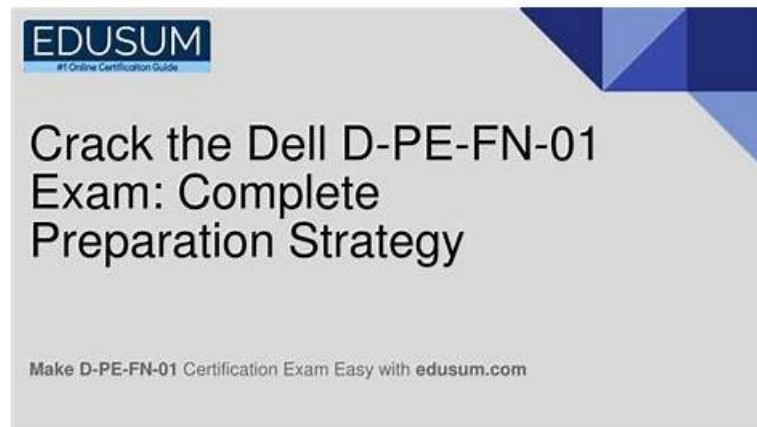


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EMC D-PE-FN-01 Exam Syllabus Topics:

Topic	Details
Topic 1	• Server Architecture and Roles: This section of the exam measures the skills of Server Support Engineers and focuses on understanding how various PowerEdge server types—like rack, tower, and blade servers—fit specific deployment needs. It covers interpreting server data flow, exploring storage topologies like DAS, NAS, and SAN, and understanding virtualization using hypervisors. The section also outlines how to position PowerEdge servers in edge, cloud, or core environments for use cases such as HPC, file sharing, or AI workloads.
Topic 2	• Server Management: This section of the exam measures the skills of Server Support Engineers and addresses server management concepts, including in-band and out-of-band management. It compares Dell management utilities, explains BIOS vs. UEFI, and introduces at-the-box management. The section also explores iDRAC versions and the features of the Dell OpenManage System Administrator Suite (OMSA) to ensure engineers can monitor and manage PowerEdge servers effectively.
Topic 3	• Server Networking and Connectivity: This section of the exam measures the skills of Data Center Technicians and focuses on the fundamentals of networking services as they relate to PowerEdge servers. It includes identifying network cables and connections, and comparing different onboard network options. This knowledge is essential for establishing and maintaining server connectivity within diverse infrastructure environments.
Topic 4	• Maintenance: This section of the exam measures the skills of Data Center Technicians and covers practical server maintenance procedures. Topics include handling memory and expansion cards, understanding power distribution, recognizing hardware fault indicators, and applying various firmware update methods. It also touches on thermal management through cooling techniques such as air, liquid, and immersion cooling, along with proper shutdown and reboot practices.
Topic 5	• Introduction to Servers: This section of the exam measures the skills of Data Center Technicians and covers foundational concepts related to server characteristics and key storage components in Dell PowerEdge servers. It includes identifying server generations, interpreting server nomenclature, and understanding the purpose of hardware elements such as HDDs, SSDs, RAID controllers, BOSS, and M.2 drives. The goal is to ensure a clear grasp of server internals and their role in performance and reliability.

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EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q50-Q55):

NEW QUESTION # 50

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. Utilize OpenManage Enterprise to search for available updates for the server.
- C. Open the Dell Support website and go to the "Drivers & Downloads" page.
- D. Contact Dell support to request the specific update package.

Answer: C

Explanation:

The initial step is to access the Dell Support website and navigate to the "Drivers & Downloads" page, entering the server model or service tag to locate the latest Dell Update Package (DUP) tailored for Windows Server 2022. This provides direct access to verified updates. iDRAC or OpenManage are for applying updates, not locating; contacting support is secondary. This method ensures compatibility and security in maintenance. Exact extract: "Describe different methods of updating firmware and drivers in PowerEdge Servers... Compare the PowerEdge Servers management applications, utilities, and licensing." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Maintenance (18%).

NEW QUESTION # 51

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

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

Answer: D

Explanation:

A blinking blue system ID LED on a PowerEdge server indicates that the System ID mode is active, typically used to identify a specific server in a rack for maintenance or troubleshooting. This is distinct from fail-safe mode, faults (often amber LEDs), or power-off states. Exact extract: "Describe maintenance functions, shutdowns, reboots of a PowerEdge Server... Explain the power distribution considerations." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Maintenance (18%).

NEW QUESTION # 52

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

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

Answer: A

Explanation:

High availability refers to a server's design that allows maintenance, repairs, and upgrades without interrupting operations, achieved through redundant components like power supplies, fans, and hot-swappable parts. This ensures continuous uptime critical for business environments. Reliability focuses on failure resistance, serviceability on ease of repair, and scalability on expansion. High availability is key for mission-critical PowerEdge servers. Exact extract: "Define the characteristics of a server... Explain the power distribution considerations... Describe maintenance functions, shutdowns, reboots of a PowerEdge Server." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Introduction to Servers (28%) and Maintenance (18%).

NEW QUESTION # 53

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

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

Answer: D

Explanation:

PCIe 5.0 offers a per-lane bandwidth of approximately 3.94 GB/s for an x1 lane. This is calculated based on PCIe 5.0's data rate of 32 GT/s, with each lane providing roughly 32 Gbps (4 GB/s) after accounting for encoding overhead (128b/130b). For an x1 lane, this results in 3.94 GB/s, making it the correct answer for PowerEdge server configurations leveraging PCIe 5.0 for high-speed connectivity. Other options reflect incorrect calculations or older PCIe versions. Exact extract: "Describe the Memory and Expansion cards...

Compare the on-board network on a PowerEdge Server." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Server Architecture and Roles (22%).

NEW QUESTION # 54

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

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

Answer: B

Explanation:

The Easy Restore feature in PowerEdge servers is used when replacing the system board, as it automatically restores system configuration settings, such as BIOS and iDRAC configurations, from a backup stored in non-volatile memory. This ensures quick recovery of server settings post-replacement. Replacing CPUs, hard drives, or tape drives does not trigger Easy Restore, as these components do not store critical system configurations. Exact extract: "Describe maintenance functions, shutdowns, reboots of a PowerEdge Server...

Explain the power distribution considerations." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Maintenance (18%).

NEW QUESTION # 55

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