

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 large enterprise requires a server that can handle high-performance computing tasks and large-scale virtualization. Which type of Dell PowerEdge server should they consider?

- A. Deploy a modular server
- B. Deploy a rack server
- C. Deploy a tower server
- D. Deploy a micro server

Answer: B

NEW QUESTION 4

A system administrator is setting up a new PowerEdge server and must decide between using an HBA or a PERC card for storage connectivity. The primary requirement is high-speed data transfer to network devices, and cost is a significant constraint. Which approach should the administrator prioritize for initial setup?

- A. Select an HBA card for cost-effective, reliable non-RAID I/O operations
- B. Implement a PERC card to immediately reduce latency and enhance overall storage performance
- C. Choose a RAID controller due to its inherent ability to manage a greater number of devices efficiently
- D. Integrate a PERC card to enable future RAID configurations for data redundancy

Answer: A

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

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. Containerization
- B. Cloud-based virtualization
- C. Type 2 hypervisor
- D. Type 1 hypervisor

Answer: D

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

Which component within an External Switch configuration helps maintain VM network configurations despite changes to the physical pNIC?

- A. PVLANs
- B. pNICs
- C. vNICs
- D. vEthernet

Answer: C

NEW QUESTION 9

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 10

A company is designing its backup infrastructure and must decide where to store the backed-up data. They are considering both on-site and off-site options. Which storage media are commonly used in backup solutions for storing and archiving backup data?

- A. Network Attached Storage (NAS)
- B. Solid state drives (SSDs) and NVMe drives
- C. SAN arrays
- D. Random Access Memory (RAM) and CPU cache
- E. Hard disks

Answer: A

NEW QUESTION 10

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 15

An IT department uses Storage Resource Manager (SRM) software to monitor and analyze their storage infrastructure. What is the primary purpose of using Storage Resource Manager (SRM) tools in data center management?

- A. Enhance network security and prevent unauthorized access
- B. Optimize application performance and reduce server latency by adding more nodes on the network
- C. Assist data center managers with capacity planning and storage resource management
- D. Automate data backup and recovery processes

Answer: C

NEW QUESTION 19

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 22

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

Answer: B

NEW QUESTION 27

Where is the certificate used by SVC signed?

- A. In the system's CMOS battery
- B. In the Dell factory
- C. In the operating system registry
- D. In the server BIOS during boot

Answer: B

NEW QUESTION 32

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 35

What network security component is typically deployed by an organization to protect an internal Local Area Network (LAN) from unauthorized external access and manage client access to the Internet?

- A. Implement a Network Interface Card for traffic filtering
- B. Install a cloud storage gateway for secure data transfer
- C. Utilize a firewall to control network access and prevent intrusions
- D. Deploy a Storage Resource Manager for access control

Answer: C

NEW QUESTION 37

Your team is deploying the latest 17G PowerEdge servers and is intrigued by the new DC- MHS architecture. Which architectural evolution was introduced in 17G PowerEdge servers with the Data Center Modular Hardware System (DC-MHS)?

- A. Simplification of server hardware to reduce component count
- B. Elimination of modular design in favor of traditional monolithic boards
- C. Introduction of proprietary, closed hardware standards
- D. Adoption of Open Compute Project (OCP) standards for modular hardware

Answer: D

NEW QUESTION 42

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 45

Which firmware interface is known for providing faster boot times?

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

Answer: E

NEW QUESTION 47

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 51

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 56

What does the Pre-boot System Assessment (ePSA) window display?

- A. Network settings
- B. Firmware versions
- C. Installed software
- D. Detected hardware devices

Answer: D

NEW QUESTION 58

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 62

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 67

A server has a PCIe 5.0 x1 lane. What is the theoretical bandwidth?

- A. 3.94 GB/s
- B. 1.97 GB/s
- C. 7.88 GB/s
- D. 0.98 GB/s

Answer: A

NEW QUESTION 68

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 71

A server requires both high storage capacity and fast data access speeds. Which components should you recommend achieving both?

