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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 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	<ul style="list-style-type: none">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	<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).
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EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q36-Q41):

NEW QUESTION # 36

A server administrator must monitor a Dell PowerEdge server without installing any additional software.

Which management tool must they use?

- A. OMSA
- B. SCG
- C. OpenManage Enterprise
- D. **iDRAC**

Answer: D

Explanation:

The Integrated Dell Remote Access Controller (iDRAC) is the built-in management tool for PowerEdge servers, allowing administrators to monitor hardware, performance, and alerts without additional software installation. iDRAC is embedded in the server's firmware, accessible via a web interface or CLI.

OpenManage Enterprise and OMSA require software installation, and SCG is not a standard Dell tool.

iDRAC provides out-of-band management for efficient monitoring. 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 # 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. Only through vSphere client and web client
- B. Exclusively using CLI commands on the ESXi host
- C. **CLI commands, Direct Console User Interface (DCUI), vSphere client and web client**
- D. Solely from the Direct Console User Interface (DCUI) of ESXi

Answer: C

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

An IT department is upgrading to solid state drives (SSDs) to improve server performance. They are looking for a storage device with no moving parts, which are known for its fault-tolerant architecture.

Which storage component is a nonvolatile storage device using solid-state flash memory and is known for faster performance than traditional hard drives and fault tolerance?

- A. SATA hard disk drive
- B. SAS hard disk drive
- C. SCSI drive
- D. **SSD drive**

Answer: D

NEW QUESTION # 39

Where is the certificate used by SVC signed?

- A. In the system's CMOS battery
- B. **In the Dell factory**
- C. In the server BIOS during boot
- D. In the operating system registry

Answer: B

Explanation:

The Secure Vault Component (SVC) certificate in PowerEdge servers is signed at the Dell factory during manufacturing to ensure hardware authenticity and security. This process embeds a trusted certificate for secure operations, not in the CMOS, OS registry, or BIOS at boot, which are not used for SVC signing.

Factory signing ensures a secure supply chain and component verification, critical for server security. 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 # 40

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

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 PowerEdge servers, 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 # 41

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