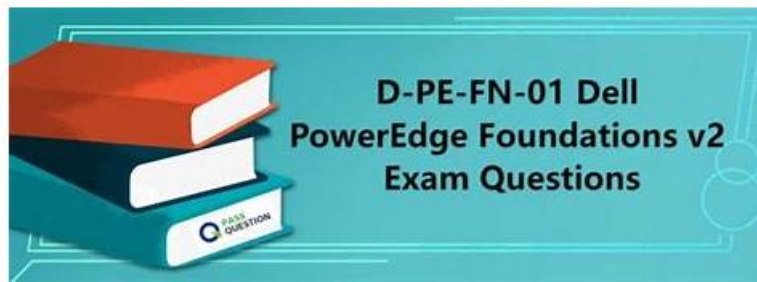


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EMC D-PE-FN-01 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
Topic 2	• 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 3	• 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 4	• 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 5	• 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).

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EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q18-Q23):

NEW QUESTION # 18

What are the key characteristics of a Shielded Twisted Pair (STP) Ethernet cable compared to Unshielded Twisted Pair (UTP)?

- A. Similar noise susceptibility and similar costs
- B. More susceptible to noise and lower costs
- C. Less susceptible to noise and similar costs
- **D. Less susceptible to noise and higher costs**

Answer: D

Explanation:

Shielded Twisted Pair (STP) cables include an additional shielding layer that protects against electromagnetic interference (EMI) and noise, making them less susceptible to signal degradation in noisy environments compared to Unshielded Twisted Pair (UTP) cables. However, this shielding increases manufacturing costs, making STP more expensive. UTP is cheaper and sufficient for most standard networking but prone to noise in industrial settings. Similar costs or susceptibility do not apply, as STP's design explicitly addresses noise at a higher price point. This is crucial for server networking where reliable connectivity is essential. Exact extract: "Which techniques are used in STP network cables to enhance the signal quality? B. Shielding, wire twisting, and cancellation... Describe the cables and connections... Compare the on-board network on a PowerEdge Server." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Server Networking and Connectivity (6%).

NEW QUESTION # 19

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

Answer: C

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 # 20

For VMs requiring independent and self-contained network operation that is isolated from both the host and any external networks, which virtual switch type should be chosen?

- **A. Private**

- B. Physical
- C. External
- D. Internal

Answer: A

Explanation:

A private virtual switch is ideal for VMs needing isolated, self-contained network operation, as it restricts communication to within the VMs connected to the switch, isolating them from the host and external networks. This ensures security and independence for testing or sensitive workloads. External switches connect to physical networks, internal switches allow host-VM communication, and physical switches are not virtual. Private switches align with secure virtualization in PowerEdge environments. Exact extract: "Explain Hypervisors and virtual machines... Compare the on-board network on a PowerEdge Server." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Server Networking and Connectivity (6%).

NEW QUESTION # 21

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

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

Answer: D

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 # 22

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. LED blinking in a 4 Hz interval during a firmware update until the process is complete.**
- D. Alternately blinking amber light and white light.

Answer: C

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 # 23

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No doubt the Dell PowerEdge Foundations v2 Exam (D-PE-FN-01) certification is one of the most challenging certification exams in the market. This Dell PowerEdge Foundations v2 Exam (D-PE-FN-01) certification exam gives always a tough time to Dell PowerEdge Foundations v2 Exam (D-PE-FN-01) exam candidates. The Exam4Free understands this hurdle and offers recommended and real EMC D-PE-FN-01 Exam Practice questions in three different formats. These formats hold high demand in the market and offer a great solution for quick and complete Dell PowerEdge Foundations v2 Exam (D-PE-FN-01) exam

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