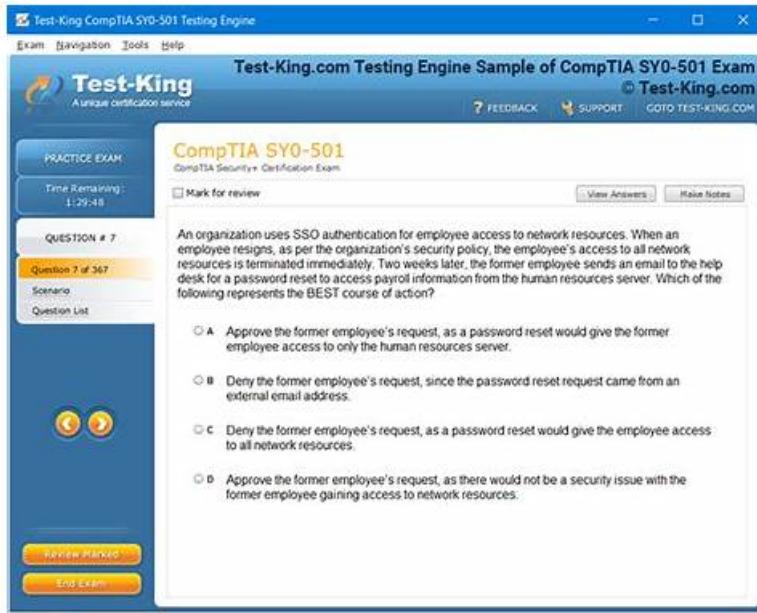


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CompTIA N10-009 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<ul style="list-style-type: none">Networking Concepts: For network administrators and IT support professionals, this domain covers

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Review Key Concepts With N10-009 Exam-Preparation Questions

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CompTIA Network+ Certification Exam Sample Questions (Q300-Q305):

NEW QUESTION # 300

Which of the following is the next step to take after successfully testing a root cause theory?

- A. Present the theory for approval.
- B. Duplicate the problem in a lab.
- C. Implement the solution to the problem.
- D. Determine resolution steps.

Answer: D

Explanation:

- * Troubleshooting Methodology:
 - * Confirming the Root Cause: After testing and confirming the theory, the next logical step is to address the issue by implementing a solution.
- * Implementation of the Solution:
 - * Resolve the Issue: Implement the identified solution to rectify the problem. This step involves making necessary changes to the network configuration, replacing faulty hardware, or applying software patches.
 - * Documentation: Document the solution and the steps taken to resolve the issue to provide a reference for future troubleshooting.
- * Comparison with Other Steps:
 - * Determine Resolution Steps: This is part of the implementation process where specific actions are outlined, but the actual next step after testing is to implement those steps.
 - * Duplicate the Problem in a Lab: This step is typically done earlier in the troubleshooting process to understand the problem, not after confirming the root cause.
 - * Present the Theory for Approval: In some scenarios, presenting the theory might be necessary for major changes, but generally, once the root cause is confirmed, the solution should be implemented.
- * Final Verification:
 - * After implementing the solution, it is important to verify that the issue is resolved and that normal operations are restored. This may involve monitoring the network and testing to ensure no further issues arise.

References:

- * CompTIA Network+ study materials on troubleshooting methodologies and best practices.

NEW QUESTION # 301

A network administrator has been monitoring the company's servers to ensure that they are available. Which of the following should the administrator use for this task?

- A. SNMP traps
- B. Data usage reports
- C. Configuration monitoring
- D. Packet capture

Answer: A

Explanation:

To monitor server availability, SNMP traps are the best choice. SNMP (Simple Network Management Protocol) allows devices to send alerts (traps) when certain conditions are met, such as server downtime or high resource usage.

Breakdown of Options:

A: Packet capture - Capturing packets provides insights into network traffic but does not actively monitor server availability.

B: Data usage reports - These analyze network traffic consumption but do not indicate whether a server is available or not.

C: SNMP traps - Correct answer. SNMP traps notify administrators of server issues in real time.

D: Configuration monitoring - This tracks configuration changes rather than availability.

Reference:

CompTIA Network+ (N10-009) Official Study Guide - Domain 2.3: Explain network monitoring concepts.

