

Real D-PE-FN-01 Exam Dumps & D-PE-FN-01 Test Simulator Fee



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

Topic	Details
Topic 1	<ul style="list-style-type: none">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.
Topic 2	<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 3	<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 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 (Q48-Q53):

NEW QUESTION # 48

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 do not consume standard PCIe expansion slots.**
- B. OCP cards offer higher network speeds than regular PCIe cards.
- C. OCP cards integrate video and USB ports, saving rear I/O space.
- D. OCP cards are hot-swappable, simplifying maintenance without downtime.

Answer: A

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 # 49

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

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

Answer: A

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 # 50

A financial institution is upgrading its data center to support mission-critical applications that demand robust computing, high availability, and scalability. Which of the described PowerEdge server characteristics is most crucial for supporting mission-critical applications in a demanding business environment?

- A. Quiet, non-disruptive acoustics for comfortable office deployments
- B. Space-optimization for maximizing data center footprint efficiency
- **C. Robust computing solutions meeting business priorities like performance and scalability**

- D. Affordability and cost-effectiveness for budget-sensitive operations

Answer: C

Explanation:

For mission-critical applications in a financial institution, robust computing solutions are paramount, as they provide high performance, scalability, and high availability to meet demanding workloads. These characteristics ensure PowerEdge servers can handle intensive processing, scale with demand, and maintain uptime through redundancy, which is critical for financial operations. Space optimization, acoustics, and affordability are secondary in such environments where reliability and performance are prioritized. This aligns with the design of PowerEdge servers for enterprise-grade solutions. 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%).

NEW QUESTION # 51

A small office is considering DAS for its storage needs. What is a potential disadvantage of this solution?

- A. Limited scalability
- B. Not well suited to applications using block-level storage
- C. Higher initial cost
- D. More complex to deploy

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extracts: Direct Attached Storage (DAS) has limited scalability, as it is physically connected to a single server, restricting the ability to expand storage capacity or share resources across multiple systems compared to NAS or SAN. DAS is simpler for deployment, not inherently costly, and supports block-level storage, but its scalability constraint is a key drawback for growing offices. Exact extract: "Compare and contrast different storage topologies relevant to Dell PowerEdge servers: Direct Attached Storage (DAS), Network Attached Storage (NAS), and Storage Area Networks (SAN)." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Introduction to Servers (28%).

NEW QUESTION # 52

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

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

Answer: D

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 # 53

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