

H12-811_V2.0 Exam Blueprint - Latest H12-811_V2.0 Exam Materials

H12-811_V2.0 Exam

QUESTION 1

As shown in the figure, there are three data packets captured by the administrator on the network.

Which of the following statements is incorrect? (Single choice question)

Source destination protocol info

10.0.12.110.0.12.2 TCP 50190->telnet SYN seq=0 win=0 len=0 MSS=1460 10.0.12.1

TCP telnet 50190->SYN ACK seq=0 Ack=1 win=8192 Len=0 MSS=1460

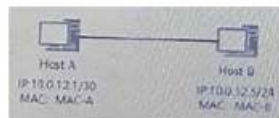
10.0.12.110.0.12.2 TCP 50190->telnet(ACK) seq=1 Ack=1 win=8192 len=0

- A. None of these three data packets contain application layer data
- B. These three data packets represent the three-way handshake process of TCP
- C. The telnet client uses port 50190 to establish a connection with the server
- D. The IP address of the telnet server is 10.0.12.1. The IP address of the telnet client is 10.0.12.2

Answer: D

QUESTION 2

As shown in the figure below, Host A and Host B cannot communicate. (True or False)



- A. True
- B. False

Answer: B

QUESTION 3

As shown in the figure, when the switch needs to forward frames with the destination mac address of 5489-98ec-f011, which of the following descriptions is correct? (Single-choice question)

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Huawei HCIA-Datacom V2.0 Sample Questions (Q60-Q65):

NEW QUESTION # 60

The figure shows the simplified topology of an enterprise campus network. On this network, the aging time of dynamic MAC address entries on switches is 300 seconds.

The administrator connects PC1 to GE1/0/1 of SW1 and successfully pings the IP address of PC2 from PC1.

Then, the administrator disconnects the Ethernet cable of PC1

from GE1/0/1 of SW1, immediately connects the cable to GE1/0/2 of SW1, and pings the IP address of PC2 from PC1. Which of the following operations does SW1 perform after receiving a data frame from PC1 when PC1 is connected to GE1/0/2 of SW1?



- A. SW1 deletes all MAC address entries and relearns them from all ports.
- **B. SW1 saves the mapping between the MAC address of PC1 and GE1/0/2 and deletes the mapping between the MAC address of PC1 and GE1/0/1.**
- C. SW1 does not update the MAC address table until the original entry ages out.
- D. SW1 saves the mapping between the MAC address of PC1 and GE1/0/1, and also keeps the mapping between the MAC address of PC1 and GE1/0/2.

Answer: B

Explanation:

An Ethernet switch learns MAC address entries dynamically by examining the source MAC address of incoming frames. When SW1 first receives frames from PC1 on GE1/0/1, it creates a MAC address table entry mapping PC1's MAC address to that port. If PC1 later sends frames that arrive on GE1/0/2, SW1 updates the learned entry to reflect the new incoming interface. Therefore, option B is correct: SW1 saves the mapping between PC1's MAC address and GE1/0/2 and removes or overwrites the old mapping associated with GE1/0/1.

Option A is incorrect because a single dynamic MAC address is not normally maintained on two different ports within the same VLAN at the same time; that would cause forwarding ambiguity. Option C is incorrect because a normal move of one MAC address does not require clearing the entire MAC table. Option D is also incorrect because switches update MAC learning dynamically upon receiving new source traffic and do not have to wait for the previous entry to age out. HCIA-Datacom uses this principle to explain MAC address learning, migration, and troubleshooting of loops or host movement in switched Ethernet networks.

NEW QUESTION # 61

During VLAN planning for a campus network, VLAN IDs for different service types must be allocated consecutively, without redundancy, to prevent omissions in future allocations.

- A. TRUE
- **B. FALSE**

Answer: B

Explanation:

This statement is false. In campus network VLAN planning, VLAN IDs do not have to be allocated strictly consecutively without any gaps. In fact, leaving some reserved VLAN IDs is often a practical and recommended design approach. VLAN planning should

focus on clarity, scalability, maintainability, and service separation, rather than on forcing all VLAN IDs to be contiguous. For example, an administrator may reserve certain VLAN ranges for user access, voice services, management, wireless services, guest access, future expansion, or specific departments. Such structured planning makes later network expansion easier and reduces the risk of service conflicts or disruptive renumbering. HCIA- Datacom emphasizes that good campus network planning should consider current requirements and future growth. Consecutive allocation may look tidy at first, but it can actually reduce flexibility and make later additions more difficult. Therefore, the idea that VLAN IDs must be assigned consecutively without redundancy to avoid omissions is not a correct design principle. Reasonable reservation and categorized allocation are often more beneficial in real enterprise campus networks.

