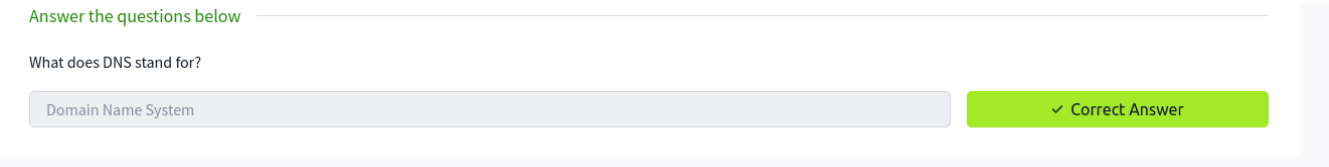
ISSACK WAITHAKA
cs-sa07-24085

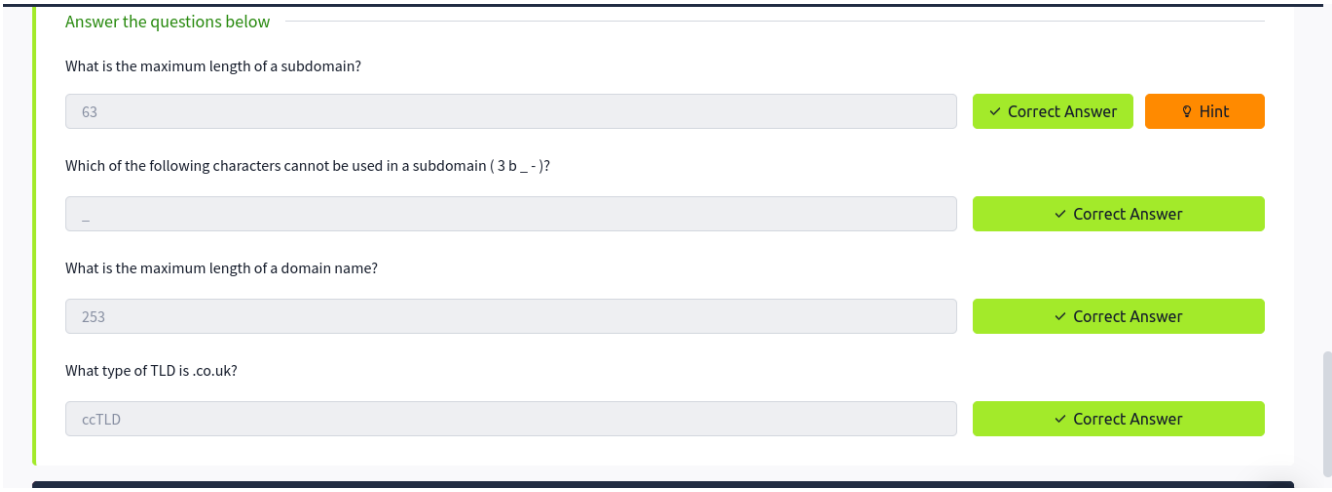
Introduction
- Domain Name system (DNS) – offer a simple way for us to communicate with devices in the internet without remembering complex numbers

Question
1.



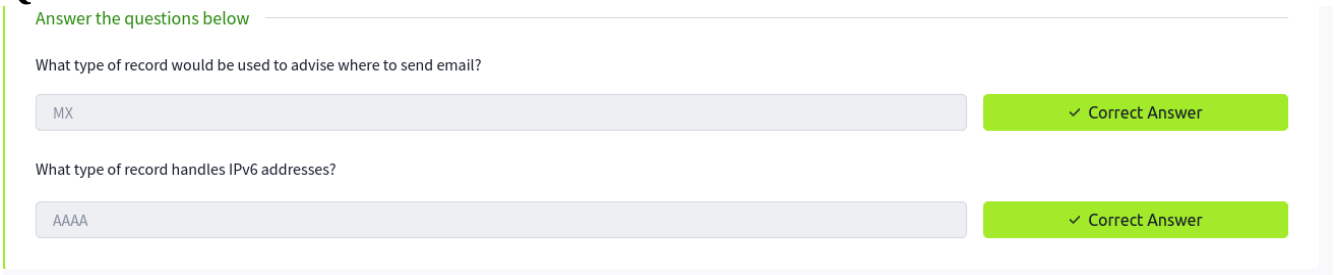
Domain Hierarchy
- Top-Level Domain(TLD) is the most right hand part of a domain name
- e.g for tryhackme.com the **.com** is the TLD
- is used to tell the purpose of a domain
- second-Level Domain is the **tryhackme**
- The subdomain is the left-hand side of the second-Level domain e.g blog.tryhackme.com

