DNS in detail

Learn how DNS works and how it helps you access internet services.

Task 1 What is DNS?

Question	Answer
What does DNS stand for?	Domain Name System

Task 2 Domain Hierarchy

Question	Answer
What is the maximum length of a subdomain?	63
Which of the following characters cannot be used in a subdomain (3 b)?	_
What is the maximum length of a domain name?	253
What type of TLD is .co.uk?	ccTLD

Task 3 Record Types

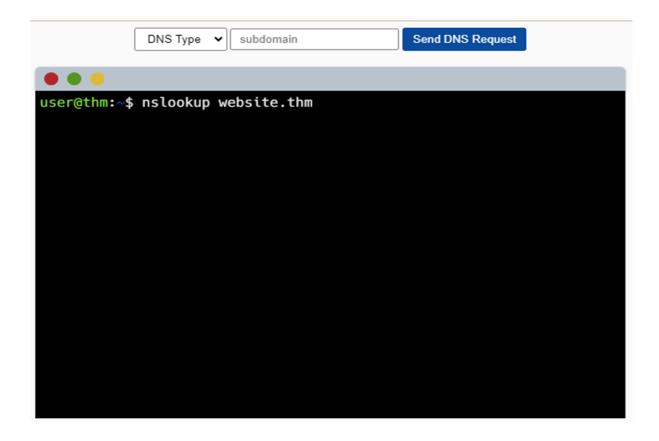
Question	Answer
What type of record would be used to advise where to send email?	MX
What type of record handles IPv6 addresses?	AAAA

Task 4 Making A Request

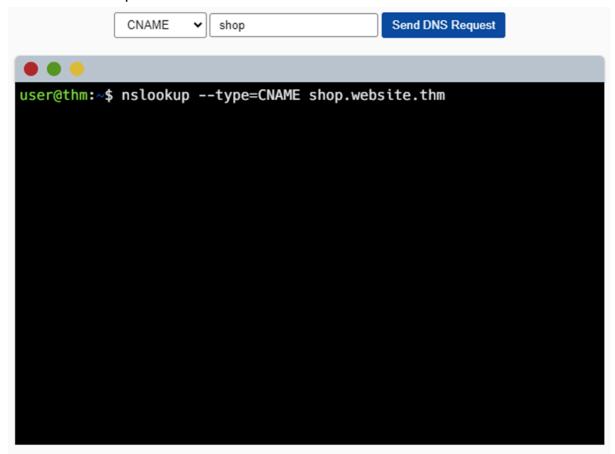
Question	Answer
What field specifies how long a DNS record should be cached for?	TTL
What type of DNS Server is usually provided by your ISP?	recursive
What type of server holds all the records for a domain?	authoritative

Task 5 Practical

I clicked on the View Site button

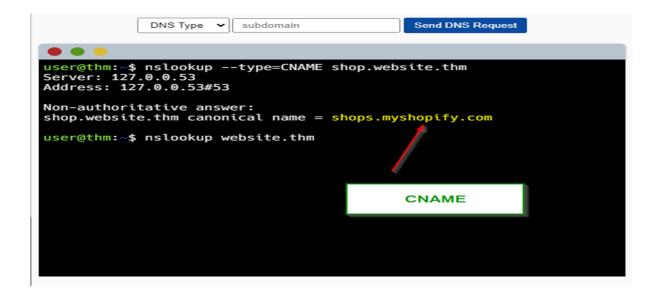


To get the CNAME record of shop.website.thm, I modified the DNS Type to CNAME and entered "shop" in the subdomain field.



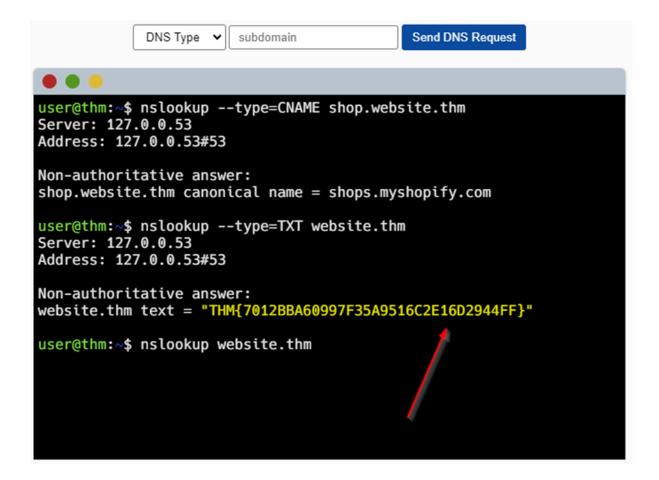
Clicking on "send DNS Request"

Answer: shops.myshopify.com



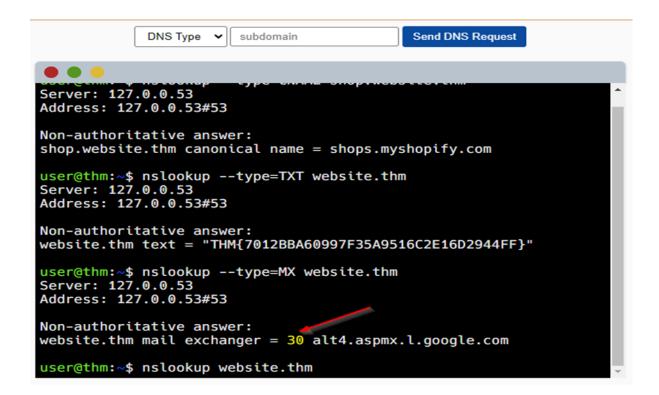
To get the the value of the TXT record of website.thm, i changed the DNS type to TXT and sent the request

Answer: THM{7012BBA60997F35A9516C2E16D2944FF}



To get the numerical priority value for the MX record, i change the DNS type to MX and sent the request

Answer: 30



To get the IP address for the A record of <u>www.website.th</u>m, i changed the DNS type to A

Answer: 10.10.10.10

