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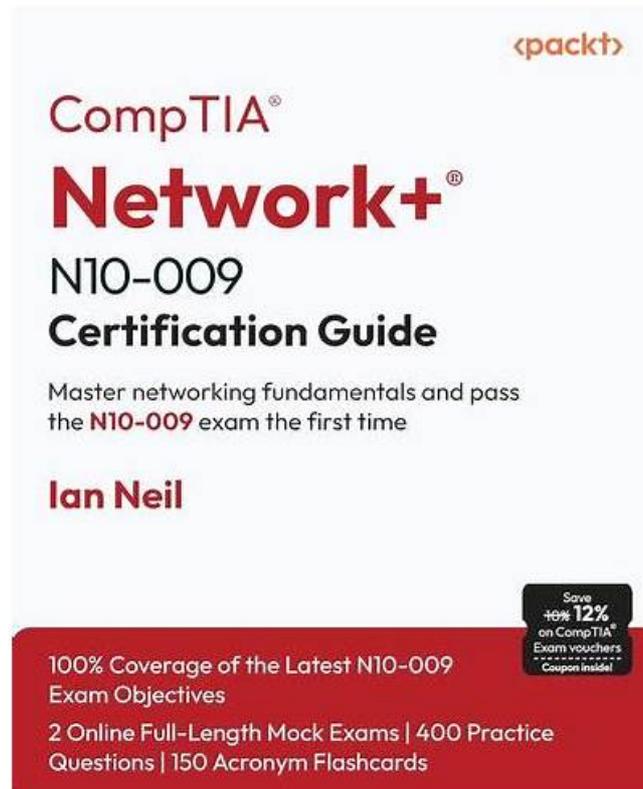
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CompTIA N10-009 Exam Syllabus Topics:

Topic	Details
Topic 1	• Cloud concepts and connectivity options, and Common networking ports.
Topic 2	• OSI reference model concepts, Comparison of networking appliances, applications, and functions
Topic 3	• 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	• Selection and configuration of wireless devices.

Topic 5	• Networking Concepts: For network administrators and IT support professionals, this domain covers
Topic 6	• 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 (Q379-Q384):

NEW QUESTION # 379
A user recently moved a workstation to a different part of the office. The user is able to access the internet and print but is unable to access server resources. Which of the following is the most likely cause of the issue?

- A. Incorrect default gateway
- B. Error-disabled port
- C. Wrong VLAN assignment
- D. Duplicate IP address

Answer: C

Explanation:
If a workstation can access the internet and printers (likely in another VLAN) but not internal servers, the port was likely placed into the wrong VLAN after the move. VLAN assignment controls Layer 2 segmentation, restricting access to resources on different VLANs.
A . A wrong default gateway would prevent internet access.
C . An error-disabled port would block all connectivity.
D . A duplicate IP would cause general network issues, not just missing server access.
Reference (CompTIA Network+ N10-009):

NEW QUESTION # 380
SIMULATION
Users are unable to access files on their department share located on file server 2.
The network administrator has been tasked with validating routing between networks hosting workstation A and file server 2.
INSTRUCTIONS
Click on each router to review output, identify any issues, and configure the appropriate solution.
If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

Router B

Routing Table | Routing Configuration

```
Router-B# show ip route

Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, m - OMP
       n - NAT, Ni - NAT inside, No - NAT outside, Nd - NAT DIA
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route
       H - NHRP, G - NHRP registered, g - NHRP registration summary
       o - ODR, P - periodic downloaded static route, l - LISP
       a - application route
       + - replicated route, % - next hop override, p - overrides from PfR

Gateway of last resort is 0.0.0.0 to network 0.0.0.0

S*    0.0.0.0/0 is directly connected, GigabitEthernet1
      10.0.0.0/8 is variably subnetted, 4 subnets, 2 masks
C        10.0.0.0/22 is directly connected, GigabitEthernet3
L        10.0.0.1/32 is directly connected, GigabitEthernet3
      172.16.0.0/16 is variably subnetted, 2 subnets, 2 masks
C        172.16.27.4/30 is directly connected, GigabitEthernet1
L        172.16.27.5/32 is directly connected, GigabitEthernet1
```

Reset to Default | Save | Close

Router C

Routing Table | Routing Configuration

Was a problem found?: ○ Yes ● No

Install Static Route

Destination Prefix:

Destination Prefix Mask:

Interface:

Reset to Default   Save   Close

Answer:

