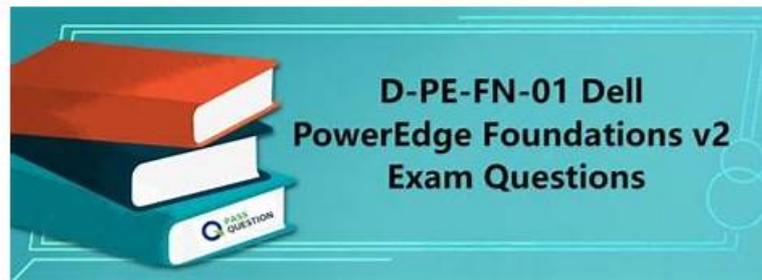


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EMC D-PE-FN-01 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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).
Topic 3	<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.

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EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q28-Q33):

NEW QUESTION # 28

A system administrator is unable to access the hypervisor by hostname. However, the hypervisor is responding to pings using the IP

address. Which server role should be investigated?

- **A. DNS**
- B. WINS
- C. DHCP
- D. ARP

Answer: A

Explanation:

If a hypervisor on a PowerEdge server is accessible by IP but not by hostname, the Domain Name System (DNS) server role should be investigated. DNS resolves hostnames to IP addresses, and a failure here prevents hostname-based access. WINS is for legacy NetBIOS, ARP handles IP-to-MAC mapping, and DHCP assigns IPs, not relevant to hostname resolution. DNS is critical for network connectivity. 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 # 29

What network security component is typically deployed by an organization to protect an internal Local Area Network (LAN) from unauthorized external access and manage client access to the Internet?

- A. Install a cloud storage gateway for secure data transfer
- B. Deploy a Storage Resource Manager for access control
- **C. Utilize a firewall to control network access and prevent intrusions**
- D. Implement a Network Interface Card for traffic filtering

Answer: C

Explanation:

A firewall is the primary network security component used to protect an internal LAN in PowerEdge server environments by controlling incoming and outgoing traffic, preventing unauthorized external access, and managing client Internet access. Network Interface Cards handle connectivity, not filtering; cloud storage gateways focus on data transfer; and Storage Resource Managers manage storage, not network security.

Firewalls are critical for secure networking. 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 # 30

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

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

Answer: B

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 # 31

Your team is deploying the latest 17G PowerEdge servers and is intrigued by the new DC-MHS architecture.

Which architectural evolution was introduced in 17G PowerEdge servers with the Data Center Modular Hardware System (DC-MHS)?

- A. Adoption of Open Compute Project (OCP) standards for modular hardware
- B. Introduction of proprietary, closed hardware standards
- C. Elimination of modular design in favor of traditional monolithic boards
- D. Simplification of server hardware to reduce component count

Answer: A

Explanation:

The Data Center Modular Hardware System (DC-MHS) in 17G PowerEdge servers adopts Open Compute Project (OCP) standards for modular hardware, enhancing flexibility, scalability, and interoperability while maintaining open standards. This contrasts with proprietary systems, simplification of components, or reverting to monolithic designs, aligning with modern data center needs for modularity. Exact extract:

"Explain how different PowerEdge server models (e.g., rack servers, tower servers, blade servers) are better suited for specific roles." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Introduction to Servers (28%).

NEW QUESTION # 32

An IT team wants to quickly upgrade the network bandwidth of their PowerEdge servers while also adding extra management ports like VGA and serial connectors. Which strategy offers a combination of network upgradeability and enhanced management ports using onboard card options?

- A. Replace LOM and use only RIO for network and management.
- B. Install an OCP card for network speed and add a RIO card for management ports.
- C. Upgrade LOM to a higher speed and add a separate PCIe NIC.
- D. Use only a high-end RIO card that integrates all functions.

Answer: B

Explanation:

Installing an Open Compute Project (OCP) card upgrades network bandwidth without using PCIe slots, while a Rear Input Output (RIO) card adds management ports like VGA and serial. This combination provides flexibility and conserves expansion options. Replacing LOM limits options; high-end RIO may not cover network upgrades; upgrading LOM with PCIe NIC consumes slots. This strategy enhances connectivity in PowerEdge servers. 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 # 33

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