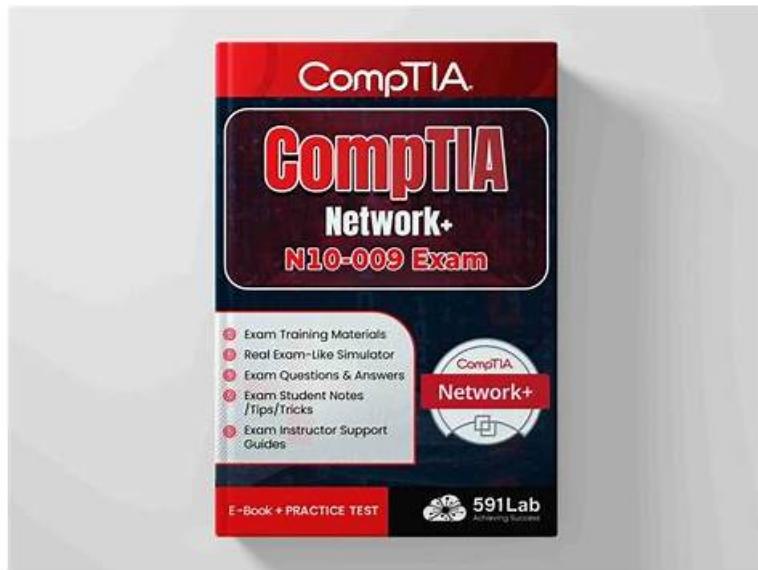


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## CompTIA Network+ Certification Exam Sample Questions (Q379-Q384):

### NEW QUESTION # 379

Which of the following environmental factors is the most critical for switches installed in sealed enclosures to prevent damage?

- A. Power budget
- B. Fire suppression
- **C. Temperature**
- D. Humidity

**Answer: C**

Explanation:

Switches in sealed enclosures are at risk of overheating because airflow is restricted. The temperature factor is critical since heat

buildup can damage components, shorten device lifespan, and cause outages. Proper cooling or ventilation must be ensured.

\* A. Fire suppression is important for data centers but not the primary concern in a sealed box.

\* B. Power budget applies to PoE allocations, not environmental safety.

\* D. Humidity matters, but overheating is far more immediate in sealed environments.

References (CompTIA Network+ N10-009):

\* Domain: Network Infrastructure - Environmental considerations, switch installation, temperature control.

## NEW QUESTION # 380

After a recent power outage, users are reporting performance issues accessing the application servers.

Wireless users are also reporting intermittent Internet issues.

### INSTRUCTIONS

Click on each tab at the top of the screen. Select a widget to view information, then use the drop-down menus to answer the associated questions. If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

### Answer:

Explanation:

See the answer and solution below.

Explanation:

Network Health:

WAN 2 appears to have a lower average latency and loss percentage, which would make it the preferred WAN station for VoIP traffic. VoIP traffic requires low latency and packet loss to ensure good voice quality and reliability. WAN 1 seems to have higher RAM and processor usage, which could also affect the performance of VoIP traffic.

Here's the summary of the key metrics for WAN 1 and WAN 2 from the image provided:

\* WAN 1:

\* Uplink Speed: 10G

\* Total Usage: 26.969GB Up / 1.748GB Down

\* Average Throughput: 353MBps Up / 23.42MBps Down

\* Loss: 2.51%

\* Average Latency: 24ms

\* Jitter: 9.5ms

\* WAN 2:

\* Uplink Speed: 1G

\* Total Usage: 930GB Up / 138GB Down

\* Average Throughput: 12.21MBps Up / 1.82MBps Down

\* Loss: 0.01%

\* Average Latency: 11ms

\* Jitter: 3.9ms

For VoIP traffic, low latency and jitter are particularly important to ensure voice quality. While WAN 1 has higher bandwidth and throughput, it also has higher latency and jitter compared to WAN 2. However, WAN 2 has much lower loss, lower latency, and lower jitter, which are more favorable for VoIP traffic that is sensitive to delays and variation in packet arrival times.

Given this information, WAN 2 would generally be preferred for VoIP traffic due to its lower latency, lower jitter, and significantly lower loss percentage, despite its lower bandwidth compared to WAN 1. The high bandwidth of WAN 1 may be more suitable for other types of traffic that are less sensitive to latency and jitter, such as bulk data transfers.

### Device Monitoring:

the device that is experiencing connectivity issues is the APP Server or Router 1, which has a status of Down.

This means that the server is not responding to network requests or sending any data. You may want to check the physical connection, power supply, and configuration of the APP Server to troubleshoot the problem.

## NEW QUESTION # 381

A network technician is terminating a cable to a fiber patch panel in the MDF. Which of the following connector types is most likely in use?

- A. RJ11
- B. BNC
- C. SC
- D. F-type

**Answer: C**

Explanation:

In a fiber patch panel, the SC (Subscriber Connector or Standard Connector) is commonly used because of its push-pull design and reliability in enterprise environments.

Breakdown of Options:

- A . F-type - Used for coaxial cables (e.g., cable TV), not fiber.
- B . RJ11 - Used for telephone lines, not fiber.
- C . BNC - Used for coaxial connections, not fiber.
- D . SC -  Correct answer. A standard fiber optic connector used in patch panels.

Reference:

CompTIA Network+ (N10-009) Official Study Guide - Domain 1.1: Compare and contrast physical network connectors.

**NEW QUESTION # 382**

Which of the following is created to illustrate the effectiveness of wireless networking coverage in a building?

