

# EMC

## Exam Questions D-PE-FN-01

Dell PowerEdge Foundations v2 Exam



#### NEW QUESTION 1

What are the key characteristics of a Shielded Twisted Pair (STP) Ethernet cable compared to Unshielded Twisted Pair (UTP)?

- A. More susceptible to noise and lower costs
- B. Less susceptible to noise and similar costs
- C. Less susceptible to noise and higher costs
- D. Similar noise susceptibility and similar costs

**Answer: C**

#### NEW QUESTION 2

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. Deploy a Type 1 hypervisor to bypass the existing OS.
- B. Implement a bare metal hypervisor for direct hardware access.
- C. Utilize a hosted hypervisor that works through a host OS.
- D. Choose Microsoft Hyper-V for its standalone OS capabilities.

**Answer: C**

#### NEW QUESTION 3

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 4

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 specified 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 5

An administrator is attempting to use iDRAC Direct and must verify the physical connection status of the USB port.

What visual indicator on the USB port of the Dell PowerEdge server confirms that the iDRAC Direct connection is active and recognized?

- A. Look for a steady amber LED indicating iDRAC Direct link
- B. Ensure that the USB port LED is off for a successful connection
- C. Confirm that the USB port activity LED blinks to verify connection
- D. Check for a solid green LED on the USB port

**Answer: C**

#### NEW QUESTION 6

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 7

What is one of the primary functions of the BIOS?

- A. Update device drivers for the operating system
- B. Perform the POST
- C. Encrypt data stored on the hard drive
- D. Control the flow of electricity to system components

**Answer: B**

#### NEW QUESTION 8

An administrator must configure the iDRAC IP address on a Dell PowerEdge XE9680 server using the LCD control panel. What is the first step that the administrator should take?

- A. Access the BIOS settings during the server reboot
- B. Navigate to the network settings on the LCD control panel
- C. Press the Quick Sync button on the front of the server
- D. Connect a monitor and keyboard to the server

**Answer: B**

#### NEW QUESTION 9

For a domain controller implementation, what PowerEdge server is considered when running directly as the domain controller OS?

- A. Bare metal
- B. Virtual device
- C. Cloud instance
- D. Containerized application

**Answer: A**

#### NEW QUESTION 10

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

**Answer: C**

#### NEW QUESTION 10

What is a key advantage of differential backups compared to full backups?

- A. Better RPO
- B. Lower storage requirements
- C. Only one copy to restore
- D. Faster restore times

**Answer: D**

#### NEW QUESTION 15

What method does adaptive closed loop power capping use to contribute to cooling efficiency?

- A. Restricts CPU processing power to reduce heat generation
- B. Dynamically adjusts power consumption based on temperature
- C. Forces fans to run at maximum speed at all times
- D. Switches between air and liquid cooling modes automatically

**Answer: B**

#### NEW QUESTION 20

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 23

What role do the CPUs undertake during the data retrieval process from the disk drive within a PowerEdge server's I/O data path?

- A. They facilitate the network transmission of data that is retrieved from the disk drive
- B. They provide operational control and computational power to process retrieved data
- C. They act as the temporary storage location for data fetched from the disk drive
- D. They manage the physical read/write operations directly on the disk drive

**Answer: D**

#### NEW QUESTION 26

Which is a typical use case for a GPU optimized PowerEdge server?

- A. Configuration Flexibility
- B. Over provisioning
- C. VDI
- D. High performance

**Answer: C**

**NEW QUESTION 28**

What additional action can administrators take within the 'Add New User" wizard to refine user access in the iDRAC UI?

- A. Import a custom role profile
- B. Configure system lockdown mode for the user
- C. Modify the base firmware for user permissions
- D. Select or unselect filters to tailor access

**Answer: D**

**NEW QUESTION 30**

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. WINS
- B. ARP
- C. DHCP
- D. DNS

**Answer: D**

**NEW QUESTION 31**

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 32**

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 35**

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 38**

What is indicated by a blinking blue system ID LED on a PowerEdge server?

- A. The system is in fail-safe mode
- B. The System ID mode is active
- C. The system is turned off
- D. The system is experiencing a fault

**Answer: B**

**NEW QUESTION 43**

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 44**

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

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

**Answer: D**

**NEW QUESTION 48**

In a virtual environment, what is the host operating system's role in managing network traffic when an external switch is used?

- A. Isolate the host completely from network traffic flow
- B. Manage only internal communication between virtual machines
- C. See the traffic and share the pNIC with VMs for external communication
- D. Delegate all traffic management directly to the external switch itself

**Answer: C**

**NEW QUESTION 51**

An administrator attempts to log in to the iDRAC interface of a server using a web browser. The iDRAC prompts for a username and password. What security process is the iDRAC initiating by requesting these login credentials?

- A. Configure system lockdown mode
- B. Implement role-based access control
- C. Perform user authentication
- D. Establish user authorization levels

**Answer: C**

**NEW QUESTION 52**

A small business is considering adopting cloud storage and must understand the fundamental requirement for a client workstation to use cloud-based storage services. What is the essential prerequisite for a client workstation to use a cloud storage solution for storing and retrieving data?

- A. Configure a dedicated Network Attached Storage device locally
- B. Install specialized hardware for Direct Attached Storage
- C. Maintain a direct connection to the corporate SAN
- D. Establish Internet access rights to the remote storage server

**Answer: D**

**NEW QUESTION 56**

You must enhance the scalability and connectivity flexibility of a PowerEdge server, particularly for management and peripheral connections. Which type of onboard card is explicitly designed to increase scalability, flexibility, and connectivity options in PowerEdge servers beyond basic networking?

