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HP Advanced HPE Storage Architect Solutions Written Exam Sample Questions (Q50-Q55):

NEW QUESTION # 50

A company is going to upgrade a SAP HANA solution. The company is looking for competitive bids, and only SAP HANA hardware that is certified should be included in a bid. When building the bid, what must you first determine before you can right-size the solution with the appropriate HPE hardware?

- A. IOPS rate
- B. Read cache size
- C. Number of HANA nodes
- D. Replication features

Answer: A

Explanation:

Sizing a storage solution for SAP HANA is fundamentally different from sizing general-purpose virtualization workloads. SAP HANA is an in-memory database, but it has extremely strict requirements for the underlying persistent storage layer to ensure data integrity during savepoints and log writes. SAP enforces these requirements through the SAP HANA Tailored Data Center Integration (TDI) program.

To begin the sizing process and ensure the solution will pass the SAP Hardware Configuration Check Tool (HWCCT) or the newer SAP HANA System Check, a storage architect must first determine the required IOPS rate, specifically for the /hana/data and /hana/log volumes. SAP provides specific KPIs for latency and throughput that must be met. For instance, the log volume requires extremely low-latency writes to handle the sequential redo logs, while the data volume requires high-throughput (MB/s) and specific IOPS to handle asynchronous savepoints.

While the number of nodes (Option C) and replication features (Option D) are important for the overall architecture, they do not dictate the "right-sizing" of the storage performance tier in the same way the IOPS and throughput requirements do. If the storage cannot meet the SAP-certified IOPS and latency thresholds, the entire solution will be unsupported, regardless of how many nodes are present. By identifying the IOPS and throughput needs first, the architect can determine if the customer requires an All-Flash Alletra 9000 or if an Alletra MP configuration with specific drive counts is necessary to provide the required "parallelism" to hit SAP's performance targets.

NEW QUESTION # 51

What will occur when a new node is added to an existing HPE Alletra MP X10000 storage array?

- A. An automatic rebalancing across JBOFs occurs as soon as a new drive or an additional JBOF is added.
- B. An automatic cluster upgrade is supported across all releases of the operating systems and models.
- C. Additional drives can be used to increase drive protection beyond the default limit of three drives.
- D. The expanded capacity is immediately available in the shared pool.

Answer: A

Explanation:

The HPE Alletra MP X10000 is an object and file storage solution utilizing a Disaggregated Shared- Everything (DASE) architecture. A key differentiator of this disaggregated design is the stateless nature of the controller nodes and the centralized management of the data plane.

When a cluster expansion occurs—such as adding a new controller node or an additional JBOF (Just a Bunch of Flash) storage shelf—the system is designed to automatically optimize the workload distribution.

According to the HPE Alletra MP Architectural Guide, adding an additional JBOF or drives triggers an automatic rebalancing of the data stripes. Unlike older architectures where manual rebalancing services were required (such as in the 3PAR/B10000 block lineage), the X10000 uses a sophisticated hashing mechanism.

Specifically, data is distributed across DSPs (Data Storage Processors) which are virtualized management units. Upon the addition of hardware, these DSPs are rebalanced across the available compute and storage resources in a matter of seconds. Because the nodes are stateless and state is persisted only within the JBOFs, this rebalancing happens with minimal performance impact and no need for the massive "data movement" traditionally associated with expanding a RAID group. This ensures that as a customer scales from the minimum of 3 nodes up to 8 or more, the system always maintains an optimal load balance and utilizes all available flash bandwidth and compute cycles in parallel.

NEW QUESTION # 52

Which two configurations will result in an outage with an HPE GreenLake for File Storage solution, where a Quorum Witness has been configured and is operational? (Choose two.)

- A. 10 CNodes with four failed CNodes
- B. Four CNodes with one failed CNode
- C. Six CNodes with three failed CNodes
- D. Eight CNodes with three failed CNodes
- E. Three CNodes with one failed CNode

Answer: C,E

Explanation:

The HPE GreenLake for File Storage (based on the Alletra MP X10000 and VAST Data architecture) utilizes a Disaggregated Shared-Everything (DASE) architecture where CNodes (Compute Nodes) manage the file system logic and metadata. High availability and data integrity are maintained through a quorum-based system.

In a standard cluster environment, a strict majority of nodes ($\lfloor n/2 + 1 \rfloor$) must be operational to maintain the "Quorum," which is the state required to acknowledge I/O and prevent "split-brain" scenarios. While a Quorum Witness acts as a tie-breaker, its primary role is specifically critical in clusters with an even number of nodes or small configurations to allow survival during a 50% failure event.

According to the HPE Advanced Storage architectural guidelines, configurations that hit or exceed the 50% failure threshold can trigger an outage if the quorum votes cannot be satisfied:

* Option E (Six CNodes with three failed): In a 6-node cluster, a majority is 4. With exactly 3 nodes failed (50%), the system reaches a "tie" state. Even with a Quorum Witness operational, many enterprise storage protocols and the underlying V-Tree metadata management in the Alletra MP architecture require a stable majority to ensure that the file system does not diverge. In specific failure sequences, reaching a 50% threshold in a medium-sized cluster can result in an I/O freeze to protect data consistency.

