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CompTIA N10-009 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Networking Concepts: For network administrators and IT support professionals, this domain covers
Topic 2	<ul style="list-style-type: none">Selection and configuration of wireless devices.
Topic 3	<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 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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CompTIA Network+ Certification Exam Sample Questions (Q317-Q322):

NEW QUESTION # 317

An IT department asks a newly hired employee to use a personal laptop until the company can provide one. Which of the following

policies is most applicable to this situation?

- A. BYOD
- B. AUP
- C. IAM
- D. DLP

Answer: A

Explanation:

BYOD (Bring Your Own Device) policies define rules for using personal devices on the company network. Since the new employee is using a personal laptop, this policy applies.

Breakdown of Options:

A . IAM (Identity and Access Management) - Governs user permissions, not device policies.
B . BYOD (Bring Your Own Device) - Correct answer. Covers using personal devices for work.
C . DLP (Data Loss Prevention) - Focuses on preventing sensitive data leaks, not device usage policies.
D . AUP (Acceptable Use Policy) - Covers internet and system usage, but not personal device rules.

Reference:

CompTIA Network+ (N10-009) Official Study Guide - Domain 3.6: Explain security policies and best practices.

NEW QUESTION # 318

A network technician needs to resolve some issues with a customer's SOHO network. The customer reports that some of the PCs are not connecting to the network, while others appear to be working as intended.

INSTRUCTIONS

Troubleshoot all the network components.

Review the cable test results first, then diagnose by clicking on the appropriate PC, server, and Layer 2 switch.

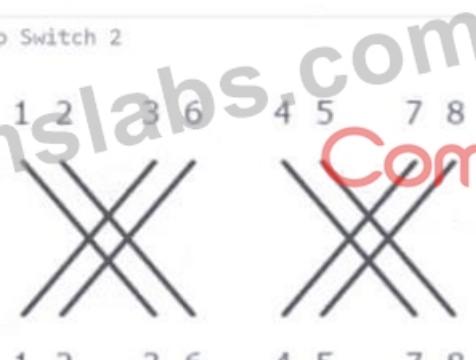
Identify any components with a problem and recommend a solution to correct each problem.

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

Cable Test Results

Switch 1	Length : 16M	Port : GigabitEthernet0/5
Switch 2	VLAN : VLAN 10	Speed : 1000 FDX
Server	Connected to Switch 2	
PC1	1 2	3 6
PC2	4 5	7 8
PC3		
PC4		
PC5		
PC6		

