

# CCST-Networking Valid Dumps Sheet, Test CCST-Networking Question



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The Cisco Certified Support Technician (CCST) Networking Exam (CCST-Networking) Exam Questions offered by FreeDumps provide you with a good idea of what you can expect in the CCST-Networking exam from Cisco. All the CCST-Networking exam topics and objectives are well covered by our product. Thus, FreeDumps Cisco CCST-Networking Practice Questions are considered a very good resource that will help you in your practicing by focusing on your weak points and strengthening them to easily pass the CCST-Networking exam.

## Cisco CCST-Networking Exam Syllabus Topics:

| Topic   | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 1 | <ul style="list-style-type: none"><li>Security: Aspiring Cisco Network technicians taking the CCST-Networking exam need to describe firewall operations, foundational security concepts, and configure basic wireless security on home routers (WPAx). This ensures they can implement and understand essential security measures within a network.</li></ul>                                                                                                                  |
| Topic 2 | <ul style="list-style-type: none"><li>Standards and Concepts: The Cisco CCST-Networking exam assesses network technicians' knowledge of essential networking concepts, including identifying network building blocks, differentiating bandwidth from throughput, distinguishing various network types (LAN, WAN, MAN, CAN, PAN, WLAN), and comparing cloud versus on-premises services. It also measures understanding of common network applications and protocols.</li></ul> |
| Topic 3 | <ul style="list-style-type: none"><li>Endpoints and Media Types: This topic in the CCST-Networking Exam covers the identification of common cables and connectors used in LANs, distinguishing Wi-Fi, cellular. Additionally, it focuses on wired technologies, describing endpoint devices, and demonstrating connectivity setup and checks across multiple operating systems (Windows, Linux, Mac OS, Android, and Apple iOS).</li></ul>                                     |
| Topic 4 | <ul style="list-style-type: none"><li>Diagnosing Problems: In the CCST-Networking exam, Cisco network technicians are tested on their ability to employ troubleshooting methodologies and help desk practices, perform packet captures with Wireshark, run and interpret diagnostic commands. It also tests their skills to differentiate data collection methods for network devices, and execute basic show commands on Cisco devices.</li></ul>                             |

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## Cisco Certified Support Technician (CCST) NetworkingExam Sample Questions (Q37-Q42):

### NEW QUESTION # 37

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

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

**Answer: B**

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.

References :=

\*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.

References:

\*Cisco Documentation on WPA2 Security: Cisco WPA2

\*Understanding Wireless Security: Wireless Security Guide

### NEW QUESTION # 38

Which command will display the following output?

```
Image is command output that states the following.

Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge, S - Switch, H - Host, I - IGMP,

Device ID      Local Intfrc   Holdtme  Capability Platform Port ID
-----
esxi           Gig 0/5        177      S          VMware ES vmnic0
esxi           Gig 0/7        177      S          VMware ES vmnic1
esxi           Gig 0/6        177      S          VMware ES vmnic2
981888fc23a7   Gig 0/47       160      R S        Meraki MR Port 0
3456fecdd1d08  Gig 0/1        178      S          MS120-8LP Port 9"

CISCO
```

- **A. show cdp neighbor**
- B. show inventory
- C. show mac-address-table
- D. show ip interface

**Answer: A**

Explanation:

The command that will display the output provided, which includes capability codes, local interface details, device IDs, hold times, and platform port ID capabilities, is the show cdp neighbor command. This command is used in Cisco devices to display current

information about neighboring devices detected by Cisco Discovery Protocol (CDP), which includes details such as the interface through which the neighbor is connected, the type of device, and the port ID of the device1.

References :=

\*Cisco - show cdp neighbors

The provided output is from the Cisco Discovery Protocol (CDP) neighbor table. The show cdp neighbor command displays information about directly connected Cisco devices, including Device ID, Local Interface, Holdtime, Capability, Platform, and Port ID.

