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CompTIA N10-009 Certification Exam Syllabus and Exam Questions

CompTIA N10-009 Exam Guide

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CompTIA N10-009 Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
Topic 2	<ul style="list-style-type: none">Cloud concepts and connectivity options, and Common networking ports.
Topic 3	<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 4	<ul style="list-style-type: none">OSI reference model concepts, Comparison of networking appliances, applications, and functions
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.

CompTIA Network+ Certification Exam Sample Questions (Q81-Q86):

NEW QUESTION # 81

A VoIP phone is plugged in to a port but cannot receive calls. Which of the following needs to be done on the port to address the issue?

- A. Tag the traffic to voice VLAN.
- B. Trunk all VLANs on the port.
- C. Configure the native VLAN.
- D. Disable VLANs.

Answer: A

Explanation:

* Understanding VoIP and VLANs:

* VoIP (Voice over IP) phones often use VLANs (Virtual Local Area Networks) to separate voice traffic from data traffic for improved performance and security.

* Tagging Traffic to Voice VLAN:

* Voice VLAN Configuration: The port on the switch needs to be configured to tag traffic for the specific voice VLAN. This ensures that voice packets are prioritized and handled correctly.

* VLAN Tagging: VLAN tagging allows the switch to identify and separate voice traffic from other types of traffic on the network, reducing latency and jitter for VoIP communications.

* Comparison with Other Options:

* Trunk all VLANs on the port: Trunking all VLANs is typically used for links between switches, not for individual device ports.

* Configure the native VLAN: The native VLAN is for untagged traffic and does not address the need for separating and prioritizing voice traffic.

* Disable VLANs: Disabling VLANs would mix voice and data traffic, leading to potential performance issues and lack of traffic separation.

* Implementation:

* Configure the switch port connected to the VoIP phone to tag the traffic for the designated voice VLAN, ensuring proper network segmentation and quality of service.

References:

* CompTIA Network+ study materials on VLAN configuration and VoIP implementation.

NEW QUESTION # 82

Which of the following technologies is the best choice to listen for requests and distribute user traffic across web servers?

- A. Firewall
- B. Switch
- **C. Load balancer**
- D. Router

Answer: C

Explanation:

A load balancer is designed to distribute user requests across multiple servers to ensure high availability and performance.

Breakdown of Options:

A: Router - Directs traffic between networks, not between web servers.

B: Switch - Works at Layer 2, does not distribute web traffic.

C: Firewall - Secures network traffic, but does not distribute load.

D: Load balancer - # Correct answer. Optimizes web traffic distribution across multiple servers.

Reference:

CompTIA Network+ (N10-009) Official Study Guide - Domain 1.5: Explain load balancing and redundancy concepts.

NEW QUESTION # 83

Which of the following IP transmission types encrypts all of the transmitted data?

- A. GRE
- B. UDP
- C. TCP
- D. AH
- **E. ESP**

Answer: E

Explanation:

* Definition of ESP (Encapsulating Security Payload):

* ESP is a part of the IPsec protocol suite used to provide confidentiality, integrity, and authenticity of data. ESP encrypts the payload and optional ESP trailer, providing data confidentiality.

* ESP Functionality:

* ESP can encrypt the entire IP packet, ensuring that the data within the packet is secure from interception or eavesdropping. It also provides options for data integrity and authentication.

* ESP operates in two modes: transport mode (encrypts only the payload of the IP packet) and tunnel mode (encrypts the entire IP packet).

* Comparison with Other Protocols:

* AH (Authentication Header): Provides data integrity and authentication but does not encrypt the payload.

* GRE (Generic Routing Encapsulation): A tunneling protocol that does not provide encryption.

* UDP (User Datagram Protocol) and TCP (Transmission Control Protocol): These are transport layer protocols that do not inherently provide encryption. Encryption must be provided by additional protocols like TLS/SSL.

* Use Cases:

* ESP is widely used in VPNs (Virtual Private Networks) to ensure secure communication over untrusted networks like the internet.

NEW QUESTION # 84

A network engineer discovers network traffic that is sending confidential information to an unauthorized and unknown destination. Which of the following best describes the cause of this network traffic?

- **A. Malware**
- B. Ransomware
- C. Darkware
- D. Adware

Answer: A

Explanation:

Malware refers to any malicious software that can exfiltrate confidential data, including spyware, trojans, and rootkits. This fits the scenario where unauthorized data transfer is occurring.

Breakdown of Options:

A: Adware - Displays ads, does not typically steal data.
B: Ransomware - Encrypts files but does not exfiltrate data.

C: Darkware - Not a real cybersecurity term.

D: Malware - Correct answer. Malicious software is responsible for unauthorized data exfiltration.

Reference:

CompTIA Network+ (N10-009) Official Study Guide - Domain 3.5: Given a scenario, implement cybersecurity measures.
NIST 800-83: Malware Incident Prevention & Handling

NEW QUESTION # 85

A network technician was recently onboarded to a company. A manager has tasked the technician with documenting the network and has provided the technician with partial information from previous documentation.

Instructions:

Click on each switch to perform a network discovery by entering commands into the terminal. Fill in the missing information using drop-down menus provided.

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Answer:

Explanation:

See the Explanation for detailed information on this simulation.

Explanation:

(Note: Ips will be change on each simulation task, so we have given example answer for the understanding) To perform a network discovery by entering commands into the terminal, you can use the following steps:

- * Click on each switch to open its terminal window.
- * Enter the command show ip interface brief to display the IP addresses and statuses of the switch interfaces.
- * Enter the command show vlan brief to display the VLAN configurations and assignments of the switch interfaces.
- * Enter the command show cdp neighbors to display the information about the neighboring devices that are connected to the switch.
- * Fill in the missing information in the diagram using the drop-down menus provided.

Here is an example of how to fill in the missing information for Core Switch 1:

- * The IP address of Core Switch 1 is 192.168.1.1.
- * The VLAN configuration of Core Switch 1 is VLAN 1: 192.168.1.0/24, VLAN 2: 192.168.2.0/24, VLAN 3: 192.168.3.0/24.
- * The neighboring devices of Core Switch 1 are Access Switch 1 and Access Switch 2.
- * The interfaces that connect Core Switch 1 to Access Switch 1 are GigabitEthernet0/1 and GigabitEthernet0/2.
- * The interfaces that connect Core Switch 1 to Access Switch 2 are GigabitEthernet0/3 and GigabitEthernet0/4.

You can use the same steps to fill in the missing information for Access Switch 1 and Access Switch 2.

NEW QUESTION # 86

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