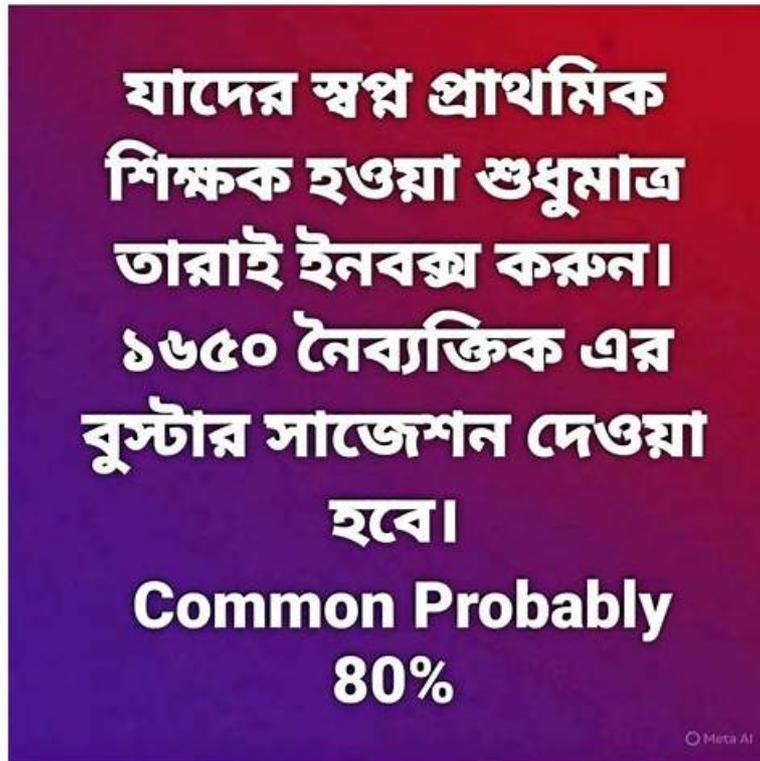


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### EMC D-PE-FN-01 Exam Syllabus Topics:

Topic	Details
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Topic 1	<ul style="list-style-type: none"> <li>• <b>Introduction to Servers:</b> 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>
Topic 2	<ul style="list-style-type: none"> <li>• <b>Server Management:</b> 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 3	<ul style="list-style-type: none"> <li>• <b>Server Architecture and Roles:</b> 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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• <b>Security:</b> 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).</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• <b>Server Networking and Connectivity:</b> 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>

## EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q10-Q15):

### NEW QUESTION # 10

Which server attribute refers to its ability to undergo maintenance and repairs without causing system downtime?

- A. High availability
- B. Reliability
- C. Serviceability
- D. Scalability

**Answer: A**

Explanation:

High availability refers to a server's design that allows maintenance, repairs, and upgrades without interrupting operations, achieved through redundant components like power supplies, fans, and hot-swappable parts. This ensures continuous uptime critical for business environments. Reliability focuses on failure resistance, serviceability on ease of repair, and scalability on expansion. High availability is key for mission-critical PowerEdge servers. Exact extract: "Define the characteristics of a server... Explain the power distribution considerations... Describe maintenance functions, shutdowns, reboots of a PowerEdge Server." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Introduction to Servers (28%) and Maintenance (18%).

### NEW QUESTION # 11

Which is a typical use case for a GPU optimized PowerEdge server?

- A. Over provisioning
- B. High performance

- C. VDI
- D. Configuration Flexibility

**Answer: C**

Explanation:

GPU-optimized PowerEdge servers are tailored for workloads requiring intensive graphical processing, such as Virtual Desktop Infrastructure (VDI), where multiple users access virtual desktops that demand high graphical performance for applications like design or video editing. GPUs accelerate parallel processing, making them ideal for VDI to ensure smooth user experiences. Configuration flexibility and over-provisioning are general server traits, while high performance is broad; VDI specifically benefits from GPU acceleration in PowerEdge setups. This use case positions GPU-optimized servers in solutions needing enhanced graphics capabilities within data centers. Exact extract: "Describe and position PowerEdge server solutions for File Sharing, High-Performance Computing (HPC), and Generative AI workloads... Explain Hypervisors and virtual machines... Describe and position a PowerEdge server in a solution - Edge (ROBO), Cloud, Core, Use Case." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Server Architecture and Roles (22%).

### NEW QUESTION # 12

An administrator must gracefully shut down an ESXi host. Which interfaces provide options for initiating this shutdown? Identify the interfaces from which an ESXi host shutdown can be initiated.

- A. Only through vSphere client and web client
- B. CLI commands, Direct Console User Interface (DCUI), vSphere client and web client
- C. Solely from the Direct Console User Interface (DCUI) of ESXi
- D. Exclusively using CLI commands on the ESXi host

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extracts: Gracefully shutting down an ESXi host on a PowerEdge server can be performed through multiple interfaces: CLI commands (via SSH or console), the Direct Console User Interface (DCUI) for direct hardware access, and vSphere client or web client for remote management. This flexibility ensures administrators can choose the most convenient method for maintenance tasks. Exclusively using CLI or DCUI limits options, and vSphere-only access ignores direct methods. Exact extract: "Describe maintenance functions, shutdowns, reboots of a PowerEdge Server... Compare the PowerEdge Servers management applications, utilities, and licensing." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Server Management (18%).

### NEW QUESTION # 13

A new IT technician is learning about server hardware and asks why servers seem more complex than desktop PCs. What is the primary reason for the increased complexity in server hardware when compared to desktop systems?

- A. Enhance processing power and bandwidth for multiple users.
- B. Reduce the physical footprint for space efficiency.
- C. Minimize power consumption for cost savings in large deployments.
- D. Simplify server management interfaces for users.

**Answer: A**

Explanation:

Servers are designed to handle workloads from multiple users simultaneously, requiring enhanced processing power, higher bandwidth, and more robust components compared to desktop PCs, which are typically for single-user tasks. This complexity arises from the need for multi-core CPUs, larger memory capacities, redundant power supplies, and advanced cooling systems to ensure reliability and performance under constant load. Desktops prioritize simplicity and cost, while servers focus on scalability and uptime. Minimizing power or footprint is secondary; the core is supporting enterprise-level demands. Simplifying management is a software aspect, not hardware complexity. This distinction is fundamental in understanding server roles in IT environments. Exact extract: "Define the characteristics of a server... Explain how different PowerEdge server models (e.g., rack servers, tower servers, blade servers) are better suited for specific roles... Describe and position a PowerEdge server in a solution - Edge (ROBO), Cloud, Core, Use Case." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Introduction to Servers (28%) and Server Architecture and Roles (22%).

## NEW QUESTION # 14

Which PSU LED functionality is identical to all generations of servers?

- A. LED blinking 1 to 9 times when the LED light is an amber color.
- B. LED pause blinking for 1 to 9 times when the LED light is a white color.
- C. Alternately blinking amber light and white light.
- **D. LED blinking in a 4 Hz interval during a firmware update until the process is complete.**

**Answer: D**

Explanation:

Across all generations of PowerEdge servers, the Power Supply Unit (PSU) LED blinks at a 4 Hz interval during a firmware update, indicating the process is active until completion. This standardized behavior ensures consistent identification of firmware updates, critical for maintenance. Other LED patterns, like amber or white blinking, vary by generation or issue, but the 4 Hz update pattern is universal, aiding technicians in monitoring PSU status. 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 # 15

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