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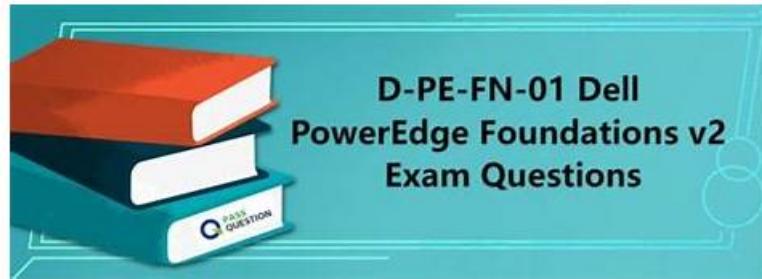
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EMC D-PE-FN-01 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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.
Topic 3	• 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.

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D-PE-FN-01 Valid Guide Files - Valid D-PE-FN-01 Exam Syllabus

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EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q12-Q17):

NEW QUESTION # 12

You must enhance the scalability and connectivity flexibility of a PowerEdge server, particularly for management and peripheral connections. Which type of onboard card is explicitly designed to increase scalability, flexibility, and connectivity options in PowerEdge servers beyond basic networking?

- A. LAN On Motherboard (LOM)
- B. Rear Input Output (RIO) card
- C. Open Compute Project (OCP) card
- D. Integrated system board network controller

Answer: C

Explanation:
The Open Compute Project (OCP) card is designed to enhance scalability and connectivity in PowerEdge servers by providing flexible, high-speed network interfaces without consuming standard PCIe slots. OCP cards support advanced networking and management features, offering modular upgrades for connectivity beyond basic LOM or integrated controllers. RIO cards focus on management ports, not scalability, while LOM is fixed and less flexible. OCP's modular design aligns with modern server needs.
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 # 13
For VMs requiring independent and self-contained network operation that is isolated from both the host and any external networks, which virtual switch type should be chosen?

- A. Physical
- B. External
- C. Private
- D. Internal

Answer: C

Explanation:
A private virtual switch is ideal for VMs needing isolated, self-contained network operation, as it restricts communication to within the VMs connected to the switch, isolating them from the host and external networks. This ensures security and independence for testing or sensitive workloads. External switches connect to physical networks, internal switches allow host-VM communication, and physical switches are not virtual. Private switches align with secure virtualization in PowerEdge environments. Exact extract: "Explain Hypervisors and virtual machines... Compare the on-board network on a PowerEdge Server." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Server Networking and Connectivity (6%).

NEW QUESTION # 14
From which attack does TPM protect information that is stored in hardware?

- A. Overwriting by another application
- B. Insider threat
- C. External software attacks
- D. Physical theft

Answer: C

Explanation:
The Trusted Platform Module (TPM) in PowerEdge servers protects hardware-stored information, such as cryptographic keys, from external software attacks by providing a secure environment for encryption and authentication. TPM safeguards against unauthorized access via software exploits, not insider threats, application overwrites, or physical theft (which requires physical security measures). This enhances server security for sensitive data. Exact extract: "Describe the security features in PowerEdge servers... Explain the role of TPM and Secure Boot." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Security (18%).

NEW QUESTION # 15

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

Answer: D

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 # 16

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

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

Answer: C

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 # 17

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