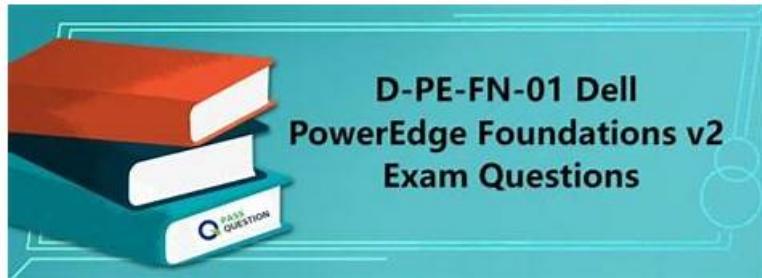


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## EMC D-PE-FN-01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>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.</li></ul>

Topic 3	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>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.</li> </ul>

## EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q20-Q25):

### NEW QUESTION # 20

A system administrator is unable to access the hypervisor by hostname. However, the hypervisor is responding to pings using the IP address. Which server role should be investigated?

- A. DNS
- B. WINS
- C. ARP
- D. DHCP

**Answer: A**

Explanation:

If a hypervisor on a PowerEdge server is accessible by IP but not by hostname, the Domain Name System (DNS) server role should be investigated. DNS resolves hostnames to IP addresses, and a failure here prevents hostname-based access. WINS is for legacy NetBIOS, ARP handles IP-to-MAC mapping, and DHCP assigns IPs, not relevant to hostname resolution. DNS is critical for network connectivity. 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 # 21

What benefit does Quick Sync provide regarding server management access?

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

**Answer: B**

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 # 22

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

- A. Utilize the iDRAC Virtual Console for direct IP setup
- B. Employ iDRAC Remote File Share for initial configuration

- C. Use iDRAC Direct for laptop connection and initial setup
- D. Access iDRAC Auto Discovery for automatic IP assignment

**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 # 23

A film studio needs high-performance servers for video rendering tasks that demand significant computational power and efficiency per rack space. Which type of specialized module server would be most appropriate for maximizing rendering capabilities within a data center?

- A. GPU-optimized modules for enhanced graphics processing and VDI
- B. Mainstream optimized modules balancing performance and cost for general use
- C. Specialized modules with high compute performance and core density per rack
- D. Edge-optimized modules for remote deployment and minimum footprint

**Answer: A**

Explanation:

GPU-optimized modules in PowerEdge servers are designed for workloads like video rendering, which require significant computational power and graphical processing capabilities. These modules leverage GPUs to accelerate parallel tasks, maximizing rendering efficiency within limited rack space, ideal for a film studio's data center. Edge-optimized modules prioritize minimal footprint for remote deployment, mainstream modules balance general use, and high compute modules focus on core density, not graphics. GPU optimization directly supports rendering tasks. Exact extract: "Describe and position PowerEdge server solutions for File Sharing, High-Performance Computing (HPC), and Generative AI workloads... 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 # 24

What is the primary function of the Silicon Root of Trust in Dell PowerEdge servers?

- A. To provide cryptographic verification of firmware and hardware integrity from the factory
- B. To optimize cooling efficiency based on workload demands
- C. To enable automatic failover in high-availability configurations
- D. To manage virtual machine migrations across clusters

**Answer: A**

Explanation:

The Silicon Root of Trust in Dell PowerEdge servers establishes a secure foundation by cryptographically verifying the integrity of firmware, BIOS, and hardware components starting from the manufacturing process at the factory. This ensures that the server boots only trusted code, protecting against supply chain attacks, firmware tampering, and malware insertion. It uses immutable hardware-based keys to anchor the chain of trust, extending to the OS and applications. Managing VM migrations is a hypervisor function, cooling optimization relates to thermal management, and failover is part of clustering software, not directly tied to Root of Trust. This feature is crucial for enhancing server security in enterprise environments, aligning with modern cybersecurity standards for PowerEdge systems. Exact extract: "Describe the security features in PowerEdge servers... Explain the role of TPM and Secure Boot... Describe the security features in PowerEdge servers including Silicon Root of Trust, Secure Boot, TPM, and multifactor authentication." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Security (18%).

## NEW QUESTION # 25

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