\*A. show mac-address-table: Displays the MAC address table on the switch.

\*C. show inventory: Displays information about the hardware inventory of the device.

\*D. show ip interface: Displays IP interface status and configuration.

Thus, the correct answer is B. show cdp neighbor.

References :=

\*Cisco CDP Neighbor Command

\*Understanding CDP

### NEW QUESTION # 39

Which device protects the network by permitting or denying traffic based on IP address, port number, or application?

- **A. Firewall**
- B. Intrusion detection system
- C. Access point
- D. VPN gateway

**Answer: A**

Explanation:

\* Firewall: A firewall is a network security device that monitors and controls incoming and outgoing network traffic based on predetermined security rules. It permits or denies traffic based on IP addresses, port numbers, or applications.

\* Access Point: This is a device that allows wireless devices to connect to a wired network using Wi-Fi.

It does not perform traffic filtering based on IP, port, or application.

\* VPN Gateway: This device allows for secure connections between networks over the internet, but it is not primarily used for traffic filtering based on IP, port, or application.

\* Intrusion Detection System (IDS): This device monitors network traffic for suspicious activity and policy violations, but it does not actively permit or deny traffic.

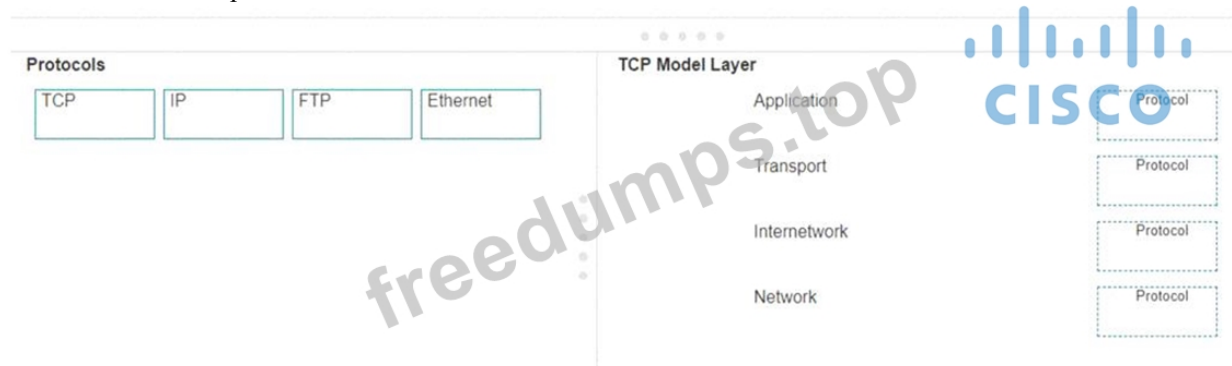
References:

\* Understanding Firewalls: Firewall Basics

### NEW QUESTION # 40

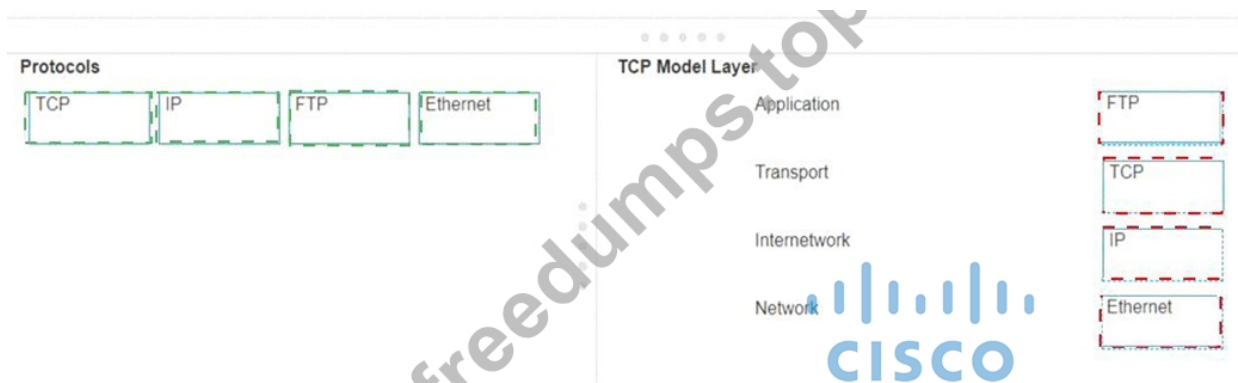
Move each protocol from the list on the left to the correct TCP/IP model layer on the right.

