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HP Advanced HPE Storage Architect Solutions Written Exam Sample Questions (Q21-Q26):

NEW QUESTION # 21

Order the steps for a write data path and a successful write IO in HPE GreenLake for File Storage using NAS.

Answer:

Explanation:

Explanation:

- * Data is sharded randomly across multiple SCM drives to increase throughput and decrease contention.
- * Data is written to two different SCM drives so no data is lost in the event of a SCM drive failure.
- * Metadata is updated in the internal data structure (tree) for consistency.

Comprehensive and Detailed 250 to 300 words of Explanation From Advanced Storage Solutions Architect documents and knowledge guide:

The write data path in HPE GreenLake for File Storage (powered by Alletra MP X10000 hardware and VAST Data software) follows a unique Disaggregated Shared-Everything (DASE) architecture. Unlike legacy NAS systems that use front-end caching or complex controller-to-controller talk, this solution leverages Storage Class Memory (SCM) as a persistent write buffer to provide high-sustained performance without the need for traditional data movement between tiers.

The process begins with sharding. When a NAS write request arrives, the system immediately shards the data randomly across multiple SCM drives in the cluster. This sharding is critical because it eliminates hot spots and contention by ensuring that no single drive or node becomes a bottleneck, effectively parallelizing the IO load across the entire storage fabric.

Once the sharding logic is determined, the data is physically written to the SCM tier. To ensure mission-critical resilience, every write is mirrored (written to two different SCM drives). Because SCM is non-volatile random-access memory (NVRAM), the write is persistent the moment it hits the media. This allows the system to send an immediate acknowledgement back to the client while protecting against a drive or node failure.

Finally, the metadata is updated in the internal data structure (the V-Tree). This step ensures the "View" of the file system remains consistent and that the global namespace reflects the newly written data. After this point, the data is asynchronously moved from SCM to high-capacity NVMe SSDs using wide-stripe erasure coding for long-term, efficient storage. This disaggregated flow allows the Alletra MP X10000 to scale performance and capacity independently while maintaining strict data integrity and consistency at AI-scale.

NEW QUESTION # 22

An HPE Partner is creating a proposal for an HPE customer that involves HPE Morpheus Enterprise. What does the partner need to determine to configure the correct number of Morpheus licenses in Online Config Advanced (OCA)?

- A. The license types are the Community Edition type
- B. The customer CPU count
- **C. The customer workload elements (WLEs) on-prem and in the public cloud**
- D. The customer VM count

Answer: C

Explanation:

HPE Morpheus Enterprise is a comprehensive multi-cloud management and orchestration platform that enables self-service provisioning and lifecycle management across private and public clouds. To accurately size and quote a Morpheus solution in tools like HPE Online Config Advanced (OCA), the primary licensing metric is the Workload Element (WLE), also frequently referred to as a Workload Element (WE) in some documentation.

A Workload Element is defined as a granular unit of compute directly associated with an application service that is being managed or inventoried by Morpheus. This includes:

- * Virtual Machines (VMs) on-premises (e.g., VMware vCenter, Hyper-V).
- * Instances in the public cloud (e.g., AWS EC2, Azure VMs, Google Cloud instances).
- * Bare metal servers if they are provisioned to run application services.
- * Container deployments (such as Kubernetes pods).

Importantly, Morpheus does not count supporting infrastructure like storage arrays, load balancers, or physical hypervisor hosts (e.g., the physical server running ESXi) as Workload Elements. Licensing is typically based on a concurrent model, meaning the customer must license the total number of WLEs under management at any given time, regardless of whether they are located on-

prem or in a public cloud.

Therefore, the partner must calculate the aggregate sum of all VMs and cloud instances the customer intends to manage to ensure the license quantity in OCA is correct.

NEW QUESTION # 23

A customer has an older HPE StoreOnce Gen3 data protection solution. They do not want to upgrade the hardware, but they do want to integrate the existing solution with AWS using HPE Cloud Bank Storage.

Other than HPE Cloud Bank licenses, what must also be included in the bill of materials (BOM)?

- A. StoreOnce VSA appliance license
- **B. RAM upgrade**
- C. Object store license
- D. Catalyst license

Answer: B

Explanation:

HPE Cloud Bank Storage is an extension of the StoreOnce Catalyst protocol that allows for the movement of deduplicated data to object storage in the cloud. When retrofitting this technology onto older HPE StoreOnce Gen3 hardware, there are specific hardware prerequisites that must be satisfied for the feature to be supported and performant.

