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CompTIA N10-009 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• Selection and configuration of wireless devices.
Topic 3	• Networking Concepts: For network administrators and IT support professionals, this domain covers
Topic 4	• Cloud concepts and connectivity options, and Common networking ports.
Topic 5	• OSI reference model concepts, Comparison of networking appliances, applications, and functions
Topic 6	• Network Implementation: For network technicians and junior network engineers, this section covers Characteristics of routing technologies, Configuration of switching technologies and features, and

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CompTIA Network+ Certification Exam Sample Questions (Q107-Q112):

NEW QUESTION # 107
Which of the following routing protocols has routes that are classified with an administrative distance of 110?

- A. RIP
- B. OSPF
- C. EIGRP
- D. BGP

Answer: B

Explanation:
OSPF (Open Shortest Path First) is a link-state routing protocol that uses an administrative distance of 110. This means that OSPF routes are preferred over routes from other routing protocols, such as RIP (Routing Information Protocol), which has an administrative distance of
120.
BGP (Border Gateway Protocol) is a path vector routing protocol that uses an administrative distance of 200. EIGRP (Enhanced Interior Gateway Routing Protocol) is a hybrid routing protocol that uses an administrative distance of 90.
Static routes have an administrative distance of 1.

NEW QUESTION # 108
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.

Answer:

Explanation:
See the answer and solution below:

NEW QUESTION # 109
You are tasked with verifying the following requirements are met in order to ensure network security.
Requirements:
Datacenter
Ensure network is subnetted to allow all devices to communicate properly while minimizing address space usage Provide a dedicated server to resolve IP addresses and hostnames correctly and handle port 53 traffic Building A Ensure network is subnetted to allow all devices to communicate properly while minimizing address space usage Provide devices to support 5 additional different office users Add an additional mobile user Replace the Telnet server with a more secure solution Screened subnet Ensure network is subnetted to allow all devices to communicate properly while minimizing address space usage Provide a server to handle external 80/443 traffic Provide a server to handle port 20/21 traffic INSTRUCTIONS Drag and drop objects onto the appropriate locations. Objects can be used multiple times and not all placeholders need to be filled.
Available objects are located in both the Servers and Devices tabs of the Drag & Drop menu.
If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

Answer:

Explanation:
See explanation below.
Explanation:
Screened Subnet devices - Web server, FTP server
Building A devices - SSH server top left, workstations on all 5 on the right, laptop on bottom left DataCenter devices - DNS server.

NEW QUESTION # 110
Two network switches at different locations are connected via fiber-optic cable at a distance of 10 miles (16 km). The duplex fiber-optic patch cord between the patch panel and switch is accidentally pinched, stopping connectivity between the two switches. A network technician replaces the broken cable with a new, single- mode patch cord. However, connectivity between both switches is still down and the link lights are still off.
Which of the following actions should the technician perform first?

- A. Transpose the two fiber connectors at one end of the new patch cord
- B. Swap the single-mode fiber patch cord with a multimode fiber patch cord
- C. Log in to the switch to shut down and re-enable the switchport
- D. Replace the fiber-optic transceiver in the switch

Answer: A

Explanation:
Fiber connections require Tx on one end to connect to Rx on the other end. If the patch cord is replaced and link lights remain off, the most common cause is that the connectors are reversed. Swapping (transposing) the connectors ensures proper transmit/receive alignment.
A). Replacing the transceiver may eventually be necessary, but only after verifying correct connections.
B). Restarting the switchport won't resolve a physical misconnection.
D). Using multimode fiber would be incorrect here, as the link was designed for single-mode (10 miles/16 km requires SMF).
References (CompTIA Network+ N10-009):
Domain: Network Troubleshooting - Fiber connectivity, Tx/Rx alignment, link light diagnostics.

NEW QUESTION # 111
A network administrator needs to assign IP addresses to a newly installed network. They choose 192.168.1.0
/24 as their network address and need to create three subnets with 30 hosts on each subnet. Which of the following is a valid subnet mask that will meet the requirements?

- A. 255.255.255.224
- B. 255.255.255.128
- C. 255.255.255.240
- D. 255.255.255.192

Answer: A

Explanation:
Understanding the Requirements
* Network Address: 192.168.1.0/24
* The /24 notation means a subnet mask of255.255.255.0, providing 256 total addresses (192.168.1.0-192.168.1.255).
* Usable hosts: 256 - 2 (network and broadcast) = 254.
* Goal: Create3 subnets, each with30 hosts.
* Each subnet needs enough addresses to accommodate 30 hosts, plus 2 reserved addresses (network and broadcast) per subnet.
* Total addresses per subnet = 30 (hosts) + 2 (network/broadcast) =32 addresses.
Subnetting Basics (Networking Fundamentals)
* Subnet Mask: Determines how many bits are borrowed from the host portion to create subnets.
* Original Mask: /24 (255.255.255.0) = 24 network bits, 8 host bits.
* Formulae:
* Number of subnets = 2