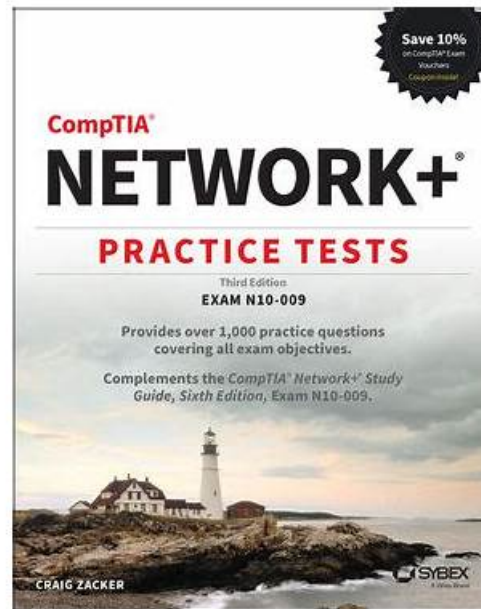


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## CompTIA Network+ Certification Exam Sample Questions (Q43-Q48):

### NEW QUESTION # 43

A network administrator wants to configure a backup route in case the primary route fails. A dynamic routing protocol is not installed on the router. Which of the following routing features should the administrator choose to accomplish this task?

- A. Hop count
- B. Link state flooding
- C. Administrative distance
- D. Neighbor adjacency

**Answer: C**

Explanation:

Introduction to Administrative Distance

Administrative distance (AD) is a value used by routers to rank routes from different routing protocols. AD represents the trustworthiness of the source of the route. Lower AD values are more preferred. If a router has multiple routes to a destination from different sources, it will choose the route with the lowest AD.

Static Routes and Backup Routes

When a dynamic routing protocol is not used, static routes can be employed. Static routes are manually configured routes. To ensure a backup route, multiple static routes to the same destination can be configured with different AD values.

Configuring Static Routes with Administrative Distance

The primary route is configured with a lower AD value, making it the preferred route. The backup route is configured with a higher AD value. In the event of the primary route failure, the router will then use the backup route.

Example Configuration:

plaintext

Copy code

```
ip route 192.168.1.0 255.255.255.0 10.0.0.1 1
```

```
ip route 192.168.1.0 255.255.255.0 10.0.0.2 10
```

In the above example, 192.168.1.0/24 is the destination network.

10.0.0.1 is the next-hop IP address for the primary route with an AD of 1.

10.0.0.2 is the next-hop IP address for the backup route with an AD of 10.

Verification:

After configuration, use the show ip route command to verify that the primary route is in use and the backup route is listed as a candidate for use if the primary route fails.

Reference:

CompTIA Network+ guide explains the concept of administrative distance and its use in static routing configuration (see page Ref 9+Basic Configuration Commands).

### NEW QUESTION # 44

A laptop user gets an error when trying to access the company's intranet site. A technician runs ipconfig /all with the following results:

Autoconfiguration IPv4 Address: 169.254.0.5 (Preferred)

Subnet Mask: 255.255.0.0

Default Gateway:

DHCP Server:

Which of the following is most likely causing the issue?

- A. IIS server malfunction
- B. IDS misconfiguration
- C. Address pool exhaustion
- D. Short DHCP lease duration

**Answer: C**

Explanation:

The correct answer is C. Address pool exhaustion. The laptop has assigned itself an address in the 169.254.

x.x range, which is an APIPA address. That happens when the device is configured to use DHCP but cannot successfully obtain an address lease from a DHCP server. The missing default gateway and DHCP server entries support that conclusion.

Among the choices, the most likely reason is that the DHCP scope has run out of available addresses.

When the pool is exhausted, new clients cannot receive a valid IP configuration and fall back to an automatic private address. As a

result, the laptop will not be able to reach internal company resources like the intranet because it is not properly configured for the network.

The other answers do not fit the evidence. A short DHCP lease duration may cause more frequent renewals, but it does not directly explain the self-assigned APIPA address. An IIS server malfunction would affect the web service itself, not the client's local IP configuration. An IDS misconfiguration also would not normally result in a 169.254 address on the host.

The output clearly indicates a DHCP assignment failure, and from the options provided, address pool exhaustion is the best match.