Questions



Record Types
- A record Resolve ipv4 addresses
- AAAA Record resolve ipv6 addresses
- CNAME Records used to resolve another domain name
- MX Record records to resolve the address of the server that handle the email for the domain
- TXT record are free text fields where text-based can be stored

Questions



Making a request

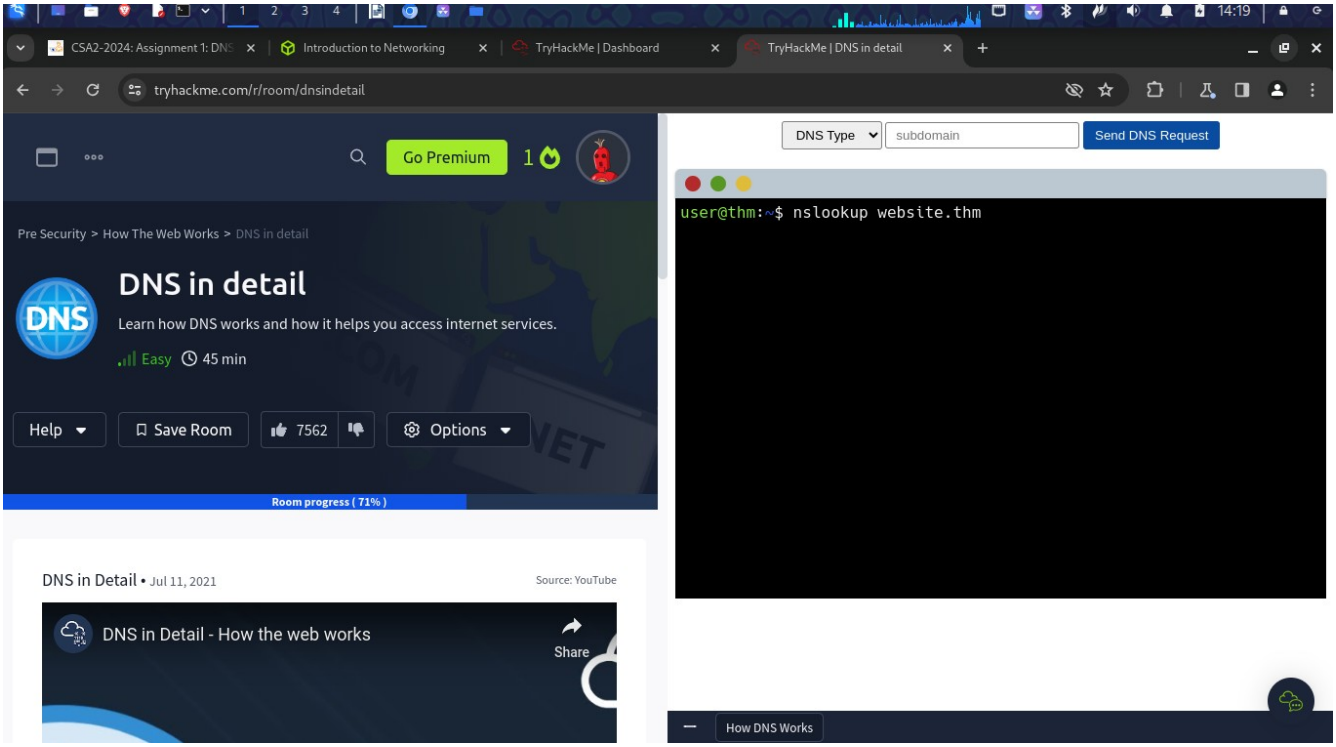
- When a request is made, a computer looks for previously used addresses
- The root servers redirect you to Top Level domain depending on request
- The TLD hols records for where to find the nameserver
- the nameserver is used to store the DNS records for a particular name

