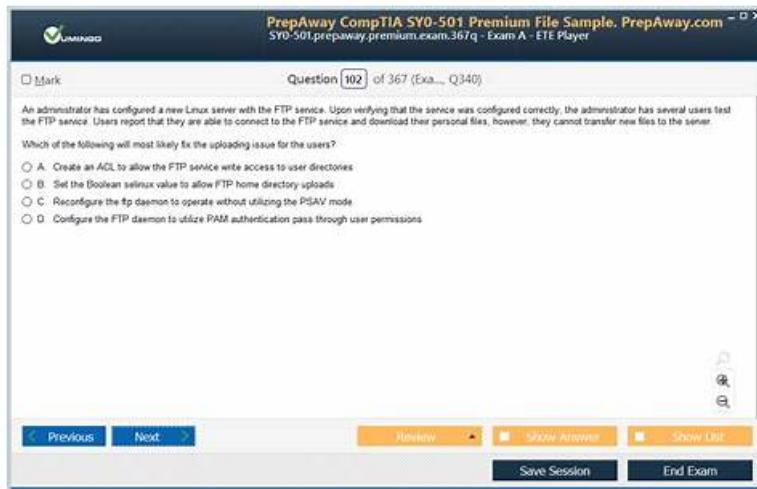


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CompTIA Network+ Certification Exam Sample Questions (Q251-Q256):

NEW QUESTION # 251

A network engineer wants to implement a new IDS between the switch and a router connected to the LAN. The engineer does not want to introduce any latency by placing the IDS in line with the gateway. The engineer does want to ensure that the IDS sees all packets without any loss. Which of the following is the best way for the engineer to implement the IDS?

- A. Use a port mirror.
- B. Use Nmap software.
- C. Use a protocol analyzer.
- D. Use a network tap.

Answer: A

Explanation:

To ensure that an IDS sees all packets without any loss and without introducing latency, the best approach is to use a port mirror,

also known as a SPAN (Switched Port Analyzer) port. Port mirroring copies network packets seen on one switch port (or an entire VLAN) to another port where the IDS is connected. This method allows the IDS to monitor traffic passively without being in the direct path of network traffic, thus avoiding any additional latency.

Reference: CompTIA Network+ Certification Exam Objectives - Network Security section.

NEW QUESTION # 252

A technician needs to set up a wireless connection that utilizes MIMO on non-overlapping channels. Which of the following would be the best choice?

- A. 802.11g
- B. 802.11b
- **C. 802.11n**
- D. 802.11a

Answer: C

Explanation:

The 802.11n standard supports MIMO (Multiple Input Multiple Output), which allows multiple antennas to increase data throughput and improve reliability. Additionally, it uses non-overlapping channels in the 5 GHz band (and optionally the 2.4 GHz band), making it a good choice for high-speed, interference-resistant wireless connections. (Reference: CompTIA Network+ Study Guide, Chapter on Wireless Technologies)

NEW QUESTION # 253

A network administrator wants to configure a backup route in case the primary route fails. A dynamic routing protocol is not installed on the router. Which of the following routing features should the administrator choose to accomplish this task?

- **A. Administrative distance**
- B. Neighbor adjacency
- C. Link state flooding
- D. Hop count

Answer: A

Explanation:

* Introduction to Administrative Distance

* Administrative distance (AD) is a value used by routers to rank routes from different routing protocols. AD represents the trustworthiness of the source of the route. Lower AD values are more preferred. If a router has multiple routes to a destination from different sources, it will choose the route with the lowest AD.

* Static Routes and Backup Routes

* When a dynamic routing protocol is not used, static routes can be employed. Static routes are manually configured routes. To ensure a backup route, multiple static routes to the same destination can be configured with different AD values.

* Configuring Static Routes with Administrative Distance

* The primary route is configured with a lower AD value, making it the preferred route. The backup route is configured with a higher AD value. In the event of the primary route failure, the router will then use the backup route.

* Example Configuration:

plaintext

Copy code

```
ip route 192.168.1.0 255.255.255.0 10.0.0.1 1
```

```
ip route 192.168.1.0 255.255.255.0 10.0.0.2 10
```

* In the above example, 192.168.1.0/24 is the destination network.

* 10.0.0.1 is the next-hop IP address for the primary route with an AD of 1.

* 10.0.0.2 is the next-hop IP address for the backup route with an AD of 10.

* Verification:

* After configuration, use the `show ip route` command to verify that the primary route is in use and the backup route is listed as a candidate for use if the primary route fails.

References:

* CompTIA Network+ guide explains the concept of administrative distance and its use in static routing configuration (see pageRef 9†Basic Configuration Commands).

NEW QUESTION # 254

A client with a 2.4GHz wireless network has stated that the entire office is experiencing intermittent issues with laptops after the WAP was moved. Which of the following is the most likely reason for these issues?

- A. The network uses a non-overlapping channel.
- B. The network has excessive noise.
- C. A microwave is in the office.
- D. The signal is reflecting too much.

Answer: C

Explanation:

Microwaves are known to interfere with the 2.4GHz frequency, which is the same frequency used by many wireless networks. This can cause signal degradation and intermittent connectivity issues, especially if the WAP is placed near such devices.

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NEW QUESTION # 255

A network technician needs to install patch cords from the UTP patch panel to the access switch for a newly occupied set of offices. The patch panel is not labeled for easy jack identification. Which of the following tools provides the easiest way to identify the appropriate patch panel port?

- A. Cable tester
- B. Visual fault locator
- C. Toner
- D. Laptop

Answer: C

Explanation:

A toner probe, often referred to as a toner and probe kit, is the easiest and most effective tool for identifying individual cables in a bundle, especially in situations where the patch panel is not labeled. The toner sends an audible tone through the cable, and the probe detects the tone at the other end, allowing the technician to quickly identify the correct cable.

Functionality: The toner generates a tone that travels along the cable. When the probe is placed near the correct cable, it detects the tone and emits a sound.

Ease of Use: Toner probes are straightforward to use, even in environments with many cables, making them ideal for identifying cables in unlabeled patch panels.

Efficiency: This method is much faster and more reliable than manual tracing, especially in complex setups.

Network Reference:

CompTIA Network+ N10-007 Official Certification Guide: Details tools used for cable identification and troubleshooting.

Cisco Networking Academy: Provides training on using toner probes and other cable testing tools.

Network+ Certification All-in-One Exam Guide: Explains the use of different tools for network cable identification and management.

NEW QUESTION # 256

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