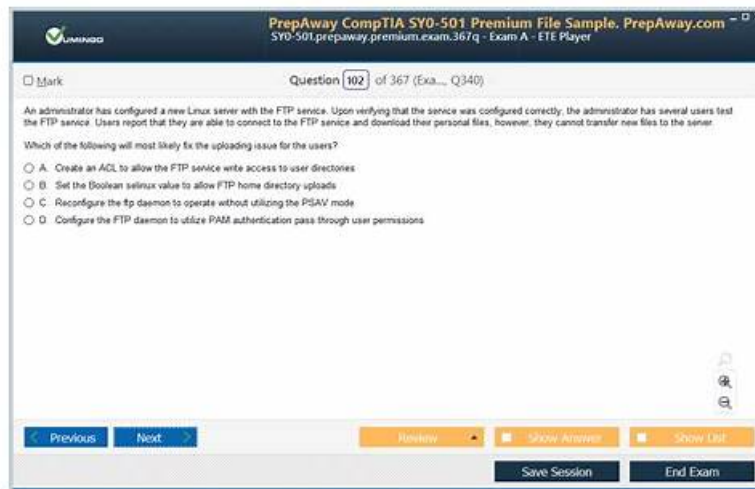


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## CompTIA Network+ Certification Exam Sample Questions (Q482-Q487):

### NEW QUESTION # 482

Which of the following is used to estimate the average life span of a device?

- A. MTTR
- B. RPO
- **C. MTBF**
- D. RTO

**Answer: C**

Explanation:

Understanding MTBF:

Mean Time Between Failures (MTBF): A reliability metric that estimates the average time between successive failures of a device or system.

Calculation and Importance:

Calculation: MTBF is calculated as the total operational time divided by the number of failures during that period.

Usage: Used by manufacturers and engineers to predict the lifespan and reliability of a device, helping in maintenance planning and lifecycle management.

Comparison with Other Metrics:

RTO (Recovery Time Objective): The maximum acceptable time to restore a system after a failure.

RPO (Recovery Point Objective): The maximum acceptable amount of data loss measured in time.

MTTR (Mean Time to Repair): The average time required to repair a device or system and return it to operational status.

Application:

MTBF is crucial for planning maintenance schedules, spare parts inventory, and improving the overall reliability of systems.

Reference:

CompTIA Network+ study materials on reliability and maintenance metrics.

### NEW QUESTION # 483

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 # 484**

A company experiences an incident involving a user who connects an unmanaged switch to the network.

Which of the following technologies should the company implement to help avoid similar incidents without conducting an asset inventory?

- A. Port security

- B. MAC filtering
- C. 802.1X
- D. Screened subnet

**Answer: A**

Explanation:

Port security is a Layer 2 security feature that restricts the number of devices connecting to a network switch port. It helps prevent unauthorized devices, such as an unmanaged switch, from being connected to the network.

How Port Security Works:

Limits the number of MAC addresses that can connect to a port.

Can shut down or restrict the port if an unauthorized device is detected.

Prevents users from plugging in unauthorized networking equipment (e.g., unmanaged switches, hubs).

Incorrect Options:

A:Screened Subnet: A screened subnet (DMZ) is used for isolating external-facing servers, not for controlling unauthorized network connections.

B:802.1X: Provides authentication for devices but requires a RADIUS server, which is a more complex solution than port security.

C:MAC Filtering: Controls which MAC addresses can connect but is difficult to manage and can be spoofed.

### NEW QUESTION # 485

A network engineer receives a vendor alert regarding a vulnerability in a router CPU. Which of the following should the engineer do to resolve the issue?

- A. Patch the OS.
- B. Replace the system board.
- C. Isolate the system.
- **D. Update the firmware.**

**Answer: D**

Explanation:

\* Understanding the Vulnerability:

\* Vulnerabilities in the router CPU can be exploited to cause performance degradation, unauthorized access, or other security issues.

\* Firmware Update:

\* Firmware Role: The firmware is low-level software that controls the hardware of a device.

Updating the firmware can address vulnerabilities by providing patches and enhancements from the manufacturer.

\* Procedure: Download the latest firmware from the vendor's website, follow the manufacturer's instructions to apply the update, and verify that the update resolves the vulnerability.

\* Comparison with Other Options:

\* Replace the System Board: This is a costly and often unnecessary step if the issue can be resolved with a firmware update.

\* Patch the OS: Patching the OS is relevant for devices with a full operating system but not directly applicable to addressing a CPU vulnerability on a router.

\* Isolate the System: Temporarily isolating the system can mitigate immediate risk but does not resolve the underlying vulnerability.

\* Best Practice:

\* Regularly check for and apply firmware updates to ensure that network devices are protected against known vulnerabilities.

### NEW QUESTION # 486

A group of users cannot connect to network resources. The technician runs ipconfig from one user's device and is able to ping the gateway shown from the command. Which of the following is most likely preventing the users from accessing network resources?

- **A. Rogue DHCP**
- B. VLAN hopping
- C. Distributed DoS
- D. Evil twin

**Answer: A**

Explanation:

A rogue DHCP server occurs when an unauthorized or misconfigured DHCP server assigns incorrect IP addresses, default gateways, or DNS settings to clients.

\*In this scenario:

\*The user can ping the gateway, meaning local network communication is working.

\*However, they cannot access network resources, which suggests incorrect IP configuration (likely due to a rogue DHCP server assigning the wrong gateway or DNS).

\*Why not the other options?

\*VLAN hopping (A): This is an attack that exploits VLAN configurations to gain access to unauthorized VLANs. It would not typically cause multiple users to lose network access.

\*Distributed DoS (C): A DDoS attack floods a network or service with traffic, but this issue is more likely misconfigured IP settings than an actual attack.

\*Evil twin (D): This refers to a fraudulent Wi-Fi network mimicking a legitimate one. Since the users are on a wired network (ipconfig output checked), this is not applicable.

## NEW QUESTION # 487

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