NEW QUESTION # 62

Network administrators need to manage and maintain devices on the campus network. Which of the following protocols cannot modify device configurations, such as interface IP addresses, device names, and so on?

- A. STelnet
- B. NETCONF
- C. SNMP
- D. SFTP

Answer: D

Explanation:

The protocol that cannot directly modify device configurations such as interface IP addresses or device names is SFTP, so option C is correct. SFTP is a secure file transfer protocol that runs over SSH and is mainly used to upload, download, and manage files between a client and a network device. It is commonly used for tasks such as transferring configuration files, system software, patches, or log files, but it does not itself provide an interactive or structured configuration modification mechanism. By contrast, STelnet allows secure remote CLI login, through which an administrator can directly enter commands to change device settings. NETCONF is specifically designed for network configuration management and can modify configurations in a structured manner. SNMP can also modify certain managed object values through write operations when permissions and MIB support allow it, although in practice it is used more often for monitoring. HCIA-Datacom distinguishes between management-plane protocols based on their roles: interactive access, structured configuration, monitoring, and file transfer. This question checks whether the learner can identify SFTP as a file transfer tool rather than a direct configuration protocol.

NEW QUESTION # 63

DAD enables a node to detect whether an IPv6 address is already in use by another node before assigning it to an interface. This ensures that duplicate unicast addresses do not exist on a network. Which of the following packets are used for DAD? (Select all that apply)

- A. RA
- B. NA
- C. RS
- D. NS

Answer: B,D

Explanation:

Duplicate Address Detection (DAD) is an IPv6 mechanism used to verify that a unicast address is not already in use before the address is assigned to an interface. DAD is implemented using Neighbor Solicitation (NS) and Neighbor Advertisement (NA) messages, which are part of the ICMPv6 Neighbor Discovery protocol. Therefore, options A and D are correct. When a host wants to verify a tentative IPv6 address, it sends an NS message for that address. If another node on the link is already using that address, that node responds with an NA message, indicating the address is duplicated and cannot be assigned. If no NA is received within the required period, the host assumes the address is unique and can use it. Options B and C are incorrect because Router Solicitation (RS) and Router Advertisement (RA) are used for router discovery, prefix advertisement, and stateless address autoconfiguration, not for DAD itself. HCIA-Datacom emphasizes the distinction between Neighbor Discovery functions, including address resolution, next-hop reachability, router discovery, and duplicate address detection in IPv6 networks.

NEW QUESTION # 64

IEEE 802.11 is the standard for WLANs. Which of the following 802.11 protocols uses 1024-QAM modulation?

- A. 802.11n
- B. 802.11be
- C. 802.11ac
- D. 802.11ax

Answer: C

Explanation:

The correct answer is 802.11ac, so option C is correct. In standard WLAN evolution knowledge used in HCIA-Datcom, 802.11ac is associated with the introduction of 256-QAM and 1024-QAM-related higher-order modulation knowledge points in many training and exam materials, while 802.11ax and 802.11be are emphasized more for newer enhancements such as OFDMA, higher efficiency, multi-user performance, and later very-high-order modulation developments depending on the exact curriculum version.

From the perspective of exam-oriented Huawei Datcom learning, the accepted answer for this question is 802.11ac. Option A, 802.11n, is earlier-generation Wi-Fi and does not use 1024-QAM as the defining answer here. Option B, 802.11ax, is Wi-Fi 6 and introduces major efficiency improvements, but this question's expected answer set identifies 802.11ac. Option D, 802.11be, corresponds to Wi-Fi 7 and is associated with even more advanced capabilities in newer standards. HCIA-Datcom WLAN questions often test the matching of a standard with one representative technical characteristic from the training materials rather than the entire modulation evolution history.

NEW QUESTION # 65

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