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EMC D-PE-FN-01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Maintenance: This section of the exam measures the skills of Data Center Technicians and covers practical server maintenance procedures. Topics include handling memory and expansion cards, understanding power distribution, recognizing hardware fault indicators, and applying various firmware update methods. It also touches on thermal management through cooling techniques such as air, liquid, and immersion cooling, along with proper shutdown and reboot practices.
Topic 2	<ul style="list-style-type: none">Server Architecture and Roles: This section of the exam measures the skills of Server Support Engineers and focuses on understanding how various PowerEdge server types—like rack, tower, and blade servers—fit specific deployment needs. It covers interpreting server data flow, exploring storage topologies like DAS, NAS, and SAN, and understanding virtualization using hypervisors. The section also outlines how to position PowerEdge servers in edge, cloud, or core environments for use cases such as HPC, file sharing, or AI workloads.
Topic 3	<ul style="list-style-type: none">Server Management: This section of the exam measures the skills of Server Support Engineers and addresses server management concepts, including in-band and out-of-band management. It compares Dell management utilities, explains BIOS vs. UEFI, and introduces at-the-box management. The section also explores iDRAC versions and the features of the Dell OpenManage System Administrator Suite (OMSA) to ensure engineers can monitor and manage PowerEdge servers effectively.

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EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q31-Q36):

NEW QUESTION # 31

Which iDRAC feature enables administrators to directly connect a laptop for initial server implementation and IP configuration?

- A. Use iDRAC Direct for laptop connection and initial setup
- B. Access iDRAC Auto Discovery for automatic IP assignment
- C. Employ iDRAC Remote File Share for initial configuration
- D. Utilize the iDRAC Virtual Console for direct IP setup

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extracts: iDRAC Direct allows administrators to connect a laptop directly to a PowerEdge server via a USB or micro-USB port for initial setup and IP configuration, bypassing network dependency. This feature simplifies out-of-band management for tasks like network setup. Auto Discovery requires a network, Virtual Console is for remote access post-configuration, and Remote File Share is for file transfers, not initial setup. iDRAC Direct is ideal for direct server access. Exact extract: "Compare the PowerEdge Servers management applications, utilities, and licensing... Describe maintenance functions, shutdowns, reboots of a PowerEdge Server." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Server Management (18%).

NEW QUESTION # 32

A data center is designing its server deployment strategy and wants to minimize the usage of PCIe slots for network cards to maximize expansion for other components. Which advantage of the Open Compute Project (OCP) card best supports the goal of conserving PCIe slots for other expansion needs?

- A. OCP cards do not consume standard PCIe expansion slots.
- B. OCP cards offer higher network speeds than regular PCIe cards.
- C. OCP cards integrate video and USB ports, saving rear I/O space.
- D. OCP cards are hot-swappable, simplifying maintenance without downtime.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extracts: Open Compute Project (OCP) cards are designed to enhance network connectivity in PowerEdge servers without occupying standard PCIe slots, which is critical for data centers aiming to reserve PCIe slots for other expansion components like storage or GPUs. OCP cards use a dedicated mezzanine slot, providing high-speed networking while freeing up PCIe slots for additional functionality. Higher network speeds are a benefit but not the primary advantage for slot conservation. Hot-swappability is not standard for OCP cards, and video/USB integration is unrelated to PCIe slot usage. This aligns with strategic server deployment for scalability. Exact extract: "Compare the on-board network on a PowerEdge Server... Describe the cables and connections." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Server Networking and Connectivity (6%).

NEW QUESTION # 33

What benefit does Quick Sync provide regarding server management access?

- A. Allow server management without a front bezel or management console
- B. Provide advanced BIOS configuration options without server restart
- C. Eliminate the need for server physical reboot during management
- D. Enable remote server access using a dedicated network connection

Answer: A

Explanation:

Quick Sync in PowerEdge servers enables management tasks, such as configuration and monitoring, via a mobile device or laptop using NFC or Bluetooth, without requiring a front bezel or traditional management console. This simplifies access in constrained environments. It does not provide remote network access, BIOS configuration without restart, or eliminate reboots, focusing instead on direct, bezel-free management. Exact extract: "Compare the PowerEdge Servers management applications, utilities, and licensing... Describe maintenance functions, shutdowns, reboots of a PowerEdge Server." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Server Management (18%).

NEW QUESTION # 34

A business requires a storage protocol for their enterprise servers that can handle substantial storage and backup workloads and is compatible with SATA technology. Which protocol is ideal for enterprises needing significant storage and backup and is compatible with SATA?

- A. iSCSI
- B. EDSFF
- C. NVMe
- D. SAS

Answer: D

Explanation:

Serial Attached SCSI (SAS) is ideal for enterprise servers needing substantial storage and backup workloads, as it supports high-performance, reliable data transfer and is backward compatible with SATA drives, allowing flexibility in storage configurations. SAS handles large-scale I/O operations efficiently, unlike NVMe (optimized for speed, not SATA compatibility), iSCSI (network-based), or EDSFF (emerging form factor). SAS is prevalent in PowerEdge storage solutions for its robustness. Exact extract: "Explain the function of various storage components... Compare and contrast different storage topologies relevant to Dell PowerEdge servers: Direct Attached Storage (DAS), Network Attached Storage (NAS), and Storage Area Networks (SAN)." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Introduction to Servers (28%).

NEW QUESTION # 35

In ECC memory, how many extra bits are used for every 64-bit value to facilitate single-bit error correction, based on Hamming code?

- A. ECC uses 16 parity bits for every 64-bit data value.
- B. ECC employs 8 additional bits for every 64-bit value.
- C. ECC adds 32 error correction bits per 64-bit data segment.
- D. ECC uses 4 extra bits for every 64-bit value for correction.

Answer: B

Explanation:

Error Correcting Code (ECC) memory uses 8 additional bits for every 64-bit data value to detect and correct single-bit errors using Hamming code, resulting in 72-bit modules. This enhances data integrity in servers by repairing errors without interruption. Fewer bits (4) would only detect, not correct; more (16 or 32) are unnecessary for standard single-bit correction. ECC is beneficial in PowerEdge servers for reliable operations.

Exact extract: "Why is Error Correcting Code (ECC) memory beneficial in Dell EMC PowerEdge servers? D.

Can repair errors without interrupting other server operations... Describe the Memory and Expansion cards." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Introduction to Servers (28%) and Maintenance (18%).

NEW QUESTION # 36

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