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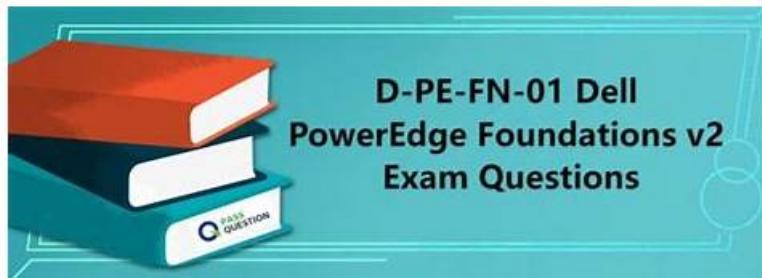
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EMC D-PE-FN-01 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 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	• 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.
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	• Security: This section of the exam measures the skills of Server Support Engineers and emphasizes the security features embedded in Dell PowerEdge servers. It includes hardware-based protections such as Silicon Root of Trust, TPM 2.0, and Secure Boot. The section also covers iDRAC's role in automated security, data protection using Self-Encrypting Drives (SEDs), and access control measures like Multifactor Authentication (MFA) and Role-Based Access Control (RBAC).

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EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q47-Q52):

NEW QUESTION # 47
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. CPUs, DIMMs, Storage Drives. Cooling Fans
- B. Chassis Risers, Expansion Cards. Hard Drives, memory modules
- C. System Board, backplane. RAID Controller Network Card. Power Supply
- D. M-CRPS, M-PIC, M-XIO, DC-SCM, HPM. Fan gantry. Front Node

Answer: D

NEW QUESTION # 48
Which server attribute refers to its ability to undergo maintenance and repairs without causing system downtime?

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

Answer: D

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 # 49
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. Utilize a hosted hypervisor that works through a host OS.
- B. Choose Microsoft Hyper-V for its standalone OS capabilities.
- C. Implement a bare metal hypervisor for direct hardware access.
- D. Deploy a Type 1 hypervisor to bypass the existing OS.

Answer: A

Explanation:
A hosted hypervisor (Type 2) runs on top of an existing operating system, allowing virtualization services to be accessed through the host OS without modifying the primary system or requiring direct hardware control.
This is ideal for testing multiple OS on workstations, as it leverages the host for resource management. Type 1 hypervisors (bare metal) install directly on hardware, bypassing the OS, which would alter the setup.

Microsoft Hyper-V can operate as Type 1 in standalone mode. This approach suits development environments needing flexibility without hardware dedication. Exact extract: "Explain Hypervisors and virtual machines...
Explain how different PowerEdge server models are better suited for specific roles." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Server Architecture and Roles (22%).

NEW QUESTION # 50

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

Explanation:
Comprehensive and Detailed Explanation From Exact Extracts: Storage Resource Manager (SRM) tools are primarily used to assist data center managers in capacity planning and managing storage resources, providing insights into usage, performance, and forecasting needs for efficient storage allocation in PowerEdge environments. SRM does not focus on network security, application performance via node addition, or backup automation, which are handled by other tools. This ensures optimized storage infrastructure management.
Exact extract: "Compare the PowerEdge Servers management applications, utilities, and licensing... Explain the function of various storage components." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Server Management (18%).

NEW QUESTION # 51

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

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact Extracts: Open Compute Project (OCP) cards are designed to enhance network connectivity in PowerEdge servers without occupying standard PCIe slots, which is critical for data centers aiming to reserve PCIe slots for other expansion components like storage or GPUs. OCP cards use a dedicated mezzanine slot, providing high-speed networking while freeing up PCIe slots for additional functionality. Higher network speeds are a benefit but not the primary advantage for slot conservation. Hot-swappability is not standard for OCP cards, and video/USB integration is unrelated to PCIe slot usage. This aligns with strategic server deployment for scalability. Exact extract: "Compare the on-board network on a PowerEdge Server... Describe the cables and connections." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Server Networking and Connectivity (6%).

NEW QUESTION # 52

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