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Quiz

Q1 . If a local name server has no clue about where to find the address for a hostname then

A. Server asks its adjacent name server

B. Server asks its root name server

C. Request is not processed

D. Server explodes

Q2 . Which of the following is an example of a Top Level Domain?

A. yoda.jedi.starwars.com

B. jedi.starwars.com

C. starwars.com

D. .com

Q3 . A web browser needs to contact www.cse.unsw.edu.au (http://www.cse.unsw.edu.au/) . The minimum number of DNS requests sent is:

A. 0

B. 1

C. 2

D. 3

Q4 . The role of the CDN provider's authoritative DNS name server in a content distribution network basically is:

A. to provide an alias address for each browser access to the "origin server" of a CDN website

B. to map the query for each CDN object to the CDN server closest to the requestor ~~(browser)~~

C. to provide a mechanism for CDN "origin servers" to provide paths for clients (browsers)

D. none of the above, CDN networks do not use DNS

Q5 . When web-based email is used, two mail servers communicate with each other using HTTP. True or False?

Q6 . P2P networks must have servers to help new peers find other peers. True or False?

Q7 . P2P networks must maintain trackers to help new peers join the network. True or False?

Q8 . The 'rarest first' is a P2P networking policy to select

A. the next peer to download chunks from

B. the next chunk to download

C. the tracker to query for other peers

    D. the file to download

Q9 .The 'rarest first' policy helps

    A. download precious files

    B. download chunks that no other peers have

    C. duplicate chunks in the P2P network so even if a peer disappears, other peers will contain the chunks

    D. remove chunks from the network that are rarely used

Q10 . In BitTorrent, Peer A will never send chunks to Peer B if Peer B is not in Peer A's top 4 list. True or False?

Q11 . In DHT, a hash function converts

    A. an integer to a real number

    B. an a real number to an integer

    C. an integer to a string

    D. a string to an integer

Q12 . Which of the following will help address the 'peer churn' (i.e., a peer disappearing) problem?

    A. each peer knows its two immediate predecessors

    B. each peer knows its two immediate successors

    C. each peer knows its immediate successor and two immediate predecessors

    D. each peer knows its immediate predecessor and two immediate successors

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Nadeem Ahmed (/users/z3003139) 8 days ago (Sun Oct 13 2019 09:56:24 GMT+1100 (澳大利亚东部夏令时间))

Solutions:

1. B

2. D

3. A

4. B

5. False

6. False

7. False

8. B

9. C

10. False

11. D

12. D

Reply

Chan Kwon Kim (/users/z5204743) 4 days ago (Wed Oct 16 2019 12:24:30 GMT+1100 (澳大利亚东部夏令时间))

Q12, Why is it D instead of C?

Reply

Nadeem Ahmed (/users/z3003139) 4 days ago (Thu Oct 17 2019 00:18:51 GMT+1100 (澳大利亚东部夏令时间))

We are considering the default communication mechanism of Circular DHT where you can only send messages in clock-wise manner. Thus the answer in that context is one predecessor and two successors (see section 2.6.2 6th edition of textbook by Kurose and Ross for more details).

If we consider two predecessors and one successor, the case of a peer moving out abruptly can be handled but would involve sending more messages in the default clockwise manner for the DHT to settle to new successor/predecessor information for each peer.

Reply

Chan Kwon Kim (/users/z5204743) 3 days ago (Thu Oct 17 2019 11:29:18 GMT+1100 (澳大利亚东部夏令时间))

ok thanks!!

Reply

Chan Kwon Kim (/users/z5204743) 4 days ago (Wed Oct 16 2019 12:19:07 GMT+1100 (澳大利亚东部夏令时间))

How do new peers find other peers then? (If there is no server)

Reply

Salil Kanhere (/users/z3116703) 4 days ago (Wed Oct 16 2019 20:13:59 GMT+1100 (澳大利亚东部夏令时间))

some bootstrapping mechanism needs to be in place. This could be a central server or a distributed networks. e.g., a DHT

Reply

Xiaohan Zhu (/users/z5187021) 6 days ago (Mon Oct 14 2019 22:57:00 GMT+1100 (澳大利亚东部夏令时间))