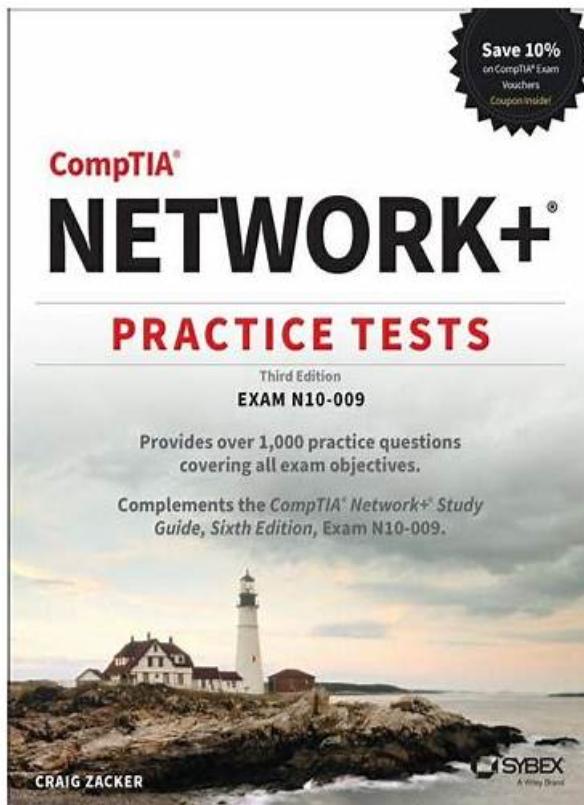


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CompTIA Network+ Certification Exam Sample Questions (Q189-Q194):

NEW QUESTION # 189

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

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

Answer: C

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 # 190

An attacker gained access to the hosts file on an endpoint and modified it. Now, a user is redirected from the company's home page to a fraudulent website. Which of the following most likely happened?

- A. **DNS spoofing**
- B. VLAN hopping
- C. Phishing
- D. ARP poisoning

Answer: A

Explanation:

When the hosts file is altered, local name resolution is compromised, and domain queries are redirected to malicious IP addresses. This is a form of DNS spoofing/poisoning, where false mappings trick users into visiting fraudulent websites.

B . Phishing typically uses emails or messages to trick users, not local file modification.

C . VLAN hopping is a Layer 2 attack to gain unauthorized network access, unrelated to DNS.

D . ARP poisoning manipulates ARP tables on a LAN to reroute traffic, not name resolution.

Reference (CompTIA Network+ N10-009):

NEW QUESTION # 191

A storage network requires reduced overhead and increased efficiency for the amount of data being sent. Which of the following should an engineer likely configure to meet these requirements?

- A. **Jumbo frames**

- B. 802.1q tagging
- C. Link speed
- D. QoS

Answer: A

Explanation:

Jumbo frames are Ethernet frames with a payload greater than the standard maximum transmission unit (MTU) of 1500 bytes. Configuring jumbo frames can reduce overhead and increase efficiency in storage networks by allowing more data to be sent in each frame, thus reducing the number of frames needed to transmit the same amount of data.

- * Reduced Overhead: By sending larger frames, the relative overhead for headers and acknowledgments is reduced.
- * Increased Efficiency: Larger frames mean fewer packets to process, leading to better utilization of network bandwidth and improved performance in high-throughput environments like storage networks.
- * Configuration: Requires support from all devices in the network path, including switches and network interface cards (NICs).

Network References:

- * CompTIA Network+ N10-007 Official Certification Guide: Explains jumbo frames and their benefits in reducing network overhead.
- * Cisco Networking Academy: Provides training on network optimization techniques, including the use of jumbo frames.
- * Network+ Certification All-in-One Exam Guide: Covers advanced Ethernet features, including jumbo frames and their configuration for improved network performance.