#### NEW QUESTION # 45

A network administrator is unable to ping a remote server from a newly connected workstation that has been added to the network. Ping to 127.0.0.1 on the workstation is failing. Which of the following should the administrator perform to diagnose the problem?

- A. Verify the router is not dropping packets.
- **B. Verify the NIC interface status.**
- C. Verify the network is not congested.
- D. Verify that DNS is resolving correctly.

**Answer: B**

Explanation:

The failure of a ping to 127.0.0.1 (the loopback address) indicates a problem with the workstation's TCP/IP stack or network interface card (NIC). Since 127.0.0.1 is a local address, the issue is not related to the network, router, or DNS. The first step in diagnosing this issue is to verify the NIC interface status to ensure the network adapter is functioning and properly configured.

Why not Verify the network is not congested? Network congestion affects external connectivity, not the loopback address.

Why not Verify the router is not dropping packets? Router issues are irrelevant since the loopback ping fails locally.

Why not Verify that DNS is resolving correctly? DNS resolution is not involved in pinging 127.0.0.1, which uses a direct IP address.

#### NEW QUESTION # 46

A network administrator has been tasked with configuring a network for a new corporate office. The office consists of two buildings, separated by 50 feet with no physical connectivity. The configuration must meet the following requirements:

. Devices in both buildings should be able to access the Internet.

. Security insists that all Internet traffic be inspected before entering the network.

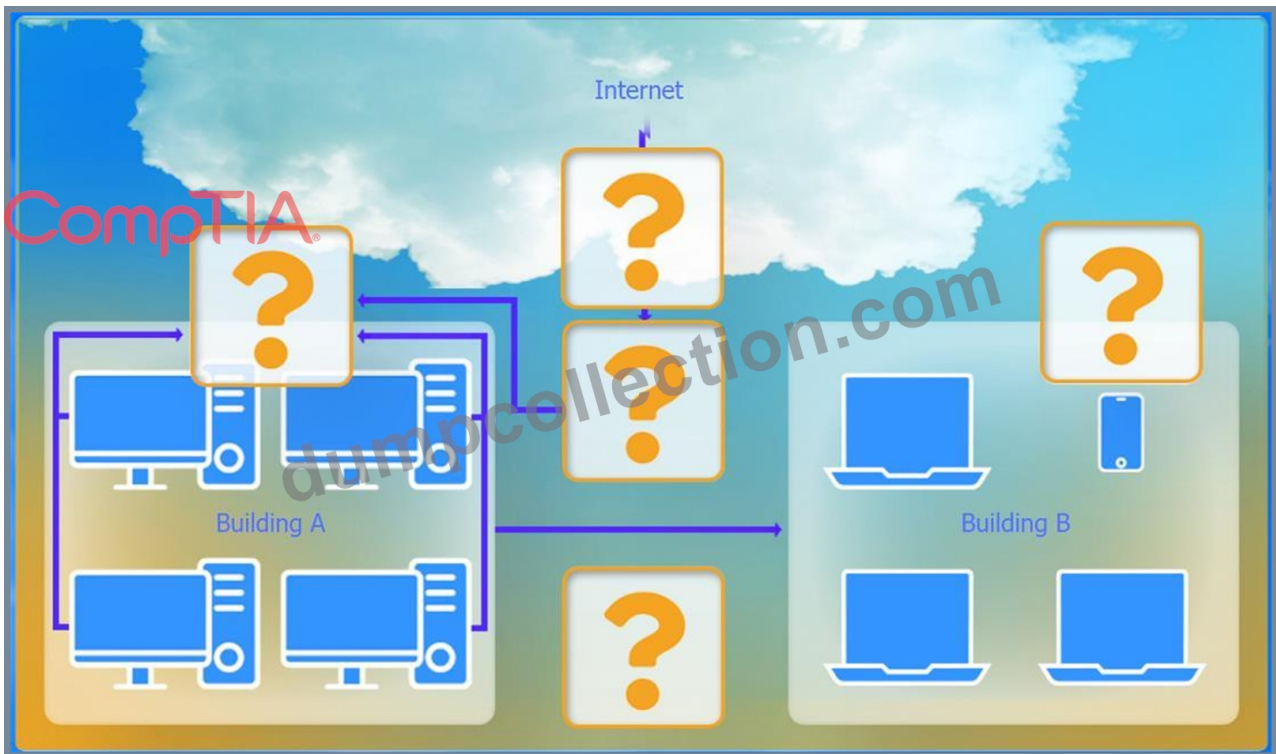
. Desktops should not see traffic destined for other devices.

