

# EMC

## Exam Questions D-PE-FN-01

Dell PowerEdge Foundations v2 Exam



#### NEW QUESTION 1

What is the primary objective of pairs Multi Vector Cooling technology in server platforms?

- A. Implement complex liquid cooling solutions in all servers
- B. Maximize server processing power at any temperature
- C. Achieve complete Fairless operation in servers
- D. Manage thermal controls through a multi-faceted strategy

**Answer: D**

#### NEW QUESTION 2

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

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

**Answer: B**

#### NEW QUESTION 3

A film studio needs high-performance servers for video rendering tasks that demand significant computational power and efficiency per rack space. Which type of specialized module server would be most appropriate for maximizing rendering capabilities within a data center?

- A. Edge-optimized modules for remote deployment and minimum footprint
- B. Mainstream optimized modules balancing performance and cost for general use
- C. GPU-optimized modules for enhanced graphics processing and VDI
- D. Specialized modules with high compute performance and core density per rack

**Answer: C**

#### NEW QUESTION 4

An administrator needs a dedicated RAID solution for booting the server operating system, using fast NVMe drives and iDRAC management capabilities. Which Boot Optimized Storage Solution is a RAID card designed for booting server OS, using one or two M.2 NVMe drives and managed by iDRAC?

- A. NVDIMM
- B. PERC
- C. Intel Optane DC Persistent Memory
- D. BOSS

**Answer: D**

#### NEW QUESTION 5

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

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

**Answer: B**

#### NEW QUESTION 6

A network designer is planning for a high-speed network infrastructure requiring 10 Gigabit per second (Gbps) data transfer rates Which Ethernet cable categories are speeded to support a transmission speed of 10 Gbps?

- A. Cat 5e and Cat 6
- B. Cat 7 and Cat 8
- C. Cat 6a and Cat 7
- D. Cat 6 and Cat 7

**Answer: C**

#### NEW QUESTION 7

Which open-source operating system is recommended as an alternative for file sharing, supporting NFS and Samba on Dell PowerEdge servers?

- A. Ubuntu
- B. Kali Linux
- C. Red Hat Linux
- D. SUSE Linux

**Answer: A**

#### NEW QUESTION 8

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

**Answer: B**

#### NEW QUESTION 9

How many memory channels are organized per processor in PowerEdge 16G XE-series servers?

- A. Eight memory channels
- B. Four memory channels
- C. Six memory channels
- D. Sixteen memory channels

**Answer: A**

#### NEW QUESTION 10

Which feature is supported by the OCP 3.0 card in the latest 16G PowerEdge servers?

- A. Maximum of two network ports
- B. Power consumption of 200 W
- C. PCIeGen3
- D. Wake on LAN (WoL)

**Answer: D**

#### NEW QUESTION 10

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

**Answer: A**

#### NEW QUESTION 15

A data center is adopting a new SSD form factor for their PCIe storage drives to improve storage density and thermal efficiency in their racks Which SSD design is optimized for enterprise data centers, offering higher interface speeds with PCIe Gen5, better thermal resistance, and is designed to replace the 2.5" and U.2 form factors?

- A. M.2 NVMe
- B. 2.5" NVMe
- C. BOSS
- D. EDSFF

**Answer: D**

#### NEW QUESTION 16

A small office is considering DAS for its storage needs. What is a potential disadvantage of this solution?

- A. More complex to deploy
- B. Higher initial cost
- C. Not well suited to applications using block-level storage
- D. Limited scalability

**Answer: D**

#### NEW QUESTION 19

A university research department is planning for long-term storage of scientific datasets and archived research papers They anticipate rapid data growth over the next few years and require a solution

Which aspect of storage planning should they MOST emphasize when choosing a storage solution for their growing research data archive?

- A. Scalability to adjust storage needs as required
- B. Initial hardware cost of the storage system
- C. Network infrastructure compatibility with existing LAN
- D. Ease of management and simplified setup procedures

**Answer: A**

#### NEW QUESTION 22

For what purpose and at which boot prompt should the F2 key be pressed when starting a PowerEdge server?

