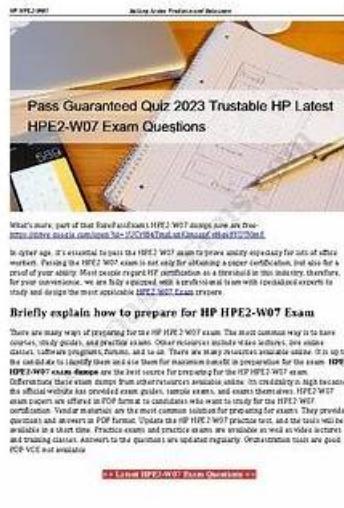


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HP Advanced HPE Storage Architect Solutions Written Exam Sample Questions (Q47-Q52):

NEW QUESTION # 47

What is a prerequisite for a successful Fibre Channel storage array Peer Motion migration?

- A. An N-Port ID Virtualization (NPIV) capable FC fabric between the source and destination.
- B. A direct connection between storage arrays via their FC ports.
- C. The configuration of a maximum of eight peer link pairs.
- D. IP connectivity to initiate and control the data migration.

Answer: A

Explanation:

The HPE Peer Motion Utility (PMU) and its integrated counterpart in HPE GreenLake and SSMC are designed for the non-disruptive migration of data between storage systems, such as from an HPE 3PAR to an HPE Alletra 9000 or Primera. A core requirement for the "Online" (non-disruptive) version of this migration is that the storage fabric must support and have N-Port ID Virtualization (NPIV) enabled.

Architecturally, Peer Motion relies on the destination array's ability to "masquerade" as the source array during the transition. When a volume is migrated, the destination array creates virtual ports using NPIV to inherit the identity (WWNs) of the source array's ports. This allows the host's multipathing software to see the new storage paths as if they were additional paths to the original volume, enabling a seamless transition without a server reboot or I/O interruption. According to the HPE Peer Motion Utility User Guide, if the SAN fabric (the switches) does not support NPIV or if NPIV is disabled on the specific ports, the migration utility will default to a Minimally Disruptive Migration (MDM) or an offline migration, both of which involve host-side downtime.

Furthermore, the fabric must be zoned such that the source and destination arrays can "see" each other to establish the Peer Motion relationship and handle the data orchestration. Option B is incorrect because while the management station (running the PMU) requires IP connectivity to send commands, the actual data movement and host-transparent pathing are strictly dependent on the FC fabric's NPIV capability. Option C is incorrect as fabric connections (via switches) are required; direct point-to-point connections between array FC ports are typically not supported for Peer Motion federations.

NEW QUESTION # 48

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

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

Answer: C

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 # 49

Match the fibre channel topology to its use case. Each answer will be used once.

□

Answer:

Explanation:

Explanation:

- * Meshed fabric: Has many-to-many connectivity and requires high performance.
- * Cascaded fabric: Data access is localized with servers and storage connected to the same switch.
- * Core-edge fabric: Data access is a mix of local and distributed.
- * Ring fabric: Accommodates diverse geographic conditions and location.

In the design of modern Storage Area Networks (SANs), selecting the right topology is critical for balancing performance, scalability, and cost. Each of these Brocade/HPE B-series architectures serves a specific workload profile:

Meshed Fabric: This design provides the highest level of redundancy and performance by connecting switches in an "any-to-any" pattern. Because every switch is connected to multiple other switches, it provides many-to- many connectivity and minimized "hop counts," making it ideal for high-performance environments where application traffic is unpredictable and widely distributed.

Cascaded Fabric: The simplest topology, where switches are connected in a serial or daisy-chain fashion. It is most effective in small environments where data access is localized-meaning the server and the storage it needs are physically connected to the same switch, minimizing Inter-Switch Link (ISL) traversal.

Core-Edge Fabric: The standard for enterprise data centers. Servers are connected to "Edge" switches, and storage is connected to a high-capacity "Core". This allows for a mix of local and distributed data access.

Large enterprises use this to scale easily by adding edge switches without disrupting the core storage connectivity.

Ring Fabric: By connecting switches in a closed loop, this topology is designed to accommodate diverse geographic conditions. If a single link between two locations fails, traffic can be re-routed the other way around the ring. This provides a cost-effective way to link multiple sites or campus buildings while maintaining fabric integrity.

NEW QUESTION # 50

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

Answer: D

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 portdisable and then portenable 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 # 51

A customer needs to replace its HPE Alletra 6000 storage array with either an HPE Alletra 9000 managed with GreenLake or an IBM FlashSystem solution. Which two advantages should an HPE Partner share with the customer as to why the customer should opt for the HPE storage solution? (Choose two.)

- A. Granular disaster recovery
- B. **Full stack automation with hybrid cloud**
- C. Fractional scaling

- D. AIOps for infrastructure
- E. Ransomware detection

Answer: B,D

Explanation:

When competing against IBM FlashSystem, HPE's primary differentiators lie in the intelligence of the management platform and the integration into the broader hybrid cloud ecosystem.

The first major advantage is AIOps for infrastructure, pioneered by HPE InfoSight. While IBM has Storage Insights, HPE InfoSight is widely considered the industry benchmark for deep-stack predictive analytics. It uses machine learning to analyze millions of sensor points across the global install base to predict and prevent up to 86% of problems before they occur. This goes beyond simple storage monitoring; it provides visibility into the "noisy neighbor" VMs and host-side issues that impact storage performance, providing a level of autonomous management that IBM's portfolio currently lacks.

The second advantage is Full stack automation with hybrid cloud. By managing the Alletra 9000 through the HPE GreenLake Data Services Cloud Console (DSCC), the customer transitions from managing a

"box" to a cloud-native operational model. This provides a unified API and a consistent management experience whether the data is on-premises or in the cloud. DSCC enables "Intent-Based Provisioning," where the user simply specifies the workload type and the cloud console automatically selects the best-suited array and volume parameters, ensuring optimal performance without manual tuning. This "Cloud Ops" model is a cornerstone of the HPE GreenLake strategy, offering a more streamlined, automated experience than the traditional management software typically associated with the IBM FlashSystem line. While IBM does offer ransomware features (Option C), HPE's focus on AIOps and hybrid cloud integration provides a more transformative operational benefit for most enterprise customers.

NEW QUESTION # 52

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