

D-PE-FN-01 Questions | D-PE-FN-01 Test Valid



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

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

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EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q47-Q52):

NEW QUESTION # 47

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

- A. 7.88 GB/s
- **B. 3.94 GB/s**
- C. 1.97 GB/s
- D. 0.98 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 # 48

A technician is replacing a faulty PSU in a PowerEdge server with redundant power supplies. They intend to remove one PSU to perform the swap. What is the recommended procedure to maintain server uptime and power redundancy during this PSU replacement?

- A. Remove both PSUs simultaneously to expedite the process
- **B. Pull one PSU at a time to retain power redundancy**
- C. Disconnect the server from the main power source before PSU removal
- D. Shut down the server completely before removing any PSU

Answer: B

NEW QUESTION # 49

An administrator must configure the iDRAC IP address on a Dell PowerEdge XE9680 server using the LCD control panel. What is the first step that the administrator should take?

- A. Connect a monitor and keyboard to the server
- B. Press the Quick Sync button on the front of the server
- C. Access the BIOS settings during the server reboot
- **D. Navigate to the network settings on the LCD control panel**

Answer: D

NEW QUESTION # 50

In a hot aisle/cold aisle data center layout, where is the hot air exhausted from server racks primarily directed?

- A. Routed to the air handling system for cooling
- B. Recirculated within the server rack for preheating
- C. Exhausted directly out of the data center building
- D. Vented directly into the cold aisle for mixing

Answer: A

Explanation:

In a hot aisle/cold aisle layout, hot air exhausted from PowerEdge server racks is primarily directed to the air handling system (e.g., CRAC units) for cooling and recirculation. This design prevents hot air from mixing with cold air, maintaining efficient cooling. Recirculating within racks or venting to the cold aisle would reduce efficiency, and direct exhaust outside is impractical. Exact extract: "Explain the cooling and thermal considerations in PowerEdge Servers (Direct Liquid Cooling, Immersion Cooling, Air Cooling)... Describe maintenance functions, shutdowns, reboots of a PowerEdge Server." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Maintenance (18%).

NEW QUESTION # 51

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

Answer: C

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 # 52

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