Red Team Recon: TryHackMe

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Introduction

Red team reconnaissance refers to the process of gathering information and conducting intelligence gathering activities from the perspective of an attacker or "red team." In this module, we will explore the fascinating world of red team reconnaissance, where we gather important information to identify potential weaknesses in security. We will learn about specialized search engines like ViewDNS.info and Shodan, as well as a cool tool called Recon-ng. These tools will help us gather information and understand how to find vulnerabilities.

Task 1: built-in tools.

In this section, we will explore tools such as Whois, Nslookup, Dig, and Host. These tools help us gather information about domains, IP addresses, and DNS records, enabling us to understand target ownership, perform DNS lookups, and retrieve important details for effective reconnaissance. Here is how to solve specific tasks in this section.

Task 1a. To get When was thmredteam.com created do whois thmredteam.com.

```
root@ip-10-10-79-83:~

<u>F</u>ile <u>E</u>dit <u>V</u>iew <u>S</u>earch <u>T</u>erminal <u>H</u>elp
-oot@ip-10-10-79-83:~# whois thmredteam.com
```

```
The Registry database contains ONLY .COM, .NET, .EDU do
Donain name: thmredteam.com
Registry Domain ID: 2643258257_DOMAIN_COM-VRSN
Registrar NHDI5 Server: whois namecheap.com
Registrar URL: http://www.namecheap.com
Updated Date: 6001-01-01700:00:00.002
Creation Date: 2021-09-24T14:04:16.007
Registrar Registration Expiration Date: 2022-09-24T14:04
Registrar: NAMECHEAP INC
Registrar IANA ID: 1668
Registrar Abuse Contact Email: abusegnamecheap.com
Registrar Abuse Contact Phone: +1.9854614545
Reseller: NAMECHEAP INC
 omain Status: clientTransferProhibited https://icann.or
 egistry Registrant ID:
Registrant Name: Redacted for Privacy
Registrant Organization: Privacy service provided by Wit
Registrant Street: Kalkofnsvegur 2
Registrant City: Reykjavik
Registrant State/Province: Capital Region
Registrant Postal Code: 101
 gistrant Country: IS
gistrant Phone: +354.4212434
egistrant Phone Ext:
Registrant Fax:
Registrant Fax Ext:
Registrant Email: e17b7976233e4e72a76b3dadb1d574bd.prote
 egistry Admin ID:
idmin Name: Redacted for Privacy
idnin Organization: Privacy service provided by Withheld
Idnin Street: Kalkofnsvegur Z
 dmin City: Reykjavik
dmin State/Province: Capital Region
 dmin Postal Code: 161
  inin Country: IS
```

Task 2. To find how many IPv4 and IPV6 addresses does clinic.thmredteam.com resolve, do host clinic.thmredteam.com

```
root@ip-10-10-79-83:~# host clinic.thmredteam.com
clinic.thmredteam.com has address 104.21.93.169
clinic.thmredteam.com has address 172.67.212.249
clinic.thmredteam.com has IPv6 address 2606:4700:3034::
ac43:d4f9
clinic.thmredteam.com has IPv6 address 2606:4700:3034::
6815:5da9
```

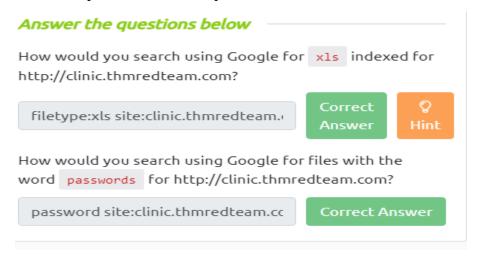
Here is completion for this section.



Task 2: Advanced Sharing.

The Advanced Searching section in this module explores techniques to enhance reconnaissance by using advanced search operators, search engine dorks, and open-source intelligence (OSINT). These methods help extract valuable information, refine search queries, and uncover potential vulnerabilities. To complete this section, see the description below.

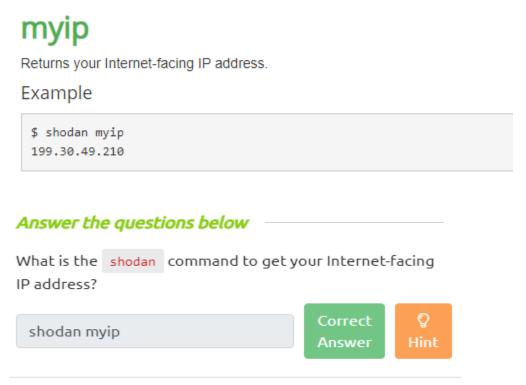
Task 2 a, b: This task needs to read on introduction part of this section. Here is the screenshot showing completion of this section. The answers below mean that you are searching for xls and password but on a specific site which is clinic.thmredteam.com.



Task 3: specialized search engine

In this section, we will learn about specialized search engines like ViewDNS.info and Threat Intelligence Platforms. These tools are designed specifically for cybersecurity professionals and provide valuable information related to domains, IP addresses, DNS records, and potential threats. By utilizing these specialized search engines, we can gather targeted intelligence and enhance our reconnaissance efforts. We will also learn about Shodan. By using Shodan, we can identify and analyze internet-connected devices, such as webcams, routers, and servers, to gain insights into their configurations and potential security risks.

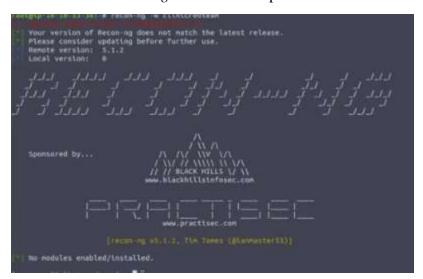
To complete this task, search https://cli.shodan.io/ and scroll down to find the command shown below.



