

ISSACK WAITHAKA
cs-sa07-24085

Passive Versus Active Recon

- Reconnaissance is gathering information about a target.
- Passive reconnaissance rely on information that is publicly available
- Active reconnaissance requires direct engagement with the target

Questions

Answer the questions below

You visit the Facebook page of the target company, hoping to get some of their employee names. What kind of reconnaissance activity is this? (A for active, P for passive)

P

✓ Correct Answer

You ping the IP address of the company webserver to check if ICMP traffic is blocked. What kind of reconnaissance activity is this? (A for active, P for passive)

A

✓ Correct Answer

You happen to meet the IT administrator of the target company at a party. You try to use social engineering to get more information about their systems and network infrastructure. What kind of reconnaissance activity is this? (A for active, P for passive)

A

✓ Correct Answer

Whois

- Listens on port 43 for incoming requests
- Replies with various information related to the domain requested

Questions

1.

Answer the questions below

When was TryHackMe.com registered?

20180705

✓ Correct Answer

🔍 Hint

```
File Actions Edit View Help
(dylan@kali)~$ whois tryhackme
No whois server is known for this kind of object.

(dylan@kali)~$ whois tryhackme.com
Domain Name: TRYHACKME.COM
Registry Domain ID: 2282723194_DOMAIN_COM-VRSN
Registrar WHOIS Server: whois.namecheap.com
Registrar URL: http://www.namecheap.com
Updated Date: 2021-05-01T19:42:23Z
Creation Date: 2018-07-05T19:46:15Z
Registry Expiry Date: 2027-07-05T19:46:15Z
Registrar: NameCheap, Inc.
Registrar IANA ID: 1068
Registrar Abuse Contact Email: abuse@namecheap.com
Registrar Abuse Contact Phone: +1.6613102107
Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited
Name Server: KIP.NS.CLOUDFLARE.COM
Name Server: UMA.NS.CLOUDFLARE.COM
DNSSEC: unsigned
URL of the ICANN Whois Inaccuracy Complaint Form: https://www.icann.org/wicf/
>>> Last update of whois database: 2024-05-27T12:11:09Z <<<

For more information on Whois status codes, please visit https://icann.org/epp

NOTICE: The expiration date displayed in this record is the date the
registrar's sponsorship of the domain name registration in the registry is
currently set to expire. This date does not necessarily reflect the expiration
date of the domain name registrant's agreement with the sponsoring
registrar. Users may consult the sponsoring registrar's Whois database to
view the registrar's reported date of expiration for this registration.
```

2.

What is the registrar of TryHackMe.com?

namecheap.com

✓ Correct Answer

🔍 Hint

Which company is TryHackMe.com using for name servers?

```
No whois server is known for this kind of object.

(dylan@kali)-[~]
└─$ whois tryhackme.com
Domain Name: TRYHACKME.COM
Registry Domain ID: 2282723194_DOMAIN_COM-VRSN
Registrar WHOIS Server: whois.namecheap.com
Registrar URL: http://www.namecheap.com
Updated Date: 2021-05-01T19:43:23Z
Creation Date: 2018-07-05T19:46:15Z
Registry Expiry Date: 2027-07-05T19:46:15Z
Registrar: NameCheap, Inc.
Registrar IANA ID: 1068
Registrar Abuse Contact Email: abuse@namecheap.com
Registrar Abuse Contact Phone: +1.6613102107
Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited
Name Server: KIP.NS.CLOUDFLARE.COM
Name Server: UMA.NS.CLOUDFLARE.COM
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For more information on Whois status codes, please visit https://icann.org/epp
```

3.

Which company is TryHackMe.com using for name servers?