- A. Combine Hard Disk Drives (HDDs) and solid state drives (SSDs)
- B. Upgrade the network interface card (NIC)
- C. Install additional hard disk drives (HDDs)
- D. Add more DIMM slots for increased memory

Answer: A

NEW QUESTION 74

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 79

An administrator is tasked with updating firmware on several remote servers without interrupting the operating system. Which method should they use?

- A. Utilize iDRAC
- B. Implement OpenManage Enterprise
- C. Set up System Setup
- D. Clone the OS configuration

Answer: A

NEW QUESTION 80

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 81

What type of user accounts can administrators create in iDRAC?

- A. Unlimited external users
- B. Only one administrator account
- C. Up to 16 local iDRAC users
- D. Up to two guest accounts

Answer: C

NEW QUESTION 84

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 85

A technician is confused about how storage drives connect to the system board in a server without a hardware RAID controller. What connection method is used for storage drives in a server configuration that does not include a dedicated hardware RAID controller?

- A. Storage drives are not functional without a hardware RAID controller
- B. Storage drives connect to the network interface card for data access
- C. Storage drives connect only to the backplane, bypassing the system board
- D. Storage drives connect directly to the system board SATA ports

Answer: D

NEW QUESTION 86

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 89

A company is looking to expand its compute environment and requires full-performance enterprise servers but wants to avoid over-provisioning resources and optimize cost-effectiveness. Which PowerEdge server portfolio alignment provides feature-optimized technology and full-performance enterprise capabilities for scaling compute environments?

efficiently?

- A. Recommend GPU-Optimized Servers for cost efficiency
- B. Deploy specialized modules for optimized compute
- C. Suggest mainstream optimized PowerEdge servers for balanced scaling
- D. Utilize Edge-optimized servers for enterprise scaling

Answer: C

NEW QUESTION 91

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 95

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 97

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 102

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 103

In ECC memory, how many extra bits are used for every 64-bit value to facilitate single-bit error correction, based on Hamming code?

- A. ECC uses 4 extra bits for every 64-bit value for correction.
- B. ECC adds 32 error correction bits per 64-bit data segment.
- C. ECC employs 8 additional bits for every 64-bit value.
- D. ECC uses 16 parity bits for every 64-bit data value.

Answer: C

NEW QUESTION 107

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 109

A critical Windows Server operating system has become unresponsive, and a normal graceful shutdown is not possible. Which alternative shutdown method might

be necessary in this unresponsive operating system scenario?

- A. Perform a graceful shutdown through the iDRAC interface instead
- B. Perform a hard reboot of the server to regain control
- C. Initiate a remote shutdown from a different server on the network
- D. Schedule a delayed shutdown using command prompt

Answer: B

NEW QUESTION 111

An IT department is upgrading to solid state drives (SSDs) to improve server performance. They are looking for a storage device with no moving parts, which are known for its fault-tolerant architecture. Which storage component is a nonvolatile storage device using solid-state flash memory and is known for faster performance than traditional hard drives and fault tolerance?

- A. SCSI drive
- B. SAS hard disk drive
- C. SSD drive
- D. SATA hard disk drive

Answer: C

NEW QUESTION 115

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 116

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 118

Which security feature of Virtual Machines (VMs) helps in containing security breaches within a shared environment?

- A. Centralize security protocol management
- B. Isolate each VM for breach containment
- C. Enhance physical server access control
- D. Encrypt VM communication channels

Answer: B

NEW QUESTION 121

A data center is designed with cold aisle containment. How are cold aisles used in this design to manage server temperatures?

- A. Isolate the cold aisle to prevent any airflow from the hot aisle.
- B. Direct hot exhaust air from the servers into the cold aisle.
- C. Pump cold air into the cold aisle for server intake.
- D. Recirculate hot air within the cold aisle to preheat intake air.

Answer: C

NEW QUESTION 125

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