- A. Service-level agreement
- B. **Heat map**
- C. Layer 3 network diagram
- D. Logical diagram

**Answer: B**

Explanation:

\* Definition of Heat Maps:

\* A heat map is a graphical representation of data where individual values are represented by colors. In the context of wireless networking, a heat map shows the wireless signal strength in different areas of a building.

\* Purpose of a Heat Map:

\* Heat maps are used to illustrate the effectiveness of wireless networking coverage, identify dead zones, and optimize the placement of access points (APs) to ensure adequate coverage and performance.

\* Comparison with Other Options:

\* Logical Diagram: Represents the logical connections and relationships within the network.

\* Layer 3 Network Diagram: Focuses on the routing and IP addressing within the network.

\* Service-Level Agreement (SLA): A contract that specifies the expected service levels between a service provider and a customer.

\* Creation and Use:

\* Heat maps are created using specialized software or tools that measure wireless signal strength throughout the building. The data collected is then used to generate a visual map, guiding network administrators in optimizing wireless coverage.

References:

\* CompTIA Network+ certification materials and wireless network planning guides.

**NEW QUESTION # 383****SIMULATION**

A network technician replaced an access layer switch and needs to reconfigure it to allow the connected devices to connect to the correct networks.

**INSTRUCTIONS**

Click on the appropriate port(s) on Switch 1 and Switch 3 to verify or reconfigure the correct settings:

- \* Ensure each device accesses only its correctly associated network.
- \* Disable all unused switchports.
- . Require fault-tolerant connections between the switches.
- . Only make necessary changes to complete the above requirements.

**Answer:**

Explanation:

See the step by step complete solution below

#### Explanation:

To provide a complete solution for configuring the access layer switches, let's proceed with the following steps:

Identify the correct VLANs for each device and port.

Enable necessary ports and disable unused ports.

Configure fault-tolerant connections between the switches.

#### Configuration Details

##### Switch 1

Port 1 Configuration (Uplink to Core Switch)

Status: Enabled

LACP: Enabled

Speed: 1000

Duplex: Full

VLAN Configuration: Tagged for VLAN60, VLAN90, VLAN120, VLAN150, VLAN220 Port 2 Configuration (Uplink to Core Switch) Status: Enabled LACP: Enabled Speed: 1000 Duplex: Full VLAN Configuration: Tagged for VLAN60, VLAN90, VLAN120, VLAN150, VLAN220 Port 3 Configuration (Server Connection) Status: Enabled LACP: Disabled Speed: 1000 Duplex: Full VLAN Configuration: Untagged for VLAN90 (Servers) Port 4 Configuration (Server Connection) Status: Enabled LACP: Disabled Speed: 1000 Duplex: Full VLAN Configuration: Untagged for VLAN90 (Servers) Port 5 Configuration (Wired Users and WLAN) Status: Enabled LACP: Enabled Speed: 1000 Duplex: Full VLAN Configuration: Tagged for VLAN60, VLAN120, VLAN150 Port 6 Configuration (Wired Users and WLAN) Status: Enabled LACP: Enabled Speed: 1000 Duplex: Full VLAN Configuration: Tagged for VLAN60, VLAN90, VLAN120, VLAN220 Port 7 Configuration (Voice and Wired Users) Status: Enabled LACP: Enabled Speed: 1000 Duplex: Full VLAN Configuration: Tagged for VLAN60, VLAN90, VLAN120, VLAN220 Port 8 Configuration (Voice, Printers, and Wired Users) Status: Enabled LACP: Enabled Speed: 1000 Duplex: Full VLAN Configuration: Tagged for VLAN60, VLAN90, VLAN120, VLAN220 Switch 3 Port 1 Configuration (Unused) Status: Disabled LACP: Disabled Port 2 Configuration (Unused) Status: Disabled LACP: Disabled Port 3 Configuration (Connection to Device) Status: Enabled LACP: Disabled Speed: 1000 Duplex: Full VLAN Configuration: Untagged for VLAN1 (Default) Port 4 Configuration (Connection to Device) Status: Enabled LACP: Enabled Speed: 1000 Duplex: Full VLAN Configuration: Untagged for VLAN1 (Default) Port 5 Configuration (Connection to Device) Status: Enabled LACP: Disabled Speed: 1000 Duplex: Full VLAN Configuration: Untagged for VLAN1 (Default) Port 6 Configuration (Connection to Device) Status: Enabled LACP: Disabled Speed: 1000 Duplex: Full VLAN Configuration: Untagged for VLAN1 (Default) Port 7 Configuration (Connection to Device) Status: Enabled LACP: Disabled Speed: 1000 Duplex: Full VLAN Configuration: Untagged for VLAN1 (Default) Port 8 Configuration (Connection to Device) Status: Enabled LACP: Disabled Speed: 1000 Duplex: Full VLAN Configuration: Untagged for VLAN1 (Default) Summary of Configurations

Ports 1 and 2 on Switch 1 are configured as trunk ports with VLAN tagging enabled for all necessary VLANs.

Ports 3 and 4 on Switch 1 are configured for server connections with VLAN 90 untagged.

Ports 5, 6, 7, and 8 on Switch 1 are configured for devices needing access to multiple VLANs.

Unused ports on Switch 3 are disabled.

Ports 3, 4, 5, 6, and 7 on Switch 3 are enabled for default VLAN1.

Ensure All Switches and Ports are Configured as per the Requirements:

Core Switch Ports should be configured as needed for uplinks to Switch 1.

Ensure LACP is enabled for redundancy on trunk ports between switches.

By following these configurations, each device will access only its correctly associated network, unused switch ports will be disabled, and fault-tolerant connections will be established between the switches.

## NEW QUESTION # 384

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