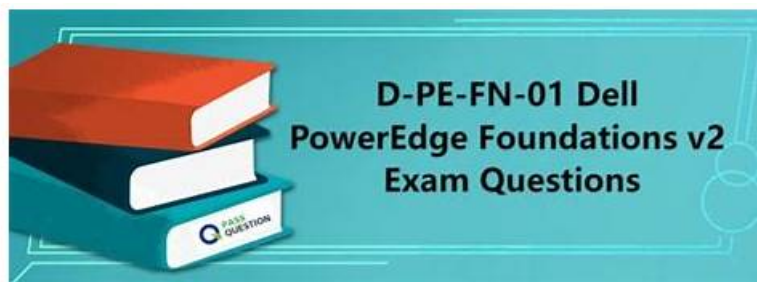


# D-PE-FN-01 Prüfungsressourcen: Dell PowerEdge Foundations v2 Exam & D-PE-FN-01 Reale Fragen



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## D-PE-FN-01 Der beste Partner bei Ihrer Vorbereitung der Dell PowerEdge Foundations v2 Exam

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### EMC D-PE-FN-01 Prüfungsplan:

| Thema   | Einzelheiten                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Thema 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>                                         |
| Thema 2 | <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> |

|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Thema 3 | <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>                           |
| Thema 4 | <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>                                                                       |
| Thema 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 D-PE-FN-01 Prüfungsfragen mit Lösungen (Q31-Q36):

### 31. Frage

Which Dell PowerEdge server component replacement prompts the use of the Easy Restore feature?

- A. Hard Drive
- **B. System Board**
- C. CPU
- D. Tape Drive

**Antwort: B**

Begründung:

The Easy Restore feature in PowerEdge servers is used when replacing the system board, as it automatically restores system configuration settings, such as BIOS and iDRAC configurations, from a backup stored in non-volatile memory. This ensures quick recovery of server settings post-replacement. Replacing CPUs, hard drives, or tape drives does not trigger Easy Restore, as these components do not store critical system configurations. Exact extract: "Describe maintenance functions, shutdowns, reboots of a PowerEdge Server...

Explain the power distribution considerations." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Maintenance (18%).

### 32. Frage

What benefit does Quick Sync provide regarding server management access?

- A. Eliminate the need for server physical reboot during management
- **B. Allow server management without a front bezel or management console**
- C. Enable remote server access using a dedicated network connection
- D. Provide advanced BIOS configuration options without server restart

**Antwort: B**

Begründung:

Quick Sync in PowerEdge servers enables management tasks, such as configuration and monitoring, via a mobile device or laptop using NFC or Bluetooth, without requiring a front bezel or traditional management console. This simplifies access in constrained environments. It does not provide remote network access, BIOS configuration without restart, or eliminate reboots, focusing instead on direct, bezel-free management. 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%).

### 33. Frage

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. ARP
- D. DHCP

**Antwort: A**

Begründung:

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%).

### 34. Frage

A data center is designing its server deployment strategy and wants to minimize the usage of PCIe slots for network cards to maximize expansion for other components. Which advantage of the Open Compute Project (OCP) card best supports the goal of conserving PCIe slots for other expansion needs?

- **A. OCP cards do not consume standard PCIe expansion slots.**
- B. OCP cards are hot-swappable, simplifying maintenance without downtime.
- C. OCP cards offer higher network speeds than regular PCIe cards.
- D. OCP cards integrate video and USB ports, saving rear I/O space.

**Antwort: A**

Begründung:

Comprehensive and Detailed Explanation From Exact Extracts: Open Compute Project (OCP) cards are designed to enhance network connectivity in PowerEdge servers without occupying standard PCIe slots, which is critical for data centers aiming to reserve PCIe slots for other expansion components like storage or GPUs. OCP cards use a dedicated mezzanine slot, providing high-speed networking while freeing up PCIe slots for additional functionality. Higher network speeds are a benefit but not the primary advantage for slot conservation. Hot-swappability is not standard for OCP cards, and video/USB integration is unrelated to PCIe slot usage. This aligns with strategic server deployment for scalability. 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%).

### 35. Frage

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. Use only a high-end RIO card that integrates all functions.
- D. Upgrade LOM to a higher speed and add a separate PCIe NIC.

**Antwort: B**

Begründung:

Installing an Open Compute Project (OCP) card upgrades network bandwidth without using PCIe slots, while a Rear Input Output

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