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EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q42-Q47):

NEW QUESTION # 42

A server administrator must monitor a Dell PowerEdge server without installing any additional software. Which management tool must they use?

- A. OMSA
- B. OpenManage Enterprise
- C. SCG
- D. iDRAC

Answer: D

Explanation:

The Integrated Dell Remote Access Controller (iDRAC) is the built-in management tool for PowerEdge servers, allowing administrators to monitor hardware, performance, and alerts without additional software installation. iDRAC is embedded in the server's firmware, accessible via a web interface or CLI.

OpenManage Enterprise and OMSA require software installation, and SCG is not a standard Dell tool.

iDRAC provides out-of-band management for efficient monitoring. 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 # 43

An administrator needs a dedicated RAID solution for booting the server operating system, using fast NVMe drives and iDRAC management capabilities. Which Boot Optimized Storage Solution is a RAID card designed for booting server OS, using one or two M.2 NVMe drives and managed by iDRAC?

- A. PERC
- B. NVDIMM
- C. BOSS
- D. Intel Optane DC Persistent Memory

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extracts: The Boot Optimized Storage Solution (BOSS) is a specialized RAID card in PowerEdge servers designed for booting the operating system using one or two M.2 NVMe drives, managed via iDRAC for simplified configuration and monitoring. BOSS ensures fast, reliable OS boot performance with RAID redundancy. NVDIMM and Intel Optane are for memory persistence, not OS booting, while PERC is for general storage RAID, not specifically for boot drives. BOSS is tailored for this use case. Exact extract: "Explain the function of various storage components commonly found in Dell PowerEdge servers, such as Hard Disk Drives (HDDs), Solid State Drives (SSDs), RAID controllers, BOSS and M.2, and storage enclosures." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Introduction to Servers (28%).

NEW QUESTION # 44

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

- D. OCP cards offer higher network speeds than regular PCIe cards.

Answer: B

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 # 45

Which sequence of components represents an initial segment of a typical flow of data (I/O) in a PowerEdge 670 server from input to data being temporarily stored for active use?

- A. LAN -> NIC -> Memory Module
- B. CPUs -> Memory Module -> NIC
- C. NIC -> CPUs -> Disk Drive
- D. LAN -> Disk Drive -> Memory Module

Answer: A

Explanation:

In a PowerEdge 670 server, the typical I/O flow starts with data entering via the LAN, processed by the Network Interface Card (NIC), and then moved to the Memory Module for temporary storage and active use by the system. This sequence reflects how network data is received and staged in RAM for processing. CPUs process data after memory, and disk drives are for persistent storage, not initial flow. This aligns with server architecture for efficient data handling. Exact extract: "Describe the Memory and Expansion cards... Explain how different PowerEdge server models are better suited for specific roles." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Server Architecture and Roles (22%).

NEW QUESTION # 46

An administrator is tasked with updating firmware on several remote servers without interrupting the operating system. Which method should they use?

- A. Utilize iDRAC
- B. Set up System Setup
- C. Clone the OS configuration
- D. Implement OpenManage Enterprise

Answer: A

Explanation:

The Integrated Dell Remote Access Controller (iDRAC) allows administrators to update firmware on PowerEdge servers remotely without interrupting the operating system. iDRAC's out-of-band management enables firmware updates via its web interface or CLI, ensuring minimal disruption. OpenManage Enterprise requires additional software and is for broader management, System Setup requires local access and may interrupt operations, and cloning OS configuration is unrelated to firmware updates. iDRAC is the most efficient method for remote, non-disruptive updates. Exact extract: "Describe different methods of updating firmware and drivers in PowerEdge Servers... Compare the PowerEdge Servers management applications, utilities, and licensing." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Maintenance (18%).

NEW QUESTION # 47

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