cloudflare.com

✓ Correct Answer

🔍 Hint

```
File Actions Edit View Help

(dylan@kali)-[~]
└─$ whois tryhackme
No whois server is known for this kind of object.

(dylan@kali)-[~]
└─$ whois tryhackme.com
Domain Name: TRYHACKME.COM
Registry Domain ID: 2282723194_DOMAIN_COM-VRSN
Registrar WHOIS Server: whois.namecheap.com
Registrar URL: http://www.namecheap.com
Updated Date: 2021-05-01T19:43:23Z
Creation Date: 2018-07-05T19:46:15Z
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Registrar: NameCheap, Inc.
Registrar IANA ID: 1068
Registrar Abuse Contact Email: abuse@namecheap.com
Registrar Abuse Contact Phone: +1.6613102107
Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited
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```

nslookup and dig

- nslookup(name server lookup) is used to find the IP address of a domain name

Questions

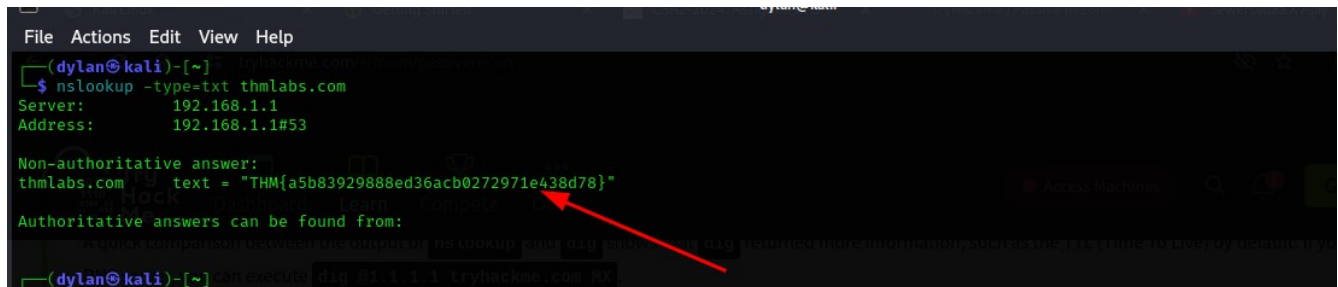
1.

Answer the questions below

Check the TXT records of thmlabs.com. What is the flag there?

THM{a5b83929888ed36acb0272971e438d78}

✓ Correct Answer



```
File Actions Edit View Help
(dylan@kali)-[~]
$ nslookup -type=txt thmlabs.com
Server:      192.168.1.1
Address:     192.168.1.1#53

