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CompTIA N10-009 Exam Syllabus Topics:

| Topic | Details |
|---------|--|
| Topic 1 | <ul style="list-style-type: none">OSI reference model concepts, Comparison of networking appliances, applications, and functions |
| Topic 2 | <ul style="list-style-type: none">Networking Concepts: For network administrators and IT support professionals, this domain covers |
| Topic 3 | <ul style="list-style-type: none">Network Operations: For IT operations staff and network operations center (NOC) technicians, this part of the exam covers the purpose of organizational processes and procedures and use of network monitoring technologies. |

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|---------|--|
| Topic 4 | <ul style="list-style-type: none"> • Network Implementation: For network technicians and junior network engineers, this section covers Characteristics of routing technologies, Configuration of switching technologies and features, and |
| Topic 5 | <ul style="list-style-type: none"> • Network Security: This section of the exam for cybersecurity specialists and network security administrators covers the importance of basic network security concepts, Various types of attacks and their impact on the network, application of network security features, defense techniques, and solutions. • Network Troubleshooting: For help desk technicians and network support specialists, this section covers troubleshooting methodology, troubleshooting common cabling and physical interface issues, troubleshooting common issues with network services, and use of appropriate tools or protocols to solve networking issues. |
| Topic 6 | <ul style="list-style-type: none"> • Cloud concepts and connectivity options, and Common networking ports. |

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CompTIA Network+ Certification Exam Sample Questions (Q268-Q273):

NEW QUESTION # 268

A network administrator is troubleshooting issues with a DHCP server at a university. More students have recently arrived on campus, and the users are unable to obtain an IP address. Which of the following should the administrator do to address the issue?

- A. Increase the scope size.
- B. Enable IP helper.
- C. Add address exclusions.
- D. Change the subnet mask.

Answer: A

Explanation:

The issue is that more students have arrived on campus, meaning the available IP addresses are exhausted. To fix this, the administrator should increase the DHCP scope size to allow more devices to obtain IP addresses.

Breakdown of Options:

A: Enable IP helper - IP helper is used to forward DHCP requests across different subnets. However, the problem here is that the DHCP scope is full, not that requests are not reaching the server.

B: Change the subnet mask - The subnet mask determines the number of available hosts, but changing it without increasing the IP pool does not help.

C: Increase the scope size - Correct answer. Expanding the DHCP scope provides more IP addresses for assignment.

D: Add address exclusions - Exclusions reserve IP addresses, which would further reduce available addresses instead of solving the issue.

Reference:

CompTIA Network+ (N10-009) Official Study Guide - Domain 2.4: Compare and contrast IP addressing schemes.

RFC 2131: Dynamic Host Configuration Protocol (DHCP)

NEW QUESTION # 269

A network engineer is completing a wireless installation in a new building. A requirement is that all clients be able to automatically connect to the fastest supported network. Which of the following best supports this requirement?

- A. Disabling the 5GHz SSID

- B. Configuring MAC filtering
- C. Adding a captive portal
- D. Enabling band steering

Answer: D

Explanation:

Band steering is a feature in wireless networks that encourages dual-band capable devices to connect to the 5GHz band instead of the 2.4GHz band.

Why Band Steering?

The 5GHz band supports higher speeds and less interference compared to 2.4GHz.

If a device supports both bands, the access point (AP) can "steer" it to connect to 5GHz instead of 2.4GHz.

This helps ensure users always connect to the fastest available network.

Incorrect Options:

B . Disabling the 5GHz SSID: Would force devices onto 2.4GHz, which is slower and more congested.

C . Adding a Captive Portal: Used for guest authentication, not for speed optimization.

D . Configuring MAC Filtering: Used for security, not for optimizing network speed.

Reference:

CompTIA Network+ N10-009 Official Study Guide - Chapter on Wireless Technologies and Optimization

NEW QUESTION # 270

A network engineer receives a vendor alert regarding a vulnerability in a router CPU. Which of the following should the engineer do to resolve the issue?

- A. Update the firmware.
- B. Isolate the system.
- C. Replace the system board.
- D. Patch the OS.

