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EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q32-Q37):

NEW QUESTION # 32

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

Answer: B

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 # 33

Where is the certificate used by SVC signed?

- A. In the system's CMOS battery
- B. In the server BIOS during boot
- C. In the operating system registry
- **D. In the Dell factory**

Answer: D

Explanation:

The Secure Vault Component (SVC) certificate in PowerEdge servers is signed at the Dell factory during manufacturing to ensure hardware authenticity and security. This process embeds a trusted certificate for secure operations, not in the CMOS, OS registry, or BIOS at boot, which are not used for SVC signing.

Factory signing ensures a secure supply chain and component verification, critical for server security. Exact extract: "Describe the security features in PowerEdge servers... Explain the role of TPM and Secure Boot." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Security (18%).

NEW QUESTION # 34

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. iSCSI
- **C. SAS**
- D. EDSFF

Answer: C

Explanation:

Serial Attached SCSI (SAS) is ideal for enterprise servers needing substantial storage and backup workloads, as it supports high-performance, reliable data transfer and is backward compatible with SATA drives, allowing flexibility in storage configurations. SAS

handles large-scale I/O operations efficiently, unlike NVMe (optimized for speed, not SATA compatibility), iSCSI (network-based), or EDSFF (emerging form factor). SAS is prevalent in PowerEdge storage solutions for its robustness. Exact extract: "Explain the function of various storage components... Compare and contrast different storage topologies relevant to Dell PowerEdge servers: Direct Attached Storage (DAS), Network Attached Storage (NAS), and Storage Area Networks (SAN)." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Introduction to Servers (28%).

NEW QUESTION # 35

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

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

Answer: C

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 # 36

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 specialized modules for high-density computing in controlled data centers
- B. Their rugged design for withstanding extreme outdoor conditions
- C. Their GPU-optimized configurations for graphic-intensive applications
- D. Their minimal footprint that is combined with full PowerEdge features and management

Answer: D

Explanation:

Edge-optimized PowerEdge servers are designed with a minimal footprint while retaining full enterprise-level compute capabilities and management features like iDRAC, making them ideal for telecommunications environments with limited space. GPU optimization is for graphics, not telecom; high-density modules suit data centers; and rugged designs are for extreme conditions, not typical telecom setups. Minimal footprint with full features is key. Exact extract: "Describe and position a PowerEdge server in a solution - Edge (ROBO), Cloud, Core, Use Case." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Server Architecture and Roles (22%).

NEW QUESTION # 37

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