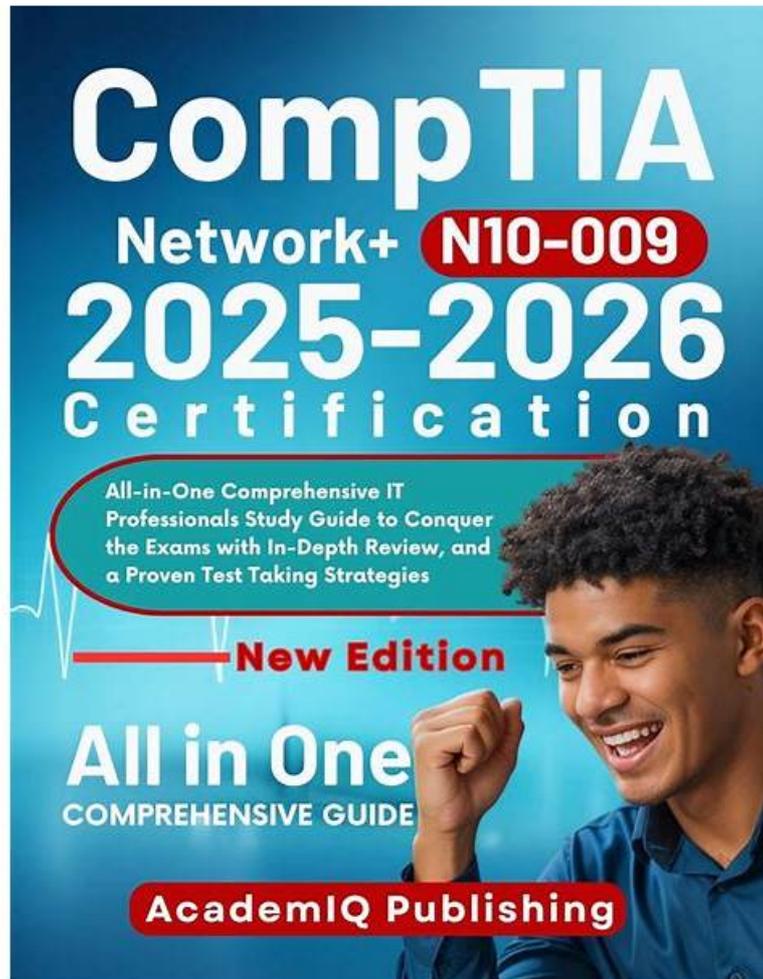


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CompTIA N10-009 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Selection and configuration of wireless devices.

Topic 2	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Network Implementation: For network technicians and junior network engineers, this section covers Characteristics of routing technologies, Configuration of switching technologies and features, and
Topic 4	<ul style="list-style-type: none"> • OSI reference model concepts, Comparison of networking appliances, applications, and functions

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CompTIA Network+ Certification Exam Sample Questions (Q323-Q328):

NEW QUESTION # 323

To reduce costs and increase mobility, a Chief Technology Officer (CTO) wants to adopt cloud services for the organization and its affiliates. To reduce the impact for users, the CTO wants key services to run from the on-site data center and enterprise services to run in the cloud. Which of the following deployment models is the best choice for the organization?

- A. Private
- B. Public
- **C. Hybrid**
- D. SaaS

Answer: C

Explanation:

A hybrid cloud deployment model is the best choice for the CTO's requirements. It allows the organization to run key services from the on-site data center while leveraging the cloud for enterprise services. This approach provides flexibility, scalability, and cost savings, while also minimizing disruptions to users by keeping critical services local. The hybrid model integrates both private and public cloud environments, offering the benefits of both.

NEW QUESTION # 324

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.



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 # 325

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

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

Answer: F

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 # 326

Which of the following network cables involves bouncing light off of protective cladding?

- A. Twinaxial
- **B. Multimode**
- C. Single-mode
- D. Coaxial

Answer: B

Explanation:

Comprehensive and Detailed Explanation (aligned to N10-009):

Multimode fiber uses multiple paths (modes) of light that bounce off the cladding to travel through the fiber. This is effective for shorter distances but more prone to dispersion.

A . Twinaxial is copper, not fiber.

B . Coaxial carries electrical signals, not light.

C . Single-mode fiber uses a single light path directly through the core without bouncing.

Reference (CompTIA Network+ N10-009):

Domain: Networking Concepts - Fiber optics: single-mode vs. multimode.

NEW QUESTION # 327

After a recent power outage, users are reporting performance issues accessing the application servers.

Wireless users are also reporting intermittent Internet issues.

INSTRUCTIONS

Click on each tab at the top of the screen. Select a widget to view information, then use the drop-down menus to answer the associated questions. 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.

Explanation:

Network Health:

WAN 2 appears to have a lower average latency and loss percentage, which would make it the preferred WAN station for VoIP traffic. VoIP traffic requires low latency and packet loss to ensure good voice quality and reliability. WAN 1 seems to have higher RAM and processor usage, which could also affect the performance of VoIP traffic.

Here 's the summary of the key metrics for WAN 1 and WAN 2 from the image provided:

WAN 1:

Uplink Speed: 10G

Total Usage: 26.969GB Up / 1.748GB Down

Average Throughput: 353MBps Up / 23.42MBps Down

Loss: 2.51%

Average Latency: 24ms

Jitter: 9.5ms

WAN 2:

Uplink Speed: 1G

Total Usage: 930GB Up / 138GB Down

Average Throughput: 12.21MBps Up / 1.82MBps Down

Loss: 0.01%

Average Latency: 11ms

Jitter: 3.9ms

For VoIP traffic, low latency and jitter are particularly important to ensure voice quality. While WAN 1 has higher bandwidth and throughput, it also has higher latency and jitter compared to WAN 2. However, WAN 2 has much lower loss, lower latency, and lower jitter, which are more favorable for VoIP traffic that is sensitive to delays and variation in packet arrival times.

Given this information, WAN 2 would generally be preferred for VoIP traffic due to its lower latency, lower jitter, and significantly lower loss percentage, despite its lower bandwidth compared to WAN 1. The high bandwidth of WAN 1 may be more suitable for other types of traffic that are less sensitive to latency and jitter, such as bulk data transfers.

Device Monitoring:

the device that is experiencing connectivity issues is the APP Server or Router 1, which has a status of Down.

This means that the server is not responding to network requests or sending any data. You may want to check the physical

connection, power supply, and configuration of the APP Server to troubleshoot the problem.
A screenshot of a computer AI-generated content may be incorrect.

NEW QUESTION # 328

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