#### INSTRUCTIONS

Select the appropriate network device for each location. If applicable, click on the magnifying glass next to any device which may require configuration updates and make any necessary changes.

Not all devices will be used, but all locations should be filled.

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



Hub
Switch
WAP
Firewall
Router
Wireless range extender

## Wireless range extender settings



### Basic Configuration

Access Point Name

Gateway

SSID

SSID Broadcast  Yes  No

### Wireless

Mode

Channel

### Wired

Speed  Auto  100  1000

Duplex  Auto  Half  Full

### Security Configuration

Security Settings  None  WEP  WPA  WPA2  WPA2 - Enterprise

Key or Passphrase

Reset to Default

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Save

Close

## Firewall



Rule Name	Source	Destination	Service	Action
DNS Rule	192.168.0.1/24	ANY	DNS	PERMIT <input type="text" value="v"/>
HTTPS Outbound	192.169.0.1/24	ANY	HTTPS	PERMIT <input type="text" value="v"/>
Management	ANY	192.168.0.1/24	SSH	PERMIT <input type="text" value="v"/>
HTTPS Inbound	ANY	192.168.0.1/24	HTTPS	DENY <input type="text" value="v"/>
HTTP Inbound	ANY	192.168.0.1/24	HTTP	DENY <input type="text" value="v"/>

Reset to Default

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Save

Close

**WAP Settings**

**Basic Configuration**

Access Point Name: WAP1

Gateway: 192.168.0.1

SSID: CORP

SSID Broadcast:  Yes  No

**Wireless**

Mode: G

Channel: 1

**Wired**

Speed:  Auto  100  1000

Duplex:  Auto  Half  Full

**Security Configuration**

Security Settings:  None  WEP  WPA  WPA2  WPA2 - Enterprise

Key or Passphrase: S3cretkey!

Reset to Default Save Close

**Answer:**

Explanation:

See the step by step complete solution below.

Explanation:

- \* Devices in both buildings should be able to access the Internet.
- \* Security insists that all Internet traffic be inspected before entering the network.
- \* Desktops should not see traffic destined for other devices.

Here is the corrected layout with explanation:

- \* Building A:
  - \* Switch: Correctly placed to connect all desktops.
  - \* Firewall: Correctly placed to inspect all incoming and outgoing traffic.
- \* Building B:
  - \* Switch: Not needed. Instead, place a Wireless Access Point (WAP) to provide wireless connectivity for laptops and mobile devices.
- \* Between Buildings:
  - \* Wireless Range Extender: Correctly placed to provide connectivity between the buildings wirelessly.
- \* Connection to the Internet:
  - \* Router: Correctly placed to connect to the Internet and route traffic between the buildings and the Internet.
  - \* Firewall: The firewall should be placed between the router and the internal network to inspect all traffic before it enters the network.

Corrected Setup:

- \* Top-left (Building A): Switch
- \* Bottom-left (Building A): Firewall (inspect traffic before it enters the network)
- \* Top-middle (Internet connection): Router
- \* Bottom-middle (between buildings): Wireless Range Extender
- \* Top-right (Building B): Wireless Access Point (WAP)