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Cable Test Results

x

Switch 1

Switch 2

Server

PC1

PC2

PC3

PC4

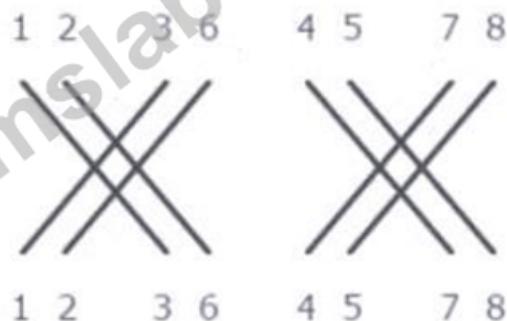
PC5

PC6

Length : 16M Port : GigabitEthernet0/5

VLAN : VLAN 10 Speed : 1000 FDX

Connected to Switch 1



Cable Test Results

x

Switch 1

Switch 2

Server

PC1

PC2

PC3

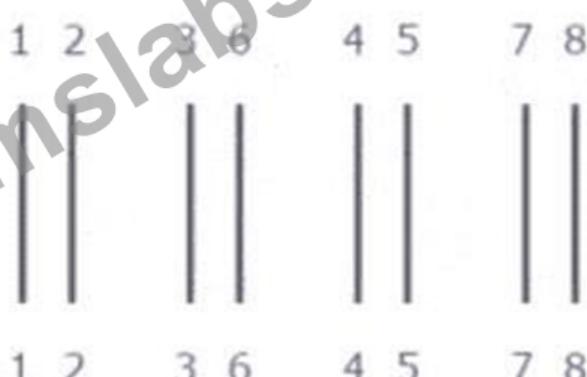
PC4

PC5

PC6

Length : 22M Port : GigabitEthernet0/1

VLAN : VLAN 10 Speed : 1000 FDX



Cable Test Results

x

Switch 1 Length : 12M Port : GigabitEthernet0/1

Switch 2 VLAN : VLAN 10 Speed : 1000 FDX

Server

PC1

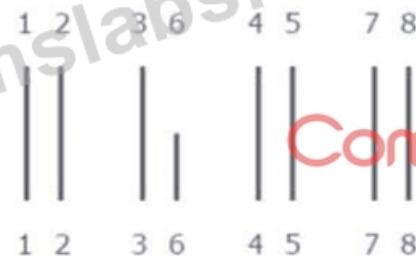
PC2

PC3

PC4

PC5

PC6



Cable Test Results

x

Switch 1 Length : 18M Port : GigabitEthernet0/3

Switch 2 VLAN : VLAN 11 Speed : 1000 FDX

Server

PC1

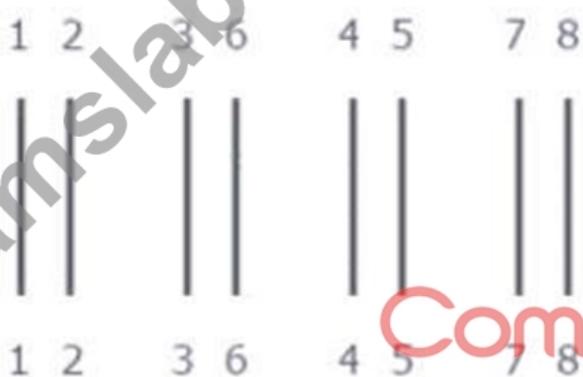
PC2

PC3

PC4

PC5

PC6



Cable Test Results

x

Switch 1

Length : 33M

Port : GigabitEthernet0/4

Switch 2

VLAN : VLAN 10

Speed : 1000 FDX

Server

PC1

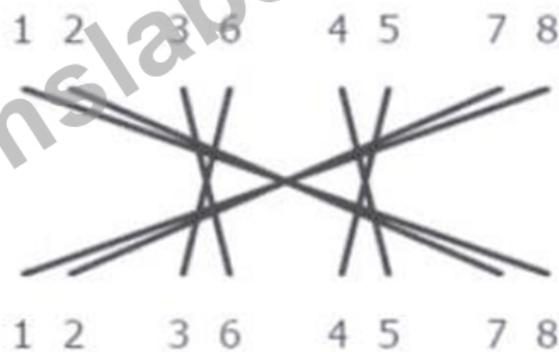
PC2

PC3

PC4

PC5

PC6



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Cable Test Results

x

Switch 1

Length : 90M

Port : GigabitEthernet0/3

Switch 2

VLAN : VLAN 10

Speed : 1000 FDX

Server

PC1

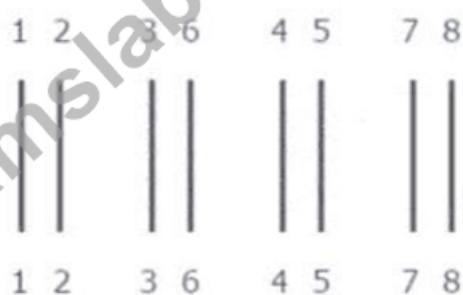
PC2

PC3

PC4

PC5

PC6



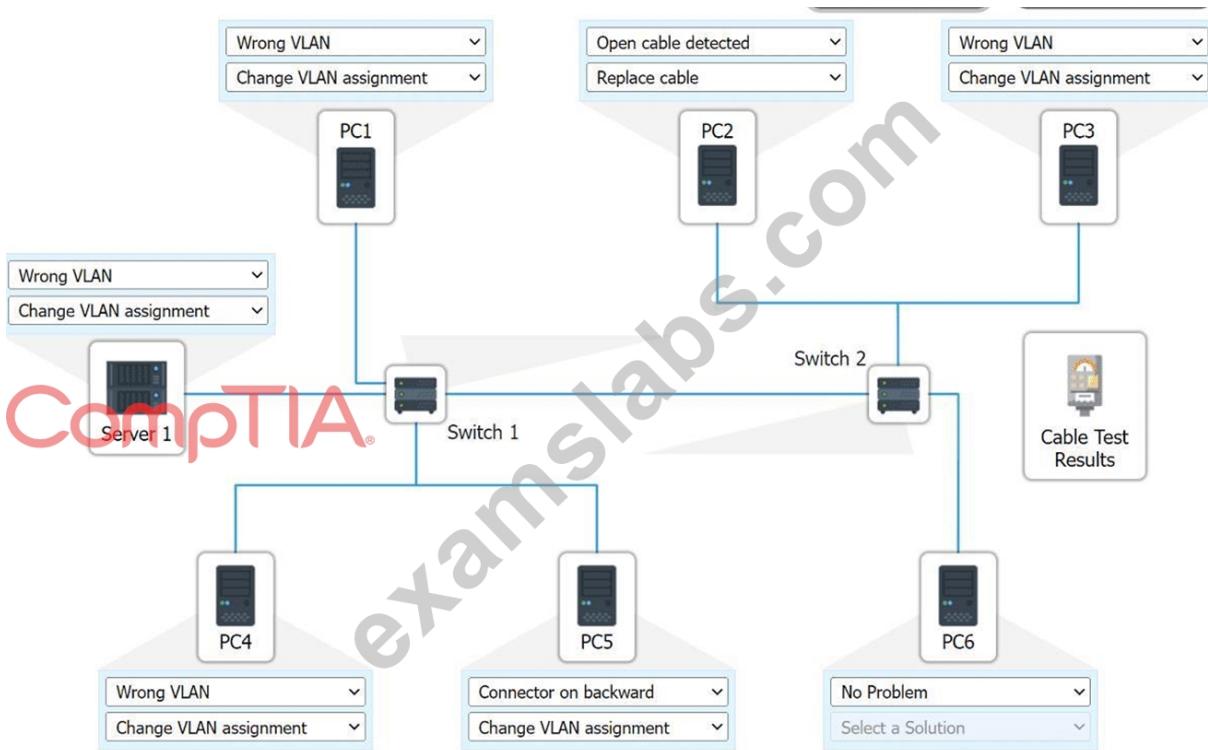
Answer:

Explanation:

See the answer and solution below:

Explanation:

A computer network diagram with many boxes and text AI-generated content may be incorrect.