Answer: A

Explanation:

Understanding the Vulnerability:

Vulnerabilities in the router CPU can be exploited to cause performance degradation, unauthorized access, or other security issues.

Firmware Update:

Firmware Role: The firmware is low-level software that controls the hardware of a device. Updating the firmware can address vulnerabilities by providing patches and enhancements from the manufacturer.

Procedure: Download the latest firmware from the vendor's website, follow the manufacturer's instructions to apply the update, and verify that the update resolves the vulnerability.

Comparison with Other Options:

Replace the System Board: This is a costly and often unnecessary step if the issue can be resolved with a firmware update.

Patch the OS: Patching the OS is relevant for devices with a full operating system but not directly applicable to addressing a CPU vulnerability on a router.

Isolate the System: Temporarily isolating the system can mitigate immediate risk but does not resolve the underlying vulnerability.

Best Practice:

Regularly check for and apply firmware updates to ensure that network devices are protected against known vulnerabilities.

References:

CompTIA Network+ study materials on network security and device management.

NEW QUESTION # 271

Which of the following network cables involves bounding light off of protective cladding?

- A. Multimode
- B. Coaxial
- C. Twinaxial
- D. Single-mode

Answer: A

Explanation:

Multimode fiber optic cables involve the transmission of light signals that bounce off the core's cladding as they travel down the fiber. This characteristic differentiates it from single-mode fiber, where the light travels directly down the fiber without reflecting off the cladding.

Here are some detailed points about multimode fiber cables:

Construction: Multimode fibers have a larger core diameter, typically 50 or 62.5 microns, compared to single-mode fibers, which have a core diameter of about 9 microns.

Light Propagation: The larger core of multimode fiber allows multiple light modes to propagate. These modes travel at different angles, leading to reflections off the core-cladding boundary.

Distance and Bandwidth: Due to modal dispersion, where different light modes arrive at the receiver at different times, multimode fibers are suited for shorter distance applications compared to single-mode fibers. Typical distances are up to 550 meters for 10 Gbps Ethernet using OM4 multimode fiber.

Applications: Multimode fibers are commonly used in LANs (Local Area Networks), data centers, and for shorter distance data transmission due to their cost-effectiveness and ease of installation.

Network Reference:

CompTIA Network+ N10-007 Official Certification Guide, which covers fiber optic technologies, including the differences between multimode and single-mode fibers.

Cisco Networking Academy: Provides training materials and reference guides on the properties of different fiber optic cables.

Fiber Optic Association (FOA): A professional society dedicated to fiber optics, offering extensive information and certification on fiber optic technologies.

Multimode fibers are specifically designed for short-range communication with higher data rates and are typically used in environments like data centers, where high bandwidth over shorter distances is crucial. The reflections off the cladding, inherent to multimode fiber, facilitate this high-capacity communication.

NEW QUESTION # 272

A network engineer is setting up a new VoIP network for a customer. The current network is segmented only for computers and servers. No additional switch ports can be used in the new network. Which of the following does the engineer need to do to configure the network correctly? (Select TWO).

- A. Change network translation definitions
- **B. Set up voice VLANs**
- C. Place devices in the perimeter network
- **D. Enable 802.1Q**
- E. Reconfigure the DNS
- F. Implement a routing protocol

Answer: B,D

Explanation:

To support VoIP on the same physical ports used by computers:

B:Enable 802.1Q: This standard supports VLAN tagging, allowing voice and data traffic to share the same port using separate VLANs.

D: Set up voice VLANs: Separating voice traffic into its own VLAN improves QoS and manageability.

Other options are not directly related to configuring VoIP over existing ports:

A: Network translation definitions (NAT) are unrelated to switch-level VLAN configuration.

C: Routing protocols are not necessary at the switch level for VLAN setup.

E: DNS is not required for the switch or VLAN setup.

F: Perimeter network (DMZ) is used for public-facing servers, not VoIP VLANs.

Reference:

CompTIA Network+ N10-009 Official Objectives: 2.3 - Given a scenario, configure and verify VLANs.

CompTIA Network+ N10-009 Official Objectives: 3.6 - Explain the characteristics of network topologies and types.

NEW QUESTION # 273

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questions in the time allowed.

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