Quiz EMC - D-PE-FN-01 - Valid Exam Dell PowerEdge Foundations v2 Exam Tutorial
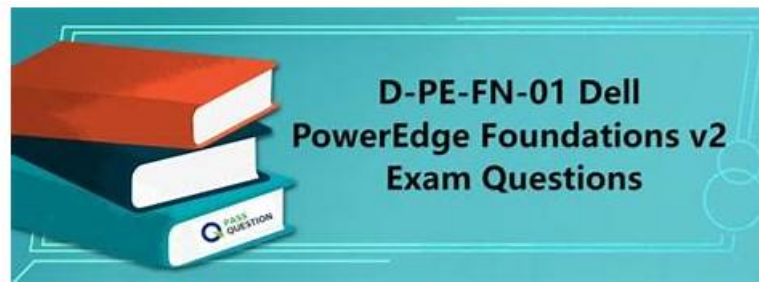

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EMC D-PE-FN-01 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• 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	• 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 (Q24-Q29):

NEW QUESTION # 24
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. 1.97 GB/s
- D. 7.88 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 # 25
In ECC memory, how many extra bits are used for every 64-bit value to facilitate single-bit error correction, based on Hamming code?

- A. ECC adds 32 error correction bits per 64-bit data segment.
- B. ECC uses 4 extra bits for every 64-bit value for correction.
- C. ECC employs 8 additional bits for every 64-bit value.
- D. ECC uses 16 parity bits for every 64-bit data value.

Answer: C

Explanation:
Error Correcting Code (ECC) memory uses 8 additional bits for every 64-bit data value to detect and correct single-bit errors using Hamming code, resulting in 72-bit modules. This enhances data integrity in servers by repairing errors without interruption. Fewer bits (4) would only detect, not correct; more (16 or 32) are unnecessary for standard single-bit correction. ECC is beneficial in PowerEdge servers for reliable operations.
Exact extract: "Why is Error Correcting Code (ECC) memory beneficial in Dell EMC PowerEdge servers? D.
Can repair errors without interrupting other server operations... Describe the Memory and Expansion cards." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Introduction to Servers (28%) and Maintenance (18%).

NEW QUESTION # 26
What is indicated by a blinking blue system ID LED on a PowerEdge server?

- A. The System ID mode is active
- B. The system is in fail-safe mode
- C. The system is experiencing a fault
- D. The system is turned off

Answer: A

Explanation:
A blinking blue system ID LED on a PowerEdge server indicates that the System ID mode is active, typically used to identify a specific server in a rack for maintenance or troubleshooting. This is distinct from fail-safe mode, faults (often amber LEDs), or

power-off states. 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 # 27
Where is the certificate used by SVC signed?

- A. In the server BIOS during boot
- B. In the Dell factory
- C. In the operating system registry
- D. In the system's CMOS battery

Answer: B

Explanation:
The Secure Vault Component (SVC) certificate in PowerEdge servers is signed at the Dell factory during manufacturing to ensure hardware authenticity and security. This process embeds a trusted certificate for secure operations, not in the CMOS, OS registry, or BIOS at boot, which are not used for SVC signing.
Factory signing ensures a secure supply chain and component verification, critical for server security. Exact extract: "Describe the security features in PowerEdge servers... Explain the role of TPM and Secure Boot." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Security (18%).

NEW QUESTION # 28
A small office is considering DAS for its storage needs. What is a potential disadvantage of this solution?

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

Answer: B

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 # 29
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