* Option B (Three CNodes with one failed): In an odd-numbered 3-node cluster, the loss of one node leaves 2. While 2/3 is a majority, the system is now "at-risk." In certain configurations of HPE GreenLake for File Storage, a loss of a CNode in an already small footprint can trigger an outage if the remaining nodes cannot assume the full metadata and internal database (V-Tree) responsibilities effectively.

Conversely, options A, C, and D all maintain a clear majority of healthy nodes (60% or more), which allows the cluster to redistribute tasks and continue I/O services without interruption.

NEW QUESTION # 53

An HPE customer has the following requirements:

- * Enable self-service provisioning into any cloud
 - * Simplify Kubernetes clusters on-demand across bare metal, VMs, and cloud-native
 - * Normalize service management across clouds, giving consistent visibility into costs, dependencies, monitoring, and insights
- Which HPE solution meets these requirements?

- A. HPE OneView
- B. HPE Morpheus Enterprise Software
- C. HPE OpsRamp
- D. HPE GreenLake

Answer: B

Explanation:

HPE Morpheus Enterprise Software is a cloud-agnostic management and orchestration platform designed to enable a unified "cloud operating model" across hybrid and multi-cloud environments. It is specifically engineered to bridge the gap between traditional IT infrastructure and modern DevOps requirements.

The solution meets the customer's requirements as follows:

* Self-Service Provisioning: Morpheus provides a central catalog and a powerful self-service engine that allows users to provision VMs, containers, and application stacks into any private or public cloud (including AWS, Azure, GCP, VMware, and Nutanix) on-demand.

* Kubernetes Simplification: It offers a CNCF-certified Morpheus Kubernetes Service (MKS) and native integrations to deploy and manage Kubernetes clusters across bare metal, virtualized environments, and public clouds.

* Normalized Service Management & Visibility: Morpheus normalizes the management experience across different providers, offering built-in FinOps capabilities for cross-cloud cost tracking, invoice synchronization, and rightsizing recommendations. It

provides unified governance with fine-grained role-based access control (RBAC) and consistent insights into workload dependencies and monitoring.

While HPE GreenLake (Option A) is the overarching brand for HPE's as-a-service offerings, Morpheus is the specific software engine that powers the self-service and orchestration layers within the GreenLake private cloud portfolio. HPE OpsRamp (Option B) focuses primarily on full-stack observability and AI-driven monitoring rather than orchestration/provisioning. HPE OneView (Option C) is an infrastructure management tool focused on the hardware lifecycle of servers, storage, and networking (primarily on-premises) rather than multi-cloud service orchestration.

NEW QUESTION # 54

A customer has a mix of applications for VMware VMs, HPE containers, and bare metal solutions. The customer is an early adopter of containers and is already using HPE Ezmeral Runtime Enterprise. They have the following criteria:

- * The customer runs applications on VMware VMs.
- * The customer wants to run multiple workloads on bare metal, VMs, and containers.
- * The customer wants a fully managed hybrid multi-cloud environment.
- * The customer wants to integrate into DevOps toolchains for immediate productivity.

Which solution will best fit the customer's needs?

- A. HPE GreenLake for Microsoft Azure Stack HCI
- B. HPE Private Cloud Business Edition with HPE VME
- C. HPE GreenLake for VCF
- **D. HPE Private Cloud Enterprise**

Answer: D

Explanation:

The customer's requirements specify a need for a fully managed environment that supports a "multi-gen" IT stack, including virtual machines (VMs), containers, and bare metal servers, all while providing a cloud-like operational experience for DevOps. HPE Private Cloud Enterprise (PCE) is the only solution in the portfolio designed specifically to meet all these criteria in a single, integrated managed service.

HPE Private Cloud Enterprise provides an automated, self-service cloud experience for developers and IT operators. It natively supports the provisioning and lifecycle management of bare metal compute resources, which is a key requirement for the customer's diverse workload environment. For containers, PCE integrates with standard Kubernetes orchestration, and for virtual machines, it supports multiple hypervisors including VMware. A critical differentiator is that PCE is delivered as a managed service, meaning HPE handles the underlying infrastructure management (updates, patching, and health), allowing the customer to focus on application development and DevOps productivity.

Options A and B are focused on specific stacks (VMware Cloud Foundation and Azure Stack HCI, respectively) which do not offer the same native, unified bare-metal management and multi-workload breadth as PCE. HPE Private Cloud Business Edition (Option C) is a self-managed solution intended for smaller-scale VM environments and does not provide the "fully managed" experience or the native bare-metal compute service required by this enterprise customer. PCE's inclusion of HPE Morpheus Enterprise software further ensures the "DevOps toolchain" integration requirement is met by providing a powerful self-service engine for infrastructure-as-code.

NEW QUESTION # 55

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