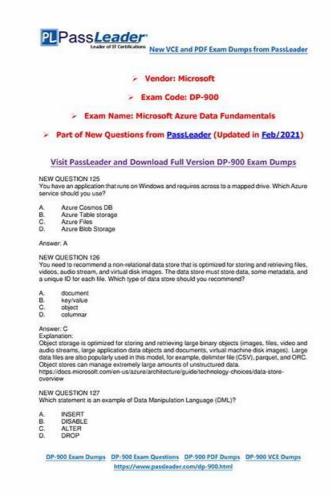
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## Cisco Certified Support Technician (CCST) Networking Sample Questions (Q16-Q21):

#### **NEW QUESTION #16**

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

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

#### Answer: A

#### Explanation:



#### OSI model

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.

#### References =

- \* 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 #17**

#### **HOTSPOT**

An app on a user's computer is having problems downloading data.

The app uses the following URL to download data: https://www.companypro.net:7100/api

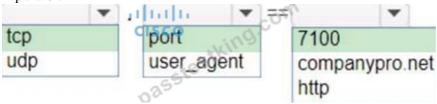
You need to use Wireshark to capture packets sent to and received from that URL.

Which Wireshark filter options would you use to filter the results? Complete the command by selecting the correct option from each drop-down list.

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



#### Explanation:



#### Explanation:

To capture packets sent to and received from the URL https://www.companypro.net:7100/api using

Wireshark, you would use the following filter options:

Protocol: tcp Filter Type: port Port Number: 7100

This filter setup in Wireshark will display all TCP packets that are sent to or received from port 7100, which is the port specified in the URL for the API service. Since HTTPS typically uses TCP as the transport layer protocol, filtering by TCP and the specific port number will help isolate the relevant packets for troubleshooting the app's data download issues.

tcp: The app is using HTTPS, which relies on the TCP protocol for communication.

port: The specific port number used by the application, which in this case is 7100.

7100: This is the port specified in the URL (https://www.companypro.net:7100/api).

This filter will capture all TCP traffic on port 7100, allowing you to analyze the packets related to the application's data download.

Reference: Wireshark Filters: Wireshark Display Filters

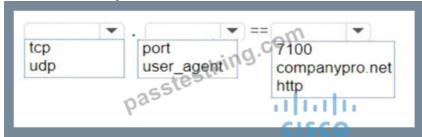
#### **NEW QUESTION #18**

An app on a user's computer is having problems downloading data. The app uses the following URL to download data: https://www.companypro.net;7100/api

You need to use Wireshark to capture packets sent to and received from that URL.

Which Wireshark filter options would you use to filter the results? Complete the command by selecting the correct option from each drop-down list.

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



#### Answer:

#### Explanation:



#### Explanation:

To capture packets sent to and received from the URL https://www.companypro.net:7100/api using Wireshark, you would use the following filter options:

- \* Protocol: tcp
- \* Filter Type: port
- \* Port Number: 7100

This filter setup in Wireshark will display all TCP packets that are sent to or received from port 7100, which is the port specified in the URL for the API service. Since HTTPS typically uses TCP as the transport layer protocol, filtering by TCP and the specific port

number will help isolate the relevant packets for troubleshooting the app's data download issues.

- \* cp: The app is using HTTPS, which relies on the TCP protocol for communication.
- \* port: The specific port number used by the application, which in this case is 7100.
- \* 7100: This is the port specified in the URL (https://www.companypro.net:7100/api).

This filter will capture all TCP traffic on port 7100, allowing you to analyze the packets related to the application's data download. References:

\* Wireshark Filters: Wireshark Display Filters

#### **NEW QUESTION #19**

Examine the following output:

```
\Admin>tracert www.cisco.com
 ver a maximum of 30 hops:
                                                                                           com [2603:6081:943f:72ec:a240:a0ff:fe67:3c14]
                           <1 ms 2603-6081-943f-72ec-a240-a0ff-fet/-c14 res6.bit com [2603:6081:943f:72ec:a240:a0ff:
16 ms 2603-90b3-0a00-01bb-0000-0000-0000-0001.ifit ginternet.com [2603:90b3:a00:1bb::1]</pre>
       <1 ms
                 <1 ms
                 11 ms
       13 ms
                                  lag-61.zblnnc1001h.netops.exchange.com [2001.db8:a000:0:4::8:d4c]
       17 ms
 3 4 5 6 7 8 9
                 25 ms
                           18 ms
                           11 ms
                                  lag-29.drhmncev02r.netops.exchange.com [2001:db8:a000:0:4::2:152]
                                   Request timed out.
                                   Request timed out.
                           27 ms lag-0.pr2.dca10.netops provider.com [2001:db8:1998:0:4::517]
       19 ms
                 18 ms
                           23 ms 2001:db8:1998:0:8::639
      21 ms
                 32 ms
                                  vlan-103.r10.spine101.iad03.fab.netarch.provider.com [2600:1408:b400:40b::1]
      16 ms
                 15 ms
                           18 ms
10
       15 ms
                 17 ms
                           22 ms vlan-110.r03.leaf101.iad03.fab.netarch.provider.com [2600:1408:b400:f03::1]
                           23 ms vlan-104 r08 tor101.iad03.fab.netarch.provider.com [2600:1408:b400:2908::1]
       17 ms
                 17 ms
                                  g2600-1408-c400-038d-0000-0000-0000-0b33.deploy.static.et.com [2600:1408:c400:38d::b33]
Trace complete.
```

Which two conclusions can you make from the output of the tracert command? Note: You will receive partial credit for each correct answer. (Choose 2.)

- A. The device sending the trace has IPv6 address 2600:1408:c400:38d :: b33.
- B. The trace failed after the fourth hop.
- C. The IPv6 address associated with the www.cisco.com server is 2600:1408: c400: 38d:: b33.
- D. The routers at hops 5 and 6 are offline.
- E. The trace successfully reached the www.cisco.com server.

#### Answer: C,E

#### Explanation:

- \* Statement A: "The trace successfully reached the www.cisco.com server." This is true as indicated by the "Trace complete" message at the end, showing that the trace has reached its destination.
- \* Statement C: 'The IPv6 address associated with the www.cisco.com server is
- 2600:1408:c400:38d::b33." This is true because the final hop in the trace, which is the destination, has this IPv6 address.
- \* Statement B: "The trace failed after the fourth hop." This is incorrect as the trace continues beyond the fourth hop, despite some intermediate timeouts.
- \* Statement D: "The routers at hops 5 and 6 are offline." This is not necessarily true. The routers might be configured to not respond to traceroute requests.
- \* Statement E: "The device sending the trace has IPv6 address 2600:1408:c400:38d::b33." This is incorrect; this address belongs to the destination server, not the sender.

Reference: \* Understanding Traceroute: Traceroute Guide

#### **NEW QUESTION #20**

What is the primary use of ICMP in network management?

- A. Assigning IP addresses
- B. Secure file transfer
- C. Translating domain names to IP addresses
- D. Error reporting and diagnostics

Answer: D

#### **NEW QUESTION #21**

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