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Pass Guaranteed Quiz 2026 EMC D-PE-FN-01: Authoritative Dell PowerEdge Foundations v2 Exam Exam

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

Topic	Details

Topic 1	• 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 2	• Maintenance: This section of the exam measures the skills of Data Center Technicians and covers practical server maintenance procedures. Topics include handling memory and expansion cards, understanding power distribution, recognizing hardware fault indicators, and applying various firmware update methods. It also touches on thermal management through cooling techniques such as air, liquid, and immersion cooling, along with proper shutdown and reboot practices.
Topic 3	• 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 4	• 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.

EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q15-Q20):

NEW QUESTION # 15
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 # 16
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. Utilize a hosted hypervisor that works through a host OS.
- B. Choose Microsoft Hyper-V for its standalone OS capabilities.
- C. Deploy a Type 1 hypervisor to bypass the existing OS.
- D. Implement a bare metal hypervisor for direct hardware access.

Answer: A

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 # 17

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

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

Answer: A

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 # 18

An engineer must locate the latest Dell Update Package for a specific PowerEdge server model running Windows Server 2022. Which initial step should the engineer take to begin this process?

- A. Utilize OpenManage Enterprise to search for available updates for the server.
- B. Open the Dell Support website and go to the "Drivers & Downloads" page.
- C. Access the iDRAC interface of the server and navigate to the update section.
- D. Contact Dell support to request the specific update package.

Answer: B

Explanation:
The initial step is to access the Dell Support website and navigate to the "Drivers & Downloads" page, entering the server model or service tag to locate the latest Dell Update Package (DUP) tailored for Windows Server 2022. This provides direct access to verified updates. iDRAC or OpenManage are for applying updates, not locating; contacting support is secondary. This method ensures compatibility and security in maintenance. Exact extract: "Describe different methods of updating firmware and drivers in PowerEdge Servers... Compare the PowerEdge Servers management applications, utilities, and licensing." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Maintenance (18%).

NEW QUESTION # 19

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

- A. 0.98 GB/s
- B. 1.97 GB/s
- C. 3.94 GB/s
- D. 7.88 GB/s

Answer: C

Explanation:
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...
Compare the on-board network on a PowerEdge Server." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Server Architecture and Roles (22%).

NEW QUESTION # 20

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