Key D-PE-FN-01 Concepts | Exam D-PE-FN-01 Tests

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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	• 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 3	• 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 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.

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EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q20-Q25):

NEW QUESTION # 20
A new IT technician is learning about server hardware and asks why servers seem more complex than desktop PCs. What is the primary reason for the increased complexity in server hardware when compared to desktop systems?

- A. Reduce the physical footprint for space efficiency.
- B. Simplify server management interfaces for users.
- C. Minimize power consumption for cost savings in large deployments.
- D. Enhance processing power and bandwidth for multiple users.

Answer: D

Explanation:
Servers are designed to handle workloads from multiple users simultaneously, requiring enhanced processing power, higher bandwidth, and more robust components compared to desktop PCs, which are typically for single-user tasks. This complexity arises from the need for multi-core CPUs, larger memory capacities, redundant power supplies, and advanced cooling systems to ensure reliability and performance under constant load. Desktops prioritize simplicity and cost, while servers focus on scalability and uptime. Minimizing power or footprint is secondary; the core is supporting enterprise-level demands. Simplifying management is a software aspect, not hardware complexity. This distinction is fundamental in understanding server roles in IT environments. Exact extract: "Define the characteristics of a server... Explain how different PowerEdge server models (e.g., rack servers, tower servers, blade servers) are better suited for specific roles... Describe and position a PowerEdge server in a solution - Edge (ROBO), Cloud, Core, Use Case." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Introduction to Servers (28%) and Server Architecture and Roles (22%).

NEW QUESTION # 21
Which is a typical use case for a GPU optimized PowerEdge server?

- A. Configuration Flexibility
- B. Over provisioning
- C. VDI
- D. High performance

Answer: C

Explanation:
GPU-optimized PowerEdge servers are tailored for workloads requiring intensive graphical processing, such as Virtual Desktop Infrastructure (VDI), where multiple users access virtual desktops that demand high graphical performance for applications like design or video editing. GPUs accelerate parallel processing, making them ideal for VDI to ensure smooth user experiences. Configuration flexibility and over- provisioning are general server traits, while high performance is broad; VDI specifically benefits from GPU acceleration in PowerEdge setups. This use case positions GPU-optimized servers in solutions needing enhanced graphics capabilities within data centers. Exact extract: "Describe and position PowerEdge server solutions for File Sharing, High-Performance Computing (HPC), and Generative AI workloads... Explain Hypervisors and virtual machines... Describe and position a PowerEdge server in a solution - Edge (ROBO), Cloud, Core, Use Case." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Server Architecture and Roles (22%).

NEW QUESTION # 22
What are the key characteristics of a Shielded Twisted Pair (STP) Ethernet cable compared to Unshielded Twisted Pair (UTP)?

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

Answer: C

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 # 23
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 # 24
Your team is deploying the latest 17G PowerEdge servers and is intrigued by the new DC-MHS architecture.
Which architectural evolution was introduced in 17G PowerEdge servers with the Data Center Modular Hardware System (DC-MHS)?

- A. Adoption of Open Compute Project (OCP) standards for modular hardware
- B. Simplification of server hardware to reduce component count
- C. Introduction of proprietary, closed hardware standards
- D. Elimination of modular design in favor of traditional monolithic boards

Answer: A

Explanation:
The Data Center Modular Hardware System (DC-MHS) in 17G PowerEdge servers adopts Open Compute Project (OCP) standards for modular hardware, enhancing flexibility, scalability, and interoperability while maintaining open standards. This contrasts with proprietary systems, simplification of components, or reverting to monolithic designs, aligning with modern data center needs for modularity. Exact extract:
"Explain how different PowerEdge server models (e.g., rack servers, tower servers, blade servers) are better suited for specific roles." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Introduction to Servers (28%).

NEW QUESTION # 25
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