Network Fundamentals

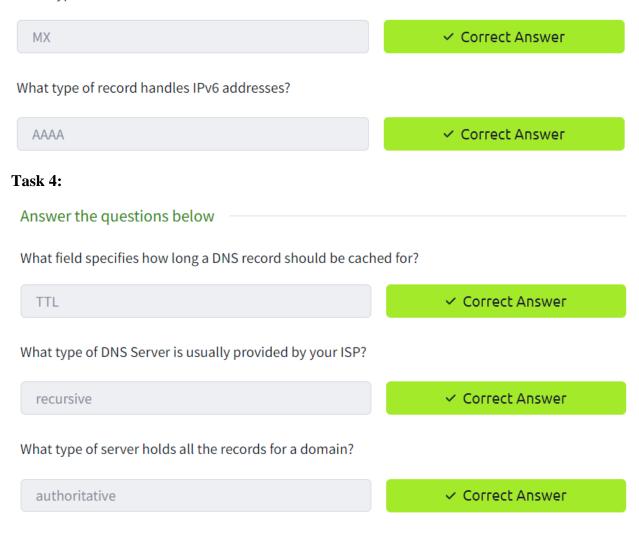## DNS in detail

Task 1:

What does DNS stand for?

| Domain Name System | ✓ Correct Answer |

Task 2:

What is the maximum length of a subdomain?

| 63 | ✓ Correct Answer | ♀ Hint |

Which of the following characters cannot be used in a subdomain (3 b _ -)?

| _ | ✓ Correct Answer |

What is the maximum length of a domain name?

| 253 | ✓ Correct Answer |

What type of TLD is .co.uk?

| ccTLD | ✓ Correct Answer |

Shariful Islam
sharifiitju@gmail.com
https://github.com/sharifuliitju

Task 3:

What type of record would be used to advise where to send email?

MX	✓ Correct Answer

What type of record handles IPv6 addresses?

AAAA	✓ Correct Answer

Task 4:

Answer the questions below

What field specifies how long a DNS record should be cached for?

TTL	✓ Correct Answer

What type of DNS Server is usually provided by your ISP?

recursive	✓ Correct Answer

What type of server holds all the records for a domain?

authoritative	✓ Correct Answer

Task 5:

```
user@thm:~$ nslookup --type=CNAME shop.website.thm
Server:		127.0.0.53
Address:	127.0.0.53#53

Non-authoritative answer:
shop.website.thm	canonical name = shops.myshopify.com
```

```
user@thm:~$ nslookup --type=TXT website.thm
Server:    127.0.0.53
Address:   127.0.0.53#53

Non-authoritative answer:
website.thm    text = "THM{7012BBA60997F35A9516C2E16D2944FF}"
```

```
user@thm:~$ nslookup --type=A www.website.thm
Server:    127.0.0.53
Address:   127.0.0.53#53

Non-authoritative answer:
Name:    www.website.thm
Address: 10.10.10.10
```

What is the CNAME of shop.website.thm?

shops.myshopify.com   ✓ Correct Answer

What is the value of the TXT record of website.thm?

THM{7012BBA60997F35A9516C2E16D2944FF}   ✓ Correct Answer   ♀ Hint

What is the numerical priority value for the MX record?

30   ✓ Correct Answer

What is the IP address for the A record of www.website.thm?

10.10.10.10   ✓ Correct Answer

Shariful Islam
sharifiitju@gmail.com
https://github.com/sharifuliitju