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Dell EMC D-PE-FN-01 Dell EMC Dell PowerEdge Foundations v2 Exam

Questions & Answers PDF
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EMC D-PE-FN-01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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 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"> • 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 (Q35-Q40):

NEW QUESTION # 35

A small office is considering DAS for its storage needs. What is a potential disadvantage of this solution?

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

Answer: D

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 # 36

From which attack does TPM protect information that is stored in hardware?

- A. External software attacks
- B. Physical theft
- C. Overwriting by another application
- D. Insider threat

Answer: A

Explanation:

The Trusted Platform Module (TPM) in PowerEdge servers protects hardware-stored information, such as cryptographic keys, from external software attacks by providing a secure environment for encryption and authentication. TPM safeguards against unauthorized access via software exploits, not insider threats, application overwrites, or physical theft (which requires physical security measures). This enhances server security for sensitive data. Exact extract: "Describe the security features in PowerEdge servers... Explain the role of TPM and Secure Boot." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Security (18%).

NEW QUESTION # 37

An administrator must gracefully shut down an ESXi host. Which interfaces provide options for initiating this shutdown? Identify the interfaces from which an ESXi host shutdown can be initiated.

- A. Exclusively using CLI commands on the ESXi host
- **B. CLI commands, Direct Console User Interface (DCUI), vSphere client and web client**
- C. Only through vSphere client and web client
- D. Solely from the Direct Console User Interface (DCUI) of ESXi

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extracts: Gracefully shutting down an ESXi host on a PowerEdge server can be performed through multiple interfaces: CLI commands (via SSH or console), the Direct Console User Interface (DCUI) for direct hardware access, and vSphere client or web client for remote management. This flexibility ensures administrators can choose the most convenient method for maintenance tasks. Exclusively using CLI or DCUI limits options, and vSphere-only access ignores direct methods. Exact extract: "Describe maintenance functions, shutdowns, reboots of a PowerEdge Server... Compare the PowerEdge Servers management applications, utilities, and licensing." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Server Management (18%).

NEW QUESTION # 38

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. Choose Microsoft Hyper-V for its standalone OS capabilities.
- B. Implement a bare metal hypervisor for direct hardware access.
- **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 # 39

A server has a PCIe 5.0 x1 lane. What is the theoretical bandwidth?

- A. 1.97 GB/s
- **B. 3.94 GB/s**
- C. 7.88 GB/s

- Answer: B**

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..."

NEW QUESTION # 40

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