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Dell Networking Foundations 2023

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

Topic	Details
Topic 1	• 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	• 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	• 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	• 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.

EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q42-Q47):

NEW QUESTION # 42

Which server attribute refers to its ability to undergo maintenance and repairs without causing system downtime?

- A. Reliability
- B. Serviceability
- C. Scalability
- **D. High availability**

Answer: D

Explanation:

High availability refers to a server's design that allows maintenance, repairs, and upgrades without interrupting operations, achieved through redundant components like power supplies, fans, and hot-swappable parts. This ensures continuous uptime critical for business environments. Reliability focuses on failure resistance, serviceability on ease of repair, and scalability on expansion. High availability is key for mission-critical PowerEdge servers. Exact extract: "Define the characteristics of a server... Explain the power distribution considerations... Describe maintenance functions, shutdowns, reboots of a PowerEdge Server." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Introduction to Servers (28%) and Maintenance (18%).

NEW QUESTION # 43

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

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

Answer: B

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 # 44

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. 0.98 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 # 45

A data center technician is troubleshooting a server where multiple hard drives have become unresponsive simultaneously. Which server component failure is MOST likely to cause disconnection of multiple hard drives at once?

- **A. The backplane failure**
- B. Individual hard drive failure
- C. CPU failure
- D. PERC controller failure

Answer: A

Explanation:

The backplane in a PowerEdge server connects multiple hard drives to the system, and its failure can cause simultaneous disconnection of all attached drives, rendering them unresponsive. The backplane manages power and data pathways, so its malfunction disrupts multiple drives. CPU failure affects processing, not drive connectivity; individual drive failure typically impacts one drive; and PERC failure affects RAID but not physical connections. Backplane issues are critical in troubleshooting. Exact extract: "Explain the function of various storage components... 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 # 46

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. Exclusively using CLI commands on the ESXi host
- B. Solely from the Direct Console User Interface (DCUI) of ESXi
- **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 # 47

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