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CompTIA N10-009 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• Selection and configuration of wireless devices.
Topic 4	• OSI reference model concepts, Comparison of networking appliances, applications, and functions
Topic 5	• 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 (Q410-Q415):

NEW QUESTION # 410
Which of the following steps is part of the decision-making process for a Change Advisory Board (CAB) when evaluating a change?

- A. Establish a plan of action
- B. Identify the problem
- C. Test the theory to determine cause
- D. Develop a theory of probable cause

Answer: A

Explanation:
When dealing with troubleshooting and change management, the plan of action outlines the steps, risks, and mitigation strategies. A change advisory board (CAB) uses this documented plan to decide whether to approve the change.
* A. Identify the problem is the first step in troubleshooting, not decision-making for CAB.
* B. Develop a theory is diagnostic work, not planning.
* C. Test the theory confirms causes but doesn't provide actionable planning information.
References (CompTIA Network+ N10-009):
* Domain: Network Operations - Change management, troubleshooting methodology, CAB processes.

NEW QUESTION # 411
A network administrator needs to connect a department to a new network segment. They need to use a DHCP server located on another network. Which of the following can the administrator use to complete this task?

- A. IP Helper
- B. Scope
- C. Reservation
- D. Exclusion

Answer: A

Explanation:
An IP Helper (IP Helper Address) allows DHCP requests to pass through routers and reach a DHCP server on another network.
* DHCP broadcasts are not forwarded across routers by default, so an IP Helper Address is needed to relay the request.
* This is crucial for large networks where a single DHCP server serves multiple subnets.
* Option B (Reservation): Ensures a specific IP address is assigned to a MAC address but does not relay DHCP across networks.
* Option C (Exclusion): Prevents specific IP addresses from being assigned, but does not help with DHCP relay.
* Option D (Scope): Defines the range of IP addresses available for DHCP clients but does not assist in cross-network communication.
? Reference: CompTIA Network+ (N10-009) Official Study Guide - Section: DHCP and IP Addressing

NEW QUESTION # 412
Which of the following troubleshooting steps provides a change advisory board with the information needed to make a decision?

- A. Establish a plan of action
- B. Identify the problem
- C. Test the theory to determine cause
- D. Develop a theory of probable cause

Answer: A

Explanation:
When dealing with troubleshooting and change management, the plan of action outlines the steps, risks, and mitigation strategies. A change advisory board (CAB) uses this documented plan to decide whether to approve the change.
A . Identify the problem is the first step in troubleshooting, not decision-making for CAB.
B . Develop a theory is diagnostic work, not planning.
C . Test the theory confirms causes but doesn't provide actionable planning information.
Reference (CompTIA Network+ N10-009):

Domain: Network Operations - Change management, troubleshooting methodology, CAB processes.

NEW QUESTION # 413

A research facility is expecting to see an exponential increase in global network traffic in the near future. The offices are equipped with 2.5Gbps fiber connections from the ISP, but the facility is currently only utilizing 1Gbps connections. Which of the following would need to be configured in order to use the ISP's connection speed?

- A. Network address translation
- B. Port duplex
- C. Link aggregation
- D. 802.1Q tagging

