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**>> N10-009 Study Test <<**

## Useful CompTIA - N10-009 - CompTIA Network+ Certification Exam Study Test

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## CompTIA N10-009 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• OSI reference model concepts, Comparison of networking appliances, applications, and functions</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• Networking Concepts: For network administrators and IT support professionals, this domain covers</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• 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.</li></ul>

Topic 4	<ul style="list-style-type: none"> <li>Cloud concepts and connectivity options, and Common networking ports.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>Network Implementation: For network technicians and junior network engineers, this section covers Characteristics of routing technologies, Configuration of switching technologies and features, and</li> </ul>

## CompTIA Network+ Certification Exam Sample Questions (Q155-Q160):

### NEW QUESTION # 155

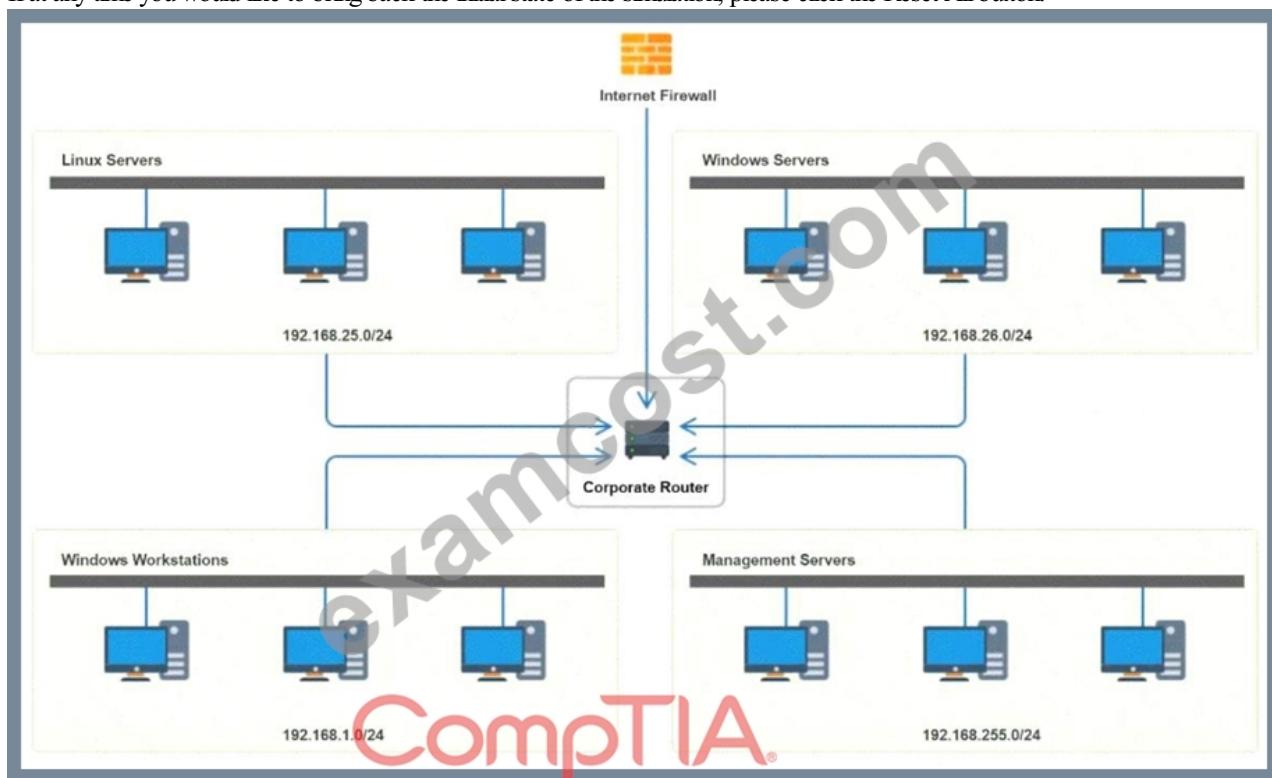
You have been tasked with implementing an ACL on the router that will:

1. Permit the most commonly used secure remote access technologies from the management network to all other local network segments
2. Ensure the user subnet cannot use the most commonly used remote access technologies in the Linux and Windows Server segments.
3. Prohibit any traffic that has not been specifically allowed.