- A. To launch Lifecycle Controller on warm reboot
- B. To enter System Setup when prompted on the boot screen
- C. To access Boot Manager during warm boot
- D. For diagnostic utilities during system startup

**Answer: B**

#### NEW QUESTION 25

Power supply unit 2 (PSU 2) on a Dell PowerEdge R760 server has been losing power several times a day. The system administrator is planning to replace the power supply but is unsure which power supply is referenced as PSU 2. What is the most reliable way for the system administrator to visually identify PSU 2?

- A. Check the chassis label near the power supplies for PSU numbers
- B. Assume PSU 2's LEDs are off because the iDRAC has disabled it
- C. Use the iDRAC web UI to activate the blink option for PSU 2's LED
- D. Look for a constant amber LED on PSU 1, indicating a problem with that unit

**Answer: A**

#### NEW QUESTION 26

You are explaining the factors that influence CPU performance to a client concerned about server responsiveness. Which set of key metrics primarily determines the overall performance of a server's CPU?

- A. Only clock speed and core count are relevant
- B. Memory speed and storage latency are the primary determinants of CPU performance
- C. Clock speed, core count, and thermal dynamics are key performance factors
- D. Network bandwidth and PCIe slot generation are most crucial for CPU speed

**Answer: C**

#### NEW QUESTION 31

In a hot aisle/cold aisle data center layout, where is the hot air exhausted from server racks primarily directed?

- A. Recirculated within the server rack for preheating
- B. Exhausted directly out of the data center building
- C. Vented directly into the cold aisle for mixing
- D. Routed to the air handling system for cooling

**Answer: D**

#### NEW QUESTION 33

How many RDIMMs can be populated per memory channel?

- A. 4
- B. 2
- C. 1
- D. 8

**Answer: B**

#### NEW QUESTION 37

An engineer must locate the latest Dell Update Package for a specific PowerEdge server model running Windows Server 2022. Which initial step should the engineer take to begin this process?

- A. Access the iDRAC interface of the server and navigate to the update section.
- B. Contact Dell support to request the specific update package.
- C. Open the Dell Support website and go to the "Drivers & Downloads" page.
- D. Utilize OpenManage Enterprise to search for available updates for the server.

**Answer: C**

#### NEW QUESTION 38

Which sequence of components represents an initial segment of a typical flow of data (I/O) in a PowerEdge 670 server from input to data being temporarily stored for active use?

- A. CPUs -> Memory Module -> NIC
- B. LAN -> Disk Drive -> Memory Module
- C. LAN -> NIC -> Memory Module
- D. NIC -> CPUs -> Disk Drive

**Answer: C**

#### NEW QUESTION 41

A system administrator wants to implement software RAID on a new PowerEdge server to save costs. Which configuration option allows a system board's integrated SATA port to be used for RAID implementations?

- A. SATA port can only be used for non-RAID configurations
- B. SATA port is exclusively for hardware RAID controllers
- C. SATA port cannot be used for any RAID configuration
- D. SATA port can be configured for either SATA controller or software RAID

**Answer: D**

**NEW QUESTION 44**

A company operating a medium-sized business needs a server for virtualization and advanced computing but also values quiet operation for an office setting. Which specific type of tower server configuration should they consider balancing these needs?

- A. Select two-socket tower server options for advanced computing, virtualization, and power-hungry workloads
- B. Choose rack servers despite the office environment for better long-term scalability
- C. Deploy modular servers to over-engineer for future data center expansions
- D. Recommend one-socket tower servers for basic everyday business applications

**Answer: A**

**NEW QUESTION 47**

From which attack does TPM protect information that is stored in hardware?

- A. Insider threat
- B. External software attacks
- C. Overwriting by another application
- D. Physical theft

**Answer: B**

**NEW QUESTION 52**

A user has successfully logged in to a file server and tries to open a document. The server checks the user's permissions before granting access to the file. Which security mechanism is the file server employing to determine if the user can access the document?

- A. Validate user authentication status
- B. Implement access control lists for authorization
- C. Perform intrusion detection analysis
- D. Enforce multifactor authentication

**Answer: B**

**NEW QUESTION 56**

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