Answer: C

Explanation:
Understanding Link Aggregation:
Definition: Link aggregation combines multiple network connections into a single logical link to increase bandwidth and provide redundancy.
Usage in High-Bandwidth Scenarios:
Combining Links: By aggregating multiple 1Gbps connections, the facility can utilize the full 2.5Gbps bandwidth provided by the ISP.
Benefits: Enhanced throughput, load balancing, and redundancy, ensuring better utilization of available bandwidth.
Comparison with Other Options:
802.1Q Tagging: Used for VLAN tagging, which does not affect the physical bandwidth utilization.
Network Address Translation (NAT): Used for IP address translation, not related to link speed or bandwidth aggregation.
Port Duplex: Refers to the mode of communication (full or half duplex) on a port, not the aggregation of bandwidth.
Implementation:
Configure link aggregation (often referred to as LACP - Link Aggregation Control Protocol) on network devices to combine multiple physical links into one logical link.
Reference:
CompTIA Network+ study materials on network configuration and link aggregation.
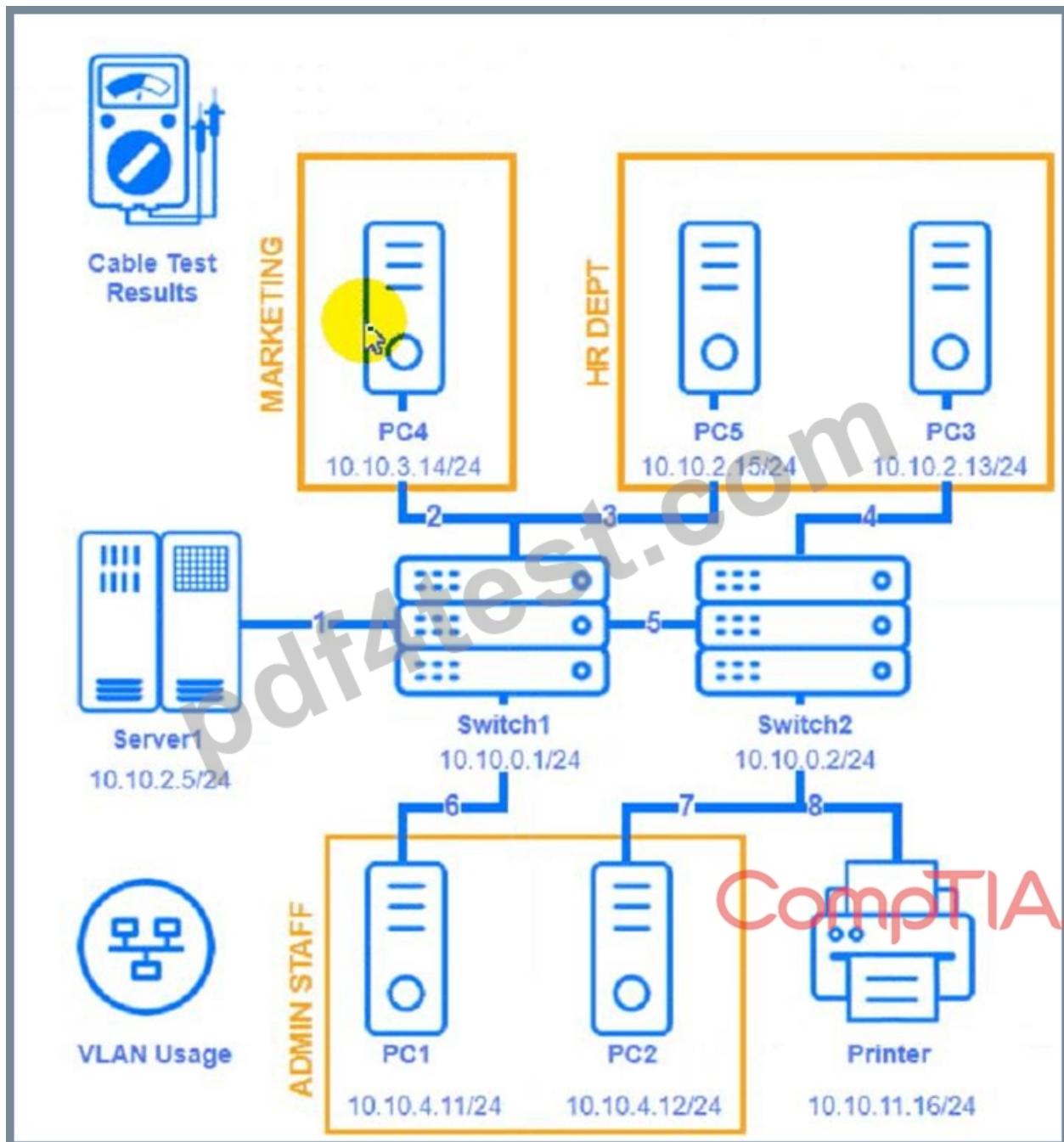
NEW QUESTION # 414
SIMULATION
A network technician needs to resolve some issues with a customer's SOHO network.
The customer reports that some of the devices are not connecting to the network, while others appear to work as intended.
INSTRUCTIONS
Troubleshoot all the network components and review the cable test results by Clicking on each device and cable.
Diagnose the appropriate component(s) by identifying any components with a problem and recommend a solution to correct each problem.

