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1.What is true regarding 802.11k?

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HP Advanced HPE Storage Architect Solutions Written Exam Sample Questions (Q24-Q29):

NEW QUESTION # 24

An HPE Partner is talking to a potential customer about the HPE Alletra MP B10000 storage array solution. What is an important feature the partner should share with the customer?

- A. The behavior of common applications can be predicted with Workload Simulator.
- B. If locally decodable EC is implemented by the customer, this will increase rebuild time.
- C. When writing data into volatile memory, SCM is persistent with batteries.
- D. Stripe sizes vary from 16 (data) + 3 (parity) to 146 (data) + 3 (parity).

Answer: D

Explanation:

The HPE Alletra MP B10000 (Block storage) represents a paradigm shift in HPE's high-end storage strategy by utilizing a modular, disaggregated architecture. One of the most significant technical advantages of this platform is its Advanced Erasure Coding and the way it handles data layout across the disaggregated NVMe capacity.

According to the HPE Alletra MP technical deep-dive documents, the system does not use traditional fixed RAID groups. Instead, it uses a massive, distributed stripe mechanism. The software is capable of varying the stripe width dynamically based on the number of available drives and nodes in the cluster. This allows the system to achieve industry-leading capacity efficiency. Specifically, the system can utilize stripe sizes ranging from a minimum of 16+3 to a maximum of 146+3. This high data-to-parity ratio (e.g., 146 data segments for every 3 parity segments) allows customers to realize significantly higher usable capacity from their raw NVMe investment compared to traditional RAID 6 (6+2 or 8+2) or even typical erasure coding in competitive mid-range arrays.

Option A is technically incorrect because, in the Alletra MP, data is typically committed to persistent NVMe media or SCM (Storage Class Memory) in a way that doesn't rely on legacy battery-backed volatile DRAM in the same manner as older controllers. Option C is incorrect because Locally Decodable Erasure Coding is actually designed to reduce rebuild times by requiring fewer IOPS to reconstruct a missing fragment. Option D, while "Workload Simulator" is a tool used in sizing (NinjaStars), the most "important" architectural feature listed that differentiates the Alletra MP's efficiency is its unique and massive scaling stripe width.

NEW QUESTION # 25

An HPE customer purchased an HPE B-Series SN7000B SAN fabric switch. QoS is currently not enabled. Which two statements are correct regarding buffer-to-buffer (BB) credits and the operation of the switch? (Choose two.)

- A. Each user port reserves eight buffer credits when online or offline.
- B. BB credits can be adjusted for specific applications or operating environments, but they must be agreed upon among all switches to allow the formation of the fabric.
- C. By default, all BB credits are reserved.
- D. BB credits are based on link speed and frame size.
- E. The default window size for fibre channel (FC) frame transmission is 1, but can be increased to 8 or 16, depending on the switch model.

Answer: A,D

Explanation:

The HPE B-Series SN7000B is a high-performance Director based on Brocade Gen 7 (G7) technology.

Buffer-to-Buffer (BB) credits are the fundamental flow-control mechanism used in Fibre Channel to prevent frame loss and manage congestion.

Statement D is a foundational principle of SAN architecture: BB credits are based on link speed and frame size. In an FC fabric, the number of credits required to "fill the pipe" (keep data moving without waiting for acknowledgments) is a direct function of the Round Trip Time (RTT), which is determined by the physical distance, the speed of the link (e.g., 64Gb/s vs 32Gb/s), and the size of the frames being sent (typically 2KB).

As link speeds increase, more buffer credits are required to maintain full throughput over the same distance.

Statement C reflects a specific technical default in the Brocade Fabric OS (FOS) for Gen 7 hardware. To ensure that ports can initialize and handle basic traffic immediately upon being enabled, the switch reserves a default number of credits from the ASIC's global buffer pool. For user ports on these high-density blades, the system reserves eight buffer credits per port, regardless of whether the port is currently online or offline.

This reservation ensures that the port has the minimum resources necessary to complete a fabric login (FLOGI) or negotiate a link

without competing for pool resources.

