

D-PE-FN-01 New Practice Materials & D-PE-FN-01 Reliable Exam Guide



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

| Topic | Details |
|---------|---|
| Topic 1 | <ul style="list-style-type: none">• 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 | <ul style="list-style-type: none">• 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 | <ul style="list-style-type: none">• 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). |
| Topic 4 | <ul style="list-style-type: none">• 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. |

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

NEW QUESTION # 10

A server has a PCIe 5.0 x1 lane. What is the theoretical bandwidth?

- A. 0.98 GB/s
- **B. 3.94 GB/s**
- C. 7.88 GB/s
- D. 1.97 GB/s

Answer: B

Explanation:

PCIe 5.0 offers a per-lane bandwidth of approximately 3.94 GB/s for an x1 lane. This is calculated based on PCIe 5.0's data rate of 32 GT/s, with each lane providing roughly 32 Gbps (4 GB/s) after accounting for encoding overhead (128b/130b). For an x1 lane, this results in 3.94 GB/s, making it the correct answer for PowerEdge server configurations leveraging PCIe 5.0 for high-speed connectivity. Other options reflect incorrect calculations or older PCIe versions. Exact extract: "Describe the Memory and Expansion cards...

Compare the on-board network on a PowerEdge Server." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Server Architecture and Roles (22%).

NEW QUESTION # 11

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

- A. High performance
- **B. VDI**
- C. Configuration Flexibility
- D. Over provisioning

Answer: B

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

A system administrator must select a different boot device or access diagnostic tools during a warm reboot of a Dell PowerEdge server. Which PowerEdge utility allows administrators to choose boot options and launch diagnostic utilities during server startup?

- A. Launch the Dell OpenManage Enterprise Boot Services.
- B. Access the Boot Manager to select boot options.
- **C. Utilize the Dell Lifecycle Controller for diagnostics.**
- D. Utilize the System Setup for boot option selection.

Answer: C

Explanation:

The Dell Lifecycle Controller, integrated into PowerEdge servers, allows administrators to access boot options and diagnostic tools during a warm reboot via its interface, accessible during startup. It provides a pre- boot environment for managing boot devices and running diagnostics without external software. Boot Manager and System Setup focus on specific settings, while OpenManage Enterprise is for broader management, not startup diagnostics. This utility enhances server management flexibility. 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 # 13

An IT manager is looking at the Dell PowerEdge R740xd model. What does the "xd" in the model's name indicate?

- A. Indicates tower form factor
- B. Indicates high density
- C. Indicates extra drives
- D. Indicates modular design

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extracts: The "xd" in the PowerEdge R740xd model name indicates extra drives, signifying a configuration with enhanced storage capacity, supporting more drives or larger storage options for data-intensive workloads. This distinguishes it from standard R740 models. Modular design and high density apply to other models, and "xd" does not denote a tower form factor (R-series are racks). This naming convention aids in selecting appropriate PowerEdge models. Exact extract:

"Explain how different PowerEdge server models (e.g., rack servers, tower servers, blade servers) are better suited for specific roles." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Introduction to Servers (28%).

NEW QUESTION # 14

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

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

Answer: D

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 # 15

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