

2025 Reliable EMC D-PE-FN-01: Dell PowerEdge Foundations v2 Exam Certification Materials



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

Topic	Details
Topic 1	• Server Networking and Connectivity: This section of the exam measures the skills of Data Center Technicians and focuses on the fundamentals of networking services as they relate to PowerEdge servers. It includes identifying network cables and connections, and comparing different onboard network options. This knowledge is essential for establishing and maintaining server connectivity within diverse infrastructure environments.
Topic 2	• Introduction to Servers: This section of the exam measures the skills of Data Center Technicians and covers foundational concepts related to server characteristics and key storage components in Dell PowerEdge servers. It includes identifying server generations, interpreting server nomenclature, and understanding the purpose of hardware elements such as HDDs, SSDs, RAID controllers, BOSS, and M.2 drives. The goal is to ensure a clear grasp of server internals and their role in performance and reliability.
Topic 3	• 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 4	• 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 5	• Security: This section of the exam measures the skills of Server Support Engineers and emphasizes the security features embedded in Dell PowerEdge servers. It includes hardware-based protections such as Silicon Root of Trust, TPM 2.0, and Secure Boot. The section also covers iDRAC's role in automated security, data protection using Self-Encrypting Drives (SEDs), and access control measures like Multifactor Authentication (MFA) and Role-Based Access Control (RBAC).

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EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q22-Q27):

NEW QUESTION # 22

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

Answer: D

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 # 23

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 # 24

What benefit does Quick Sync provide regarding server management access?

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

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 # 25

What is indicated by a blinking blue system ID LED on a PowerEdge server?

- A. The system is in fail-safe mode
- B. The System ID mode is active
- C. The system is turned off
- D. The system is experiencing a fault

Answer: B

Explanation:

A blinking blue system ID LED on a PowerEdge server indicates that the System ID mode is active, typically used to identify a specific server in a rack for maintenance or troubleshooting. This is distinct from fail-safe mode, faults (often amber LEDs), or power-off states. Exact extract: "Describe maintenance functions, shutdowns, reboots of a PowerEdge Server... Explain the power distribution considerations." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Maintenance (18%).

NEW QUESTION # 26

What type of user accounts can administrators create in iDRAC?

- A. Only one administrator account
- B. Up to two guest accounts
- C. Unlimited external users
- D. Up to 16 local iDRAC users

Answer: D

Explanation:

iDRAC in PowerEdge servers allows administrators to create up to 16 local user accounts, each with configurable roles and permissions for secure management. This supports multiple administrators or users without relying on external systems. Unlimited external users, a single administrator account, or only two guest accounts are not accurate limitations for iDRAC's local user management. Exact extract: "Describe the security features in PowerEdge servers... Compare the PowerEdge Servers management applications, utilities, and licensing." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Security

(18%).

NEW QUESTION # 27

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