NEW QUESTION # 319

A network administrator needs to divide 192.168.1.0/24 into two equal halves. Which of the following subnet masks should the administrator use?

- A. 255.255.254.0
- B. 255.255.255.0
- C. 255.255.0.0
- D. 255.255.255.128

Answer: D

Explanation:

* Understanding Subnetting:

* Original Network: 192.168.1.0/24 has a subnet mask of 255.255.255.0, which allows for 256 IP addresses (including network and broadcast addresses).

* Objective: Divide this network into two equal subnets.

* Calculating Subnet Mask:

* New Subnet Mask: To divide 192.168.1.0/24 into two equal halves, we need to borrow one bit from the host portion of the address, changing the subnet mask to 255.255.255.128 (/25).

* Subnet Breakdown:

* First Subnet: 192.168.1.0/25 (192.168.1.0 - 192.168.1.127)

* Second Subnet: 192.168.1.128/25 (192.168.1.128 - 192.168.1.255)

* Verification:

* Each subnet now has 128 IP addresses (126 usable IP addresses, excluding the network and broadcast addresses).

* Comparison with Other Options:

* 255.255.0.0 (/16): Provides a much larger network, not dividing the original /24 network.

* 255.255.254.0 (/23): Also creates a larger subnet, encompassing more than the original /24 network.

* 255.255.255.0 (/24): Maintains the original subnet size, not dividing it.

References:

* CompTIA Network+ study materials on subnetting and IP addressing.

NEW QUESTION # 320

Which of the following is a characteristic of the application layer?

- A. It relies upon other layers for packet delivery.
- B. It encrypts data in transit.
- C. It checks independently for packet loss.
- D. It performs address translation.

Answer: A

Explanation:

* Introduction to OSI Model:

* The OSI model is a conceptual framework used to understand network interactions in seven layers: Physical, Data Link, Network, Transport, Session, Presentation, and Application.

* Application Layer:

* The application layer (Layer 7) is the topmost layer in the OSI model. It provides network services directly to end-user applications. This layer facilitates communication between software applications and lower layers of the network protocol stack.

* Reliance on Other Layers:

* The application layer relies on the transport layer (Layer 4) for data transfer across the network.

The transport layer ensures reliable data delivery through protocols like TCP and UDP.

* The network layer (Layer 3) is responsible for routing packets to their destination.

* The data link layer (Layer 2) handles node-to-node data transfer and error detection.

* The physical layer (Layer 1) deals with the physical connection between devices.

* Explanation of the Options:

* A. It relies upon other layers for packet delivery: This is correct. The application layer depends on the lower layers (transport, network, data link, and physical) for the actual delivery of data packets.

* B. It checks independently for packet loss: This is incorrect. Packet loss detection is typically handled by the transport layer (e.g., TCP).

* C. It encrypts data in transit: This is incorrect. Encryption is typically handled by the presentation layer or at the transport layer (e.g., TLS/SSL).

* D. It performs address translation: This is incorrect. Address translation is performed by the network layer (e.g., NAT).

* Conclusion:

* The application layer's primary role is to interface with the end-user applications and ensure that data is correctly presented to the user. It relies on the underlying layers to manage the actual data transport and delivery processes.

References:

* CompTIA Network+ guide covering the OSI model and the specific roles and functions of each layer (see page Ref 10†How to Use Cisco Packet Tracer).

NEW QUESTION # 321

A network engineer adds a tunnel for a new branch network. Which of the following ensures that all data is encrypted inside the tunnel?

- A. ESP
- B. SSH
- C. IKE
- D. GRE

Answer: A

Explanation:

ESP (Encapsulating Security Payload) is an IPsec protocol that provides encryption, integrity, and authentication for data inside a VPN tunnel. It ensures that all tunneled traffic is encrypted.

B . SSH secures remote terminal sessions, not site-to-site VPN tunnels.

C . GRE (Generic Routing Encapsulation) provides encapsulation but does not encrypt data.

D . IKE (Internet Key Exchange) negotiates keys and establishes the IPsec tunnel but does not encrypt the payload itself.

Reference (CompTIA Network+ N10-009):

Domain: Network Security - VPN protocols, IPsec (AH vs. ESP), encryption in transit.

NEW QUESTION # 322

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