

Aim:

To Discover Live Hosts using Nmap Scans
on Try Hack Me platform.

Introduction: (Task 1)

- * Their experiment outlines process Nmap takes before port-scanning to find systems are online.
 - * The following info that will be covered in an attempt to discover live hosts.
- >
- i) ARP scan: Uses ARP requests to discover live hosts.
 - ii) ICMP scan: Uses ICMP requests to identify live hosts.
 - iii) TCP / UDP : Sends Packets to TCP ports e
Ping scan & UDP ports to determine live hosts.

There will be 2 scenario's introduced:-

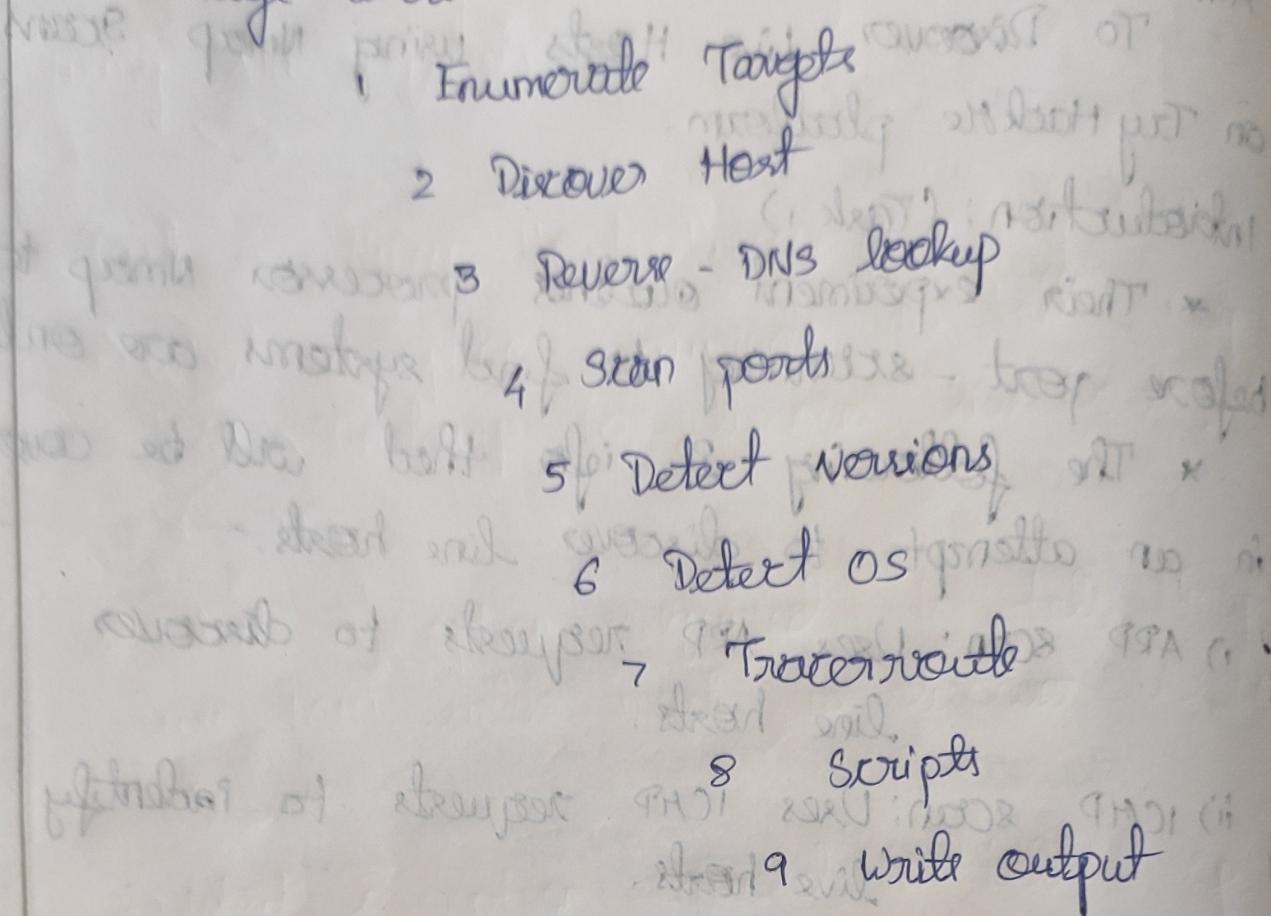
i) arp-scan

ii) nmap

* Nmap (Network mapper) → well-known tool for mapping networks, locating live hosts, detecting turning devices.

* It extend its capabilities, such as Fingerprinting, exploiting flaws.

* The scan follows the steps represented in the image below.



Task 2 Subnetwork

1) How many devices can see ARP request?

=> 4

2) Did computer 6 receive ARP request?

=> N

3) How many devices can see ARP request?

=> 4

4) Did computer reply to ARP request?

=> Y

envelope privilege, privilege

Task 3 Enumerating Targets:

- 1) What is first IP address Nmap would scan if you provide range $10.10.10.10 - 255.101 - 125$?
⇒ $10.10.10.8$
- 2) How many IP address will Nmap scan if you provide range $10.10.10 - 255.101 - 125$?
⇒ 6500

Task 4: Discovering Live Hosts:

- 1) What is type of packet computer sent before the ping?
⇒ ARP request.
- 2) What is the type of packet that computer received before being able to send ping?
⇒ ARP response.
- 3) How many computers responded to the ping request
⇒ 1
- 4) What is name of first device respond to first ARP request?
⇒ Router
- 5) What is name of first device respond to second ARP request?
⇒ Computer
- 6) Send another ping request. Did it require new ARP requests?
⇒ N.

Task 5 Nmap Host Discovery Using ARP:

- 1) How many device are you able to discover using ARP requests?

⇒ 3

Task 6 Nmap Host Discovery Using ICMP:

- 1) What is option required to tell Nmap to use ICMP Timestamp to discover live hosts?

⇒ -PE

- 2) What is option required to tell Nmap to use ICMP echo reply to discover live hosts?

⇒ -PM

- 3) What is option required to tell Nmap to use ICMP Echo to discover live hosts?

⇒ -PE

Task 7:

- 1) Which TCP ping scan does not require a privileged account?

⇒ TCP SYN ping

- 2) Which TCP ping scan requires a privileged account?

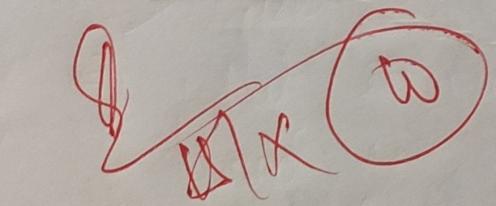
⇒ TCP ACK ping

3) What option do you need to add Nmap
to run on telnet port?
⇒ - P23

(55)

Task 8:

i) We want Nmap to serve reverse DNS. What
option should we add?
⇒ - R



Result:

Live Hosts using Nmap scans on
TryHackMe platform.