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ExamCost provides proprietary preparation guides for the certification exam offered by the 100-150 exam dumps. In addition to containing numerous questions similar to the 100-150 Exam, the Cisco Certified Support Technician (CCST) Networking (100-150) exam questions are a great way to prepare for the Cisco 100-150 exam dumps.

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

NEW QUESTION # 18

A support technician examines the front panel of a Cisco switch and sees 4 Ethernet cables connected in the first four ports. Ports 1, 2, and 3 have a green LED. Port 4 has a blinking green light.

What is the state of the Port 4?

- A. Link is up and not stable.
- B. Link is up and there is no activity.
- C. Link is up with cable malfunctions.
- **D. Link is up and active.**

Answer: D

Explanation:

On a Cisco switch, a port with a blinking green LED typically indicates that the port is up (active) and is currently transmitting or receiving data. This is a normal state indicating active traffic on the port.

*A. Link is up with cable malfunctions: Usually indicated by an amber or blinking amber light.

*B. Link is up and not stable: Not typically indicated by a green blinking light.

*D. Link is up and there is no activity: Would be indicated by a solid green light without blinking.

Thus, the correct answer is C. Link is up and active.

References :=

*Cisco Switch LED Indicators

*Cisco Ethernet Switch LED Patterns

NEW QUESTION # 19

A user reports that a company website is not available. The help desk technician issues a tracert command to determine if the server hosting the website is reachable over the network. The output of the command is shown as follows:

```
C:\>tracert 192.168.1.10
Tracing route to 192.168.1.10 over a maximum of 30 hops:
 0  ms  0  ms  1  ms  192.168.5.1
 1  ms  0  ms  0  ms  10.0.1.1
 2  *    *    *    Request timed out.
 3  ms  1  ms  0  ms  10.0.0.2
 4  ms  1  ms  0  ms  192.168.1.10
```

What can you tell from the command output?

- A. Requests to the web server at 192.168.1.10 are being delayed and time out.
- B. The router at hop 3 is not forwarding packets to the IP address 192.168.1.10.
- **C. The server with the address 192.168.1.10 is reachable over the network.**
- D. The server address 192.168.1.10 is being blocked by a firewall on the router at hop 3.

Answer: C

Explanation:

The tracert command output shows the path taken to reach the destination IP address, 192.168.1.10. The command output indicates:

*Hops 1 and 2 are successfully reached.

*Hop 3 times out, meaning the router at hop 3 did not respond to the tracert request. However, this does not necessarily indicate a problem with forwarding packets, as some routers may be configured to block or not respond to ICMP requests.

*Hops 4 and 5 are successfully reached, with hop 5 being the destination IP 192.168.1.10, indicating that the server is reachable.

Thus, the correct answer is C. The server with the address 192.168.1.10 is reachable over the network.

References :=

*Cisco Traceroute Command

*Understanding Traceroute

The tracert command output indicates that the server with the address 192.168.1.10 is reachable over the network. The asterisk (*) at hop 3 suggests that the probe sent to that hop did not return a response, which could be due to a variety of reasons such as a firewall blocking ICMP packets or the router at that hop being configured not to respond to ICMP requests. However, since the subsequent hops (4 and 5) are showing response times, it means that the packets are indeed getting through and the server is reachable¹².

References :=

*How to Use Traceroute Command to Read Its Results

*How to Use the Tracert Command in Windows

NEW QUESTION # 20

During the data encapsulation process, which OSI layer adds a header that contains MAC addressing information and a trailer used for error checking?

- A. Transport
- B. Network
- C. Session
- **D. Data Link**

Answer: D

Explanation:

During the data encapsulation process, the Data Link layer of the OSI model is responsible for adding a header that contains MAC addressing information and a trailer used for error checking. The header typically includes the source and destination MAC addresses, while the trailer contains a Frame Check Sequence (FCS) which is used for error detection¹.

The Data Link layer ensures that messages are delivered to the proper device on a LAN using hardware addresses and translates messages from the Network layer into bits for the Physical layer to transmit. It also controls how data is placed onto the medium and is received from the medium through the physical hardware.

