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

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>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.</li></ul>

Topic 4	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>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.</li> </ul>

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## EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q41-Q46):

### NEW QUESTION # 41

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 # 42

A server administrator must monitor a Dell PowerEdge server without installing any additional software. Which management tool must they use?

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

**Answer: C**

#### 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 # 43

Where is the certificate used by SVC signed?

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

#### Answer: A

#### 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 # 44

An IT manager is looking at the Dell PowerEdge R740xd model. What does the "xd" in the model's name indicate?

- A. Indicates tower form factor
- B. Indicates extra drives
- C. Indicates high density
- D. Indicates modular design

#### Answer: B

#### Explanation:

Comprehensive and Detailed Explanation From Exact Extracts: The "xd" in the PowerEdge R740xd model name indicates extra drives, signifying a configuration with enhanced storage capacity, supporting more drives or larger storage options for data-intensive workloads. This distinguishes it from standard R740 models. Modular design and high density apply to other models, and "xd" does not denote a tower form factor (R-series are racks). This naming convention aids in selecting appropriate PowerEdge models. 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 # 45

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

#### Answer: C

## 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 # 46

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