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Cisco Certified Support Technician (CCST) Networking Sample Questions (Q18-Q23):

NEW QUESTION # 18

What is the purpose of assigning an IP address to the management VLAN interface on a Layer 2 switch?

- A. To enable the switch to provide DHCP services to other switches in the network
- **B. To enable access to the CLI on the switch through Telnet or SSH**
- C. To enable the switch to act as a default gateway for the attached devices
- D. To enable the switch to resolve URLs for the attached the devices

Answer: B

Explanation:

The primary purpose of assigning an IP address to the management VLAN interface on a Layer 2 switch is to facilitate remote management of the switch. By configuring an IP address on the management VLAN, network administrators can access the switch's Command Line Interface (CLI) remotely using protocols such as Telnet or Secure Shell (SSH). This allows for convenient configuration changes, monitoring, and troubleshooting without needing physical access to the switch.

References :=

*Understanding the Management VLAN

*Cisco - VLAN Configuration Guide

*Remote Management of Switches

Assigning an IP address to the management VLAN interface (often the VLAN 1 interface by default) on a Layer 2 switch allows network administrators to remotely manage the switch using protocols such as Telnet or SSH. This IP address does not affect the switch's ability to route traffic between VLANs but provides a means to access and configure the switch through its Command Line Interface (CLI).

*A: The switch does not act as a default gateway; this is typically a function of a Layer 3 device like a router.

*B: The switch does not resolve URLs; this is typically a function of DNS servers.

*C: The switch can relay DHCP requests but does not typically provide DHCP services itself; this is usually done by a dedicated DHCP server or router.

Thus, the correct answer is D. To enable access to the CLI on the switch through Telnet or SSH.

References :=

*Cisco VLAN Management Overview

*Cisco Catalyst Switch Management

NEW QUESTION # 19

You purchase a new Cisco switch, turn it on, and connect to its console port. You then run the following command:

```
#show running-config | section include interface
interface GigabitEthernet0/1
!
interface GigabitEthernet0/2
!
<output omitted>
```

For each statement about the output, select True or False.

Note: You will receive partial credit for each correct selection.

The two interfaces are administratively shut down.

True

False

☐☐

The two interfaces have default IP addresses assigned.

☐☐

The two interfaces can communicate over Layer 2.

☐☐

Answer:

Explanation:

The two interfaces are administratively shut down.

True



False



The two interfaces have default IP addresses assigned.



The two interfaces can communicate over Layer 2.



Explanation:

* The two interfaces are administratively shut down:

* False: The output does not show any "shutdown" command under the interfaces, which would indicate that they are administratively shut down. Therefore, they are likely in their default state, which is administratively up.

* The two interfaces have default IP addresses assigned:

* False: The output does not show any IP address configuration. In the default state, interfaces do not have IP addresses assigned unless explicitly configured.

* The two interfaces can communicate over Layer 2:

* True: By default, interfaces on a switch are Layer 2 interfaces capable of forwarding Ethernet frames. As there is no configuration provided that changes this, it can be assumed they can communicate over Layer 2.

* Interface Status: The absence of the "shutdown" command means the interfaces are not administratively shut down.

* IP Address Assignment: There is no evidence in the output that IP addresses have been assigned to the interfaces, which would typically be shown as "ip address" entries.

* Layer 2 Communication: Switch interfaces in their default state operate at Layer 2, enabling them to forward Ethernet frames and participate in Layer 2 communication.

References:

* Cisco IOS Interface Configuration: Cisco Interface Configuration

* Understanding Cisco Switch Interfaces: Cisco Switch Interfaces

NEW QUESTION # 20

What is the most compressed valid format of the IPv6 address 2001:0db8:0000:0016:0000:001b:2000:0056?

- A. 2001:db8::16::1b:2000:56
- B. 2001:db8::16::1b2:56
- C. 2001:db8:16::1b2:56
- **D. 2001:db8:0:16::1b:2000:56**

Answer: D

Explanation:

IPv6 addresses can be compressed by removing leading zeros and replacing consecutive groups of zeros with a double colon (::).

