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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 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 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 (Q87-Q92):

NEW QUESTION # 87
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 # 88
A small office is considering DAS for its storage needs. What is a potential disadvantage of this solution?

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

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 # 89

You must enhance the scalability and connectivity flexibility of a PowerEdge server, particularly for management and peripheral connections. Which type of onboard card is explicitly designed to increase scalability, flexibility, and connectivity options in PowerEdge servers beyond basic networking?

- A. Open Compute Project (OCP) card
- B. LAN On Motherboard (LOM)
- C. Rear Input Output (RIO) card
- D. Integrated system board network controller

Answer: A

Explanation:
The Open Compute Project (OCP) card is designed to enhance scalability and connectivity in PowerEdge servers by providing flexible, high-speed network interfaces without consuming standard PCIe slots. OCP cards support advanced networking and management features, offering modular upgrades for connectivity beyond basic LOM or integrated controllers. RIO cards focus on management ports, not scalability, while LOM is fixed and less flexible. OCP's modular design aligns with modern server needs.
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 # 90

Which component within an External Switch configuration helps maintain VM network configurations despite changes to the physical pNIC?

- A. pNICs
- B. vEthernet
- C. PVLANs
- D. vNICs

Answer: D

NEW QUESTION # 91

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

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

Answer: A

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 # 92

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