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

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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 3	<ul style="list-style-type: none">• 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).

Topic 4	<ul style="list-style-type: none"> • 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 (Q83-Q88):

NEW QUESTION # 83

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

Answer: B

NEW QUESTION # 84

An administrator needs a dedicated RAID solution for booting the server operating system, using fast NVMe drives and iDRAC management capabilities. Which Boot Optimized Storage Solution is a RAID card designed for booting server OS, using one or two M.2 NVMe drives and managed by iDRAC?

- A. NVDIMM
- B. BOSS
- C. PERC
- D. Intel Optane DC Persistent Memory

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extracts: The Boot Optimized Storage Solution (BOSS) is a specialized RAID card in PowerEdge servers designed for booting the operating system using one or two M.2 NVMe drives, managed via iDRAC for simplified configuration and monitoring. BOSS ensures fast, reliable OS boot performance with RAID redundancy. NVDIMM and Intel Optane are for memory persistence, not OS booting, while PERC is for general storage RAID, not specifically for boot drives. BOSS is tailored for this use case. Exact extract: "Explain the function of various storage components commonly found in Dell PowerEdge servers, such as Hard Disk Drives (HDDs), Solid State Drives (SSDs), RAID controllers, BOSS and M.2, and storage enclosures." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Introduction to Servers (28%).

NEW QUESTION # 85

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. DHCP
- B. WINS
- C. ARP
- **D. DNS**

Answer: D

Explanation:

If a hypervisor on a PowerEdge server is accessible by IP but not by hostname, the Domain Name System (DNS) server role should be investigated. DNS resolves hostnames to IP addresses, and a failure here prevents hostname-based access. WINS is for legacy NetBIOS, ARP handles IP-to-MAC mapping, and DHCP assigns IPs, not relevant to hostname resolution. DNS is critical for network connectivity. 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 # 86

Which are the examples of artifacts that a TPM securely stores for server authentication?

- A. Firmware updates, BIOS settings, certificates
- B. System logs, event records, performance metrics
- C. Operating system files, application data, user profiles
- **D. Passwords, certificates, or encryption keys**

Answer: D

NEW QUESTION # 87

An IT team wants to quickly upgrade the network bandwidth of their PowerEdge servers while also adding extra management ports like VGA and serial connectors. Which strategy offers a combination of network upgradeability and enhanced management ports using onboard card options?

- **A. Install an OCP card for network speed and add a RIO card for management ports.**
- B. Replace LOM and use only RIO for network and management.
- C. Use only a high-end RIO card that integrates all functions.
- D. Upgrade LOM to a higher speed and add a separate PCIe NIC.

Answer: A

Explanation:

Installing an Open Compute Project (OCP) card upgrades network bandwidth without using PCIe slots, while a Rear Input Output (RIO) card adds management ports like VGA and serial. This combination provides flexibility and conserves expansion options. Replacing LOM limits options; high-end RIO may not cover network upgrades; upgrading LOM with PCIe NIC consumes slots. This strategy enhances connectivity in PowerEdge servers. 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 # 88

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