Explanation:
See the step by step complete solution below
Explanation:
To validate routing between networks hosting Workstation A and File Server 2, follow these steps:
Step-by-Step Solution
Review Routing Tables:
Check the routing tables of Router A, Router B, and Router C to identify any missing routes.
Identify Missing Routes:
Ensure that each router has routes to the networks on which Workstation A and File Server 2 are located.
Add Static Routes:
If a route is missing, add a static route to the relevant destination network via the correct interface.
Detailed Analysis and Configuration
Router A:
Routing Table:
Gateway of last resort is 0.0.0.0 to network 0.0.0.0
S* 0.0.0.0/0 is directly connected, GigabitEthernet3
10.0.0.0/8 is variably subnetted, 4 subnets, 2 masks
C 10.0.4.0/22 is directly connected, GigabitEthernet2
C 10.0.6.0/24 is directly connected, GigabitEthernet2
L 10.0.6.1/32 is directly connected, GigabitEthernet2
172.16.0.0/16 is variably subnetted, 2 subnets, 2 masks
C 172.16.27.0/30 is directly connected, GigabitEthernet3
L 172.16.27.1/32 is directly connected, GigabitEthernet3
Router B:
Routing Table:
Gateway of last resort is 0.0.0.0 to network 0.0.0.0
S* 0.0.0.0/0 is directly connected, GigabitEthernet1
10.0.0.0/8 is variably subnetted, 4 subnets, 2 masks
C 10.0.0.0/22 is directly connected, GigabitEthernet1
L 10.0.0.1/32 is directly connected, GigabitEthernet1
172.16.0.0/16 is variably subnetted, 2 subnets, 2 masks
C 172.16.27.4/30 is directly connected, GigabitEthernet1
L 172.16.27.5/32 is directly connected, GigabitEthernet1
Router C:

Routing Table:

10.0.0.0/8 is variably subnetted, 4 subnets, 2 masks
S 10.0.0.0/22 [1/0] via GigabitEthernet1
S 10.0.4.0/22 [1/0] via GigabitEthernet2
172.16.0.0/16 is variably subnetted, 2 subnets, 2 masks
C 172.16.27.0/30 is directly connected, GigabitEthernet2
L 172.16.27.2/32 is directly connected, GigabitEthernet2
C 172.16.27.4/30 is directly connected, GigabitEthernet1
L 172.16.27.6/32 is directly connected, GigabitEthernet1
Configuration Steps:
Router A:
Install Static Route to 10.0.0.0/22 via 172.16.27.1 (assuming Router C's IP is 172.16.27.1):
Destination Prefix: 10.0.0.0
Destination Prefix Mask: 255.255.252.0
Interface: GigabitEthernet3
Router B:
Install Static Route to 10.0.4.0/22 via 172.16.27.5 (assuming Router C's IP is 172.16.27.5):
Destination Prefix: 10.0.4.0
Destination Prefix Mask: 255.255.252.0
Interface: GigabitEthernet1
Router C:
Install Static Route to 10.0.6.0/24 via 172.16.27.2 (assuming Router A's IP is 172.16.27.2):
Destination Prefix: 10.0.6.0
Destination Prefix Mask: 255.255.255.0
Interface: GigabitEthernet2
Install Static Route to 10.0.0.0/22 via 172.16.27.1 (assuming Router B's IP is 172.16.27.1):
Destination Prefix: 10.0.0.0
Destination Prefix Mask: 255.255.252.0
Interface: GigabitEthernet1
Summary of Static Routes:
Router A:
ip route 10.0.0.0 255.255.252.0 GigabitEthernet3
Router B:
ip route 10.0.4.0 255.255.252.0 GigabitEthernet1
Router C:
ip route 10.0.6.0 255.255.255.0 GigabitEthernet2
ip route 10.0.0.0 255.255.252.0 GigabitEthernet1
These configurations ensure that each router knows the correct paths to reach Workstation A and File Server 2, resolving the connectivity issue.

NEW QUESTION # 381

A new backup system takes too long to copy files to the new SAN each night. A network administrator makes a simple change to the network and the devices to decrease backup times. Which of the following does the network administrator change?

- A. MTU
- B. QoS
- C. VXLAN
- D. SDN
- E. TTL

Answer: A

Explanation:
Increasing the MTU (Maximum Transmission Unit) size allows larger frames to be transmitted, reducing overhead and improving throughput - especially for large file transfers like backups.
A). QoS prioritizes traffic but doesn't reduce backup times directly.
B). SDN is a network management model, not a parameter change.
D). VXLAN encapsulates VLANs, not relevant to backup speeds.
E). TTL is for packet lifetime, not throughput.
References (CompTIA Network+ N10-009):

Domain: Network Infrastructure - MTU, jumbo frames, performance tuning.

NEW QUESTION # 382

A network administrator is configuring a wireless network with an ESSID. Which of the following is a user benefit of ESSID compared to SSID?

- A. Stronger wireless connection
- B. Advanced security
- C. Roaming between access points
- D. Increased throughput

Answer: C

Explanation:
An Extended Service Set Identifier (ESSID) allows multiple access points to share the same SSID, enabling seamless roaming for users. This means that users can move between different access points within the same ESSID without losing connection or having to reauthenticate. This provides a better user experience, especially in large environments such as office buildings or campuses.

NEW QUESTION # 383

Which of the following tools uses ICMP to help determine whether a network host is reachable?

- A. netstat
- B. tcpdump
- C. ping
- D. nslookup

Answer: C

Explanation:
Ping sends ICMP Echo Request packets and waits for Echo Replies to verify host reachability and measure round-trip time.
A . tcpdump captures packets but does not test reachability.
B . netstat displays open ports and network sessions.
C . nslookup queries DNS servers for name resolution.
Reference (CompTIA Network+ N10-009):

NEW QUESTION # 384

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