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HP Advanced HPE Storage Architect Solutions Written Exam Sample Questions (Q16-Q21):

NEW QUESTION # 16

Match the Brocade virtual fabric term with its description.

ISLs that are configured between an edge fabric E_Port and an FC Router EX_Port	Answer Area	
Connects two logical switches in two different chassis via the base switch to extend the fabric and maintain the logical partitioning		DISL
Directly connects two base switches that are in separate physical chassis together and has a link cost of 510		XISL
Used to link fabrics across geographic locations via FCR or FCIP		LISL
		IFL

Answer:

Explanation:

ISLs that are configured between an edge fabric E_Port and an FC Router EX_Port	Answer Area	
Connects two logical switches in two different chassis via the base switch to extend the fabric and maintain the logical partitioning	Directly connects two base switches that are in separate physical chassis together and has a link cost of 510	DISL
Directly connects two base switches that are in separate physical chassis together and has a link cost of 510	Connects two logical switches in two different chassis via the base switch to extend the fabric and maintain the logical partitioning	XISL
Used to link fabrics across geographic locations via FCR or FCIP	ISLs that are configured between an edge fabric E_Port and an FC Router EX_Port	LISL
	Used to link fabrics across geographic locations via FCR or FCIP	IFL

Explanation:

LISL: Directly connects two base switches that are in separate physical chassis together and has a link cost of 510

XISL: Connects two logical switches in two different chassis via the base switch to extend the fabric and maintain the logical partitioning

DISL: ISLs that are configured between an edge fabric E_Port and an FC Router EX_Port
IFL: Used to link fabrics across geographic locations via FCR or FCIP
 Brocade Virtual Fabrics (VF) allow a single physical switch to be partitioned into multiple logical switches, each with its own data and control planes. This architectural flexibility requires specialized Inter-Switch Link (ISL) types to maintain logical isolation across physical chassis.

LISL (Logical ISL): These are logical links that directly connect two Base Switches located in separate physical chassis. A defining characteristic of an LISL in Brocade Fabric OS is its default link cost of 510, which ensures it is typically used only for specific inter-fabric control traffic unless manually adjusted.

XISL (Extended ISL): An XISL is a transport link used to connect two logical switches residing in different physical chassis by tunneling through the Base Fabric. This allows the administrator to extend a single logical fabric across multiple physical devices while maintaining strict logical partitioning and reducing the number of physical cables required between chassis.

DISL (Dedicated ISL): These links are specifically configured between an edge fabric E_Port and an FC Router EX_Port. They are used in Fibre Channel Routing (FCR) topologies to provide a dedicated path for inter-fabric traffic between a standard fabric and a meta-fabric router.

IFL (Inter-Fabric Link): IFLs are the foundational links used to connect disparate fabrics across geographic locations. They utilize either Fibre Channel Routing (FCR) or FCIP tunneling to enable communication between devices in different fabrics without merging them into a single logical entity. This is a key component for large-scale disaster recovery and data distribution architectures where fabric stability and distance are primary concerns.

NEW QUESTION # 17

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

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 # 18

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

Answer: C

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.

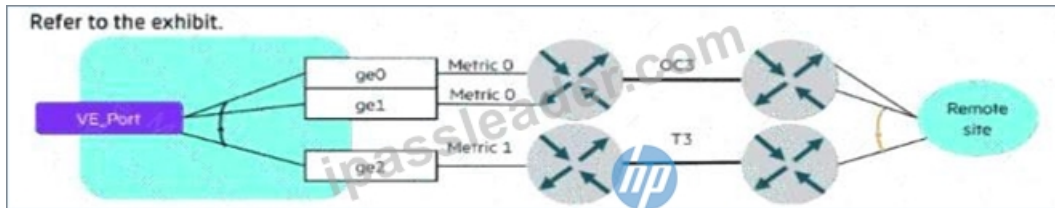
* HPE Alletra dHCI (C) is a disaggregated HCI solution that automates a SAN environment but is also centered around VMware virtualization.

* 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 # 19

An administrator needs to create an FCIP trunk connection between two data centers to interconnect their Brocade fibre data fabrics. Refer to the exhibit.



Based on this configuration, which statement is correct?

- A. This is a valid configuration. The trunk will have one active connection and two standby connections.
- **B. This is a valid configuration. The trunk will have two active connections and one standby connection.**
- C. This is an invalid configuration. FCIP trunks must be configured using fibre channel ports.
- D. This is an invalid configuration. FOP trunks must be configured with an even number of circuits.

Answer: B

Explanation:

In a Brocade FCIP (Fibre Channel over IP) environment, an extension trunk (or tunnel) can be composed of multiple circuits to provide both increased bandwidth and high availability. The operational state of these circuits-whether they are active or standby-is determined by the Metric assigned to each individual circuit.

According to the Brocade Fabric OS Extension Configuration Guide, all circuits within a tunnel or trunk have a metric of either 0 or 1.

* Metric 0: This is the default value and indicates an active circuit. If multiple circuits are configured with Metric 0, they will operate in an active-active mode, and the load will be balanced across them.

* Metric 1: This indicates a standby (or passive) circuit. Standby circuits with Metric 1 are not used for data transmission unless all Metric 0 circuits within that tunnel/failover group fail.

In the provided exhibit, there is a single VE_Port (Virtual E_Port) trunking three individual IP circuits:

* ge0 is configured with Metric 0 (Active).

* ge1 is configured with Metric 0 (Active).

* ge2 is configured with Metric 1 (Standby).

Therefore, this is a valid configuration where the system will utilize the two Metric 0 circuits (ge0 and ge1) simultaneously for data traffic, providing an active-active load-balanced connection. The third circuit (ge2) will remain in a standby state, only becoming active to maintain the link if both primary circuits go offline.

Options A and B are incorrect because trunks do not require an even number of circuits, and FCIP trunks are specifically established over Ethernet (ge) ports, not native Fibre Channel ports.

NEW QUESTION # 20

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

Answer: D

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 # 21

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