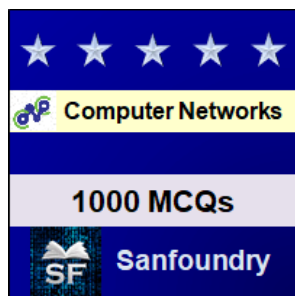


## 1000 Computer Networks MCQs



# Computer Networks Questions & Answers – DHCP

This set of Computer Networks Multiple Choice Questions & Answers (MCQs) focuses on “DHCP”.

1. DHCP (dynamic host configuration protocol) provides \_\_\_\_\_ to the client.  
a) IP address  
b) MAC address  
c) Url  
d) None of the mentioned

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Answer: a

Explanation: We use DHCP to allow the hosts to acquire their ip addresses dynamically which is better than visiting each and every host on the network and configure all of this information manually.

2. DHCP is used for \_\_\_\_\_  
a) IPv6  
b) IPv4  
c) Both IPv6 and IPv4  
d) None of the mentioned

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Answer: c

Explanation: DHCP is used for both IPv4 and IPv6 addressing. With DHCP you get to let the hosts know about the change dynamically, and hosts update their info themselves.

3. The DHCP server \_\_\_\_\_  
a) maintains a database of available IP

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request from a client  
d) all of the mentioned

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Answer: d

Explanation: Whenever a DHCP server gets a request from a client it responds with a DHCP offer containing IP address being offered, network mask offered, the amount of time that the client can use and keep it, the ip address of the DHCP server making this offer.

advertisement

4. IP assigned for a client by DHCP server is

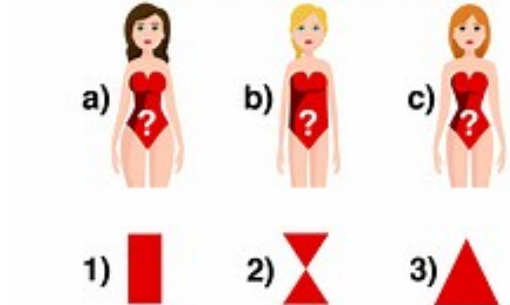
- a) for a limited period
- b) for an unlimited period
- c) not time dependent
- d) none of the mentioned

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Answer: a

Explanation: The IP address offered to a client is only for a limited period of time. There is actually a certain amount of time that the client can use and keep this IP address.

5. DHCP uses UDP port \_\_\_\_\_ for



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d) 69

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Answer: b

Explanation: 67 is the UDP port number that is used as the destination port of a server. Whereas UDP port number 68 is used by the client.

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6. The DHCP server can provide the \_\_\_\_\_ of the IP addresses.

- a) dynamic allocation
- b) automatic allocation
- c) static allocation
- d) all of the mentioned

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Answer: d

Explanation: When a host acquires multiple offers of IP addresses from different DHCP servers, the host will broadcast a dhcp request identifying the server whose offer has been accepted.

7. DHCP client and servers on the same subnet communicate via \_\_\_\_\_

- a) UDP broadcast
- b) UDP unicast
- c) TCP broadcast
- d) TCP unicast

[View Answer](#)

Answer: a

Explanation: DHCP actually employs a connectionless service, which is provided by UDP, since TCP is connection oriented. It is implemented with two UDP port numbers 67 and 68 for its operations.

- 
- a) internet relay chat
  - b) broader gateway protocol
  - c) address resolution protocol
  - d) none of the mentioned

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Answer: c

Explanation: ARP abbreviation for address resolution protocol is used for mapping IP addresses to MAC addresses that are present in the local network.

9. What is DHCP snooping?
- a) techniques applied to ensure the security of an existing DHCP infrastructure
  - b) encryption of the DHCP server requests
  - c) algorithm for DHCP
  - d) none of the mentioned

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Answer: a

Explanation: DHCP snooping is a security feature that is used in OS of a network in the layer 2. This technology prevents unauthorized DHCP servers offering IP addresses to DHCP clients.

10. If DHCP snooping is configured on a LAN switch, then clients having specific \_\_\_\_\_ can access the network.
- a) MAC address
  - b) IP address
  - c) Both MAC address and IP address
  - d) None of the mentioned

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Answer: c

Explanation: The DHCP snooping is done to prevent unauthorized IP addresses being offered by unauthorized servers. This features

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