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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"> 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 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).
Topic 4	<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.

EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q38-Q43):

NEW QUESTION # 38

An administrator attempts to log in to the iDRAC interface of a server using a web browser. The iDRAC prompts for a username and password. What security process is the iDRAC initiating by requesting these login credentials?

- A. Establish user authorization levels
- B. Perform user authentication**
- C. Implement role-based access control
- D. Configure system lockdown mode

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extracts: The iDRAC interface prompting for a username and password initiates user authentication, verifying the identity of the user attempting access to ensure only authorized personnel can manage the server. This is a fundamental security process in PowerEdge servers to protect against unauthorized access. Lockdown mode restricts changes, role-based access control assigns permissions post-authentication, and authorization levels follow verification. Authentication is the primary step here. 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 # 39

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

Answer: D

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 # 40

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

Answer: C

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 # 41

An organization is concerned about the privacy and security of sensitive data and is hesitant to store it on third-party servers. What potential disadvantage of Cloud Storage Solutions should this organization be most aware of regarding data security and privacy?

- A. Limited scalability to adjust storage capacity
- B. Higher initial hardware and management costs compared to on-premises solutions
- C. Dependence on a stable Internet connection
- D. Potential security concerns that relate to data privacy

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extracts: Cloud Storage Solutions pose potential security and privacy concerns due to data being stored on third-party servers, raising risks of unauthorized access or breaches, which is critical for organizations handling sensitive data. This outweighs other disadvantages like Internet dependency, scalability (which is typically high in clouds), or initial costs (often lower than on-premises). PowerEdge servers with on-premises storage offer more control over sensitive data.

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 # 42

Which firmware interface is known for providing faster boot times?

- A. BIOS
- B. MBR
- C. GPT
- D. UEFI
- E. CMOS

Answer: D

Explanation:

Unified Extensible Firmware Interface (UEFI) is known for faster boot times in PowerEdge servers compared to traditional BIOS, as it supports parallel initialization and modern hardware features, reducing startup delays. GPT and MBR are partitioning schemes, not firmware interfaces, and CMOS stores settings, not boot logic. UEFI is the standard for modern server performance. 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: Introduction to Servers (28%).

NEW QUESTION # 43

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