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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 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 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 (Q22-Q27):

NEW QUESTION # 22
A system administrator must select a different boot device or access diagnostic tools during a warm reboot of a Dell PowerEdge server. Which PowerEdge utility allows administrators to choose boot options and launch diagnostic utilities during server startup?

- A. Utilize the System Setup for boot option selection.
- B. Launch the Dell OpenManage Enterprise Boot Services.
- C. Access the Boot Manager to select boot options.
- D. Utilize the Dell Lifecycle Controller for diagnostics.

Answer: D

Explanation:
The Dell Lifecycle Controller, integrated into PowerEdge servers, allows administrators to access boot options and diagnostic tools during a warm reboot via its interface, accessible during startup. It provides a pre- boot environment for managing boot devices and running diagnostics without external software. Boot Manager and System Setup focus on specific settings, while OpenManage Enterprise is for broader management, not startup diagnostics. This utility enhances server management flexibility. Exact extract: "Compare the PowerEdge Servers management applications, utilities, and licensing... Describe maintenance functions, shutdowns, reboots of a PowerEdge Server." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Server Management (18%).

NEW QUESTION # 23
Which open-source operating system is recommended as an alternative for file sharing, supporting NFS and Samba on Dell PowerEdge servers?

- A. Red Hat Linux
- B. SUSE Linux
- C. Ubuntu
- D. Kali Linux

Answer: C

Explanation:
Ubuntu is a recommended open-source operating system for PowerEdge servers, offering robust support for file sharing protocols like NFS and Samba, making it ideal for centralized storage solutions. Its ease of use and community support suit enterprise environments. Kali Linux focuses on security testing, while Red Hat and SUSE are less emphasized for this specific use case in Dell documentation. Exact extract: "Describe and position PowerEdge server solutions for File Sharing, High-Performance Computing (HPC), and Generative AI workloads." 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. Vented directly into the cold aisle for mixing
- C. Exhausted directly out of the data center building
- D. Routed to the air handling system for cooling

Answer: D

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

A company is designing its backup infrastructure and must decide where to store the backed-up data. They are considering both on-site and off-site options. Which storage media are commonly used in backup solutions for storing and archiving backup data?

- A. Random Access Memory (RAM) and CPU cache
- B. SAN arrays
- C. Hard disks
- D. Network Attached Storage (NAS)
- E. Solid state drives (SSDs) and NVMe drives

Answer: D

Explanation:

Network Attached Storage (NAS) is commonly utilized in backup solutions because it provides a centralized, scalable storage option that can be accessed over a network, making it ideal for storing and archiving large volumes of backed-up data. NAS devices support file-level access protocols like NFS and SMB, which are suitable for backup applications, allowing multiple servers or clients to store data efficiently. Unlike SAN arrays, which are more geared toward block-level storage for high-performance applications, NAS is cost- effective for backup and archiving needs. SSDs and NVMe drives are faster but more expensive for large- scale archiving, while hard disks are basic components but lack the networked accessibility of NAS. RAM and CPU cache are volatile and not suitable for persistent storage. This choice aligns with backup infrastructure design principles, emphasizing reliability and accessibility for on-site and off-site data protection. In contrast, options like SAN are better for enterprise storage but not primarily for backups due to higher complexity and cost. Exact extract: "Explain the function of various storage components commonly found in Dell PowerEdgeservers, such as Hard Disk Drives (HDDs), Solid State Drives (SSDs), RAID controllers, BOSS and M.2, and storage enclosures... 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 # 26

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

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

Answer: D

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 # 27

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