



HKUSTx: ELEC1200.3x A System View of Communications: From Signals to Packets (Part 3)


Bookmarks

- ▶ Pre-course Materials
- ▶ Topic 1: Course Overview
- ▶ Topic 2: The Link Layer
- ▶ Topic 3: The Network Layer
- ▶ Topic 4: Routing
- ▶ Topic 5: The Transport Layer
- ▶ Topic 6: Reliable Transfer Protocols

Topic 7: The Application Layer > 7.3 Domain Name System (DNS) > 7.3 Quiz

 Bookmark

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.

☒ 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!

▼ Topic 7: The Application Layer


7.1 Application Layer

Week 4 Quiz due Feb 15, 2016 at 15:30 UTC 


7.2 Hypertext Transfer Protocol (HTTP)

Week 4 Quiz due Feb 15, 2016 at 15:30 UTC 

7.3 Domain Name System (DNS)

Week 4 Quiz due Feb 15, 2016 at 15:30 UTC 

7.4 Lab 4 - Application Layer

Lab due Feb 15, 2016 at 15:30 UTC 

► Topic 8: Course Review

► MATLAB download and tutorials

EXPLANATION

DNS uses a client-server architecture running over UDP. The effect of packet loss is handled at the application level, and messages 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.

☒ Centralized systems are less reliable in the sense that if the system goes down, there are no other options. 

☒ Traffic directed at a centralized system would overwhelm it. 

☒ 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

© All Rights Reserved



© edX Inc. All rights reserved except where noted. EdX, Open edX and the edX and Open EdX logos are registered trademarks or trademarks of edX Inc.

POWERED BY
OPENedX

