



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 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 3

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 4

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 5

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 6

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 7

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 8

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 9

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 10

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 10

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 13

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 14

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 16

What happens if the verification of the Root of Trust fails?

- A. The server goes into a lockdown state
- B. The server's boot time increases
- C. The server shuts down and notifies the user
- D. The server continues to boot normally

Answer: A

NEW QUESTION 21

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 26

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 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 29

A business requires a storage protocol for their enterprise servers that can handle substantial storage and backup workloads and is compatible with SATA technology. Which protocol is ideal for enterprises needing significant storage and backup and is compatible with SATA?

- A. NVMe
- B. SAS
- C. iSCSI
- D. EDSFF

Answer: B

NEW QUESTION 34

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 35

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 38

Which firmware interface is known for providing faster boot times?

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

Answer: E

NEW QUESTION 41

What is the primary function of Intel Boot Guard in securing the server boot process?

- A. To prevent running firmware images not released by the system manufacturer
- B. To manage user authentication and access control at the hardware level
- C. To lock down the BIOS in case of any detected tampering
- D. To encrypt the server's hard drives using hardware keys

Answer: A

NEW QUESTION 46

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 51

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 53

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 58

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 63

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 64

What benefit does Quick Sync provide regarding server management access?

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

Answer: D

NEW QUESTION 68

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 73

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 78

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 79

Which NVIDIA software is designed to accelerate data science pipelines and streamline AI development and deployment in Gen AI solutions?

- A. NVIDIA TensorRT
- B. NVIDIA AI Enterprise
- C. NVIDIA CUDA
- D. NVIDIA vSphere

Answer: B

NEW QUESTION 80

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 81

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 82

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 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 90

While training new technicians on 17G PowerEdge servers you must list the modular components in a DC-MHS architecture
Which of the following sets of components accurately represents the modular design of a Data Center Modular Hardware System (DC-MHS)?

- A. Chassis Risers, Expansion Card
- B. Hard Drives, memory modules
- C. M-CRPS, M-PIC, M-XIO, DC-SCM, HP
- D. Fan gantr
- E. Front Node
- F. System Board, backplan
- G. RAID Controller Network Car
- H. Power Supply
- I. CPUs, DIMMs, Storage Drive
- J. Cooling Fans

Answer: B

NEW QUESTION 95

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 96

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 101

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 105

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 106

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 110

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 112

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 113

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 118

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 120

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 123

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