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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 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 2	<ul style="list-style-type: none">Selection and configuration of wireless devices.

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"> 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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Simulated N10-009 Test | New N10-009 Exam Objectives

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CompTIA Network+ Certification Exam Sample Questions (Q59-Q64):

NEW QUESTION # 59

SIMULATION

Users are unable to access files on their department share located on file server 2. The network administrator has been tasked with validating routing between networks hosting workstation A and file server 2.

INSTRUCTIONS

Click on each router to review output, identify any issues, and configure the appropriate solution.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.



Answer:

Explanation:



NEW QUESTION # 60

A network engineer configures a new switch and connects it to an existing switch for expansion and redundancy. Users immediately lose connectivity to the network. The network engineer notes the following spanning tree information from both switches:

Switch 1

Port State Cost

1 Forward 2

2 Forward 2

Switch 2

Port State Cost

1 Forward 2

2 Forward 2

Which of the following best describes the issue?

- A. The ports should use link aggregation.
- B. The switch should be configured for RSTP.
- C. The port cost should not be equal.
- D. A root bridge needs to be identified.**

Answer: D

Explanation:

Explanation: The issue is that no root bridge has been identified. In STP, a root bridge is necessary to manage redundant paths and avoid loops in the network. Without a root bridge, all switches will assume they can forward traffic, causing a network loop and connectivity problems.

NEW QUESTION # 61

A network manager wants to implement a SIEM system to correlate system events. Which of the following protocols should the network manager verify?

- A. NTP
- B. DNS
- C. DHCP
- D. LDAP

Answer: A

Explanation:

Role of NTP (Network Time Protocol):

NTP is used to synchronize the clocks of network devices to a reference time source. Accurate time synchronization is critical for correlating events and logs from different systems.

Importance for SIEM Systems:

Event Correlation: SIEM (Security Information and Event Management) systems collect and analyze log data from various sources. Accurate timestamps are essential for correlating events across multiple systems.

Time Consistency: Without synchronized time, it is challenging to piece together the sequence of events during an incident, making forensic analysis difficult.

Comparison with Other Protocols:

DNS (Domain Name System): Translates domain names to IP addresses but is not related to time synchronization.

LDAP (Lightweight Directory Access Protocol): Used for directory services, such as user authentication and authorization.

DHCP (Dynamic Host Configuration Protocol): Assigns IP addresses to devices on a network but does not handle time synchronization.

Implementation:

Ensure that all network devices, servers, and endpoints are synchronized using NTP. This can be achieved by configuring devices to use an NTP server, which could be a local server or an external time source.

Reference:

CompTIA Network+ study materials on network protocols and SIEM systems.

NEW QUESTION # 62

If a user is redirected to the wrong hostname, which DNS record should be modified to ensure that the alias points to the correct domain name?

- A. Modify the CNAME record
- B. Delete the TXT record
- C. Change the NTP settings
- D. Update the PTR record

Answer: A

Explanation:

A CNAME (Canonical Name) record maps an alias to the correct fully qualified domain name (FQDN). If a user is redirected to the wrong hostname, correcting or updating the CNAME ensures the alias points to the proper domain.

* B. PTR record maps IP to hostname (reverse DNS), not forward website resolution.

* C. NTP relates to time sync, irrelevant to DNS resolution.

* D. TXT record stores metadata like SPF or DKIM info, not used for hostname aliasing.

References (CompTIA Network+ N10-009):

* Domain: Network Standards, Protocols, and Implementations - DNS record types (A, AAAA, CNAME, PTR, TXT).

NEW QUESTION # 63

Users cannot connect to an internal website with an IP address 10.249.3.76. A network administrator runs a command and receives the following output:

1 3ms 2ms 3ms 192.168.25.234

2 2ms 3ms 1ms 192.168.3.100

3 4ms 5ms 2ms 10.249.3.1

4 *
5 '
6 *
7 *

Which of the following command-line tools is the network administrator using?

- A. nmap
- **B. tracert**
- C. netstat
- D. tcpdump

Answer: B

Explanation:

Understanding Tracert:

tracert (Traceroute in Windows) is a command-line tool used to trace the path that packets take from the source to the destination. It records the route (the specific gateways at each hop) and measures transit delays of packets across an IP network.

Output Analysis:

The output shows a series of IP addresses with corresponding round-trip times (RTTs) in milliseconds.

The asterisks (*) indicate that no response was received from those hops, which is typical for routers or firewalls that block ICMP packets used by tracert.

Comparison with Other Tools:

netstat: Displays network connections, routing tables, interface statistics, and more, but does not trace packet routes.

tcpdump: Captures network packets for analysis, used for detailed network traffic inspection.

nmap: A network scanning tool used to discover hosts and services on a network, not for tracing packet routes.

Usage:

tracert helps identify the path to a destination and locate points of failure or congestion in the network.

Reference:

CompTIA Network+ study materials on network troubleshooting and diagnostic tools.

NEW QUESTION # 64

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