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



**Answer:**

Explanation:



Explanation:

Here's how each protocol aligns with the correct TCP/IP model layer:

- \* TCP (Transmission Control Protocol): This protocol belongs to the Transport layer, which is responsible for providing communication between applications on different hosts.
  - \* IP (Internet Protocol): IP is part of the Internetwork layer, which is tasked with routing packets across network boundaries to their destination.
  - \* FTP (File Transfer Protocol): FTP operates at the Application layer, which supports application and end-user processes. It is used for transferring files over the network.
  - \* Ethernet: While not a protocol within the TCP/IP stack, Ethernet is associated with the Network Interface layer, which corresponds to the link layer of the TCP/IP model and is responsible for the physical transmission of data.
- The TCP/IP model layers are designed to work collaboratively to transmit data from one layer to another, with each layer having specific protocols that perform functions necessary for the data transmission process.
- \* TCP:
    - \* TCP Model Layer: Transport
    - \* Explanation: The Transport layer is responsible for end-to-end communication and error handling. TCP (Transmission Control Protocol) operates at this layer to provide reliable, ordered, and error-checked delivery of data.
  - \* IP:
    - \* TCP Model Layer: Internetwork
    - \* Explanation: The Internetwork layer, also known as the Internet layer, is responsible for logical addressing and routing. IP (Internet Protocol) operates at this layer to route packets across networks.
  - \* FTP:
    - \* TCP Model Layer: Application
    - \* Explanation: The Application layer provides network services to applications. FTP (File Transfer Protocol) operates at this layer to transfer files between computers over a network.
  - \* Ethernet:
    - \* TCP Model Layer: Network
    - \* Explanation: The Network layer, also known as the Link layer in the TCP/IP model, is responsible for physical addressing and access to the physical medium. Ethernet operates at this layer to provide the physical and data link functions.
  - \* Transport Layer: This layer is responsible for providing communication services directly to the application processes running on different hosts. TCP is a core protocol in this layer.
  - \* Internetwork Layer: This layer is responsible for logical addressing, routing, and packet forwarding. IP is the primary protocol for this layer.
  - \* Application Layer: This layer interfaces directly with application processes and provides common network services. FTP is an example of a protocol operating in this layer.
  - \* Network Layer: In the TCP/IP model, this layer includes both the data link and physical layers of the OSI model. Ethernet is a protocol used in this layer to define network standards and communication protocols at the data link and physical levels.

References:

- \* TCP/IP Model Overview: Cisco TCP/IP Model
- \* Understanding the TCP/IP Model: TCP/IP Layers

## NEW QUESTION # 41

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 0 ms 0 ms 1 ms 192.168.5.1
 1 1 ms 0 ms 0 ms 10.0.1.1
 2 * * * Request timed out.
 3 1 ms 1 ms 0 ms 10.0.0.2
 4 1 ms 1 ms 0 ms 192.168.1.10

```

What can you tell from the command output?

- A. The server address 192.168.1.10 is being blocked by a firewall on the router at hop 3.
- B. Requests to the web server at 192.168.1.10 are being delayed and time out.
- 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 traceroute 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 reachable.

References :=

\*How to Use Traceroute Command to Read Its Results

\*How to Use the Tracert Command in Windows

## NEW QUESTION # 42

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