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HP Advanced HPE Storage Architect Solutions Written Exam Sample Questions (Q18-Q23):

NEW QUESTION # 18

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

- A. Additional drives can be used to increase drive protection beyond the default limit of three drives.

- B. An automatic cluster upgrade is supported across all releases of the operating systems and models.
- C. The expanded capacity is immediately available in the shared pool.
- D. An automatic rebalancing across JBOFs occurs as soon as a new drive or an additional JBOF is added.

Answer: D

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 # 19

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

Answer: A

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 # 20

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 # 21

A customer needs to replace their current data protection solution, including hardware and software. They have the following requirements:

- * A single data management platform for data protection of hypervisor, container, cloud, physical, database, and application workloads
- * Eliminate data silos across backups for files, objects, and archiving
- * Needs to support a large, scale-out NAS solution

What is the best solution for this customer?

- A. HPE GreenLake Flex with HPE Zerto and HPE StoreOnce appliances
- B. HPE GreenLake Flex with Commvault and HPE Alletra 4000 storage servers
- C. HPE GreenLake Flex with Cohesity and HPE Alletra 4000 storage servers
- D. HPE GreenLake Flex with Veeam and HPE Alletra 4000 storage servers

Answer: C

Explanation:

The customer's requirements focus on a single data management platform that can unify disparate backup tasks and eliminate data silos across files, objects, and archiving while supporting massive scale-out NAS.

The HPE Solutions with Cohesity (specifically Cohesity DataProtect and Cohesity SmartFiles) are architecturally designed to meet these specific needs.

Unlike traditional backup software that often relies on separate components for different data types, Cohesity provides a unique shared-nothing, scale-out architecture that consolidates secondary data onto a single platform. It natively supports a vast array of workloads including virtual machines, containers (Kubernetes), databases (SQL, Oracle, NoSQL), and physical servers. A core differentiator for Cohesity is its ability to act as a Scale-Out NAS via its SmartFiles feature, allowing it to manage PB-scale unstructured data without the performance bottlenecks found in traditional "siloes" storage.

When delivered via HPE GreenLake Flex, this solution is typically paired with HPE Alletra 4000 storage servers (such as the Alletra 4120 or 4140). These servers are density-optimized, storage-centric systems that provide the high-throughput and massive internal capacity required for a modern secondary storage environment. While Commvault (Option A) and Veeam (Option D) are powerful data protection suites, they are often used in conjunction with external target storage (like StoreOnce or Alletra MP) and do not always provide the same level of native, unified scale-out NAS and data silo elimination within a single management plane as the integrated Cohesity/Alletra 4000 stack.

NEW QUESTION # 22

A storage administrator is configuring a trunk between two Brocade fibre channel switches, but the trunk fails to initialize. What should the administrator do to solve this issue?

- **A. Install a trunking license.**
- B. Convert the ports to F-ports.
- C. Place the ports in different port groups.
- D. Reduce the number of ports in the trunk to 10.

Answer: A

Explanation:

In Brocade B-series Fibre Channel fabrics, ISL (Inter-Switch Link) Trunking is an optional licensed feature that allows multiple physical links between two switches to be aggregated into a single logical high-bandwidth pipe. While two switches can connect via a standard ISL without a specific license, the "Trunking" capability—which enables frame-level load balancing across those links—requires the ISL Trunking license to be installed and active on both participating switches.

According to the Brocade Fabric OS Administration Guide, if the license is missing or expired, the ports will function as individual ISLs rather than a unified trunk. This leads to the "failure to initialize" as a trunk, where the ports might stay in a "Master" or "Active" state individually but never form a "Trunk port" relationship. A common troubleshooting step after installing the license is to port-disable and then port-enable the affected ports to force the fabric to re-negotiate the trunking capability.

Options B and D are technically incorrect because trunking specifically requires E_ports (Expansion Ports) used for switch-to-switch connectivity; converting them to F_ports (Fabric ports) would make them intended for end-device (host/storage) connectivity, which does not support ISL trunking. Furthermore, for a trunk to form, the ports must be within the same physical port group on the ASIC (e.g., ports 0-7 or 8-15 on many fixed-port switches), making Option D the opposite of what is required for success. By ensuring the Trunking license is present, the administrator enables the hardware and software to utilize the Exchange-Based Routing (EBR) or frame-based trunking protocols necessary for the solution.

NEW QUESTION # 23

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