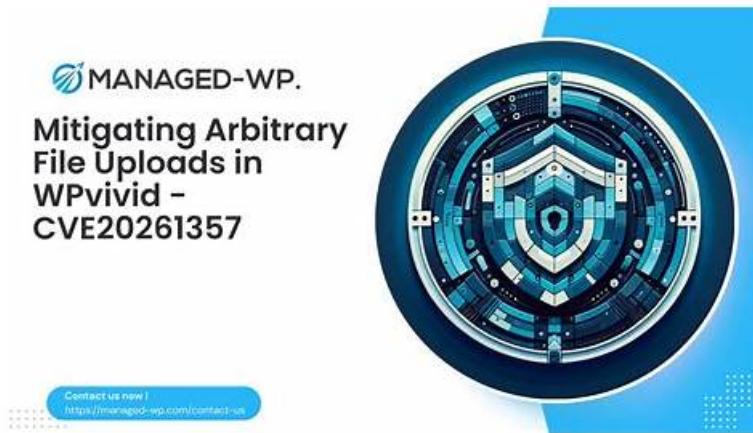


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## Cisco Certified Design Expert (CCDE) Written Exam Sample Questions (Q228-Q233):

### NEW QUESTION # 228

You are using iSCSI to transfer files between a 10 Gigabit Ethernet storage system and a 1 Gigabit Ethernet server. The performance is only approximately 700 Mbps and output drops are occurring on the server switch port. Which action will improve performance in a cost-effective manner?

- A. Change the protocol to CIFS.
- B. Enable the TCP Nagle algorithm on the receiver

- C. Increase the queue to at least 1 GB
- D. Use a WRED random drop policy

**Answer: C**

Explanation:

The performance degradation is caused by output queue drops on the 1 Gbps server port. Increasing the queue size allows more data to be buffered during transient congestion periods, preventing packet loss and retransmissions which significantly degrade iSCSI performance.

- \* iSCSI is sensitive to packet loss due to its reliance on TCP.
- \* Increasing the queue depth is a simple, cost-effective method to absorb bursts.
- \* Changing to CIFS (A) is irrelevant since CIFS would suffer similar TCP congestion.
- \* WRED (C) intentionally drops packets during congestion, which is undesirable here.
- \* Enabling TCP Nagle (D) would likely introduce latency and reduce throughput for large data transfers.

#### NEW QUESTION # 229

Company XYZ has 30 sites running a legacy private WAN architecture that connects to the Internet via multiple high- speed connections. The company is now redesigning their network and must comply with these design requirements :

- \* Use a private WAN strategy that allows the sites to connect to each other directly and caters for future expansion.
- \* Use the Internet as the underlay for the private WAN.
- \* Securely transfer the corporate data over the private WAN.

Which two technologies should be Incorporated into the design of this network? (Choose two.)

- A. IPsec
- B. S-VTI
- C. GET VPN
- D. DMVPN
- E. PPTP

**Answer: A,D**

#### NEW QUESTION # 230

An architect prepares a network design for a startup company. The design must meet business requirements while the business grows and divests due to rapidly changing markets. What is the highest priority in this design?

- A. The network should have a dedicated core.
- B. The network should be scalable.
- C. The network should be modular.
- D. The network should be hierarchical.

**Answer: B**

Explanation:

\* C (Scalable): For rapidly growing or contracting businesses, scalability is the highest priority to ensure that the network can adapt to changes in size, services, and demand without major redesigns.

Other options explained:

- \* A: Hierarchical design improves structure but does not guarantee scalability.
- \* B: Modularity aids scalability but is a design approach, not the ultimate priority.
- \* D: A dedicated core is part of hierarchical designs but not always essential for startups.

#### NEW QUESTION # 231

Refer to the exhibit.

□ Which impact of using three or more ABRs between the backbone area and area 1 is true?

- A. Prefixes from the non-backbone area are advertised by one ABR to the backbone
- B. In a large-scale network multiple ABRs can create microloops.

- C. In a large-scale network LSA replication by all ABRs can cause serious scalability issues
- D. Multiple ABRs reduce the CPU processing on each A6R due to splitting prefix advertisement

**Answer: C**

### NEW QUESTION # 232

Which design benefit of bridge assurance is true?

- A. It allows small, unmanaged switches to be plugged into ports of access switches without the risk of switch loops.
- B. It supposes a spanning-tree topology change upon connecting and disconnecting a station on a port
- C. It prevents switch loops caused by unidirectional point-to-point link condition on Rapid PVST+ and MST
- D. It prevents switched traffic from traversing suboptimal paths on the network.

**Answer: C**

Explanation:

Bridge Assurance is a mechanism used with Rapid PVST+ and MST that helps prevent loops caused by unidirectional failures on point-to-point links. When enabled, both ends of a point-to-point STP link must continuously exchange BPDUs. If one side stops receiving BPDUs, the port transitions into a blocking state, preventing loops caused by silent failures.

- \* This directly addresses unidirectional link failures that otherwise may not be detected quickly by traditional STP timers.
- \* It is typically deployed between switches in the core and distribution layers, where point-to-point links exist.

Other options explained:

- \* A: Incorrect - STP TCNs are not triggered simply by station connection events.
- \* B: Incorrect - Path optimization is handled by STP/RSTP convergence, not bridge assurance directly.
- \* C: Incorrect - Bridge assurance is not designed for unmanaged switches at the access layer.

### NEW QUESTION # 233

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