RFC 1157: Simple Network Management Protocol (SNMP)

NEW QUESTION # 302

A network technician replaced an accesslayer switch and needs to reconfigure it to allow the connected devices to connect to the

correct networks.

INSTRUCTIONS

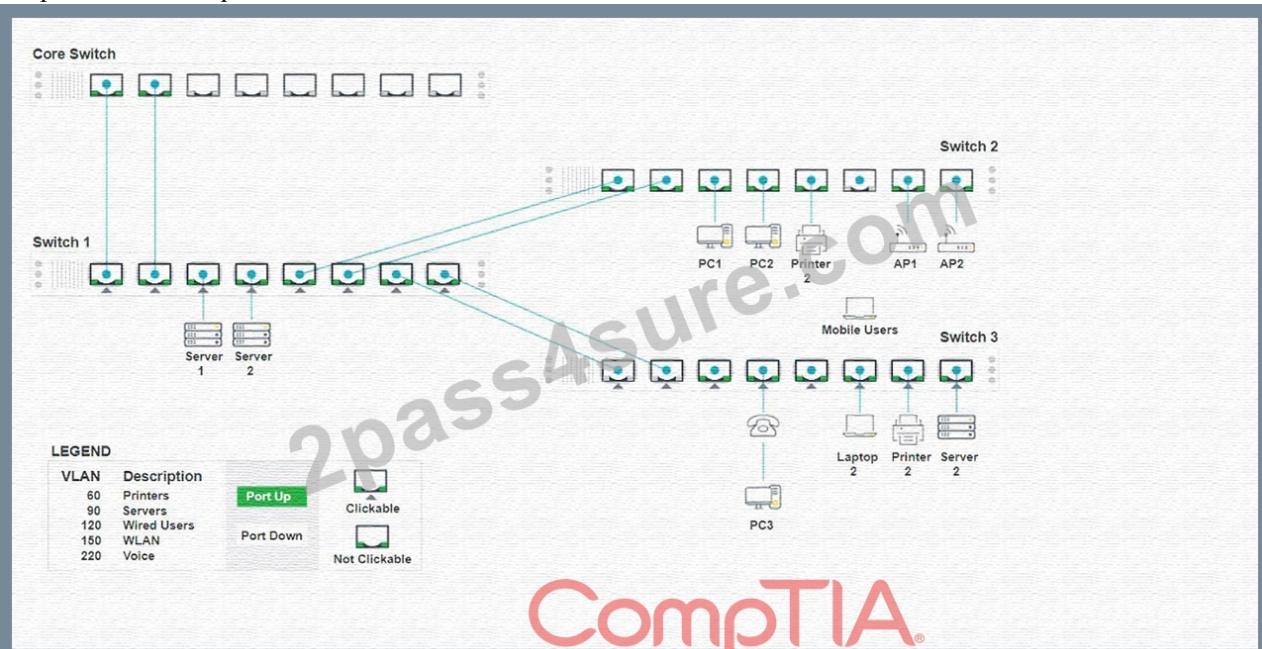
Click on the appropriate port(s) on Switch 1 and Switch 3 to verify or reconfigure the correct settings:

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.



Switch 1 - Port 1 Configuration

Status

Port Enabled

LACP Enabled

Wired

Speed Auto 100 1000

Duplex Auto Half Full

VLAN Configuration

Add VLAN

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

Reset to Default **CompTIA** Save Close

Switch 1 - Port 2 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 3 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](#) [Cancel](#)

[Close](#)

**Status**Port EnabledLACP Disabled**Wired**Speed Auto 100 1000Duplex Auto Half Full**VLAN Configuration****Add VLAN**VLAN90 X