Option E is incorrect because the entire pool is not reserved; a significant portion of the ASIC's buffers remains in a "shared pool" that can be dynamically allocated for long-distance links or high-demand ports via the "Extended Fabrics" feature. Option B is incorrect as it confuses the TCP windowing concept with FC credit-based flow control. Option A is incorrect because BB credits are a local port-to-port negotiation (link-level) and do not need a fabric-wide global "agreement" to form the fabric.

NEW QUESTION # 26

Which statement is correct concerning the hardware configuration of the HPE Alletra 5000 storage arrays?

- A. The head shelf must have the maximum number of SSD drives installed.
- B. A maximum of six SSD drives are supported across the entire system
- C. The SSD drives are installed in slots 22-24.
- D. Dual Flash Carriers support both SAS and NVMe SSD drives.

Answer: C

Explanation:

The HPE Alletra 5000 is a hybrid storage array family built on the legacy of the HPE Nimble Storage Adaptive Flash architecture. Its hardware design is optimized for a mixture of high-capacity Hard Disk Drives (HDDs) and high-performance Solid State Drives (SSDs) used for caching (CASL architecture).

The chassis is a 4U enclosure featuring 24 drive slots. To maintain consistent performance and thermal profiles, the architecture designates specific slots for different media types. According to the HPE Alletra

5000 Installation and Service Guide, the SSDs used for cache are housed in Dual Flash Carriers (DFC).

Each DFC can hold either one or two SSDs, allowing for a total of 3 or 6 cache drives per shelf. These DFCs are specifically required to be installed in the last three slots of the array, which are slots 22, 23, and 24.

The remaining 21 slots (slots 1 through 21) are populated with Large Form Factor (LFF) HDDs for the primary capacity tier.

Option B is incorrect because the system is flexible; it can be configured with a minimum of 3 SSDs (one in each DFC) and does not require the maximum of 6. Option C is incorrect because expansion shelves (like the HPE Alletra 2120) also support their own cache SSDs, meaning the "entire system" capacity for SSDs scales as shelves are added. Option D is incorrect because the Alletra 5000 is a SAS/SATA-based hybrid platform; it does not support NVMe SSDs in its drive slots. NVMe support is reserved for the all-flash Alletra 6000 and

9000 models. Understanding this physical slotting is crucial for site planning and field service operations to ensure the array initializes correctly.

NEW QUESTION # 27

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. Full stack automation with hybrid cloud
- B. Ransomware detection
- C. Fractional scaling
- D. Granular disaster recovery
- E. AIOps for infrastructure

Answer: A,E

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 # 28

An administrator is setting up Zerto for data protection. The Zerto Virtual Manager <ZVM> has been installed and configured. The administrator is ready to deploy the Zerto Virtual Replication Appliances (VRAs) Use your cursor to place a + on the ZVM screen to deploy the VRAs.

Answer:

Explanation:

Explanation:

Sites

The Zerto Virtual Replication Appliance (VRA) is a critical architectural component of the Zerto solution.

It is a lightweight Linux-based virtual machine that must be installed on every hypervisor host (ESXi or Hyper-V) in both the production and recovery sites that will host protected virtual machines. The VRA is responsible for intercepting the I/O writes from the VMs and asynchronously replicating them to the recovery site.

In the Zerto Virtual Manager (ZVM) web interface shown in the exhibit (image_649973.png), the management of site-level infrastructure is centralized within the "Sites" tab. By clicking on this tab, the administrator accesses the view for both local and paired remote sites. Within the Local Site details, there is a sub-tab for "VRAs" or "Hosts" where the administrator can see a list of all hosts managed by the connected vCenter or SCVMM.

To deploy a VRA, the administrator selects the host(s) currently missing the appliance and clicks the "Install" button. The ZVM then automates the deployment, configuring the VRA with the necessary network settings and registering it with the hypervisor. Notably, the "Active alerts" window in the exhibit explicitly provides a hint: it shows an alert stating that "Host esx-e02.telabs.local has no VRA installed". Clicking on the "Sites" tab is the foundational step to resolve this alert and finalize the infrastructure setup required to begin creating Virtual Protection Groups (VPGs).

NEW QUESTION # 29

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