NEW QUESTION # 192

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

Answer: C

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:

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

References:

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

NEW QUESTION # 193

SIMULATION

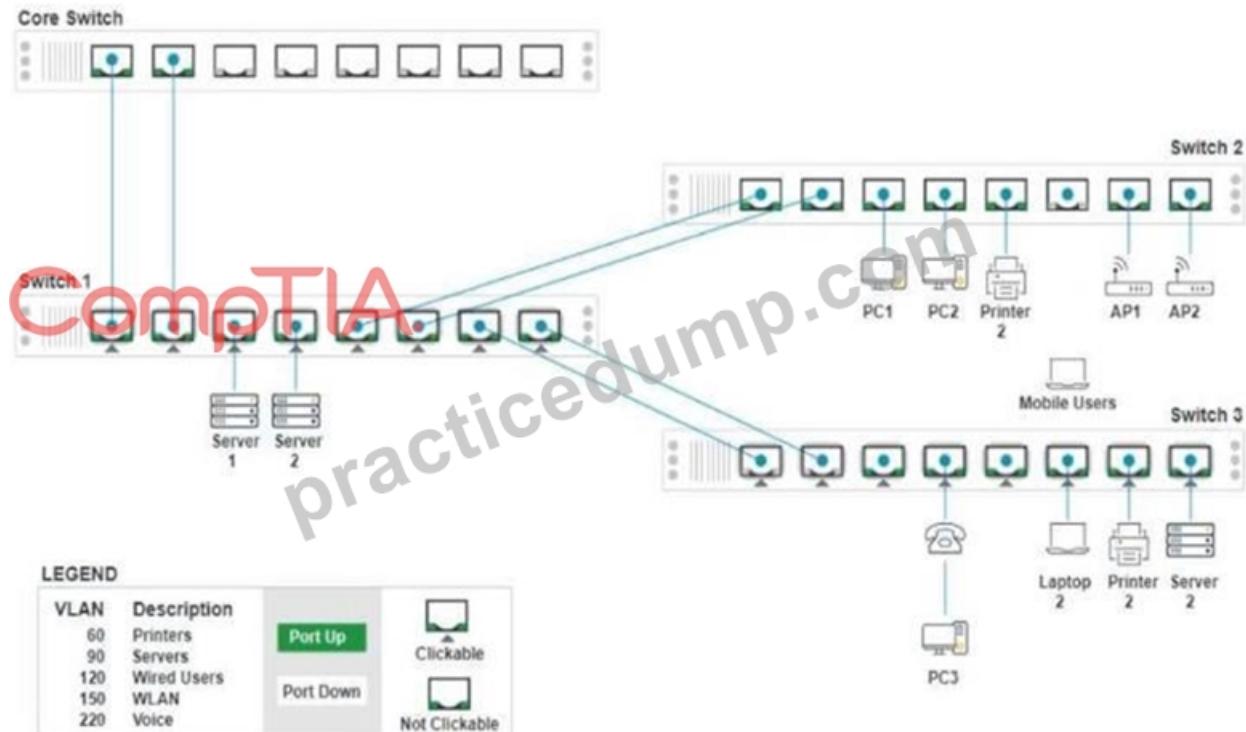
A network technician replaced a switch and needs to reconfigure it to allow the connected devices to connect to the correct networks.

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 switch ports
- Require fault-tolerant connections between the switches
- Only make necessary changes to complete the above requirements

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



Switch 3 - Port 8 Configuration

Status

Port Enabled

LACP Disabled

Wired

Speed Auto 100 1000

Duplex Auto Half Full

VLAN Configuration

Add VLAN

VLAN1

Port Tagging

Untagged
Tagged
UnTagged

VLAN 1
VLAN 60
VLAN 90
VLAN 120
VLAN 150
VLAN 220

Reset to Default

Save

Close

Switch 3 - Port 7 Configuration

Status

Port	<input checked="" type="button"/> Enabled
LACP	<input type="button"/> Disabled

Wired

Speed	<input type="radio"/> Auto	<input type="radio"/> 100	<input checked="" type="radio"/> 1000
Duplex	<input type="radio"/> Auto	<input type="radio"/> Half	<input checked="" type="radio"/> Full