Question

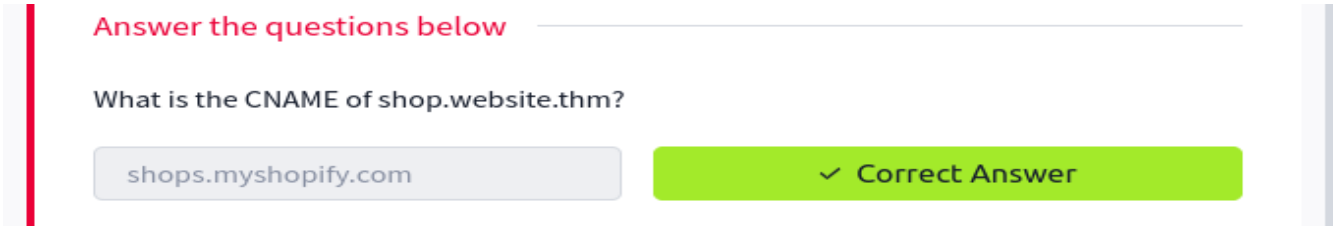
1.

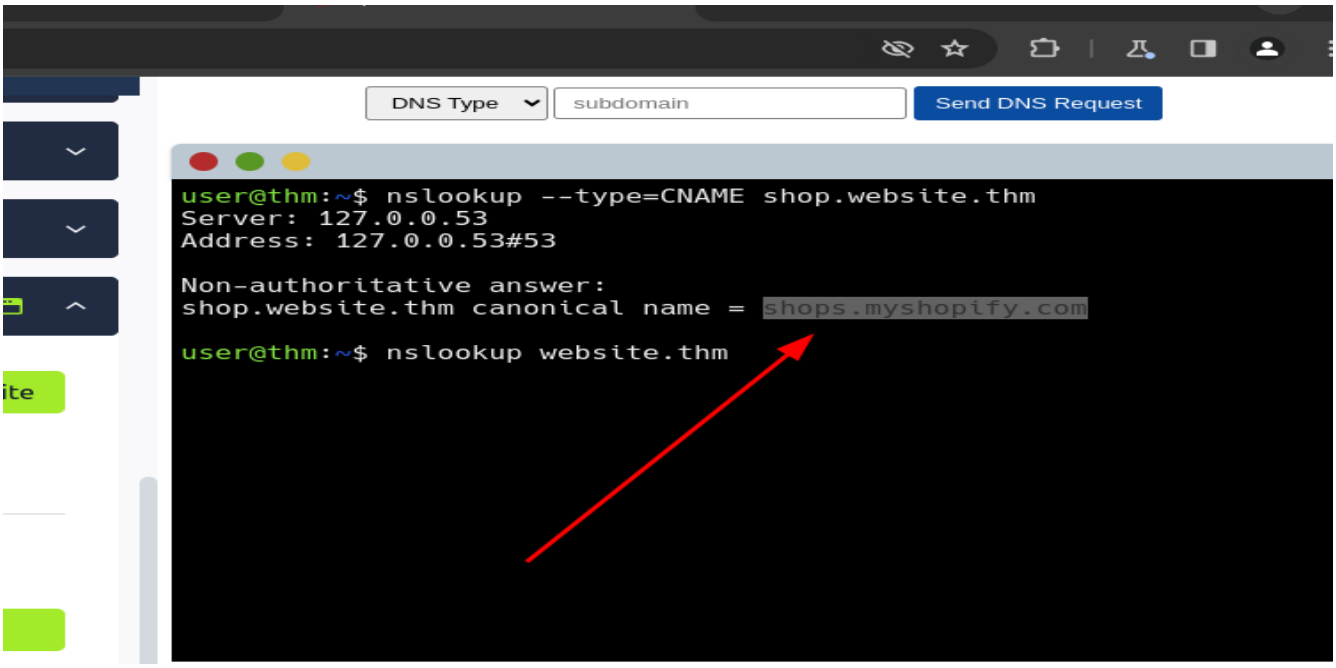
Practical

- I clicked the view site button to access the website.