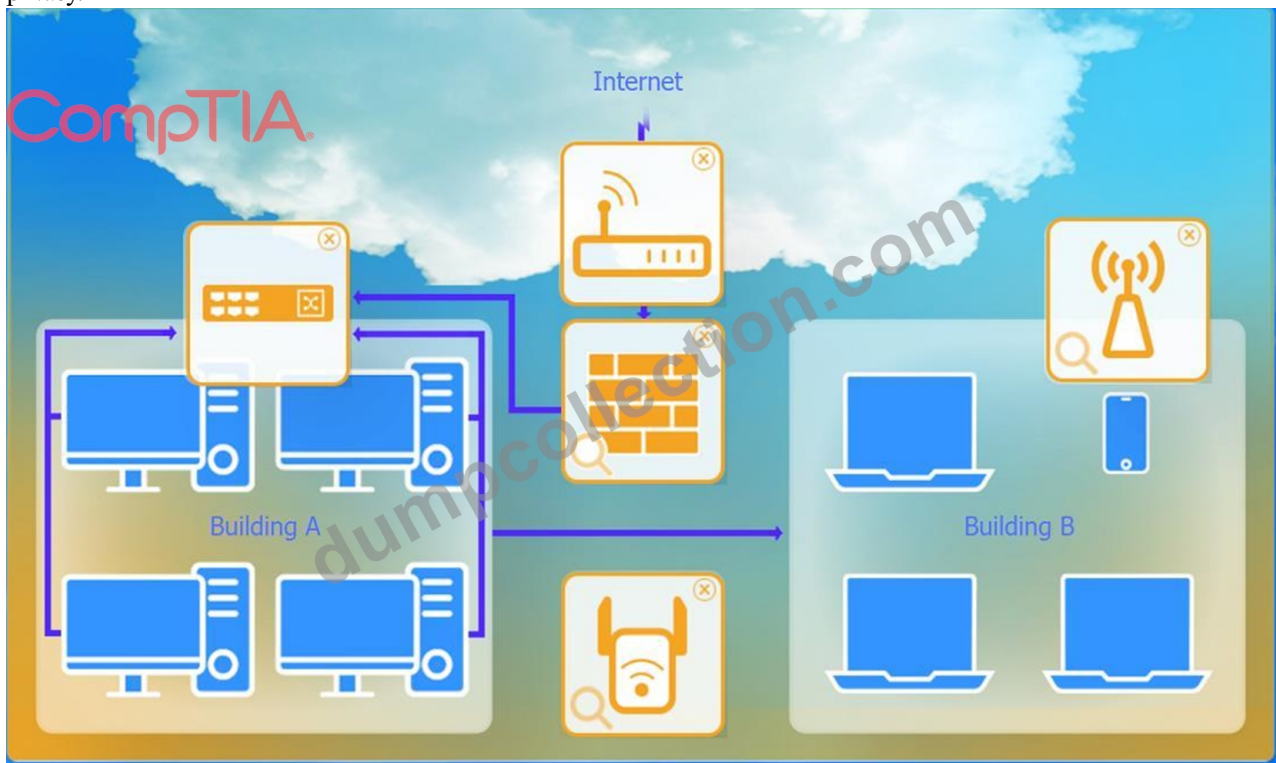
In this corrected setup, the WAP in Building B will connect wirelessly to the Wireless Range Extender, which is connected to the Router. The Router is connected to the Firewall to ensure all traffic is inspected before it enters the network.

Configuration for Wireless Range Extender:

- \* SSID: CORP
- \* Security Settings: WPA2 or WPA2 - Enterprise
- \* Key or Passphrase: [Enter a strong passphrase]

- \* Mode: [Set based on your network plan]
- \* Channel: [Set based on your network plan]
- \* Speed: Auto
- \* Duplex: Auto

With these settings, both buildings will have secure access to the Internet, and all traffic will be inspected by the firewall before entering the network. Desktops and other devices will not see traffic intended for others, maintaining the required security and privacy.



To configure the wireless range extender for security, follow these steps:

- \* SSID (Service Set Identifier):
  - \* Ensure the SSID is set to "CORP" as shown in the exhibit.
- \* Security Settings:
  - \* WPA2 or WPA2 - Enterprise: Choose one of these options for stronger security. WPA2-Enterprise provides more robust security with centralized authentication, which is ideal for a corporate environment.
- \* Key or Passphrase:
  - \* If you select WPA2, enter a strong passphrase in the "Key or Passphrase" field.
  - \* If you select WPA2 - Enterprise, you will need to configure additional settings for authentication servers, such as RADIUS, which is not shown in the exhibit.
- \* Wireless Mode and Channel:
  - \* Set the appropriate mode and channel based on your network design and the environment to avoid interference. These settings are not specified in the exhibit, so set them according to your network plan.
- \* Wired Speed and Duplex:
  - \* Set the speed to "Auto" unless you have specific requirements for 100 or 1000 Mbps.
  - \* Set the duplex to "Auto" unless you need to specify half or full duplex based on your network equipment.
- \* Save Configuration:
  - \* After making the necessary changes, click the "Save" button to apply the settings.