VLAN Configuration

VLAN1

Port Tagging

UnTagged

Tagged

UnTagged

Add VLAN

- VLAN 1
- VLAN 60
- VLAN 90
- VLAN 120
- VLAN 150
- VLAN 220

Buttons

Reset to Default

Save

Close

Switch 3 - Port 6 Configuration

X

Status

Port Enabled

LACP Disabled

Wired

Speed Auto 100 1000

Duplex Auto Half Full

VLAN Configuration

Add VLAN

VLAN150

Port Tagging

UnTagged
Tagged
UnTagged

VLAN 1

VLAN 60

VLAN 90

VLAN 120

VLAN 150

VLAN 220

Reset to Default

CompTIA Save

Close

ComptIA

Switch 3 - Port 4 Configuration

Status

Port Enabled

LACP Disabled

Wired

Speed Auto 100 1000

Duplex Auto Half Full

VLAN Configuration

VLAN1

Port Tagging

UnTagged

Tagged

UnTagged

Add VLAN

VLAN 1

VLAN 60

VLAN 90

VLAN 120

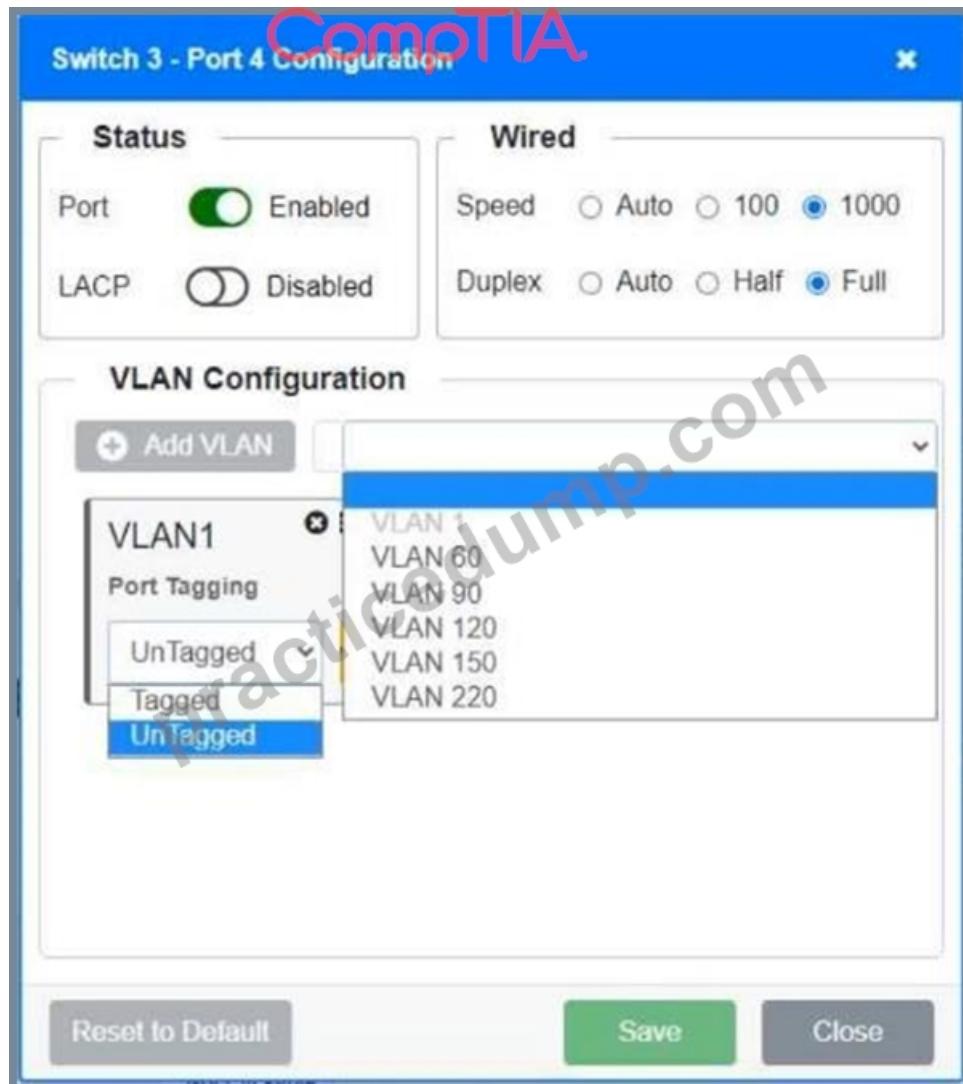
VLAN 150

VLAN 220

Reset to Default

Save

Close



Switch 3 - Port 1 Configuration

Status	Wired
Port <input checked="" type="button"/> Enabled	Speed <input type="radio"/> Auto <input type="radio"/> 100 <input checked="" type="radio"/> 1000
LACP <input type="button"/> Disabled	Duplex <input type="radio"/> Auto <input type="radio"/> Half <input checked="" type="radio"/> Full

VLAN Configuration

Add VLAN

VLAN1	<input type="radio"/>
Port Tagging	<input type="radio"/>
UnTagged	<input type="radio"/>
Tagged	<input type="radio"/>
UnTagged	<input checked="" type="radio"/>

VLAN 1
VLAN 60
VLAN 90
VLAN 120
VLAN 150
VLAN 220

Save Close

CompTIA

Reset to Default

Switch 1 - Port 7 Configuration

Status	Wired
Port <input checked="" type="button"/> Enabled	Speed <input type="radio"/> Auto <input type="radio"/> 100 <input checked="" type="radio"/> 1000