### INSTRUCTIONS

Use the drop-downs to complete the ACL

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



# ComptIA

## Router Access Control List

Rule	Source	Destination	Protocol	Service	Action
1	192.168.1.0 192.168.25.0 192.168.255.0 192.168.26.0 Any	192.168.1.0 192.168.25.0 192.168.255.0 192.168.26.0 Any	TCP	SSH Telnet HTTP RDP VNC SMB Any	Allow Deny
2	192.168.1.0 192.168.25.0 192.168.255.0 192.168.26.0 Any	192.168.1.0 192.168.25.0 192.168.255.0 192.168.26.0 Any	TCP	SSH Telnet HTTP RDP VNC SMB Any	Allow Deny
3	192.168.1.0 192.168.25.0 192.168.255.0 192.168.26.0 Any	192.168.1.0 192.168.25.0 192.168.255.0 192.168.26.0 Any	TCP	SSH Telnet HTTP RDP VNC SMB Any	Allow Deny
4	192.168.255.0	192.168.26.0	TCP	SMB	Allow
5	192.168.255.0	Any	Any	Any	Deny
6	192.168.1.0 192.168.25.0 192.168.255.0 192.168.26.0 Any	192.168.1.0 192.168.25.0 192.168.255.0 192.168.26.0 Any	TCP	SSH Telnet HTTP RDP VNC SMB Any	Allow Deny
7	192.168.1.0 192.168.25.0 192.168.255.0 192.168.26.0 Any	192.168.1.0 192.168.25.0 192.168.255.0 192.168.26.0 Any	TCP	SSH Telnet HTTP RDP VNC SMB Any	Allow Deny
8	192.168.1.0	Any	Any	Any	Allow
9	192.168.1.0 192.168.25.0 192.168.255.0 192.168.26.0 Any	192.168.1.0 192.168.25.0 192.168.255.0 192.168.26.0 Any	Any	SSH Telnet HTTP RDP VNC SMB Any	Allow Deny

### Answer:

Explanation:

See the answer and solution below.

Explanation:

Rule	Source	Destination	Protocol	Service	Action
1	192.168.255.0	192.168.26.0	TCP	SSH	Allow
2	192.168.255.0	192.168.25.0	TCP	SSH	Allow
3	192.168.255.0	192.168.1.0	TCP	SSH	Allow
4	192.168.255.0	192.168.26.0	TCP	SMB	Allow
5	192.168.255.0	Any	Any	Any	Deny
6	192.168.1.0	Any	TCP	RDP	Deny
7	192.168.1.0	Any	TCP	VNC	Deny
8	192.168.1.0	Any	Any	Any	Allow
9	Any	Any	Any	Any	Deny

### NEW QUESTION # 156

Which of the following most likely determines the size of a rack for installation? (Select two).

- A. Server height
- B. Outlet amperage
- C. KVM size
- D. Hard drive size
- E. **Switch depth**
- F. Cooling fan speed

**Answer: E**

Explanation:

Understanding Rack Size Determination:

The size of a rack for installation is determined by the dimensions of the equipment to be housed in it, primarily focusing on the depth and height of the devices.

Switch Depth:

Depth of Equipment: The depth of network switches and other rack-mounted devices directly influences the depth of the rack. If the equipment is deeper, a deeper rack is required to accommodate it.

Industry Standards: Most racks come in standard depths, but it is essential to match the depth of the rack to the deepest piece of equipment to ensure proper fit and airflow.

Server Height:

Height of Equipment: The height of servers and other devices is measured in rack units (U), where 1U equals 1.75 inches. The total height of all equipment determines the overall height requirement of the rack.

Rack Units: A rack's height is typically described in terms of the number of rack units it can accommodate, such as 42U, 48U, etc.

Why Other Options are Less Relevant:

KVM Size: While important for management, KVM (Keyboard, Video, Mouse) switches do not typically determine rack size.

Hard Drive Size: Individual hard drives are installed within servers or storage devices, not directly influencing rack dimensions.

Cooling Fan Speed: Fan speed affects cooling but not the physical size of the rack.

Outlet Amperage: Power requirements do not determine rack dimensions but rather the electrical infrastructure supporting the rack.

Reference:

CompTIA Network+ study materials on rack installation and equipment sizing.

### NEW QUESTION # 157

Which of the following is an XML-based security concept that works by passing sensitive information about users, such as login information and attributes, to providers?

- A. **SAML**
- B. MFA

- C. IAM
- D. RADIUS

**Answer: A**

Explanation:

The correct answer is SAML (Security Assertion Markup Language). SAML is an XML-based standard used for single sign-on (SSO) and identity federation. It allows identity providers (IdPs) to share authentication and authorization data with service providers (SPs), passing secure tokens containing user attributes and credentials.