Cable Test Results

MARKETING

PC4
10.10.3.14/24

HR DEPT

PC5
10.10.2.15/24

PC3
10.10.2.13/24

2

3

4

Server1
10.10.2.5/24

1

Switch1
10.10.0.1/24

5

Switch2
10.10.0.2/24

6

7

8

VLAN Usage

ADMIN STAFF

PC1
10.10.4.11/24

PC2
10.10.4.12/24

Printer
10.10.11.16/24

PC4 - MARKETING

```
c:\>
```

PC5 - HR DEPT

```
c:\>
```

Cable Test Results:
Cable 1:

Cable 1	Cable 2	Cable 3	Cable 4	Cable 5	Cable 6	Cable 7	Cable 8

		1 2 3 6 4 5 7 8
Length:	22M	
VLAN:	VLAN 2	
Speed:	1000 FDX	
Port:	GigabitEthernet0/1	
		1 2 3 6 4 5 7 8

Cable 2:
Cable 3:

Cable 1	Cable 2	Cable 3	Cable 4	Cable 5	Cable 6	Cable 7	Cable 8

Length: 18M
VLAN: VLAN 2
Speed: 1000 FDX
Port: GigabitEthernet0/3

1 2 3 6 4 5 7 8
1 2 3 6 4 5 7 8

Cable 4:

Cable 1	Cable 2	Cable 3	Cable 4	Cable 5	Cable 6	Cable 7	Cable 8

Length: 20M
VLAN: VLAN 1
Speed: 1000 FDX
Port: GigabitEthernet0/2

1 2 3 6 4 5 7 8
1 2 3 6 4 5 7 8

Cable Test Results

Cable 1	Cable 2	Cable 3	Cable 4	Cable 5	Cable 6	Cable 7	Cable 8

Length: 16M
VLAN: VLAN 1
Speed: 1000 FDX
Port: GigabitEthernet0/5

1 2 3 6 4 5 7 8
1 2 3 6 4 5 7 8

Cable Test Results

Cable 1	Cable 2	Cable 3	Cable 4	Cable 5	Cable 6	Cable 7	Cable 8

Length: 12M
VLAN: VLAN 1
Speed: 1000 FDX
Port: GigabitEthernet0/1

1 2 3 6 4 5 7 8
1 2 3 6 4 5 7 8

Printer

HP Network Configuration Page

Model: HP Officejet Pro 8610

General Information

Network Status	Ready
Active Connection Type	Wired
URL(s) for Embedded Web Server	http://HP4D30EC, http://192.168.2.9
Firmware Revision	FDP1CN1347AR
Hostname	HP4D30EC
Serial Number	CN3AO1KG42
Internet	Not Connected

802.3 Wired

Hardware Address (MAC)	9c:b6:54:4d:30:ec

Answer:

Explanation:
See the Explanation for detailed information on this simulation
Explanation:
(Note: Ips will be change on each simulation task, so we have given example answer for the understanding) To troubleshoot all the network components and review the cable test results, you can use the following steps:
Click on each device and cable to open its information window.
Review the information and identify any problems or errors that may affect the network connectivity or performance.
Diagnose the appropriate component(s) by identifying any components with a problem and recommend a solution to correct each problem.
Fill in the remediation form using the drop-down menus provided.
Here is an example of how to fill in the remediation form for PC1:
The component with a problem is PC1.
The problem is Incorrect IP address.
The solution is Change the IP address to 192.168.1.10.
You can use the same steps to fill in the remediation form for other components.
To enter commands in each device, you can use the following steps:
Click on the device to open its terminal window.
Enter the command ipconfig /all to display the IP configuration of the device, including its IP address, subnet mask, default gateway, and DNS servers.
Enter the command ping <IP address> to test the connectivity and reachability to another device on the network by sending and receiving echo packets. Replace <IP address> with the IP address of the destination device, such as 192.168.1.1 for Core Switch 1.
Enter the command tracert <IP address> to trace the route and measure the latency of packets from the device to another device on the network by sending and receiving packets with increasing TTL values. Replace <IP address> with the IP address of the destination device, such as 192.168.1.1 for Core Switch 1.
Here is an example of how to enter commands in PC1:
Click on PC1 to open its terminal window.
Enter the command ipconfig /all to display the IP configuration of PC1. You should see that PC1 has an incorrect IP address of

192.168.2.10, which belongs to VLAN 2 instead of VLAN 1.

Enter the command ping 192.168.1.1 to test the connectivity to Core Switch 1. You should see that PC1 is unable to ping Core Switch 1 because they are on different subnets.

Enter the command tracert 192.168.1.1 to trace the route to Core Switch 1. You should see that PC1 is unable to reach Core Switch 1 because there is no route between them.

You can use the same steps to enter commands in other devices, such as PC3, PC4, PC5, and Server 1.

NEW QUESTION # 415

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