CSA2-2024: Assignment 1: DNS
Introduction to Networking
TryHackMe | Dashboard
TryHackMe | DNS in detail
tryhackme.com/r/room/dnsindetail
Go Premium
Pre Security > How The Web Works > DNS in detail
DNS in detail
Learn how DNS works and how it helps you access internet services.
Easy
45 min
Help
Save Room
7562
Options
Room progress (71%)
DNS Type
subdomain
Send DNS Request
user@thm:~$ nslookup website.thm
DNS in Detail • Jul 11, 2021
Source: YouTube
DNS in Detail - How the web works
Share
How DNS Works

1.

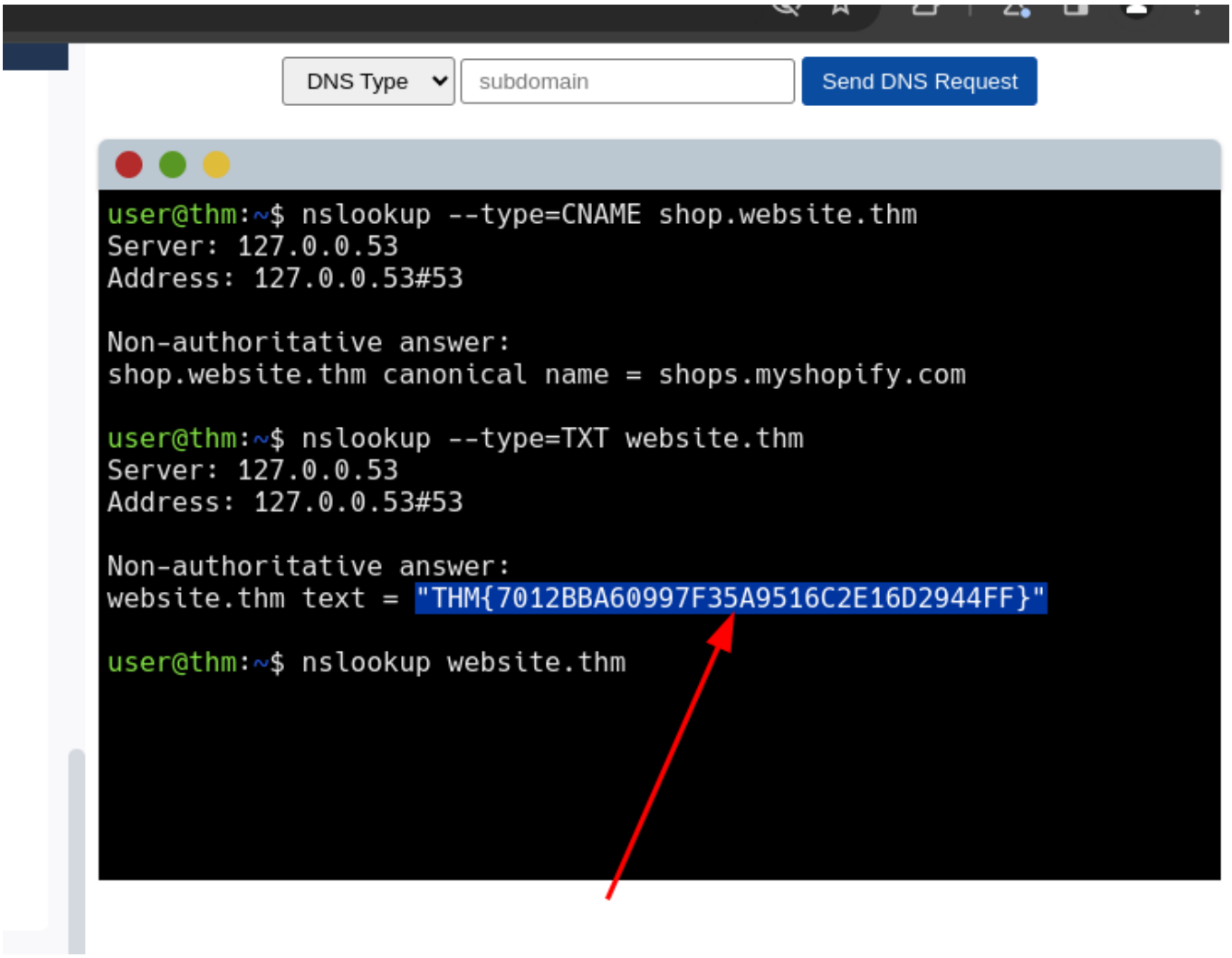

Answer the questions below
What is the CNAME of shop.website.thm?
shops.myshopify.com
Correct Answer


DNS Type
subdomain
Send DNS Request
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 website.thm

2.

