

COM-208: Computer Networks - Quiz 2 (A)

Name:
SCIPER:

- In the client/server architecture there are:
 - Client processes that make requests and server processes that respond.
 - Server processes that make requests and client processes that respond.
 - Client and server processes that form a peer-to-peer network.
- You type a URL in your web client (for the first time). How many HTTP requests does the web client generate?
 - Exactly 1.
 - 0 or 1.
 - 1 or more.
- How can a web server link subsequent HTTP requests to the same web client?
 - Using conditional GET requests.
 - Using cookies.
 - It cannot.
- How does a proxy web server (web cache) avoid serving stale cached web pages to web clients?
 - Using conditional GET requests.
 - Using cookies.
 - It cannot.
- When a DNS client located outside EPFL needs to resolve `www.epfl.ch`, it typically contacts:
 - A local DNS server.
 - A root DNS server.
 - An `epfl.ch` authoritative DNS server.
- Which of the following DNS servers is guaranteed to know the IP address of `www.epfl.ch`?
 - A local DNS server.
 - A root DNS server.
 - An `epfl.ch` authoritative DNS server.
- You type a URL in your web client. What is the minimum number of DNS requests that your computer may generate?
 - 0.
 - 1.
 - 3.
- A massive denial-of-service (DoS) attack starts against the `epfl.ch` authoritative DNS servers. As a result:
 - Immediately, EPFL end-systems cannot reach any non-EPFL Internet destination.
 - After some time, non-EPFL Internet end-systems cannot reach any EPFL destination.
 - Immediately, non-EPFL Internet end-systems cannot reach any EPFL destination.
- In a peer-to-peer file-distribution system like BitTorrent:
 - A peer may receive different chunks of the same file from different peers.
 - A peer downloading a file helps distribute the file at the same time.
 - Both of the above.
- 5 end-systems want to download a file from another end-system. Should they prefer client/server or peer-to-peer (P2P) file distribution?
 - P2P because it scales better.
 - It will be the same because there are very few downloaders in this scenario.
 - I do not have enough information to answer this question.

COM-208: Computer Networks - Quiz 2 (B)

Name:
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1. How does a proxy web server (web cache) avoid serving stale cached web pages to web clients?
 - (a) Using cookies.
 - (b) Using conditional GET requests.
 - (c) It cannot.
2. How can a web server link subsequent HTTP requests to the same web client?
 - (a) Using cookies.
 - (b) Using conditional GET requests.
 - (c) It cannot.
3. In a peer-to-peer file-distribution system like BitTorrent:
 - (a) A peer may receive different chunks of the same file from different peers.
 - (b) A peer downloading a file helps distribute the file at the same time.
 - (c) Both of the above.
4. You type a URL in your web client. What is the minimum number of DNS requests that your computer may generate?
 - (a) 3.
 - (b) 1.
 - (c) 0.
5. When a DNS client located outside EPFL needs to resolve www.epfl.ch, it typically contacts:
 - (a) An epfl.ch authoritative DNS server.
 - (b) A local DNS server.
 - (c) A root DNS server.
6. A massive denial-of-service (DoS) attack starts against the epfl.ch authoritative DNS servers. As a result:
 - (a) After some time, non-EPFL Internet end-systems cannot reach any EPFL destination.
 - (b) Immediately, EPFL end-systems cannot reach any non-EPFL Internet destination.
 - (c) Immediately, non-EPFL Internet end-systems cannot reach any EPFL destination.
7. You type a URL in your web client (for the first time). How many HTTP requests does the web client generate?
 - (a) Exactly 1.
 - (b) 1 or more.
 - (c) 0 or 1.
8. 5 end-systems want to download a file from another end-system. Should they prefer client/server or peer-to-peer (P2P) file distribution?
 - (a) P2P because it scales better.
 - (b) It will be the same because there are very few downloaders in this scenario.
 - (c) I do not have enough information to answer this question.
9. In the client/server architecture there are:
 - (a) Server processes that make requests and client processes that respond.
 - (b) Client processes that make requests and server processes that respond.
 - (c) Client and server processes that form a peer-to-peer network.
10. Which of the following DNS servers is guaranteed to know the IP address of www.epfl.ch?
 - (a) An epfl.ch authoritative DNS server.
 - (b) A root DNS server.
 - (c) A local DNS server.