

# 2026 EMC - D-PE-FN-01 - Dell PowerEdge Foundations v2 Exam Reliable Test Prep



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

Topic	Details
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Topic 1	<ul style="list-style-type: none"> <li>• <b>Introduction to Servers:</b> 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>• <b>Maintenance:</b> 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>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 4	<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>
Topic 5	<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>

## EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q79-Q84):

### NEW QUESTION # 79

A technician must update the firmware of a Dell PowerEdge server and wants to know if the iDRAC UI supports automated update processes. Which iDRAC UI feature facilitates keeping server components up to date with the latest firmware revisions?

- A. Employ Remote File Share for firmware updates
- B. Access Parts replacement section for firmware updates
- **C. Utilize Update services within the iDRAC interface**
- D. Enable Automatic Certificate Enrollment for system updates

**Answer: C**

### NEW QUESTION # 80

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. Implement a bare metal hypervisor for direct hardware access.
- D. Deploy a Type 1 hypervisor to bypass the existing OS.

**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 # 81

A server's hard drives are connected to a single controller using a component that provides power and data connections. A failure of this component could disconnect multiple drives simultaneously. Which high-speed communication board connects multiple hard drives to a single controller and whose failure can lead to drive disconnections?

- **A. Motherboard**
- B. PCIe Riser Card
- C. Backplane
- D. RAID Controller

**Answer: A**

#### NEW QUESTION # 82

A network administrator must size an IP subnet to address 60,000 clients. Which subnet fulfills this requirement without using unnecessary IP addresses?

- A. /8
- B. /24
- C. /32
- **D. /16**

**Answer: D**

#### NEW QUESTION # 83

What type of server is used in Hyperconverged Infrastructure (HCI) solutions'?

- A. PowerEdge-based vKVM
- B. Standard client workstations
- **C. PowerEdge-ready node servers**
- D. Cloud-based virtual servers

**Answer: C**

#### NEW QUESTION # 84

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