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

THM{7012BBA60997F35A9516C2E16 ✓ Correct Answer Hint

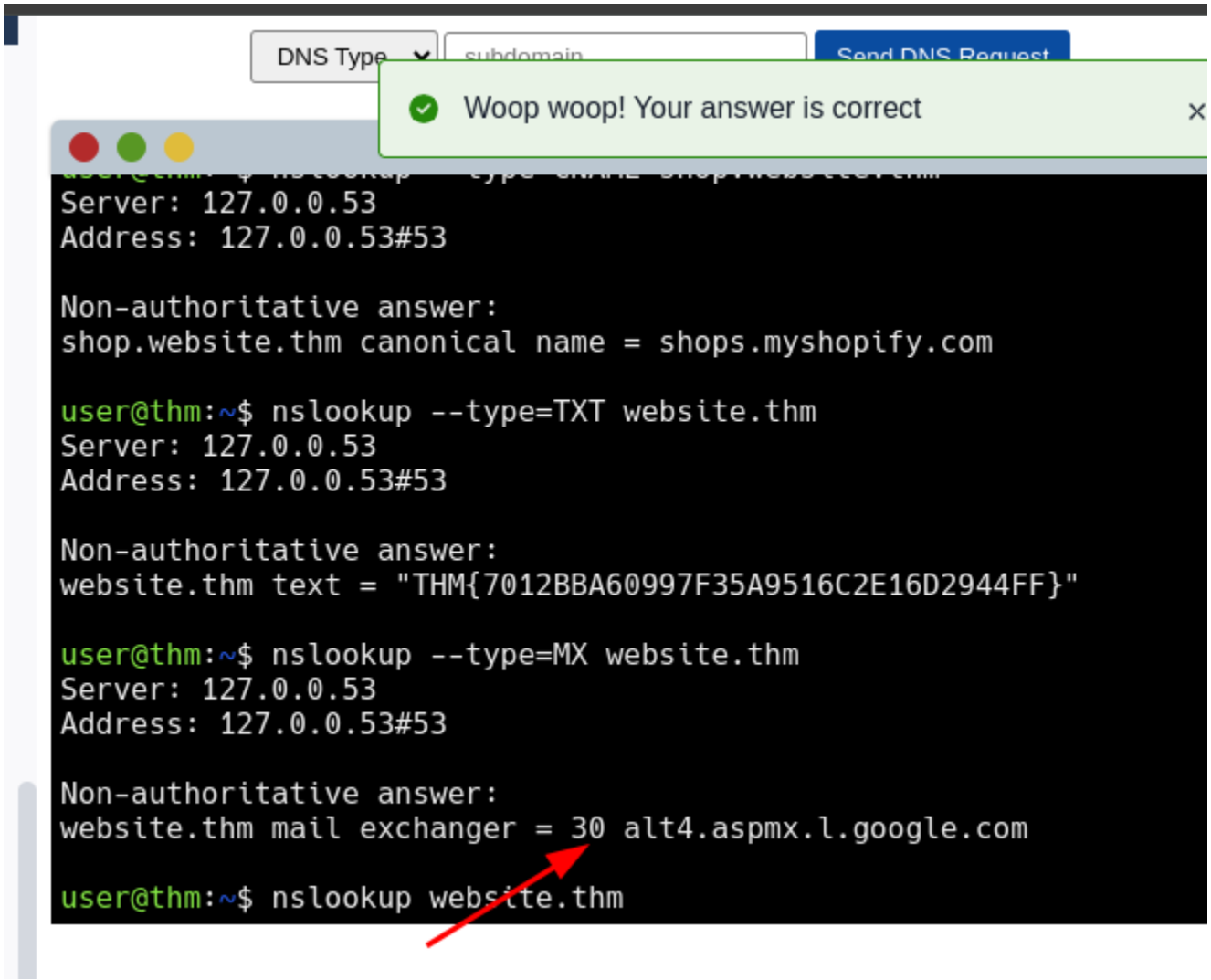


3.