Here is how the configuration should look after adjustments:

- \* SSID: CORP
- \* Security Settings: WPA2 or WPA2 - Enterprise
- \* Key or Passphrase: [Enter a strong passphrase]
- \* Mode: [Set based on your network plan]
- \* Channel: [Set based on your network plan]
- \* Speed: Auto
- \* Duplex: Auto

Once these settings are configured, your wireless range extender will provide secure connectivity for devices in both buildings. Firewall setting to ensure complete compliance with the requirements and best security practices, consider the following adjustments and additions:

- \* DNS Rule: This rule allows DNS traffic from the internal network to any destination, which is fine.

- \* HTTPS Outbound: This rule allows HTTPS traffic from the internal network (assuming 192.169.0.1/24 is a typo and should be 192.168.0.1/24) to any destination, which is also good for secure web browsing.
- \* Management: This rule allows SSH access to the firewall for management purposes, which is necessary for administrative tasks.
- \* HTTPS Inbound: This rule denies inbound HTTPS traffic to the internal network, which is good unless you have a web server that needs to be accessible from the internet.
- \* HTTP Inbound: This rule denies inbound HTTP traffic to the internal network, which is correct for security purposes.

Suggested Additional Settings:

- \* Permit General Outbound Traffic: Allow general outbound traffic for web access, email, etc.
- \* Block All Other Traffic: Ensure that all other traffic is blocked to prevent unauthorized access.

Firewall Configuration Adjustments:

- \* Correct the Network Typo:
- \* Ensure that the subnet 192.169.0.1/24 is corrected to 192.168.0.1/24.

\* Permit General Outbound Traffic:

\* Rule Name: General Outbound

\* Source: 192.168.0.1/24

\* Destination: ANY

\* Service: ANY

\* Action: PERMIT

\* Deny All Other Traffic:

\* Rule Name: Block All

\* Source: ANY

\* Destination: ANY

\* Service: ANY

\* Action: DENY

Here is how your updated firewall settings should look:

Rule Name

Source

Destination

Service

Action

DNS Rule

192.168.0.1/24

ANY

DNS

PERMIT

HTTPS Outbound

192.168.0.1/24

ANY

HTTPS

PERMIT

Management

ANY

192.168.0.1/24

SSH

PERMIT

HTTPS Inbound

ANY

192.168.0.1/24

HTTPS

DENY

HTTP Inbound

ANY

192.168.0.1/24

HTTP

DENY

General Outbound

192.168.0.1/24

ANY

ANY

PERMIT

Block All

ANY  
ANY  
ANY  
DENY

These settings ensure that:

- \* Internal devices can access DNS and HTTPS services externally.
  - \* Management access via SSH is permitted.
  - \* Inbound HTTP and HTTPS traffic is denied unless otherwise specified.
  - \* General outbound traffic is allowed.
  - \* All other traffic is blocked by default, ensuring a secure environment.
- Make sure to save the settings after making these adjustments.

### NEW QUESTION # 47

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

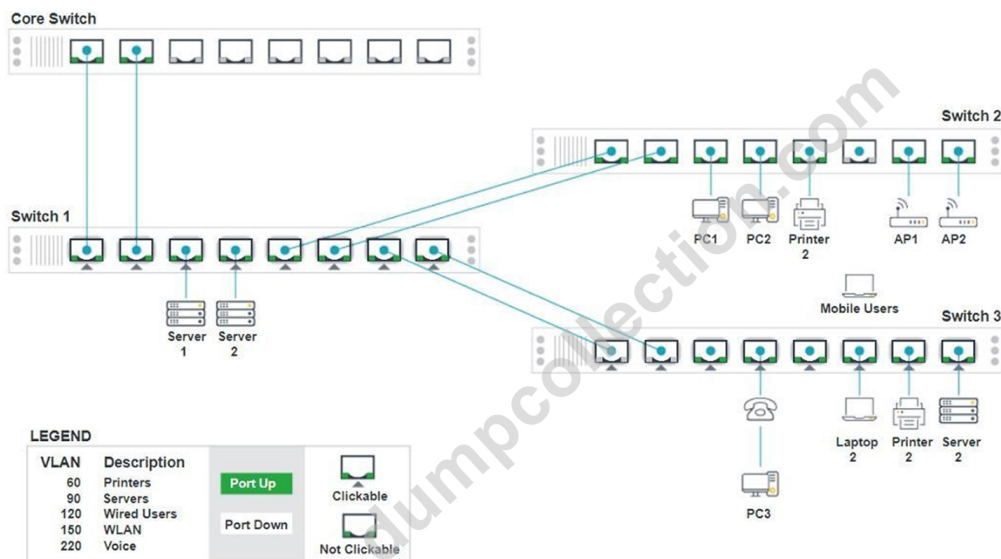
Click on the appropriate port(s) on Switch 1 and Switch 3 to verify or reconfigure the correct settings:

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.





