



EMC

Exam Questions D-PE-FN-01

Dell PowerEdge Foundations v2 Exam

NEW QUESTION 1

Which PSU LED functionality is identical to all generations of servers?

- A. Alternately blinking amber light and white light.
- B. LED pause blinking for 1 to 9 times when the LED light is a white color.
- C. LED blinking 1 to 9 times when the LED light is an amber color.
- D. LED blinking in a 4 Hz interval during a firmware update until the process is complete.

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

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 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

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 6

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 7

An administrator must identify the hot-swappable PSUs for a system upgrade. What indicates the PSUs can be replaced safely without disrupting the functionality of the servers?

- A. Orange tab embedded in the PSUs
- B. Blue tab embedded in the PSUs
- C. Green LED lights
- D. Wattage label

Answer: A

NEW QUESTION 8

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 9

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 10

Which firmware interface is known for providing faster boot times?

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

Answer: E

NEW QUESTION 10

A network administrator must size an IP subnet to address 60,000 clients. Which subnet fulfills this requirement without using unnecessary IP addresses?

- A. /8
- B. /32
- C. /16
- D. /24

Answer: C

NEW QUESTION 15

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 16

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 17

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 18

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 21

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 24

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 27

For VMs requiring independent and self-contained network operation that is isolated from both the host and any external networks, which virtual switch type should be chosen?

- A. Physical
- B. External
- C. Internal
- D. Private

Answer: D

NEW QUESTION 31

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 36

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 38

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 42

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 46

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 49

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 54

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 58

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 59

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 60

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 63

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 64

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 68

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 72

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 75

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