What is the numerical priority value for the MX record?

30

✓ Correct Answer

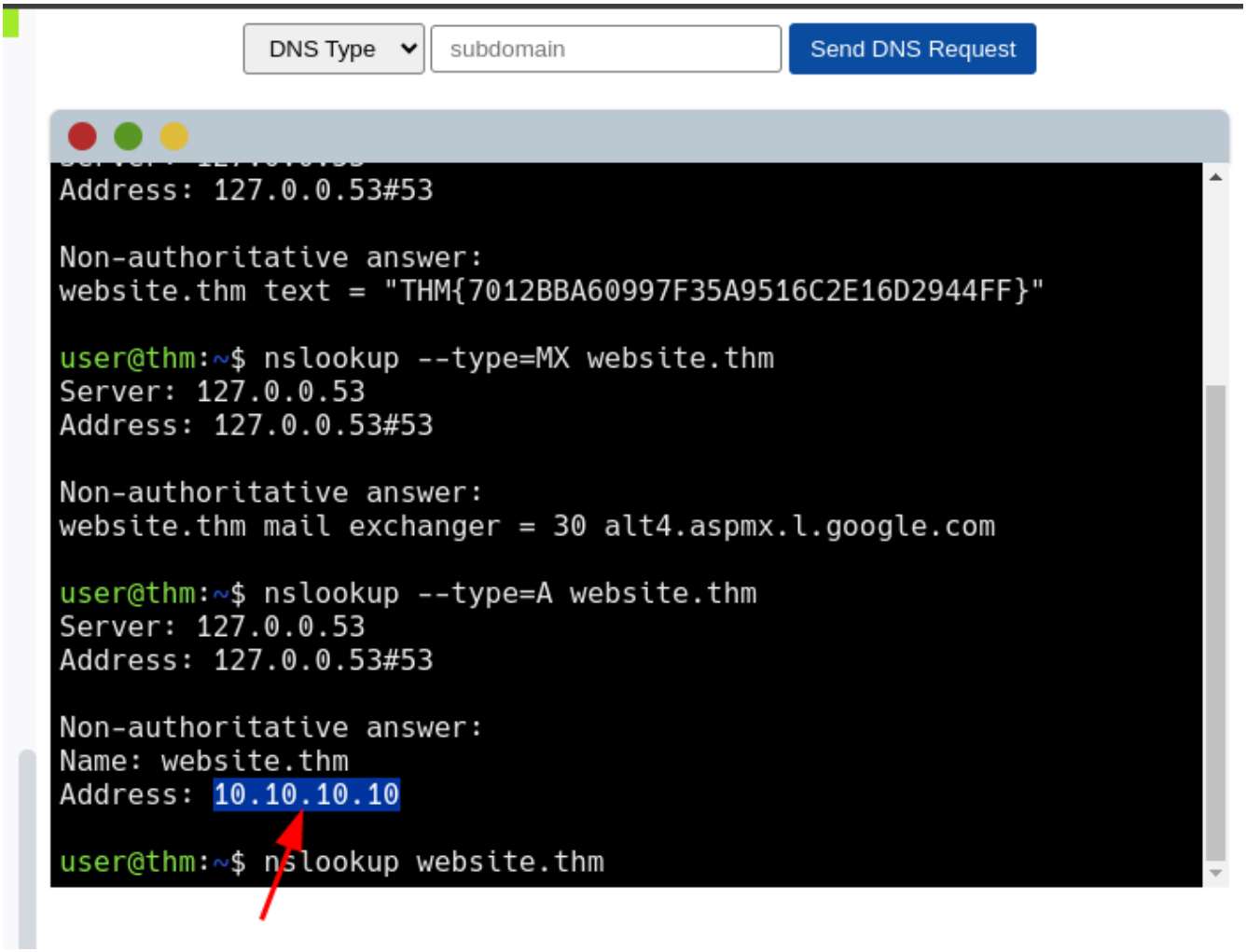


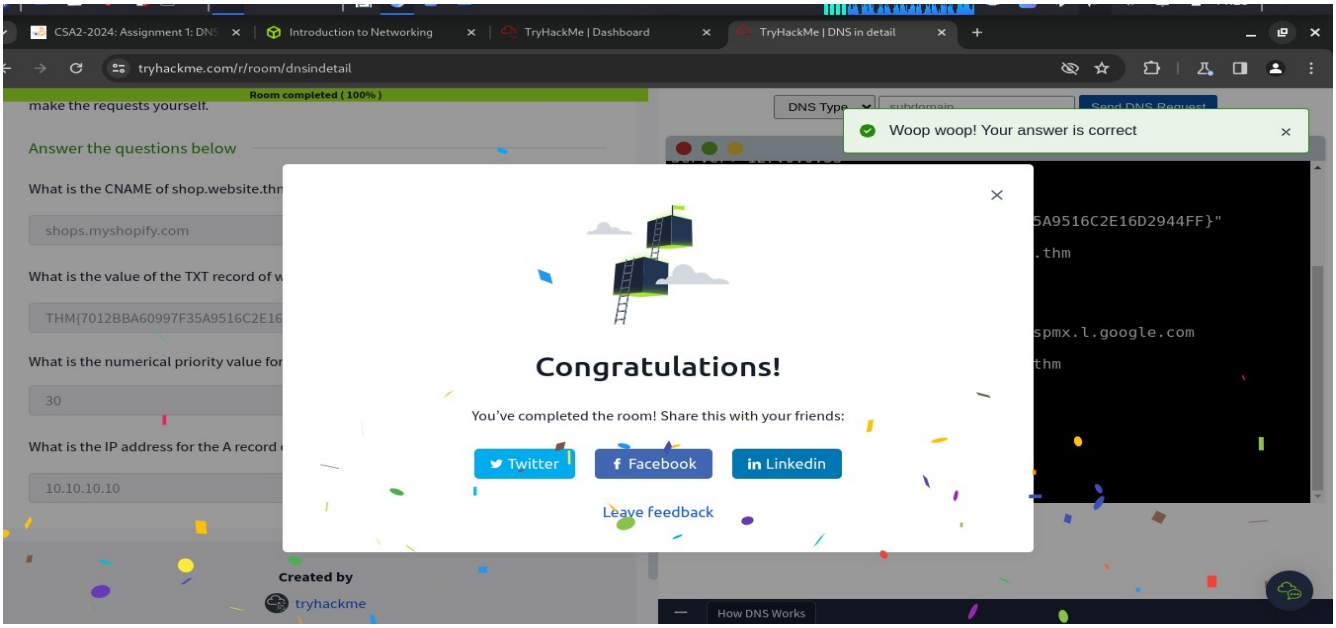
4.

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

10.10.10.10

✓ Correct Answer


DNS Type
subdomain
Send DNS Request
Address: 127.0.0.53#53
Non-authoritative answer:
website.thm text = "THM{7012BBA60997F35A9516C2E16D2944FF}"
user@thm:~$ nslookup --type=MX website.thm
Server: 127.0.0.53
Address: 127.0.0.53#53
Non-authoritative answer:
website.thm mail exchanger = 30 alt4.aspmx.l.google.com
user@thm:~$ nslookup --type=A website.thm
Server: 127.0.0.53
Address: 127.0.0.53#53
Non-authoritative answer:
Name: website.thm
Address: 10.10.10.10
user@thm:~$ nslookup website.thm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Introduction to Networking
TryHackMe | Dashboard
TryHackMe | DNS in detail
tryhackme.com/r/room/dnsindetail
Room completed (100%)
make the requests yourself.
Answer the questions below
What is the CNAME of shop.website.thm
shops.myshopify.com
What is the value of the TXT record of w
What is the numerical priority value for
30
What is the IP address for the A record
10.10.10.10
Woop woop! Your answer is correct
Congratulations!
You've completed the room! Share this with your friends:
Twitter
Facebook
Linkedin
Leave feedback
Created by
tryhackme
How DNS Works

Conclusion

- In this room I learnt about about DNS(Domain Name System) Which is a protocol that allows devices to communicate without having to remember complex numbers
- It translates IP addresses to domain names
- I also did a practical at the end which helped me fully understand DNS