Task 4. Recon-ng

Recon-ng is a powerful reconnaissance framework used to gather information and conduct active reconnaissance on target systems, networks, and web applications. Recon-ng provides a wide range of modules and functionalities that aid in data collection from various sources, including public APIs, search engines, social media platforms, and more. By leveraging Reconng, red teamers can efficiently gather valuable intelligence, identify potential vulnerabilities, and analyze their targets, enhancing the overall effectiveness of the reconnaissance phase in a red team engagement. To complete this section, see the screenshot below.

To start recon-ng with the workspace clinicredteam do recon-ng -w clinicredteam



To find how many modules with the name virustotal exist, do *marketplace search* virustotal command.

```
recon-ng[[clinicrediesn] > marketplace search virustotal

Searching module index fur 'wirustotal'...

| Path | Version | Status | Undated | D | K |
| Pacon/hosts-hosts/wirustotal | 120 mot installed | 2019-00-342 | D |
| Pacon/hosts-hosts/wirustotal | 1.0 | not installed | 2019-06-24 | D |
| D = Nos dependencies. See info for details.

K = Requires keys. See info for details.

[recon-ng][clinicrediesn] >
```

To find the name of the module under hosts-domains, do marketplace search host-domain

```
[recon-ng][clinicredizem] > marketplace search Hosts-domain
Searching module index for 'hosts-domain'...

| Poth | Versiam | Status | Updated | D | K |
| recon/hosts-domains/Sitesis-hosts | 1.5 | not installed | 2020-05-17 | | |
| D = Hos dependencies. See info for details.
| K = Requires keys. See info for details.
```

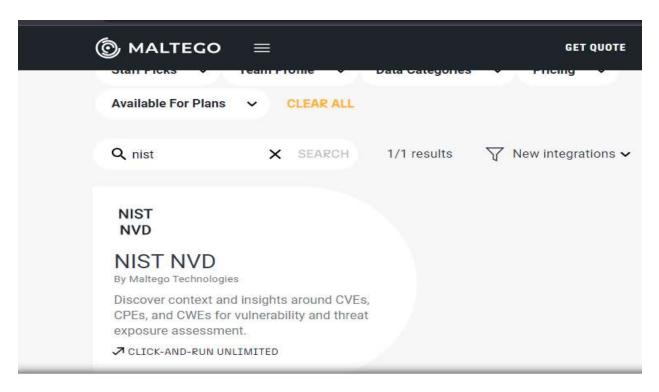
To find the author of censys_email_address do marketplace info censys_email_address

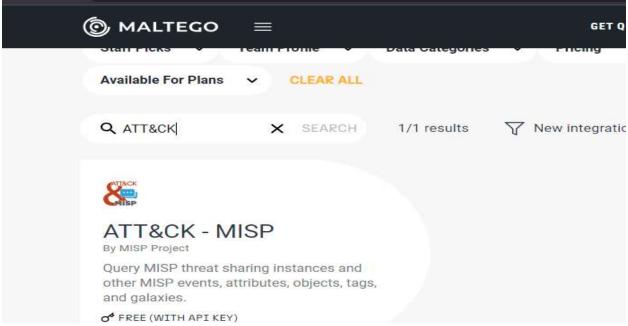
Here is the completion screenshot of this section.



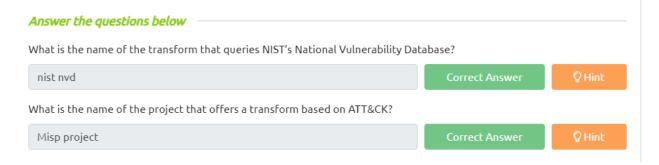
Task 5: Maltego

Maltego is a reconnaissance tool that gathers and visualizes information about individuals, organizations, and networks. It connects and analyzes diverse data sources to identify connections and patterns, providing valuable insights for cybersecurity engagements. To complete this section, you can find answers in this link https://www.maltego.com/transform-hub/

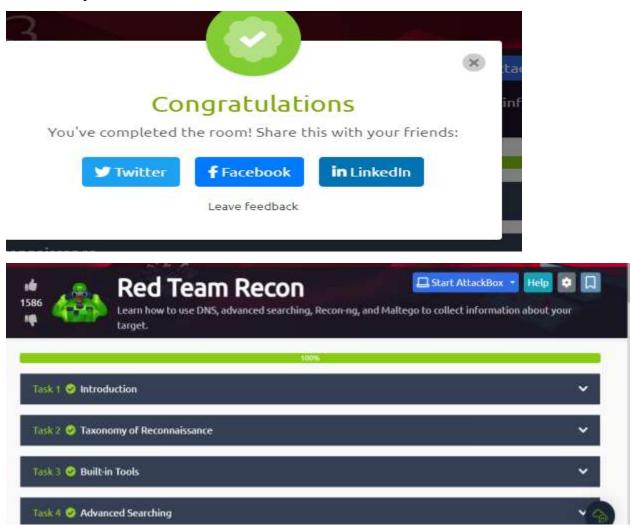




Here is completion for this section



Here is completion level for the module and sharable link



Link: https://tryhackme.com/room/redteamrecon

Conclusion

Completing the Red Team Recon assignment on TryHackMe has been an amazing learning experience. We have discovered how to use specialized search engines like ViewDNS.info and

Shodan, and we've also learned about a handy tool called Recon-ng. These tools have taught us how to gather important information and identify security weaknesses. We now feel more confident in our ability to contribute to cybersecurity efforts. This assignment has provided us with practical knowledge and hands-on experience that we can apply in real-world situations.