Reference: =

The OSI Model - The 7 Layers of Networking Explained in Plain English

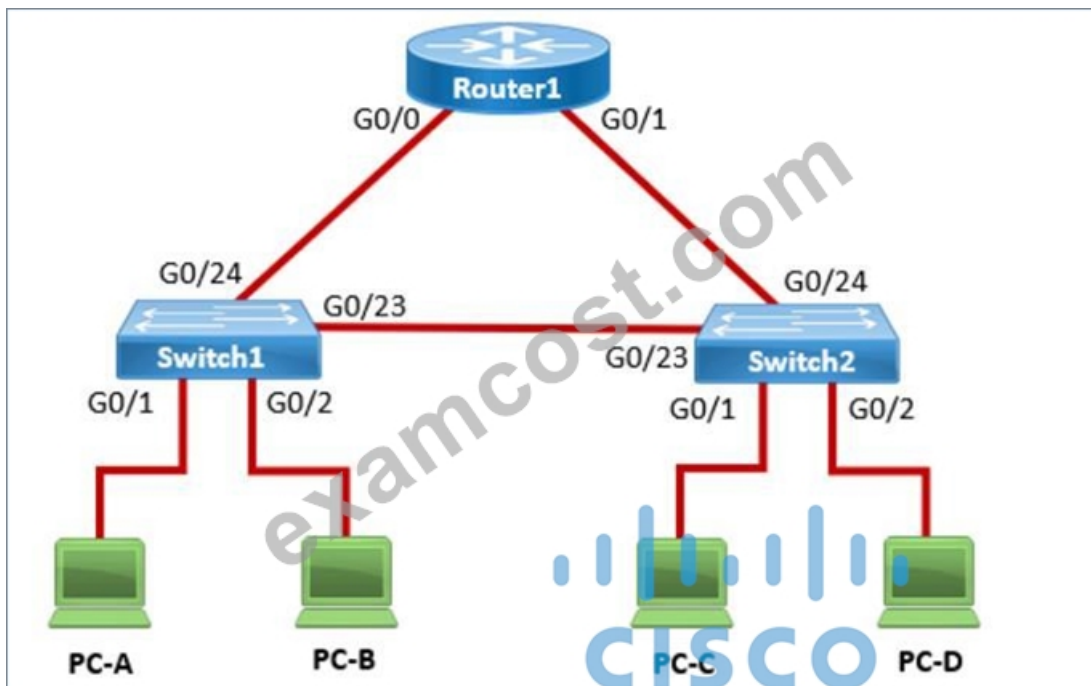
OSI Model - Network Direction

Which layer adds both header and trailer to the data?

What is OSI Model | 7 Layers Explained - GeeksforGeeks

NEW QUESTION # 21

In the network shown in the following graphic, Switch1 is a Layer 2 switch.



PC-A sends a frame to PC-C. Switch1 does not have a mapping entry for the MAC address of PC-C. Which action does Switch1 take?

- A. Switch1 queries Switch2 for the MAC address of PC-C.
- **B. Switch1 floods the frame out all active ports except port G0/1.**
- C. Switch1 drops the frame and sends an error message back to PC-A.
- D. Switch1 sends an ARP request to obtain the MAC address of PC-C.

Answer: B

Explanation:

Understanding How Layer 2 Switches Handle Unknown MAC Addresses

Switches operate at Layer 2 (Data Link Layer) of the OSI model and maintain a MAC address table (CAM table) to forward frames efficiently.

* When a switch receives a frame, it checks its MAC address table to see if it knows the destination MAC address.

* If the destination MAC address is not in the table (meaning the switch does not know which port leads to PC-C), the switch follows the flooding behavior.

What Happens When Switch1 Receives a Frame from PC-A to PC-C?

* Switch1 checks its MAC table:

* The source MAC (PC-A) is recorded in the table on port G0/1.

* The destination MAC (PC-C) is not in the table.

* Switch1 does not know where PC-C is:

* It floods the frame out of all active ports except the port it was received on (G0/1).

* This means the frame is sent to:

* Switch2 (via G0/23)

* PC-B (via G0/2)

* Switch2 receives the frame and follows the same process:

* If Switch2 has PC-C's MAC in its table, it forwards the frame appropriately.

* If not, it floods the frame again until PC-C replies.

* Once PC-C responds, Switch1 and Switch2 learn its MAC address and update their tables.

Why Other Options Are Incorrect:

A. Switch1 queries Switch2 for the MAC address of PC-C.

* Incorrect: Switches do not query other switches directly for MAC addresses. Instead, they rely on learning MAC addresses dynamically through frame forwarding.

B. Switch1 drops the frame and sends an error message back to PC-A.

* Incorrect: Switches do not drop frames for unknown MAC addresses. Instead, they flood the frames out all ports except the incoming port.

D. Switch1 sends an ARP request to obtain the MAC address of PC-C.

* Incorrect:

* ARP (Address Resolution Protocol) is only used to resolve IP addresses to MAC addresses.

* Since PC-A is sending a frame (Layer 2), not an IP packet (Layer 3), ARP is not involved here.

Conclusion

Since Switch1 does not know the destination MAC address, it floods the frame out all active ports except the port it was received on. This is the default behavior of Layer 2 switches when they encounter an unknown MAC address.

Thus, the correct answer is # C. Switch1 floods the frame out all active ports except port G0/1.

References

- * Cisco CCNA 200-301 Official Guide - MAC Address Table & Frame Forwarding
- * RFC 894 - Standard for Ethernet Frame Forwarding
- * Cisco Networking Essentials - Switch Flooding Behavior

NEW QUESTION # 22

Move the security options from the list on the left to its characteristic on the right. You may use each security option once, more than once, or not at all.

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

Move the security options from the list on the left to its characteristic on the right. You may use each security option once, more than once, or not at all.

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

Security Options	Characteristics
WEP	Uses a RADIUS server for authentication
WPA2-Personal	Uses a minimum of 40 bits for encryption
WPA2-Enterprise	Uses AES and a pre-shared key for authentication

Answer:

Explanation:

Move the security options from the list on the left to its characteristic on the right. You may use each security option once, more than once, or not at all.

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

Security Options	Characteristics
WEP	Uses a RADIUS server for authentication
WPA2-Personal	Uses a minimum of 40 bits for encryption
WPA2-Enterprise	Uses AES and a pre-shared key for authentication

Explanation:

The correct matching of the security options to their characteristics is as follows:

- * WPA2-Enterprise: Uses a RADIUS server for authentication
- * WEP: Uses a minimum of 40 bits for encryption
- * WPA2-Personal: Uses AES and a pre-shared key for authentication

Here's why each security option matches the characteristic:

- * WPA2-Enterprise uses a RADIUS server for authentication, which provides centralized Authentication, Authorization, and Accounting (AAA) management for users who connect and use a network service.
- * WEP (Wired Equivalent Privacy) is an outdated security protocol that uses a minimum of 40 bits for encryption (and up to 104 bits), which is relatively weak by today's standards.
- * WPA2-Personal (Wi-Fi Protected Access 2 - Personal) uses the Advanced Encryption Standard (AES) for encryption and a pre-shared key (PSK) for authentication, which is shared among users to access the network.

These security options are essential for protecting wireless networks from unauthorized access and ensuring data privacy.

NEW QUESTION # 23

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