Status

Port  Enabled

LACP  Disabled

Wired

Speed  Auto  100  1000

Duplex  Auto  Half  Full

VLAN Configuration

+ Add VLAN

VLAN90

Port Tagging

UnTagged

Reset to Default

Save

Close

## Switch 1 - Port 4 Configuration



### Status

Port  Enabled

LACP  Disabled

### Wired

Speed  Auto  100  1000

Duplex  Auto  Half  Full

### VLAN Configuration

+ Add VLAN

VLAN90

Port Tagging

UnTagged

Reset to Default

Save

Close

## Switch 1 - Port 5 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 6 Configuration



### Status

Port  Enabled

LACP  Enabled

### Wired

Speed  Auto  100  1000

Duplex  Auto  Half  Full

### VLAN Configuration

VLAN60

Port Tagging

Tagged

VLAN120

Port Tagging

Tagged

VLAN150

Port Tagging

Tagged

1901-CA11C-K900P

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# Switch 3 - Port 1 Configuration

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## Status

Port  Disabled

LACP  Disabled

## Wired

Speed  Auto  100  1000

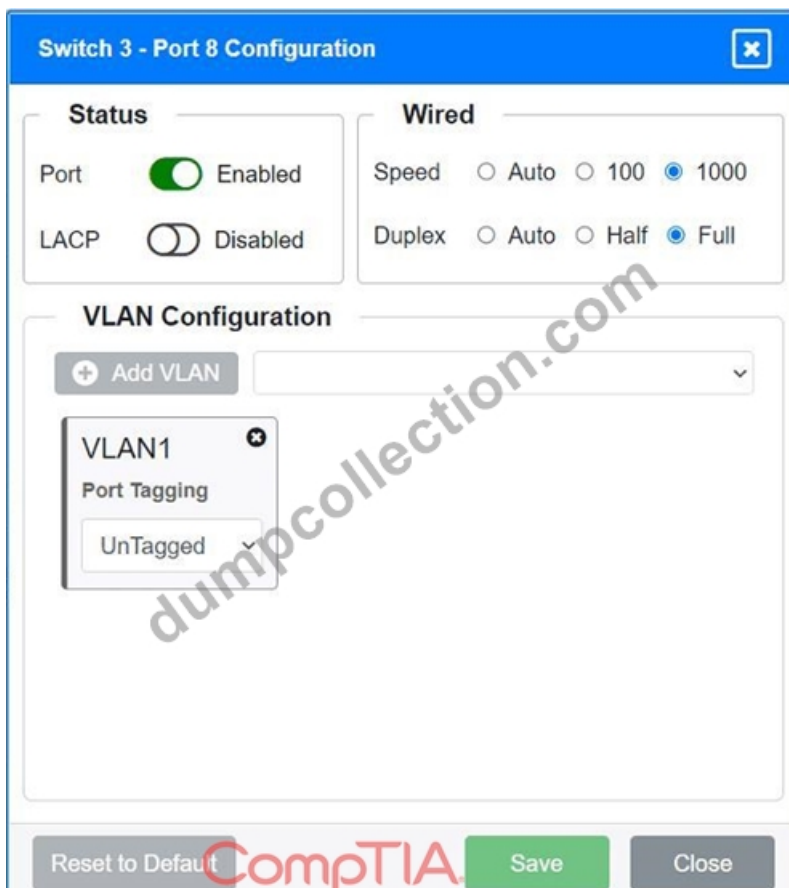
Duplex  Auto  Half  Full

## VLAN Configuration

VLAN1

Port Tagging

UnTagged



**Answer:**

Explanation:

See the solution below in Explanation.

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.

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: 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, VLAN120, VLAN150

Port 8 Configuration (Voice, Printers, and Wired Users) Status: Enabled LACP: Enabled Speed: 1000 Duplex: Full

VLAN Configuration: Tagged for VLAN60, VLAN90, VLAN120, VLAN220

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: Disabled

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)

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.

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 # 48

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