- A. Open Compute Project (OCP) card
- B. Rear Input Output (RIO) card
- C. LAN On Motherboard (LOM)
- D. Integrated system board network controller

**Answer: A**

**NEW QUESTION 58**

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

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

**Answer: C**

**NEW QUESTION 60**

An expanding multimedia company requires a storage system to archive and retrieve large video files, prioritizing high-capacity, and secure digital media management. What is the primary purpose of a storage solution in a server network environment (or organizations managing extensive digital media)?

- A. Optimize CPU processing for digital media applications

- B. Improve workstation performance when accessing network resources
- C. Enhance network bandwidth for faster data transmission
- D. Store, access, manage, and secure digital media effectively

**Answer: D**

**NEW QUESTION 65**

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 67**

A telecommunications company is expanding its services to edge locations and requires servers that can handle full enterprise-level compute but fit in limited telecom spaces. Which feature of edge-optimized PowerEdge servers is most critical for deployment in telecommunications environments?

- A. Their GPU-optimized configurations for graphic-intensive applications
- B. Their specialized modules for high-density computing in controlled data centers
- C. Their rugged design for withstanding extreme outdoor conditions
- D. Their minimal footprint that is combined with full PowerEdge features and management

**Answer: D**

**NEW QUESTION 71**

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

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

**Answer: C**

**NEW QUESTION 74**

You are replacing the main system board in a 17G PowerEdge server with a DC-MHS architecture. Which DC-MHS component functions as the system board itself?

- A. Modular-Common Redundant Power Supply (M-CRPS)
- B. Host Processor Module (HPM)
- C. Platform Infrastructure Connectivity (M-PIC)
- D. Data Center Secured Control Module (DC-SCM)

**Answer: B**

**NEW QUESTION 77**

A data center operator implements security best practices and must ensure that user access to server management functions is strictly controlled and separate from regular data access paths.

How do out-of-band (OOB) management applications enhance security by design compared to in-band methods?

- A. OOB applications rely on m-band operating system utilities for access restriction and use their inherent capabilities
- B. OOB applications centralize all user access through a single OS login based on the capabilities that the operating system provides
- C. OOB applications seek separation of data I/O from management I/O and restrict user access to the management application by way of the operating system
- D. OOB applications integrate user access within the operating system security model and use ABAC to control access to the resources

**Answer: C**

**NEW QUESTION 81**

A new IT technician is learning about server hardware and asks why servers seem more complex than desktop PCs. What is the primary reason for the increased complexity in server hardware when compared to desktop systems?

- A. Simplify server management interfaces for users.
- B. Minimize power consumption for cost savings in large deployments.
- C. Enhance processing power and bandwidth for multiple users.
- D. Reduce the physical footprint for space efficiency.

**Answer: C**

**NEW QUESTION 86**

When comparing PowerEdge server models R740, R750, R760, and R770, intended for similar use cases, what is the primary differentiator across these generations'?

- A. Reduce server power consumption to minimize operational costs
- B. Standardize server form factors to simplify data center management
- C. Enhance computing power and integrate cutting-edge technology with each generation
- D. Decrease server capacity to optimize space usage within the data center

**Answer: C**

#### **NEW QUESTION 91**

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. Install mainstream servers for their general data center capabilities
- C. Deploy mainstream optimized servers for cost-effective scaling in standard environments
- D. Select edge optimized servers for minimum footprint and enterprise compute in retail spaces

**Answer: D**

#### **NEW QUESTION 92**

How many RDIMMs can be populated per memory channel?

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

**Answer: B**

#### **NEW QUESTION 96**

An administrator must gracefully shut down an ESXi host. Which interfaces provide options for initiating this shutdown? Identify the interfaces from which an ESXi host shutdown can be initiated.

- A. Exclusively using CLI commands on the ESXi host
- B. CLI commands, Direct Console User Interface (DCUI), vSphere client and web client
- C. Only through vSphere client and web client
- D. Solely from the Direct Console User Interface (DCUI) of ESXi

**Answer: B**

#### **NEW QUESTION 100**

Which iDRAC feature enables administrators to directly connect a laptop for initial server implementation and IP configuration?

- A. Access iDRAC Auto Discovery for automatic IP assignment
- B. Use iDRAC Direct for laptop connection and initial setup
- C. Utilize the iDRAC Virtual Console for direct IP setup
- D. Employ iDRAC Remote File Share for initial configuration

**Answer: B**

#### **NEW QUESTION 104**

A financial institution is upgrading its data center to support mission-critical applications that demand robust computing, high availability, and scalability. Which of the described PowerEdge server characteristics is most crucial for supporting mission-critical applications in a demanding business environment?

- A. Robust computing solutions meeting business priorities like performance and scalability
- B. Space-optimization for maximizing data center footprint efficiency
- C. Quiet, non-disruptive acoustics for comfortable office deployments
- D. Affordability and cost-effectiveness for budget-sensitive operations

**Answer: A**

#### **NEW QUESTION 108**

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 113**

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

**Answer: D**

**NEW QUESTION 116**

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 118**

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 SATAport 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 121**

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 124**

An administrator sets up an In-Band management method to monitor Dell PowerEdge servers. Which In-Band and one-to-one software application can they use to monitor and manage the health of a server?

- A. OpenManage Enterprise
- B. OMSA
- C. iDRAC
- D. OME-M

**Answer: B**

**NEW QUESTION 127**

A technician is verifying the throughput of SAS drives connected to a PERC 10 controller. What is the maximum data transfer rate achievable when using SAS 3.0 compliant drives with a PERC 10 controller?

- A. 3Gb/sec
- B. 22.5Gb/sec
- C. 12Gb/sec
- D. 6Gb/sec

**Answer: C**

**NEW QUESTION 129**

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 131**

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. 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 136**

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