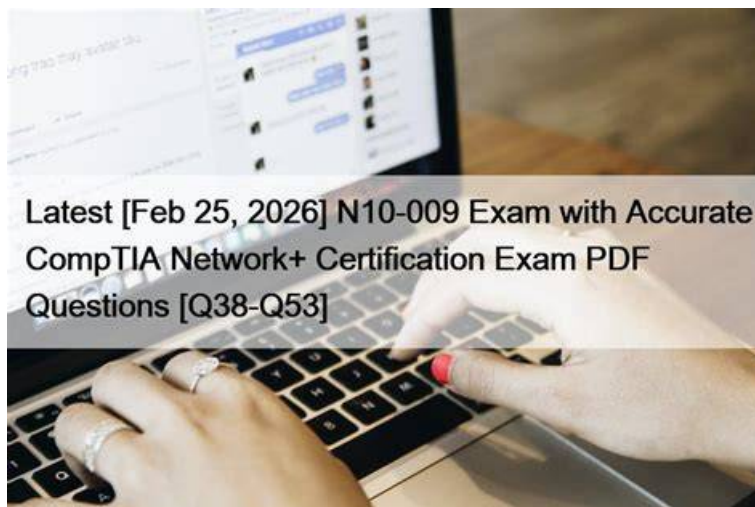


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CompTIA N10-009 Exam Syllabus Topics:

Topic	Details
Topic 1	• OSI reference model concepts, Comparison of networking appliances, applications, and functions
Topic 2	• Cloud concepts and connectivity options, and Common networking ports.
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	• Networking Concepts: For network administrators and IT support professionals, this domain covers

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CompTIA Network+ Certification Exam Sample Questions (Q228-Q233):

NEW QUESTION # 228

Which of the following fiber connector types is the most likely to be used on a network interface card?

- A. LC
- B. MPO
- C. SC
- D. ST

Answer: A

Explanation:

Definition of Fiber Connector Types:

LC (Lucent Connector): A small form-factor fiber optic connector with a push-pull latching mechanism, commonly used for high-density applications.

SC (Subscriber Connector or Standard Connector): A larger form-factor connector with a push-pull latching mechanism, often used in datacom and telecom applications.

ST (Straight Tip): A bayonet-style connector, typically used in multimode fiber optic networks.

MPO (Multi-fiber Push On): A connector designed to support multiple fibers (typically 12 or 24 fibers), used in high-density cabling environments.

NEW QUESTION # 229

A network administrator has been tasked with configuring a network for a new corporate office. The office consists of two buildings, separated by 50 feet with no physical connectivity. The configuration must meet the following requirements:

. Devices in both buildings should be able to access the Internet.

. Security insists that all Internet traffic be inspected before entering the network.

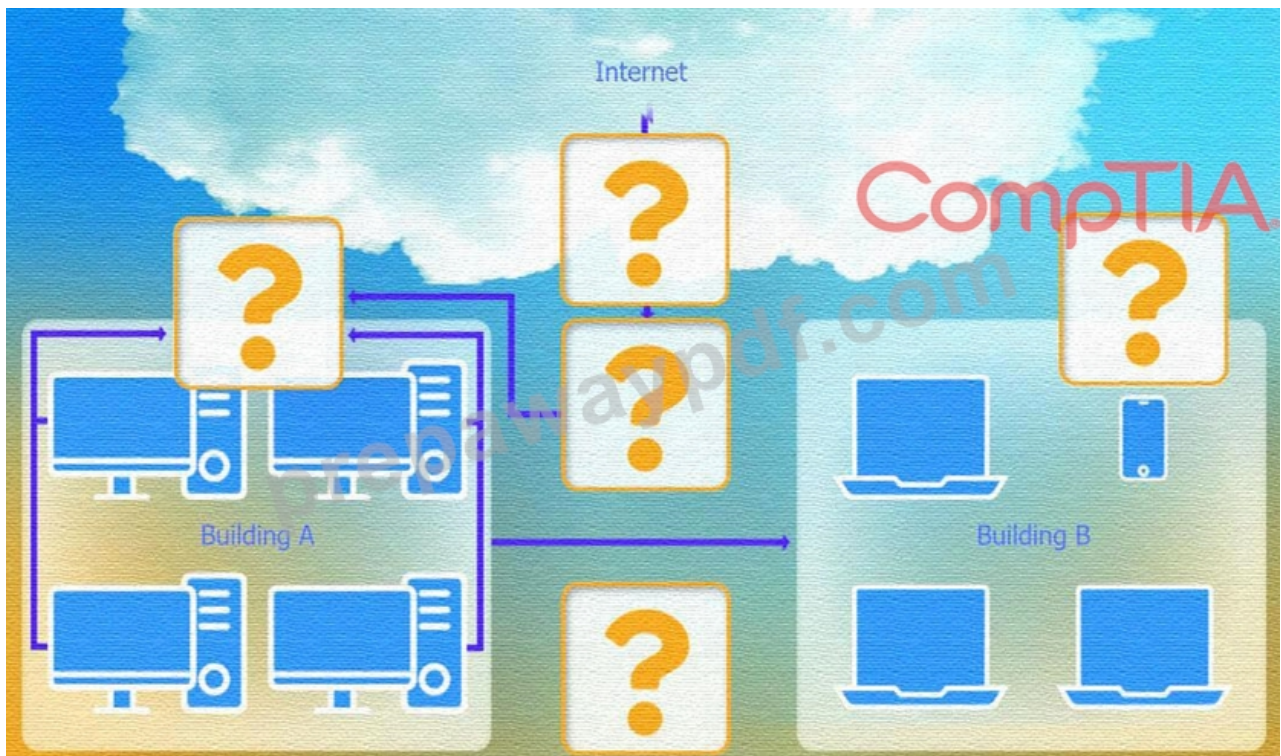
. Desktops should not see traffic destined for other devices.

