Dell PowerEdge Foundations v2 Exam exam certification & D-PE-FN-01 exam reviews

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

Topic	Details
Topic 1	• 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 2	• 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 3	• 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.

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EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q34-Q39):

NEW QUESTION # 34

A software development team must set up a testing environment where they can run multiple operating systems on their existing workstations without altering their primary OS. Which type of hypervisor is suitable for this team, allowing them to access virtualization services through their current operating system, rather than directly on the hardware?

- A. Implement a bare metal hypervisor for direct hardware access.
- B. Choose Microsoft Hyper-V for its standalone OS capabilities.
- C. Utilize a hosted hypervisor that works through a host OS.
- D. Deploy a Type 1 hypervisor to bypass the existing OS.

Answer: C

Explanation:
A hosted hypervisor (Type 2) runs on top of an existing operating system, allowing virtualization services to be accessed through the host OS without modifying the primary system or requiring direct hardware control.
This is ideal for testing multiple OS on workstations, as it leverages the host for resource management. Type 1 hypervisors (bare metal) install directly on hardware, bypassing the OS, which would alter the setup.
Microsoft Hyper-V can operate as Type 1 in standalone mode. This approach suits development environments needing flexibility without hardware dedication. Exact extract: "Explain Hypervisors and virtual machines...
Explain how different PowerEdge server models are better suited for specific roles." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Server Architecture and Roles (22%).

NEW QUESTION # 35

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

Answer: A

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 # 36

A data center is designing its server deployment strategy and wants to minimize the usage of PCIe slots for network cards to maximize expansion for other components. Which advantage of the Open Compute Project (OCP) card best supports the goal of conserving PCIe slots for other expansion needs?

- A. OCP cards offer higher network speeds than regular PCIe cards.
- B. OCP cards are hot-swappable, simplifying maintenance without downtime.
- C. OCP cards integrate video and USB ports, saving rear I/O space.
- D. OCP cards do not consume standard PCIe expansion slots.

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extracts: Open Compute Project (OCP) cards are designed to enhance network connectivity in PowerEdge servers without occupying standard PCIe slots, which is critical for data centers aiming to reserve PCIe slots for other expansion components like storage or GPUs. OCP cards use a dedicated mezzanine slot, providing high-speed networking while freeing up PCIe slots for additional functionality. Higher network speeds are a benefit but not the primary advantage for slot conservation. Hot-swappability is not standard for OCP cards, and video/USB integration is unrelated to PCIe slot usage. This aligns with strategic server deployment for scalability. 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 # 37

A company wants to run multiple operating systems on the same server without the overhead of a host operating system. Which type of solution should they use?

- A. Cloud-based visualization
- B. Type 2 hypervisor
- C. Containerization
- D. Type 1 hypervisor

Answer: D

Explanation:

A Type 1 hypervisor, or bare-metal hypervisor, runs directly on PowerEdge server hardware, enabling multiple operating systems without the overhead of a host OS. This provides better performance and efficiency for virtualization compared to Type 2 hypervisors, which rely on a host OS. Containerization is for applications, not full OS, and cloud-based visualization is unrelated. Exact extract: "Explain Hypervisors and virtual machines... Explain how different PowerEdge server models are better suited for specific roles." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Server Architecture and Roles (22%).

NEW QUESTION # 38

A technician is verifying the throughput of SAS drives connected to a PERC 10 controller. What is the maximum data transfer rate achievable when using SAS 3.0 compliant drives with a PERC 10 controller?

- A. 22.5Gb/sec
- B. 6Gb/sec
- C. 12Gb/sec
- D. 3Gb/sec

Answer: C

Explanation:

SAS 3.0 compliant drives, when used with a PERC 10 controller in PowerEdge servers, support a maximum data transfer rate of 12Gb/sec per port. This reflects the SAS 3.0 standard's capability for high-performance storage, doubling the 6Gb/sec of SAS 2.0 and surpassing earlier standards like 3Gb/sec. The 22.5Gb/sec option is incorrect, as it exceeds SAS 3.0 specifications. This ensures optimal throughput for enterprise storage solutions. 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: Server Architecture and Roles (22%).

NEW QUESTION # 39

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