



✓ **Congratulations! You passed!**

TO PASS 80% or higher

Keep Learning

GRADE
100%

Week 1 Quiz

LATEST SUBMISSION GRADE

100%

1. What is the destination MAC address that is used in a DHCP Discover frame?

1 / 1 point

- ☐ 255.255.255.255
- ☐ 1.1.1.1
- ☐ AA-AA-AA-AA-AA-AA
- ☒ FF-FF-FF-FF-FF-FF

✓ **Correct**

Like IP addressing, there is also a special MAC address for broadcast purposes, namely FF-FF-FF-FF-FF-FF.

2. Which destination IPv4 address does a DHCPv4 client use to send the initial DHCP Discover packet when the client is looking for a DHCP server?

1 / 1 point

- ☐ 127.0.0.1
- ☐ 224.0.0.1
- ☒ 255.255.255.255
- ☐ the IP address of the default gateway

✓ **Correct**

Broadcast communications on a network may be directed or limited. A directed broadcast is sent to all hosts on a specific network. A limited broadcast is sent to 255.255.255.255. When a DHCP client needs to send a DHCP Discover packet in order to seek DHCP servers, the client will use this IP address of 255.255.255.255 as the destination in the IP header because it has no knowledge of the IP addresses of DHCP servers.

3. Which type of packet is sent by a DHCP server after receiving a DHCP Discover message?

1 / 1 point

- ☐ DHCP ACK
- ☐ DHCP Discover
- ☒ DHCP Offer
- ☐ DHCP Request

✓ **Correct**

When a DHCP server receives a DHCP Discover packet from a client, the server responds with a DHCP Offer packet to let the client know that an IP address is available and reserved for the client.

4. Which three addresses are not allowed to be in the DHCP pool for clients? (Choose 3.)

1 / 1 point

☒ network address

✓ **Correct**

The network address is not usable by hosts.

☒ network broadcast address

✓ **Correct**

The network broadcast address cannot be assigned to a specific hosts. It is meant to communicate with all hosts.

☐ any address that has a host portion of .1

☐ 255.255.255.255

☐ 11-11-11-11-11-11

☒ router interface address



Correct

The router interface address must be a unique host address. It cannot be assigned to other devices.

☐ 244.0.0.1

5. In which order do the DHCP messages occur when a client and server are negotiating address configuration?

1 / 1 point

☒ DHCPDISCOVER, DHCPOFFER, DHCPREQUEST, DHCPACK

☐ DHCPACK, DHCPREQUEST, DHCPOFFER, DHCPDISCOVER

☐ DHCPREQUEST, DHCPDISCOVER, DHCPACK, DHCPOFFER

☐ DHCPOFFER, DHCPACK, DHCPDISCOVER, DHCPREQUEST



Correct

This is the correct sequence.