INSTRUCTIONS

Select the appropriate network device for each location. If applicable, click on the magnifying glass next to any device which may require configuration updates and make any necessary changes.

Not all devices will be used, but all locations should be filled.

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



Hub
Switch
WAP
Firewall
Router
Wireless range extender

CompTIA

Wireless range extender settings



Basic Configuration

Access Point Name WAP_extender

Gateway 192.168.0.1

SSID CORP

SSID Broadcast ☒ Yes ☐ No

Wireless

Mode

Channel

Wired

Speed ☒ Auto ☐ 100 ☐ 1000

Duplex ☒ Auto ☐ Half ☐ Full

Security Configuration

Security Settings ☐ None ☐ WEP ☐ WPA ☐ WPA2 ☒ WPA2 - Enterprise

Key or Passphrase N@En71\$90*Ha

Reset to Default

Save

Close

Firewall



Rule Name	Source	Destination	Service	Action
DNS Rule	192.168.0.1/24	ANY	DNS	PERMIT
HTTPS Outbound	192.169.0.1/24	ANY	HTTPS	PERMIT
Management	ANY	192.168.0.1/24	SSH	PERMIT
HTTPS Inbound	ANY	192.168.0.1/24	HTTPS	DENY
HTTP Inbound	ANY	192.168.0.1/24	HTTP	DENY

Reset to Default

Save

Close

WAP Settings

Basic Configuration

Access Point Name

WAP1

Gateway

192.168.0.1

SSID

CORP

SSID Broadcast

☒ Yes
 ☐ No

Wireless

Mode

G

Channel

1

Wired

Speed

☒ Auto
 ☐ 100
 ☐ 1000

Duplex

☒ Auto
 ☐ Half
 ☐ Full

Security Configuration

Security Settings

☐ None
 ☐ WEP
 ☐ WPA
 ☐ WPA2
 ☒ WPA2 - Enterprise

Key or Passphrase

S3cretkey!

Reset to Default

Save

Close

Answer:

Explanation:

See the step by step complete solution below.

Explanation:

- * Devices in both buildings should be able to access the Internet.
- * Security insists that all Internet traffic be inspected before entering the network.
- * Desktops should not see traffic destined for other devices.

Here is the corrected layout with explanation:

- * Building A:
 - * Switch: Correctly placed to connect all desktops.
 - * Firewall: Correctly placed to inspect all incoming and outgoing traffic.
- * Building B:
 - * Switch: Not needed. Instead, place a Wireless Access Point (WAP) to provide wireless connectivity for laptops and mobile devices.
- * Between Buildings:
 - * Wireless Range Extender: Correctly placed to provide connectivity between the buildings wirelessly.
- * Connection to the Internet:
 - * Router: Correctly placed to connect to the Internet and route traffic between the buildings and the Internet.
 - * Firewall: The firewall should be placed between the router and the internal network to inspect all traffic before it enters the network.