A . IAM (Identity and Access Management) is the broader framework, not specifically XML-based.

B . MFA enforces multiple factors for authentication but does not involve XML assertions.

C . RADIUS is an AAA protocol, but it uses UDP, not XML assertions.

SAML is widely used in federated identity systems, enabling secure authentication across different domains and applications without requiring multiple credentials.

**NEW QUESTION # 158**

Which of the following high availability strategies ensures continuous uptime and minimal disruption by running multiple systems/sites simultaneously to provide failover and load distribution?

- A. Full mesh
- B. **Active-active**
- C. In-band
- D. Warm site

**Answer: B**

Explanation:

In financial institutions such as stock exchanges, downtime or latency can have severe consequences. Active- active high availability ensures multiple sites/systems are running simultaneously, distributing the load and providing immediate failover with minimal or no interruption. This is the best approach for environments that require continuous uptime and resiliency.

\* A. Warm site: Useful for disaster recovery, but not immediate; systems must be partially configured and brought online.

\* C. Full mesh: Refers to topology interconnections, not DR/HA design.

\* D. In-band: Relates to management methods, not HA/DR strategies.

References (CompTIA Network+ N10-009):

\* Domain: Network Infrastructure - High availability, redundancy strategies, active-active vs. active- passive design.

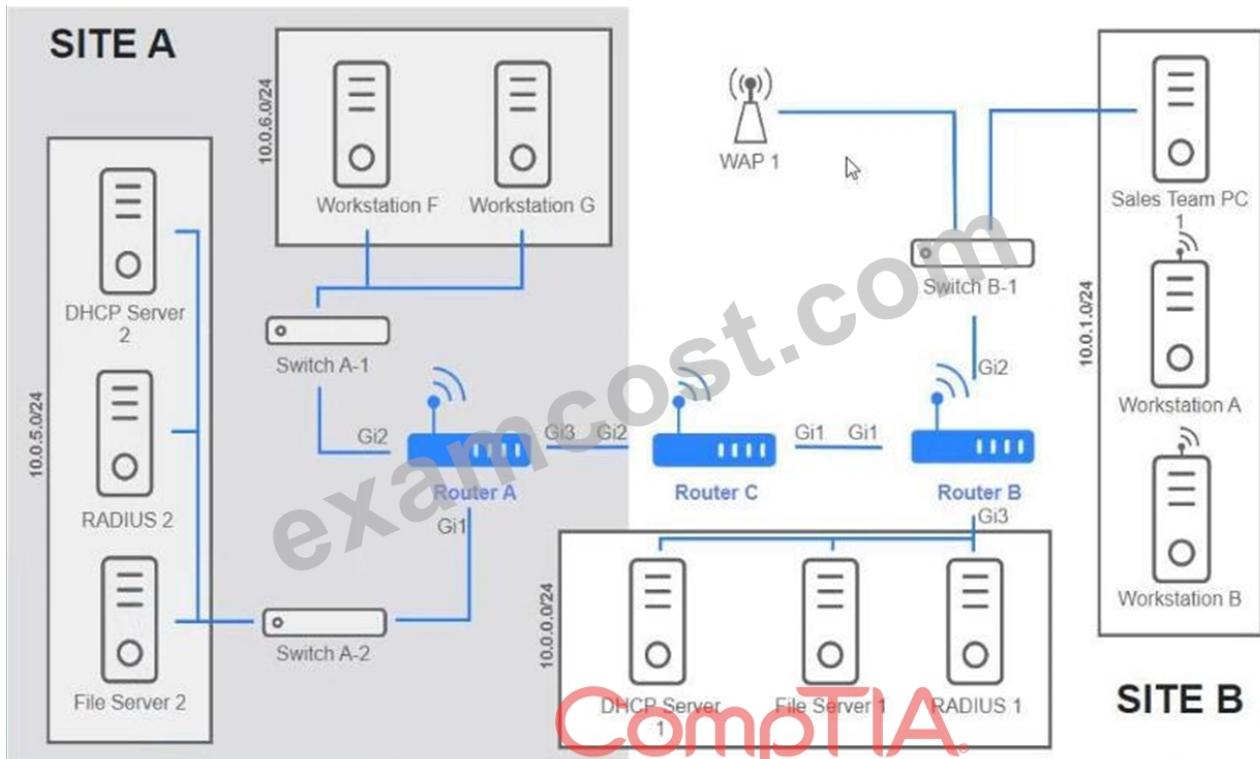
**NEW QUESTION # 159**

**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;



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
```

Answer:

Explanation:

See the solution configuration below in Explanation.

**Router A**

Routing Table      Routing Configuration

Was a problem found?:  Yes  No

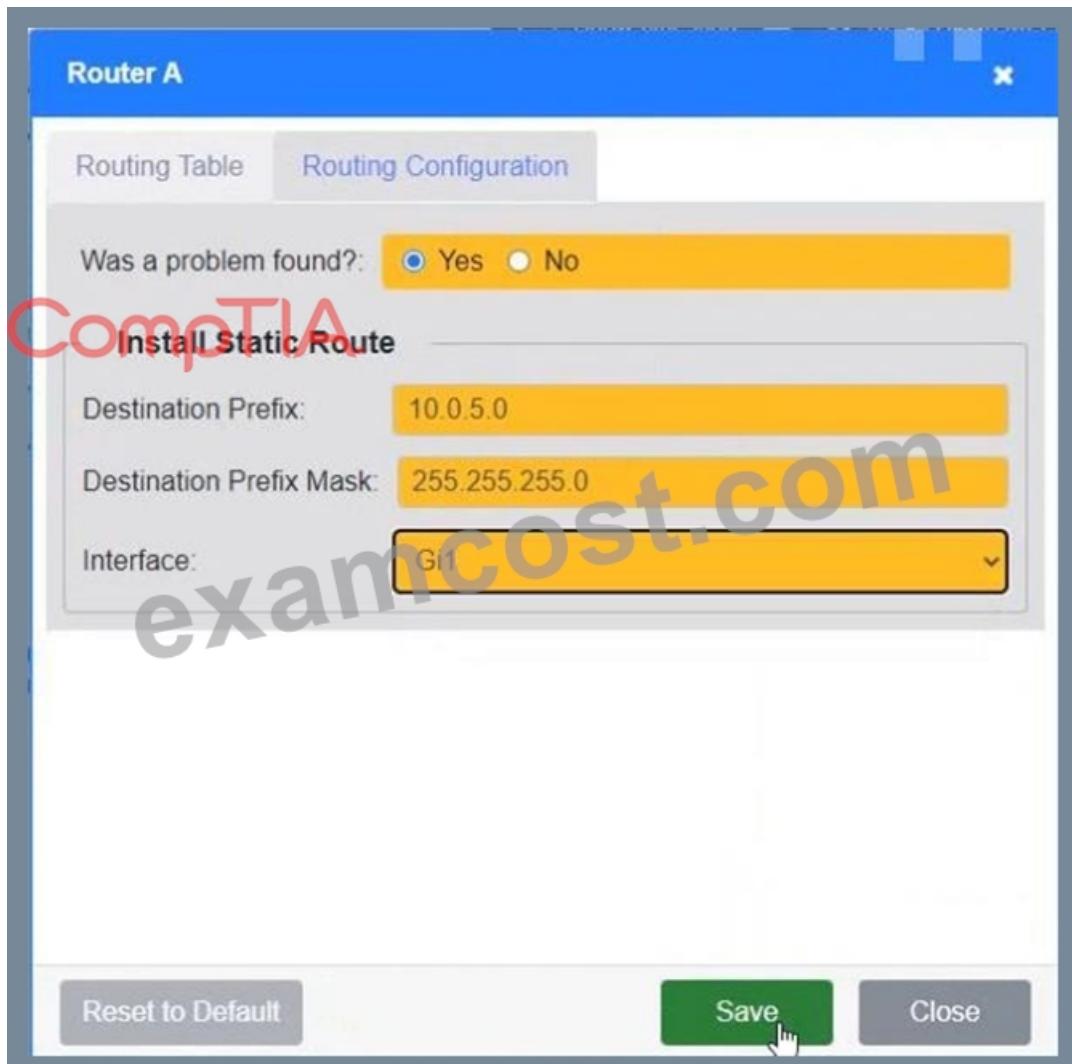
**Install Static Route**

Destination Prefix: 10.0.5.0

Destination Prefix Mask: 255.255.255.0

Interface: Gi1

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



**Router B**

Routing Table      Routing Configuration

Was a problem found?:  Yes  No

**Install Static Route**

Destination Prefix: 10.0.5.0

Destination Prefix Mask: 255.255.255.0

Interface: Gi1

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





#### NEW QUESTION # 160

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