LACP <input checked="" type="button"/> Enabled	Duplex <input type="radio"/> Auto <input type="radio"/> Half <input checked="" type="radio"/> Full

VLAN Configuration

Add VLAN

VLAN60 <input type="radio"/>	VLAN90 <input type="radio"/>	VLAN120 <input type="radio"/>
Port Tagging	Port Tagging	Port Tagging
Tagged <input type="radio"/>	Tagged <input type="radio"/>	Tagged <input type="radio"/>
VLAN150 <input type="radio"/>	VLAN220 <input type="radio"/>	
Port Tagging	Port Tagging	
Tagged <input type="radio"/>	Tagged <input type="radio"/>	

Save Close

CompTIA

Reset to Default

Switch 1 - Port 8 Configuration

Status

Port Enabled

LACP Enabled

Wired

Speed Auto 100 1000

Duplex Auto Half Full

VLAN Configuration

+ Add VLAN

VLAN60 Port Tagging Tagged	VLAN90 Port Tagging Tagged	VLAN120 Port Tagging Tagged
VLAN150 Port Tagging Tagged	VLAN220 Port Tagging Tagged	

Reset to Default Save Close

Switch 1 - Port 6 Configuration

Status

Port Enabled

LACP Enabled

Wired

Speed Auto 100 1000

Duplex Auto Half Full

VLAN Configuration

+ Add VLAN

VLAN60 Port Tagging Tagged	VLAN120 Port Tagging Tagged	VLAN150 Port Tagging Tagged

Reset to Default Save Close

Switch 1 - Port 2 Configuration X

Status	Wired
Port <input checked="" type="checkbox"/> Enabled	Speed <input type="radio"/> Auto <input type="radio"/> 100 <input checked="" type="radio"/> 1000
LACP <input checked="" type="checkbox"/> Enabled	Duplex <input type="radio"/> Auto <input type="radio"/> Half <input checked="" type="radio"/> Full

VLAN Configuration

Add VLAN

VLAN60 X	VLAN90 X	VLAN120 X
Port Tagging	Port Tagging	Port Tagging
Tagged ▼	Tagged ▼	Tagged ▼

