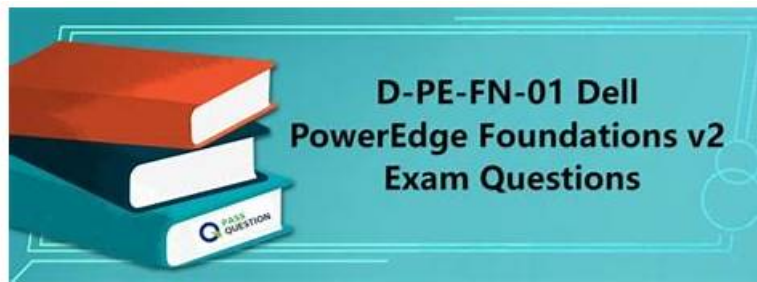


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## EMC D-PE-FN-01 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<ul style="list-style-type: none"> <li>• <b>Server Architecture and Roles:</b> 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 4	<ul style="list-style-type: none"> <li>• <b>Security:</b> 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).</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• <b>Server Management:</b> 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>

## EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q47-Q52):

### NEW QUESTION # 47

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

**Answer: E**

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 PowerEdgeservers, 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 # 48

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. DHCP
- C. ARP
- D. WINS

**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 # 49

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

- A. SCG
- B. OpenManage Enterprise
- 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 # 50

An IT department uses Storage Resource Manager (SRM) software to monitor and analyze their storage infrastructure. What is the primary purpose of using Storage Resource Manager (SRM) tools in data center management?

- A. Optimize application performance and reduce server latency by adding more nodes on the network
- B. Automate data backup and recovery processes
- C. Enhance network security and prevent unauthorized access
- D. Assist data center managers with capacity planning and storage resource management

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation From Exact Extracts: Storage Resource Manager (SRM) tools are primarily used to assist data center managers in capacity planning and managing storage resources, providing insights into usage, performance, and forecasting needs for efficient storage allocation in PowerEdge environments. SRM does not focus on network security, application performance via node addition, or backup automation, which are handled by other tools. This ensures optimized storage infrastructure management.

Exact extract: "Compare the PowerEdge Servers management applications, utilities, and licensing... Explain the function of various storage components." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Server Management (18%).

#### NEW QUESTION # 51

Which server attribute refers to its ability to undergo maintenance and repairs without causing system downtime?

- A. Reliability
- B. Scalability
- C. High availability

- D. Serviceability

**Answer: C**

Explanation:

High availability refers to a server's design that allows maintenance, repairs, and upgrades without interrupting operations, achieved through redundant components like power supplies, fans, and hot-swappable parts. This ensures continuous uptime critical for business environments. Reliability focuses on failure resistance, serviceability on ease of repair, and scalability on expansion. High availability is key for mission-critical PowerEdge servers. Exact extract: "Define the characteristics of a server... Explain the power distribution considerations... Describe maintenance functions, shutdowns, reboots of a PowerEdge Server." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Introduction to Servers (28%) and Maintenance (18%).

## NEW QUESTION # 52

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