recoverability of backups. It automates the process of testing a backup by booting the VM directly from the StoreOnce repository in an isolated environment (Virtual Lab). It performs heartbeats, network tests, and application-specific tests (such as checking if a SQL database responds) to ensure the data is not just present, but functional. Because HPE StoreOnce Gen4+ systems feature flash-accelerated metadata and improved random read performance, they are "Veeam Ready" to support the I/O requirements of starting VMs for these verification tasks.

Veeam DataLabs (formerly known as Virtual Lab or On-Demand Sandbox) is the broader orchestration framework that allows customers to leverage their backup data for "Labs." By creating a DataLab, an administrator can spin up an isolated copy of the production environment from the StoreOnce backups. This is used for "validation testing," such as testing security patches, verifying application upgrades, or performing

"DevOps" tasks without impacting the production systems. Option C (Immutability) and Option E (Virtual Lock) are critical for ransomware protection but do not directly facilitate the "lab creation" or "validation testing" workflows described. Option A is a general data transfer mechanism. By selecting B and D, the storage architect ensures a solution that not only protects data but proactively proves its readiness for disaster recovery.

#### NEW QUESTION # 54

A company has a pair of Alletra 9000s, managed via the HPE GreenLake Data Services Cloud Console (DSCC). An administrator installed Kubernetes locally but requires persistent storage using the Alletra 9000s.

After installing the helm repo for the HPE CSI Driver for Kubernetes, what is the next step the administrator should perform to use the Alletra 9000s for persistent storage?

- A. Create a storage class that references the Alletra 9000s on the Kubernetes conductor.
- **B. Create a secret to allow the HPE CSI Driver to communicate with the Alletra 9000s.**
- C. Create a Kubernetes namespace for the HPE CSI Driver.
- D. Add the Kubernetes conductor credentials to the Alletra 9000s in the HPE GreenLake DSCC.

**Answer: B**

Explanation:

The deployment of the HPE CSI (Container Storage Interface) Driver involves several sequential steps to enable dynamic provisioning of storage on HPE Alletra 9000 arrays. Once the Helm repository has been added, the administrator must provide the driver with the necessary authentication and connectivity details for the storage backend.

According to the HPE Storage Container Orchestration Documentation (SCOD), the definitive next step to enable communication between the Kubernetes cluster and the Alletra 9000 is to create a Kubernetes Secret. This Secret contains critical parameters such as the storage array's IP address or FQDN, and the management credentials (username and password). Without this Secret, the CSI driver cannot authenticate against the Alletra 9000 REST API to perform volume creation, mounting, or snapshot operations.

While creating a StorageClass (Option C) is a required step, it follows the creation of the Secret. The StorageClass definition must specifically reference the name of the Secret to identify which storage backend should be used for a particular tier of service. Option A (creating a namespace) is often done as part of the helm install command itself (using the --create-namespace flag) and is a general administrative task rather than a storage-specific configuration step. Option D is incorrect as the Alletra 9000 does not pull credentials from the Kubernetes conductor; rather, the Kubernetes driver pushes requests to the array using the credentials stored in the Kubernetes Secret. Establishing this secure handshake via the Secret is the foundational step for all subsequent persistent volume (PV) and persistent volume claim (PVC) activities.

#### NEW QUESTION # 55

An administrator manages a group of HPE Alletra MP B10000 arrays through the DSCC console. They want to improve the available space for the storage arrays. What should the administrator change to increase the achievable space efficiency?

- A. Change the High Availability option to Enclosure Level.

- B. Change the High Availability option to Drive Level.
- C. Change the Sparing Algorithm to Minimal.
- D. Change the Sparing Algorithm to Default.

**Answer: B**

Explanation:

The HPE Alletra MP B10000 (Block) utilizes a disaggregated shared-everything architecture where capacity is distributed across multiple NVMe drives and enclosures. To ensure 100% data availability, the system allows administrators to define the level of resilience required via the High Availability (HA) settings.

Architecturally, there is a direct trade-off between the level of hardware resilience and the achievable space efficiency (usable capacity).

\* Enclosure Level HA (Option D): This is the most resilient setting. It ensures the system can survive the total failure of an entire drive enclosure (JBOF) without losing data. To achieve this, the system must distribute parity and data stripes across different enclosures. This "vertical" redundancy requires a larger percentage of raw capacity to be reserved for parity, thereby reducing the net space efficiency.

\* Drive Level HA (Option A): This setting protects against individual drive failures (similar to traditional RAID 6 or RAID-TP) but assumes the enclosure itself remains operational. Because the stripes can be optimized more densely within fewer hardware boundaries, the system requires less "overhead" capacity to maintain the protection state.

By changing the High Availability option to Drive Level, the administrator instructs the Alletra MP software to prioritize usable capacity over enclosure-level fault tolerance. This is a common optimization for customers who have multi-enclosure systems but prefer to maximize their ROI on raw NVMe flash. It is important to note that changing this setting may require a re-stripping of existing data and should be done in accordance with the customer's risk profile and SLA requirements. The sparing algorithms (Options B and C) manage how much space is set aside for automatic rebuilds, but the primary driver of bulk space efficiency in a multi- enclosure MP cluster is the HA policy selection.

## NEW QUESTION # 56

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