VLAN150 X	VLAN220 X
Port Tagging	Port Tagging
Tagged ▼	Tagged ▼

Buttons

Reset to Default Save Close

Switch 1 - Port 1 Configuration X

Status	Wired
Port <input checked="" type="checkbox"/> Enabled	Speed <input type="radio"/> Auto <input type="radio"/> 100 <input checked="" type="radio"/> 1000
LACP <input checked="" type="checkbox"/> Enabled	Duplex <input type="radio"/> Auto <input type="radio"/> Half <input checked="" type="radio"/> Full

VLAN Configuration

Add VLAN

VLAN60 X	VLAN90 X	VLAN120 X
Port Tagging	Port Tagging	Port Tagging
Tagged ▼	Tagged ▼	Tagged ▼

VLAN150 X	VLAN220 X
Port Tagging	Port Tagging
Tagged ▼	Tagged ▼

Buttons

Reset to Default Save Close

Status

Port EnabledLACP Enabled

Wired

Speed Auto 100 1000Duplex Auto Half Full

VLAN Configuration

 Add VLAN

VLAN60

Port Tagging

Tagged

VLAN120

VLAN150

Port Tagging

Tagged

Port Tagging

Tagged

 Reset to Default Save Close

Switch 1 - Port 4 Configuration

X

Status

Port Enabled

LACP Disabled

Wired

Speed Auto 100 1000

Duplex Auto Half Full

VLAN Configuration

Add VLAN

VLAN90

Port Tagging

UnTagged

Tagged

UnTagged

VLAN 1
VLAN 60
VLAN 90
VLAN 120
VLAN 150
VLAN 220

Reset to Default

Save

Close

Switch 1 - Port 3 Configuration

X

Status

Port Enabled

LACP Disabled

Wired

Speed Auto 100 1000

Duplex Auto Half Full

VLAN Configuration

+ Add VLAN

VLAN90

Port Tagging

UnTagged

Tagged

UnTagged

- VLAN 1
- VLAN 60
- VLAN 90
- VLAN 120
- VLAN 150
- VLAN 220

Reset to Default

Save

Close

Switch 3 - Port 2 Configuration

Status

Port Enabled

LACP Disabled

Wired

Speed Auto 100 1000

Duplex Auto Half Full

VLAN Configuration

+ Add VLAN

VLAN90 Port Tagging

UnTagged

Tagged

UnTagged

VLAN 1
VLAN 60
VLAN 90
VLAN 120
VLAN 150
VLAN 220

Reset to Default

Save

Close



Answer:

Explanation:

To reconfigure the switch, the technician needs to click on the appropriate port(s) on Switch 1 and Switch 3. The technician should ensure that each device only has access to its correctly associated network. The technician should also disable all unused switch ports. Finally, the technician should require fault-tolerant connections between the switches. If at any time the technician wants to bring back the initial state of the simulation, they can click on the Reset All button.

Tagged = Switch to Switch connections.

Untagged = Devices(WLAN, Servers, Printers, VoIP)

Port Enabled = if there is a device connected

Port Disabled = if there is nothing connection on the port.

Switch 1-Ports 1 & 2 >Port Enabled >LACP Enabled >VLAN60/90/120/150/220 Tagged Switch 1-Ports 3 & 4 >Port Enabled >LACP Disabled >VLAN90 Untagged Switch 1-Ports 5 & 6 >Port Enabled >LACP Enabled >VLAN60/120/150 Tagged Switch 1-Ports 7 & 8 >Port Enabled >LACP Enabled >VLAN60/90/120/220 Tagged Switch 3-Ports 1 & 2 >Port Enabled >LACP Enabled >VLAN60/90/120/220 Tagged Switch 3-Ports 3 & 5 >Port Disabled Switch 3-Port 4 >Port Enabled >LACP Disabled >VLAN120/220 Untagged Switch 3-Port 6 >Port Enabled >LACP Disabled >VLAN120 Untagged Switch 3-Port 7 >Port Enabled >LACP Disabled >VLAN60 Untagged Switch 3-Port 8 >Port Enabled >LACP Disabled >VLAN90 Untagged

NEW QUESTION # 194

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