

D-PE-FN-01 Schulungsangebot, D-PE-FN-01 Testing Engine, Dell PowerEdge Foundations v2 Exam Trainingsunterlagen



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EMC D-PE-FN-01 Prüfungsplan:

Thema	Einzelheiten
Thema 1	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).
Thema 2	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.
Thema 3	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.
Thema 4	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.
Thema 5	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.

EMC Dell PowerEdge Foundations v2 Exam D-PE-FN-01 Prüfungsfragen mit Lösungen (Q67-Q72):

67. Frage

What is the primary function of the Silicon Root of Trust in Dell PowerEdge servers?

- A. To optimize cooling efficiency based on workload demands
- B. To provide cryptographic verification of firmware and hardware integrity from the factory
- C. To manage virtual machine migrations across clusters
- D. To enable automatic failover in high-availability configurations

Antwort: B

Begründung:

The Silicon Root of Trust in Dell PowerEdge servers establishes a secure foundation by cryptographically verifying the integrity of firmware, BIOS, and hardware components starting from the manufacturing process at the factory. This ensures that the server boots only trusted code, protecting against supply chain attacks, firmware tampering, and malware insertion. It uses immutable hardware-based keys to anchor the chain of trust, extending to the OS and applications. Managing VM migrations is a hypervisor function, cooling optimization relates to thermal management, and failover is part of clustering software, not directly tied to Root of Trust. This feature is crucial for enhancing server security in enterprise environments, aligning with modern cybersecurity standards for PowerEdge systems. Exact extract: "Describe the security features in PowerEdge servers... Explain the role of TPM and Secure Boot... Describe the security features in PowerEdge servers including Silicon Root of Trust, Secure Boot, TPM, and multifactor authentication." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Security (18%).

68. Frage

Which firmware interface is known for providing faster boot times?

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

Antwort: B

Begründung:

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%).

69. Frage

A company wants to run multiple operating systems on the same server without the overhead of a host operating system. Which type of solution should they use?

- **A. Type 1 hypervisor**
- B. Containerization
- C. Type 2 hypervisor
- D. Cloud-based visualization

Antwort: A

Begründung:

A Type 1 hypervisor, or bare-metal hypervisor, runs directly on PowerEdge server hardware, enabling multiple operating systems without the overhead of a host OS. This provides better performance and efficiency for virtualization compared to Type 2 hypervisors, which rely on a host OS. Containerization is for applications, not full OS, and cloud-based visualization is unrelated. 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%).

70. Frage

A retail business wants to implement servers at store locations to deliver targeted virtual experiences within limited and expensive retail space. Which PowerEdge server type is suitable while minimizing footprint?

- A. Utilize GPU optimized servers for enhanced graphics and accelerated processing
- **B. Select edge optimized servers for minimum footprint and enterprise compute in retail spaces**
- C. Deploy mainstream optimized servers for cost-effective scaling in standard environments
- D. Install mainstream servers for their general data center capabilities

Antwort: B

71. Frage

A system administrator must access the iDRAC user interface of a Dell PowerEdge 16G server for the first time. What type of password is used by default to log in to the iDRAC UI on PowerEdge 16G servers, enhancing initial security?

- A. Enter a blank password for the initial iDRAC UI login
- B. Utilize a user-defined password set during server setup
- **C. Employ a factory-generated password found on the Service Tag**
- D. Use the legacy default "root" and "calvin" credentials

Antwort: C

Comprehensive and Detailed Explanation From Exact Extracts: PowerEdge 16G servers use a factory-generated password for the initial iDRAC UI login, found on the server's Service Tag, enhancing security by avoiding predictable defaults like "root" and "calvin." This unique password ensures secure initial access, unlike blank or user-defined passwords set later. This aligns with modern security practices in PowerEdge servers. Exact extract: "Describe the security features in PowerEdge servers... Compare the PowerEdge Servers management applications, utilities, and licensing." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Security (18%).

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