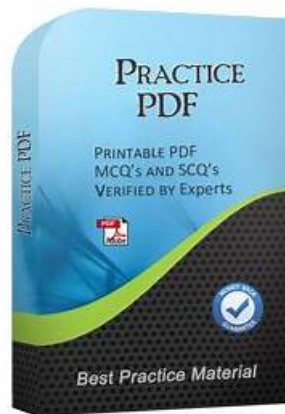


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## EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q26-Q31):

### NEW QUESTION # 26

A data center is designed with cold aisle containment. How are cold aisles used in this design to manage server temperatures?

- A. Isolate the cold aisle to prevent any airflow from the hot aisle.
- B. Recirculate hot air within the cold aisle to preheat intake air.
- C. Pump cold air into the cold aisle for server intake.
- D. Direct hot exhaust air from the servers into the cold aisle.

**Answer: C**

Explanation:

In cold aisle containment designs, cold aisles are used to supply chilled air directly to server intakes by pumping cold air from air handlers or CRAC units into the enclosed cold aisle, ensuring efficient cooling and preventing mixing with hot exhaust air. This isolation improves energy efficiency and maintains optimal server temperatures. Directing hot air into the cold aisle or recirculating it would increase temperatures, defeating the purpose. Containment focuses on separating airflows for better thermal management in PowerEdge server deployments. Exact extract: "Explain the cooling and thermal considerations in PowerEdge Servers (Direct Liquid Cooling, Immersion Cooling, Air Cooling)... Describe maintenance functions, shutdowns, reboots of a PowerEdge Server."

Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Maintenance (18%).

### NEW QUESTION # 27

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 # 28

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

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

**Answer: A**

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 # 29

Which is a typical use case for a GPU optimized PowerEdge server?

- **A. VDI**
- B. High performance
- C. Over provisioning
- D. Configuration Flexibility

**Answer: A**

Explanation:

GPU-optimized PowerEdge servers are tailored for workloads requiring intensive graphical processing, such as Virtual Desktop Infrastructure (VDI), where multiple users access virtual desktops that demand high graphical performance for applications like design or video editing. GPUs accelerate parallel processing, making them ideal for VDI to ensure smooth user experiences. Configuration flexibility and over- provisioning are general server traits, while high performance is broad; VDI specifically benefits from GPU acceleration in PowerEdge setups. This use case positions GPU-optimized servers in solutions needing enhanced graphics capabilities within data centers. Exact extract: "Describe and position PowerEdge server solutions for File Sharing, High-Performance Computing (HPC), and Generative AI workloads... Explain Hypervisors and virtual machines... 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 # 30

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. Employ a factory-generated password found on the Service Tag**
- B. Enter a blank password for the initial iDRAC UI login
- C. Utilize a user-defined password set during server setup
- D. Use the legacy default "root" and "calvin" credentials

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation From Exact Extracts: PowerEdge 16G servers use a factory- generated password for the initial iDRAC UI login, found on the server's Service Tag, enhancing security by avoiding predictable defaults like "root" and "calvin." This unique password ensures secure initial access, unlike blank or user-defined passwords set later. This aligns with modern security practices in PowerEdge servers. Exact extract: "Describe the security features in PowerEdge servers... Compare the PowerEdge Servers management applications, utilities, and licensing." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Security (18%).

#### NEW QUESTION # 31

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