Port Tagging

Untagged

Reset to Default**Save****Close**

Switch 1 - Port 5 Configuration

CompTIA 

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

Add VLAN

VLAN60

Port Tagging

Tagged

VLAN120

Port Tagging

Tagged

VLAN150

Port Tagging

Tagged

Reset to Default

Save

Close

CompTIA

Switch 1 - Port 7 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

VLAN220

Port Tagging

Tagged

Reset to Default

ComptIA Close

Switch 3 - Port 1 Configuration



Status

Port Disabled

LACP Disabled

Wired

Speed Auto 100 1000

Duplex Auto Half Full

VLAN Configuration

Add VLAN



Reset to Default

Save Close

Switch 3 - Port 2 Configuration

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

VLAN Configuration

Add VLAN

VLAN1	<input type="checkbox"/>
Port Tagging	
Untagged	<input type="checkbox"/>

Save **Close**

Reset to Default

Switch 3 - Port 3 Configuration

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

VLAN Configuration

Add VLAN

VLAN1	<input type="checkbox"/>
Port Tagging	
Untagged	<input type="checkbox"/>

Save **Close**

Reset to Default

Switch 3 - Port 4 Configuration

Status

Port Enabled

LACP Disabled

Wired

Speed Auto 100 1000

Duplex Auto Half Full

VLAN Configuration

Add VLAN

VLAN1	<input type="button"/>
Port Tagging	
UnTagged	<input type="button"/>

Buttons

Reset to Default

Save

Close

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Switch 3 - Port 5 Configuration



Status

Port  Enabled

LACP  Disabled

Wired

Speed Auto 100 1000

Duplex Auto Half Full

VLAN Configuration

 Add VLAN

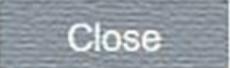
VLAN1 

Port Tagging

Untagged 

 Reset to Default

 Save

 Close

Switch 3 - Port 6 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 type="checkbox"/> Disabled	Duplex	<input type="radio"/> Auto <input type="radio"/> Half <input checked="" type="radio"/> Full

VLAN Configuration

Add VLAN

VLAN1 X
Port Tagging
UnTagged

CompTIA

Reset to Default Save Close

Switch 3 - Port 7 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 type="checkbox"/> Disabled	Duplex	<input type="radio"/> Auto <input type="radio"/> Half <input checked="" type="radio"/> Full

VLAN Configuration

Add VLAN

VLAN1 X
Port Tagging
UnTagged

CompTIA

Reset to Default Save Close

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

Reset to Default **Save** **Close**

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

VLAN220 **Port Tagging**
Tagged

Reset to Default **Save** **Close**

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.

Configuration Details

Switch 1 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: Untagged for VLAN90 (Servers)

Port 5 Configuration (Wired Users and WLAN)

- * Status: Enabled
- * LACP: Enabled
- * 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 7 Configuration (Voice and Wired Users)

- * Status: Enabled
- * LACP: Enabled
- * Speed: 1000
- * Duplex: Full

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

Port 8 Configuration (Voice, Printers, and Wired Users)

- * Status: Enabled
- * LACP: Enabled
- * Speed: 1000
- * Duplex: Full

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

Switch 3 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 Port should be configured as needed for uplinks to Switch 1.
* Ensure LACP is enabled for redundancy on trunk ports between switches.

Summary of Configurations: Ensure All Switches and Ports are Configured as per the Requirements: 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 # 303

A network administration team for a medium-sized business has decided to segment the network, logically separating the finance and marketing teams in order to improve performance for both teams. The finance and marketing teams still need to access resources across the subnets, and the router has a single interface. Which of the following should the administrator configure in order to allow the traffic?

- A. Subinterfaces
- B. Port address translation
- C. Classless masking
- D. IPv6 tunneling

Answer: A

Explanation:

Subinterfaces: Subinterfaces are virtual interfaces created on a physical router interface, each associated with a specific VLAN or subnet. By configuring subinterfaces, the router can effectively handle traffic from multiple subnets, allowing traffic separation while still enabling communication between the finance and marketing teams.

Each subinterface is associated with a different VLAN or subnet and can have its own IP address, allowing traffic to be routed between subnets while keeping them logically separated.

NEW QUESTION # 304

Which of the following is considered a valid second factor for multi-factor authentication (MFA)?

- A. Hard token
 - B. PIN
 - C. Favorite color
 - D. Mother's maiden name

Answer: A

Explanation:

Multi-factor authentication (MFA) requires two or more different categories of authentication factors:

- * Something you know (password, PIN)
 - * Something you have (smart card, hardware token)
 - * Something you are (biometric)

The only valid second factor here is a hard token (e.g., a key fob generating one-time codes).

- * A. PIN is still "something you know," the same category as a password.
 - * B. Favorite color is a weak knowledge-based factor, not a true second factor.
 - * D. Mother's maiden name is also "something you know" and insecure.

References (CompTIA Network+ N10-009):

- * Domain: Network Security - Authentication methods, MFA factor categories.

NEW QUESTION # 305

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