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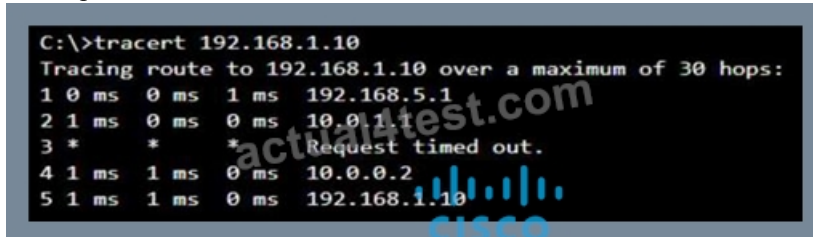
Cisco Certified Support Technician (CCST) Networking Sample Questions (Q29-Q34):

NEW QUESTION # 29
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:
1  0 ms   0 ms   1 ms   192.168.5.1
2  1 ms   0 ms   0 ms   10.0.1.1
3  *      *      *      Request timed out.
4  1 ms   1 ms   0 ms   10.0.0.2
5  1 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 server address 192.168.1.10 is being blocked by a firewall on the router at hop 3.
- C. The server with the address 192.168.1.10 is reachable over the network.
- D. The router at hop 3 is not forwarding packets to the IP address 192.168.1.10.

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.
Reference: =
* 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.
Reference: =
* How to Use Traceroute Command to Read Its Results
* How to Use the Tracert Command in Windows

NEW QUESTION # 30
An engineer configured a new VLAN named VLAN2 for the Data Center team. When the team tries to ping addresses outside VLAN2 from a computer in VLAN2, they are unable to reach them.
What should the engineer configure?

- A. Default route
- B. Static route
- C. Additional VLAN
- D. Default gateway

Answer: D

Explanation:
When devices within a VLAN are unable to reach addresses outside their VLAN, it typically indicates that they do not have a configured path to external networks. The engineer should configure a default gateway for VLAN2. The default gateway is the IP address of the router's interface that is connected to the VLAN, which will route traffic from the VLAN to other networks12.
Reference: =
* Understanding and Configuring VLAN Routing and Bridging on a Router Using the IRB Feature
* VLAN 2 not able to ping gateway - Cisco Community
* VLANs: Virtual Local Area Networks (VLANs) logically segment network traffic to improve security and performance. Devices within the same VLAN can communicate directly.
* Default Gateway: For devices in VLAN2 to communicate with devices outside their VLAN, they need a default gateway configured. The default gateway is typically a router or Layer 3 switch that routes traffic between different VLANs and subnets.
* Additional VLAN: Not needed in this scenario as the issue is related to routing traffic outside VLAN2, not creating another VLAN.
* Default Route: While a default route on the router may be necessary, the primary issue for devices within VLAN2 is to have a configured default gateway.
* Static Route: This is used on routers to manually specify routes to specific networks but does not address the need for a default gateway on the client devices.
Reference:
* Cisco VLAN Configuration Guide: Cisco VLAN Configuration
* Understanding and Configuring VLANs: VLANs Guide

NEW QUESTION # 31
How does low bandwidth affect network performance?

- A. Has no effect on latency
- B. Increases latency
- C. Decreases latency
- D. Increases throughput

Answer: B

NEW QUESTION # 32
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.

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 # 33

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

- WEP
- WPA2-Personal
- WPA2-Enterprise

Characteristics

Uses a RADIUS server for authentication	Security Option
Uses a minimum of 40 bits for encryption	Security Option
Uses AES and a pre-shared key for authentication	Security Option

Answer:

Explanation:

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 # 34
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