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

Topic	Details

Topic 1	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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).

EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q21-Q26):

NEW QUESTION # 21

An administrator needs a dedicated RAID solution for booting the server operating system, using fast NVMe drives and iDRAC management capabilities. Which Boot Optimized Storage Solution is a RAID card designed for booting server OS, using one or two M.2 NVMe drives and managed by iDRAC?

- A. PERC
- B. Intel Optane DC Persistent Memory
- C. BOSS
- D. NVDIMM

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extracts: The Boot Optimized Storage Solution (BOSS) is a specialized RAID card in PowerEdge servers designed for booting the operating system using one or two M.2 NVMe drives, managed via iDRAC for simplified configuration and monitoring. BOSS ensures fast, reliable OS boot performance with RAID redundancy. NVDIMM and Intel Optane are for memory persistence, not OS booting, while PERC is for general storage RAID, not specifically for boot drives. BOSS is tailored for this use case. Exact extract: "Explain the function of various storage components commonly found in Dell PowerEdge servers, such as Hard Disk Drives (HDDs), Solid State Drives (SSDs), RAID controllers, BOSS and M.2, and storage enclosures." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Introduction to Servers (28%).

NEW QUESTION # 22

What type of user accounts can administrators create in iDRAC?

- A. Only one administrator account
- B. Up to 16 local iDRAC users
- C. Up to two guest accounts
- D. Unlimited external users

Answer: B

Explanation:

iDRAC in PowerEdge servers allows administrators to create up to 16 local user accounts, each with configurable roles and permissions for secure management. This supports multiple administrators or users without relying on external systems. Unlimited external users, a single administrator account, or only two guest accounts are not accurate limitations for iDRAC's local user management. Exact extract: "Describe the security features in PowerEdge servers... Compare the PowerEdge Servers management applications, utilities, and licensing." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Security (18%).

NEW QUESTION # 23

A financial institution is upgrading its data center to support mission-critical applications that demand robust computing, high availability, and scalability. Which of the described PowerEdge server characteristics is most crucial for supporting mission-critical applications in a demanding business environment?

- A. Quiet, non-disruptive acoustics for comfortable office deployments
- B. Affordability and cost-effectiveness for budget-sensitive operations
- **C. Robust computing solutions meeting business priorities like performance and scalability**
- D. Space-optimization for maximizing data center footprint efficiency

Answer: C

Explanation:

For mission-critical applications in a financial institution, robust computing solutions are paramount, as they provide high performance, scalability, and high availability to meet demanding workloads. These characteristics ensure PowerEdge servers can handle intensive processing, scale with demand, and maintain uptime through redundancy, which is critical for financial operations. Space optimization, acoustics, and affordability are secondary in such environments where reliability and performance are prioritized. This aligns with the design of PowerEdge servers for enterprise-grade solutions. 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%).

NEW QUESTION # 24

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. Routed to the air handling system for cooling**
- D. Vented directly into the cold aisle for mixing

Answer: C

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 # 25

An IT manager is looking at the Dell PowerEdge R740xd model. What does the "xd" in the model's name indicate?

- A. Indicates high density
- B. Indicates modular design
- **C. Indicates extra drives**
- D. Indicates tower form factor

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extracts: The "xd" in the PowerEdge R740xd model name indicates extra drives, signifying a configuration with enhanced storage capacity, supporting more drives or larger storage options for data-intensive workloads. This distinguishes it from standard R740 models. Modular design and high density apply to other models, and "xd" does not denote a tower form factor (R-series are racks). This naming convention aids in selecting appropriate PowerEdge models. 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 # 26

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