Corrected Setup:

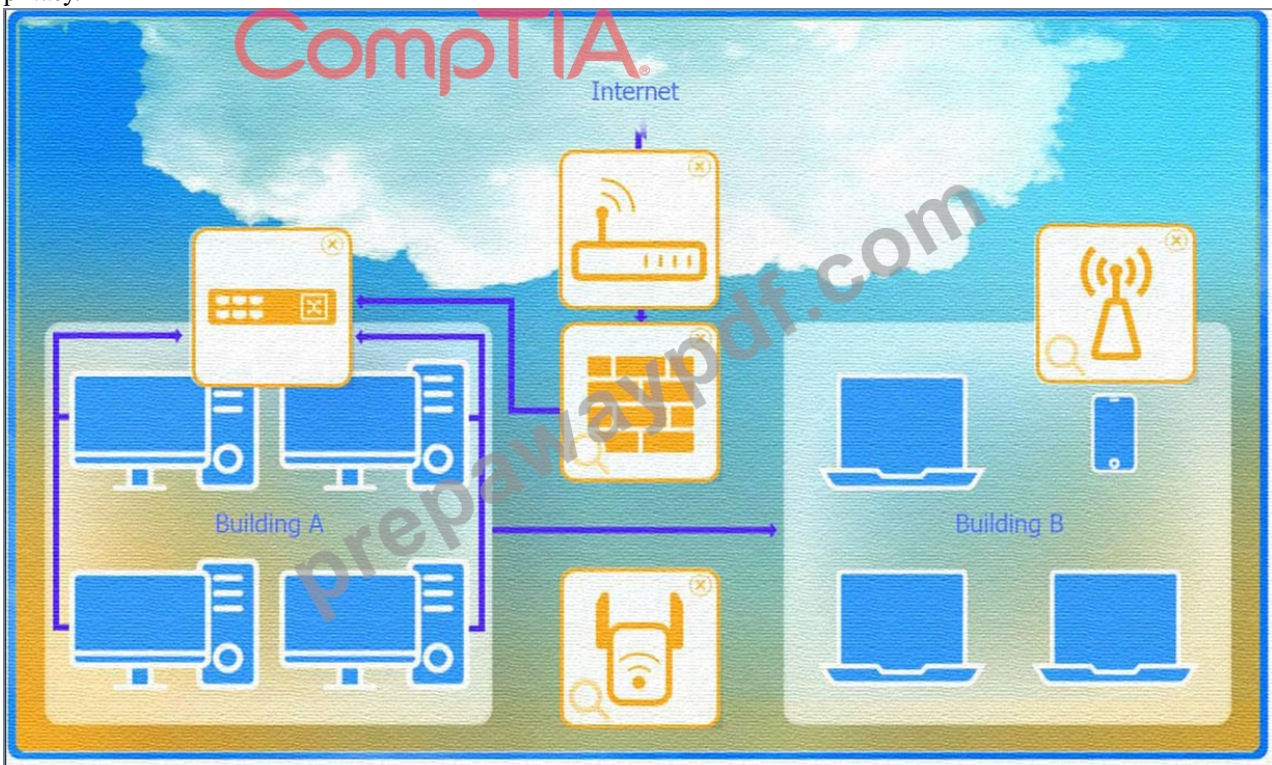
- * Top-left (Building A): Switch
- * Bottom-left (Building A): Firewall (inspect traffic before it enters the network)
- * Top-middle (Internet connection): Router
- * Bottom-middle (between buildings): Wireless Range Extender
- * Top-right (Building B): Wireless Access Point (WAP)

In this corrected setup, the WAP in Building B will connect wirelessly to the Wireless Range Extender, which is connected to the Router. The Router is connected to the Firewall to ensure all traffic is inspected before it enters the network.

Configuration for Wireless Range Extender:

- * SSID: CORP
- * Security Settings: WPA2 or WPA2 - Enterprise
- * Key or Passphrase: [Enter a strong passphrase]
- * Mode: [Set based on your network plan]
- * Channel: [Set based on your network plan]
- * Speed: Auto
- * Duplex: Auto

With these settings, both buildings will have secure access to the Internet, and all traffic will be inspected by the firewall before entering the network. Desktops and other devices will not see traffic intended for others, maintaining the required security and privacy.



To configure the wireless range extender for security, follow these steps:

- * SSID (Service Set Identifier):
- * Ensure the SSID is set to "CORP" as shown in the exhibit.
- * Security Settings:
- * WPA2 or WPA2 - Enterprise: Choose one of these options for stronger security. WPA2- Enterprise provides more robust security with centralized authentication, which is ideal for a corporate environment.
- * Key or Passphrase:
- * If you select WPA2, enter a strong passphrase in the "Key or Passphrase" field.
- * If you select WPA2 - Enterprise, you will need to configure additional settings for authentication servers, such as RADIUS, which is not shown in the exhibit.
- * Wireless Mode and Channel:
- * Set the appropriate mode and channel based on your network design and the environment to avoid interference. These settings are not specified in the exhibit, so set them according to your network plan.
- * Wired Speed and Duplex:
- * Set the speed to "Auto" unless you have specific requirements for 100 or 1000 Mbps.
- * Set the duplex to "Auto" unless you need to specify half or full duplex based on your network equipment.
- * Save Configuration:
- * After making the necessary changes, click the "Save" button to apply the settings.