Here's how to compress the address 2001:0db8:0000:0016:0000:001b:2000:0056:

* Remove leading zeros from each segment:

* 2001:db8:0000:0016:0000:001b:2000:0056 becomes 2001:db8:0:16:0:1b:2000:56

* Replace the longest sequence of consecutive zeros with a double colon (::). In this case, the two consecutive zeros between the 16 and 1b:

* 2001:db8:0:16::1b:2000:56

Thus, the most compressed valid format of the IPv6 address is 2001:db8:0:16::1b:2000:56.

References :=

* Cisco Learning Network

* IPv6 Addressing (Cisco)

NEW QUESTION # 21

HOTSPOT

You plan to use a network firewall to protect computers at a small office. For each statement about firewalls, select True or False.

Note: You will receive partial credit for each correct selection.

	True	False
A firewall can direct all web traffic to a specific IP address.	☐	☐
A firewall can block traffic to specific ports on internal computers.	☐	☐
A firewall can prevent specific apps from running on a computer.	☐	☐

Answer:

Explanation:

	True	False
A firewall can direct all web traffic to a specific IP address.	☒	☐
A firewall can block traffic to specific ports on internal computers.	☒	☐
A firewall can prevent specific apps from running on a computer.	☐	☒

Explanation:

A firewall can direct all web traffic to a specific IP address.

True: Firewalls can be configured to perform Network Address Translation (NAT) and port forwarding, which can direct all web traffic (typically on port 80 and 443) to a specific internal IP address.

A firewall can block traffic to specific ports on internal computers.

True: Firewalls can be configured with access control lists (ACLs) or rules to block traffic to specific ports on internal computers, enhancing security by restricting unwanted or harmful traffic.

A firewall can prevent specific apps from running on a computer.

False: Firewalls typically control traffic flow and do not prevent specific applications from running on a computer. Application control is usually managed by endpoint security software or application control systems.

Directing Web Traffic: Firewalls can manage traffic redirection using NAT and port forwarding rules to route web traffic to designated servers or devices within the network.

Blocking Specific Ports: Firewalls can enforce security policies by blocking or allowing traffic based on port numbers, ensuring that only permitted traffic reaches internal systems.

Application Control: While firewalls manage network traffic, preventing applications from running typically requires software specifically designed for endpoint protection and application management.

Reference: Understanding Firewalls: Firewall Capabilities

Network Security Best Practices: Network Security Guide

NEW QUESTION # 22

Which wireless security option uses a pre-shared key to authenticate clients?

- A. 802.1x
- B. 802.1q
- C. WPA2-Enterprise
- D. WPA2-Personal

Answer: D

Explanation:

WPA2-Personal, also known as WPA2-PSK (Pre-Shared Key), is the wireless security option that uses a pre-shared key to authenticate clients. This method is designed for home and small office networks and doesn't require an authentication server. Instead, every user on the network uses the same key or passphrase to connect.

Reference: =

* What is a Wi-Fi Protected Access Pre-Shared Key (WPA-PSK)?

* Exploring WPA-PSK and WiFi Security

* WPA2-Personal: This wireless security option uses a pre-shared key (PSK) for authentication. Each client that connects to the network must use this key to gain access. It is designed for home and small office networks where simplicity and ease of use are important.

* WPA2-Enterprise: Unlike WPA2-Personal, WPA2-Enterprise uses 802.1x authentication with an authentication server (such as RADIUS) and does not rely on a pre-shared key.

* 802.1x: This is a network access control protocol for LANs, particularly wireless LANs. It provides an authentication mechanism to devices wishing to attach to a LAN or WLAN.

* 802.1q: This is a networking standard that supports VLAN tagging on Ethernet networks and is not related to wireless security. Reference:

* Cisco Documentation on WPA2 Security: Cisco WPA2

* Understanding Wireless Security: Wireless Security Guide

NEW QUESTION # 23

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