Lecture 17 (3/17) Self Test

Score for this survey: **1** out of 1

Submitted Mar 30 at 6:19pm

This attempt took 1 minute.

Question 1

The DNS record type whose *value* is the hostname associated with an IP address:

ou Answered

- ⦿ A
- ○ CNAME
- ○ DNAME
- ○ MX
- ○ NS
- ○ PTR

PTR (the *value* is the name)

Question 2

The DNS record type that is used for directing email to the correct mail server:

○ A

○ CNAME

○ DNAME

⦿ MX

○ NS

○ PTR

MX - Mail Exchanger

Question 3

Which of the following are uses for the DNS TXT record type?

☐ Storing mappings between hostnames and IP addresses in a machine-readable form

☐ Storing and transferring plain-text (ASCII) files

☑ Human-readable data

☐ Proving domain ownership to third parties

Human-readable data and proving domain ownership

For the following five questions, assume we are using the typical DNS resolution approach described in lecture. Consider a scenario with Host A in domain berkeley.edu, its local resolving DNS server (call it B), and the rest of the DNS infrastructure, which includes:

C) Root

D) Tree

E) TLD server for .com

F) TLD server for .edu

G) TLD server for .org

H) Authoritative server for foo.com

I) Authoritative server for berkeley.edu

J) Authoritarian server

K) N/A

Question 4

A asks B to resolve hostname mine.foo.com. Assume there are no cached entries relevant to this request.

Who are the two parties involved in the first part of the query?

A contacts B

Answer 1:

A

Answer 2:

B

A, B - The host contacts its resolving DNS server

Question 5

Which type of record is being queried for (choose the best option)?

○ AAAA

○ CNAME

○ MX

⦿ NS

○ SRV

AAAA

It could also have been A (for IPv4 instead of IPv6), but that wasn't an option!

Question 6

Continuing with this same resolution, what two parties communicate next?

B contacts H

Answer 1:

B

Answer 2:

H

B, C - The resolving server contacts a root server

Question 7

Continuing with this same resolution, what two parties communicate next?

H contacts E

Answer 1:

H

Answer 2:

E

B, E - The resolving server contacts the .com TLD server

Question 8

Which tool can be used to run DNS queries "by hand"?

○ aresolve

◉ dig

○ named

○ netcat

○ shovel

dig

Question 9

How would you prefer to ask questions about lecture?

◉ Piazza

○ Zoom

○ Discord

○ Slack

○ Something else