The primary technical constraint on Gen3 systems (such as the StoreOnce 3100, 3500, 5100, and 5500) is the overhead required to manage the massive metadata associated with cloud-tiering. For the StoreOnce system to effectively index, deduplicate, and track data chunks residing in a remote AWS S3 bucket, it requires additional system memory. According to the HPE StoreOnce QuickSpecs and Configuration Guides, a RAM Upgrade Kit (Memory Upgrade) is a mandatory BOM component for Gen3 systems if the combined local and Cloud Bank Storage capacity will exceed the original system limits or if the Cloud Bank feature is being enabled for the first time on specific entry-to-midrange models.

Without the additional RAM, the Gen3 appliance may lack the necessary resources to run the Catalyst Cloud Bank services alongside local backup operations, leading to severe performance degradation or the inability to create a Cloud Bank store. While a Catalyst license (Option C) is technically required for Cloud Bank to function, most Gen3 customers seeking Cloud Bank already utilize Catalyst; however, the RAM upgrade is the physical hardware prerequisite that is often overlooked in "license-only" upgrades. Options A and B are incorrect as the VSA is a separate virtual product and the "Object store" is a destination, not a StoreOnce hardware component.

NEW QUESTION # 24

Which statement is correct regarding the HPE Timeless Program for the HPE Alletra Storage MP solutions?

- A. It requires an up-front reservation fee that is refunded when the customer extends their support.
- B. It requires a switched configuration of at least four CNodes and four DNodes.
- C. It must have a minimum of 32 cores per CNode and 92TB RAW of storage.
- **D. It must have a minimum of 16 cores per CNode and 42TB RAW of storage.**

Answer: D

Explanation:

The HPE Timeless Program is a strategic lifecycle management offering designed to future-proof customer investments in the HPE Alletra Storage MP platform (specifically the B10000 for Block). The program provides benefits such as a non-disruptive controller refresh at no additional cost after three or more years, all-inclusive software licensing, and a 100% data availability guarantee.

To qualify for the HPE Timeless Program, the storage configuration must meet specific minimum hardware requirements to ensure it can support future generations of controller technology without a "forklift" upgrade.

According to the HPE Master ASE Advanced Storage Architect training materials and program guidelines, the entry-level qualification for the Timeless benefit on Alletra MP requires the system to be configured with at least 16-core controller nodes (CNodes) and a minimum capacity threshold of 42TB RAW storage.

While the Alletra MP architecture supports 8-core, 16-core, and 32-core nodes, the 8-core "entry" models are often excluded from certain enterprise-level refresh programs because they may not provide sufficient overhead for the performance requirements of next-generation operating systems. Option C (32 cores and

92TB) represents a higher-tier mission-critical configuration but is not the minimum required for program eligibility. Option A is incorrect as the Alletra MP supports both switchless (2-node) and switched (multi-node) configurations, with switchless systems also being eligible. Option B is incorrect as the program is built into the support contract and purchase price rather than requiring a separate refundable "reservation fee".

NEW QUESTION # 25

An administrator needs to verify that the HPE plug-in was installed in VMware vCenter to correctly integrate with the HPE Alletra storage array. Use your cursor to place a + where the administrator can click to verify the plug-in installation.

Answer:

Explanation:

Explanation:

Configure

In a VMware vSphere environment, integrating HPE Alletra storage typically involves the installation of the HPE Storage Peer Motion Utility or the HPE Storage Connection Manager for VMware, which provides the VASA (vSphere APIs for Storage Awareness) provider functionality. This integration allows vCenter to manage storage arrays directly for tasks such as provisioning Virtual Volumes (vVols) and monitoring storage health.

According to the HPE Alletra Integration Guide for VMware, after the plug-in or provider is registered with vCenter, an administrator can verify its status through the vSphere Client UI. As shown in the exhibit (image_64a7b7.png), the administrator is currently viewing the Storage Providers section under the Configure tab of the vCenter object. This specific view is the correct location to verify that the HPE VASA provider is active and communicating. The list under "Storage Provider/Storage System" should show the Alletra array's URL and a status of "Active" or "Online." If the administrator wants to verify the registration of the UI-based plug-in itself (which adds specific HPE menus and dashboards), they should click the three dots (...) at the end of the navigation bar. This reveals additional hidden tabs where specialized vendor extensions, such as the HPE Storage dashboard, are located.

Successful installation is confirmed if the HPE-specific provider is listed with a valid certificate and the "Last Rescan" time is current. Failure to see the provider in this list indicates that the registration process (typically performed via the array's management console or a separate appliance) was not completed successfully, which would prevent the use of advanced features like Storage Policy Based Management (SPBM).

NEW QUESTION # 26

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