Non-authoritative answer:
thmlabs.com  text = "THM{a5b83929888ed36acb0272971e438d78}"
Authoritative answers can be found from:
```

DNSDumpster

- It is a search engine mainly used to compile a list of publicly know subdomains
- It will also represent collected information graphically

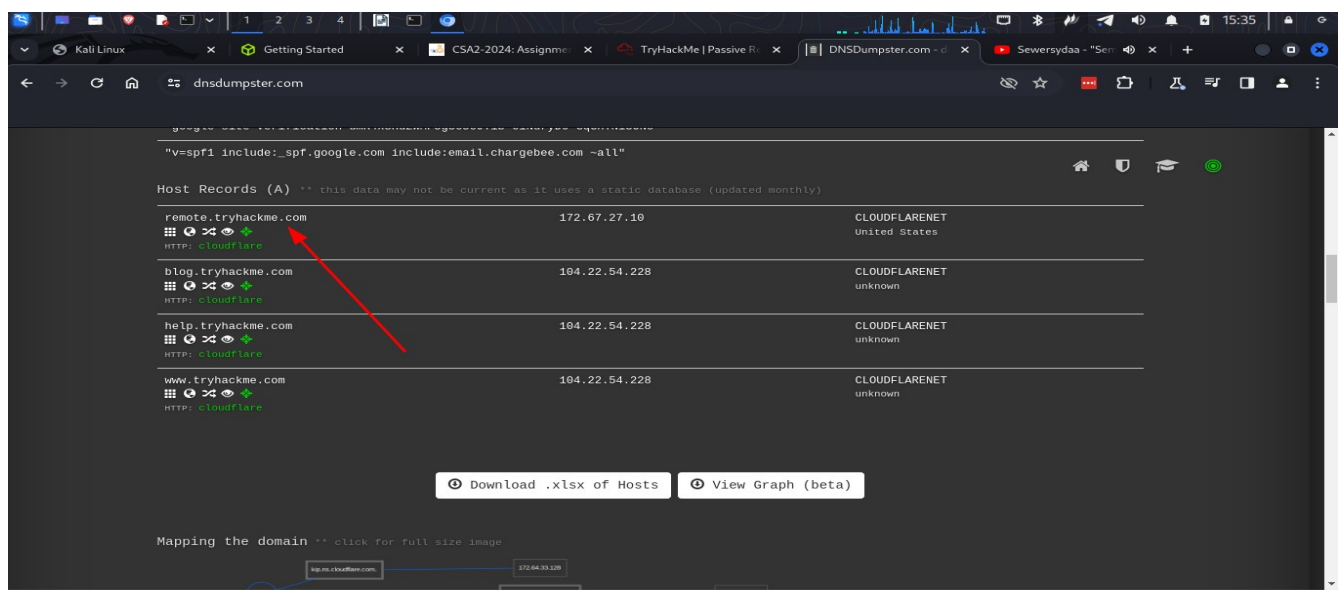
Questions

1.

Lookup tryhackme.com on DNSDumpster. What is one interesting subdomain that you would discover in addition to www and blog?

remote

✓ Correct Answer



Host Records (A)	IP	Provider
remote.tryhackme.com	172.67.27.10	CLOUDFLARENET United States
blog.tryhackme.com	104.22.54.228	CLOUDFLARENET unknown
help.tryhackme.com	104.22.54.228	CLOUDFLARENET unknown
www.tryhackme.com	104.22.54.228	CLOUDFLARENET unknown

Mapping the domain ** click for full size image

Shodan.io

- Helps to learn information about a target network without actively connecting to it
- Can also learn about connected and exposed devices belonging to an organization
- It tries to connect to every device online to build a search engine of connected things.

Questions

1.

According to Shodan.io, what is the 2nd country in the world in terms of the number of publicly accessible Apache servers?

germany

✓ Correct Answer

🔑 Hint

Based on Shodan.io, what is the 3rd most common port used for Apache?

The screenshot shows the Shodan.io search results for the query 'apache'. The interface is dark-themed. At the top, there's a search bar with 'apache' entered and a 'Login' button. Below the search bar, the 'TOTAL RESULTS' are displayed as 19,752,808. To the left, there's a 'TOP COUNTRIES' section with a world map and a list of countries. A red arrow points to 'Germany' in the list. To the right, there's a 'Batch Testing DFA' section with a list of IP addresses and domains. Another red arrow points to the 'cloud' tag in this section. Further right, there's an 'SSL Certificate' section with details about the certificate, including the issuer, subject, and expiration date. A red arrow points to the 'Server: Apache/2.4.57 (Ubuntu)' line in the 'HTTP/1.1 200 OK' response details.

Country	Count
United States	5,738,487
Germany	1,915,397
Japan	1,691,972
China	1,366,881
France	857,966

2.

Based on Shodan.io, what is the 3rd most common port used for Apache?

8080

✓ Correct Answer

🔑 Hint

The screenshot shows the Shodan.io search results for the query 'apache'. The interface is dark-themed. At the top, there's a search bar with 'apache' entered and a 'Login' button. Below the search bar, the 'TOTAL RESULTS' are displayed as 19,752,808. To the left, there's a 'TOP PORTS' section with a list of ports. A red arrow points to '8080' in the list. To the right, there's a 'Batch Testing DFA' section with a list of IP addresses and domains. Another red arrow points to the 'cloud' tag in this section. Further right, there's an 'SSL Certificate' section with details about the certificate, including the issuer, subject, and expiration date. A red arrow points to the 'Server: Apache' line in the 'HTTP/1.1 200 OK' response details.

Port	Count
80	8,142,928
443	6,878,256
8080	402,548
5006	186,382
8081	179,876

3.

Based on Shodan.io, what is the 3rd most common port used for nginx?

5001

✓ Correct Answer

💡 Hint

TOP PORTS		nginx-ha-01.dolist.net Dolist.net - Bordeaux France, Bordeaux	Issued By: Common Name: R3 Organization: Let's Encrypt Issued To: Common Name: info.medef.com Supported SSL Versions: TLSv1, TLSv1.1, TLSv1.2 Diffie-Hellman	Date: Mon, 27 May 2024 12:42:52 GMT Content-Type: text/html Content-Length: 1749 Connection: keep-alive Last-Modified: Mon, 03 May 2021 14:23:41 GMT Accept-Ranges: bytes ETag: "a387dbea2740d71:0" X-Powered-By: ASP.NET
80	12,540,346			
443	9,502,313			
5001	763,054			
5000	714,674			
8888	612,232			
More...				

tryhackme.com/r/room/passiverecon

TryHackMe Dashboard Learn Compete Other Access Machines Go Premium 1

Jr Penetration Tester > Network Security > Passive Recon

Passive Recon

Learn about the essential tools for passive reconnaissance. Easy 60 min

Start AttackBox Help

Task 1 Introduction

Task 2 Passive Versus Active Recon

Task 3 Whois

Congratulations!

You've completed the room! Share this with your friends:

Twitter Facebook LinkedIn

Leave feedback

Conclusion

- In this room I was able to through some of the tools that make it possible to access information that is publicly available(passive reconnaissance). The tools include whois, nslookup and dig. I also learnt about shodan.io and DNSDumpster which helps in collection of information.