7.3 Quiz Question 1

(1/1 point)

Which of the following is/are true about the Domain Name System?

- [ ] DNS primarily runs over the TCP protocol, since IP addresses must be received reliably.
- [ ] DNS is decentralized in that every institution maintains its own local name server, each of which contains all name-to-IP address mappings.
- [x] In an iterative query, the local domain name server makes a sequence of requests to different name servers until it finds the authoritative DNS server for the host name of interest. ✔
- [ ] DNS uses a peer-to-peer architecture.

✔

Note: Make sure you select all of the correct options—there may be more than one!

EXPLANATION

DNS uses a client-server architecture running over UDP. The effect of packet loss is handled at the application level, and messsages are short so that packet ordering is not a problem. DNS is decentralized in the sense that it maintains a hierarchy of servers, each responsible for resolving the host name at a different level. No single computer contains all host names.

You have used 1 of 2 submissions

7.3 Quiz Question 2

(1/1 point)

Which of the below is/are (a) reason(s) that DNS does not use a single centralized server?

- [ ] Decentralized systems have less redundancy.
- [x] Centralized systems are less reliable in the sense that if the system goes down, there are no other options. ✔
- [x] Traffic directed at a centralized system would overwhelm it. ✔
- [x] A centralized system could lead to long delays for users far from the system. ✔

✔

Note: Make sure you select all of the correct options—there may be more than one!

EXPLANATION

Decentralized systems typically have more redundancy, since information is stored at multiple locations.

You have used 2 of 2 submissions