Here is how the configuration should look after adjustments:

- * SSID: CORP
- * Security Settings: WPA2 or WPA2 - Enterprise
- * Key or Passphrase: [Enter a strong passphrase]
- * Mode: [Set based on your network plan]
- * Channel: [Set based on your network plan]
- * Speed: Auto
- * Duplex: Auto

Once these settings are configured, your wireless range extender will provide secure connectivity for devices in both buildings. Firewall setting to ensure complete compliance with the requirements and best security practices, consider the following adjustments and additions:

- * DNS Rule: This rule allows DNS traffic from the internal network to any destination, which is fine.
- * HTTPS Outbound: This rule allows HTTPS traffic from the internal network (assuming 192.169.0.1 /24 is a typo and should be 192.168.0.1/24) to any destination, which is also good for secure web browsing.
- * Management: This rule allows SSH access to the firewall for management purposes, which is necessary for administrative tasks.
- * HTTPS Inbound: This rule denies inbound HTTPS traffic to the internal network, which is good unless you have a web server that

needs to be accessible from the internet.

- * HTTP Inbound: This rule denies inbound HTTP traffic to the internal network, which is correct for security purposes.

Suggested Additional Settings:

- * Permit General Outbound Traffic: Allow general outbound traffic for web access, email, etc.

- * Block All Other Traffic: Ensure that all other traffic is blocked to prevent unauthorized access.

Firewall Configuration Adjustments:

- * Correct the Network Typo:

- * Ensure that the subnet 192.169.0.1/24 is corrected to 192.168.0.1/24.

- * Permit General Outbound Traffic:

- * Rule Name: General Outbound

- * Source: 192.168.0.1/24

- * Destination: ANY

- * Service: ANY

- * Action: PERMIT

- * Deny All Other Traffic:

- * Rule Name: Block All

- * Source: ANY

- * Destination: ANY

- * Service: ANY

- * Action: DENY

Here is how your updated firewall settings should look:

Rule Name

Source

Destination

Service

Action

DNS Rule

192.168.0.1/24

ANY

DNS

PERMIT

HTTPS Outbound

192.168.0.1/24

ANY

HTTPS

PERMIT

Management

ANY

192.168.0.1/24

SSH

PERMIT

HTTPS Inbound

ANY

192.168.0.1/24

HTTPS

DENY

HTTP Inbound

ANY

192.168.0.1/24

HTTP

DENY

General Outbound

192.168.0.1/24

ANY

ANY

PERMIT

Block All

ANY

ANY

ANY

DENY

These settings ensure that:

- * Internal devices can access DNS and HTTPS services externally.
- * Management access via SSH is permitted.
- * Inbound HTTP and HTTPS traffic is denied unless otherwise specified.
- * General outbound traffic is allowed.
- * All other traffic is blocked by default, ensuring a secure environment.

Make sure to save the settings after making these adjustments.

NEW QUESTION # 230

Which of the following ports is commonly used for DHCPDISCOVER call requests for a new machine on a network?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: D

Explanation:

DHCPDISCOVER messages originate from the client using UDP port 68, which is the client-side port used in DHCP communications during the address acquisition process.

NEW QUESTION # 231

Which of the following explains what happens if a packet is lost in transit when using UDP?

- A. Some applications will recognize the loss and initiate a resend of the packet if necessary.
- B. If the sender does not receive a UDP acknowledgement, the packet will be resent.
- C. IP uses the TTL field to track packet hops and will resend the packet if necessary.
- D. The data link layer will recognize the error and resend the packet.

Answer: A

Explanation:

UDP is a connection-less, "fire-and-forget" protocol with no acknowledgements or built-in retransmission. When reliable delivery is required, that logic must be implemented at the application layer.

NEW QUESTION # 232

Which of the following facilities is the best example of a warm site in the event of information system disruption?

- A. A combination of public and private cloud services to restore data
- B. A full electrical infrastructure in place, but no customer devices on site
- C. A full infrastructure in place, but no current data on site
- D. A partial infrastructure, software, and data on site

Answer: C

Explanation:

A warm site typically has a full infrastructure ready, but it lacks the most up-to-date data or is not immediately operational. It requires some configuration or data restoration to become fully functional.

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NEW QUESTION # 233

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