EXP NO: 08 Nmap to discover live hosts

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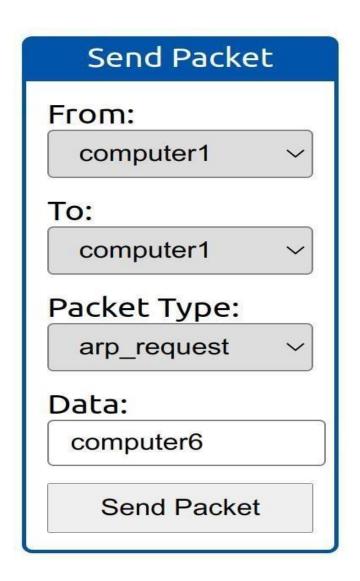
AIM:

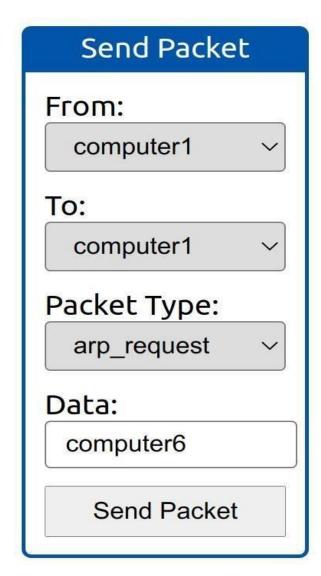
To use Nmap to discovery live hosts using ARP Scan ,ICMP scan , and TCP/UDP Ping Scan in the tryhackme platform.

TASK: 2 - SUBNETWORKS:

Send a packet with following

- 1. From computer 1
- 2. To computer1 (to indicate it is broadcast)





- 3. From computer1
- 4. To computer 1 (to indicate it is bro

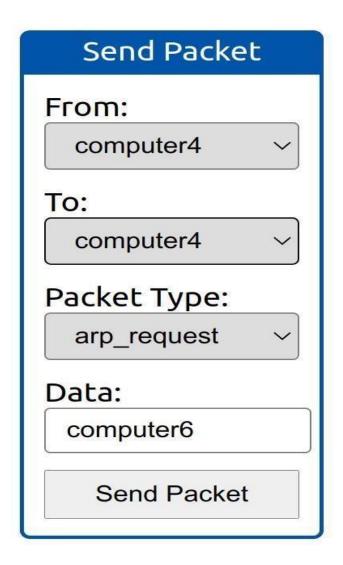
- 3. From Computers
- 4. To computer1(to dicate it is broadcast)
- 5.Packet Type: "ARP Request"
- 6. Data: computer6 (because we are asking for computer6 MAC address using ARP Request)

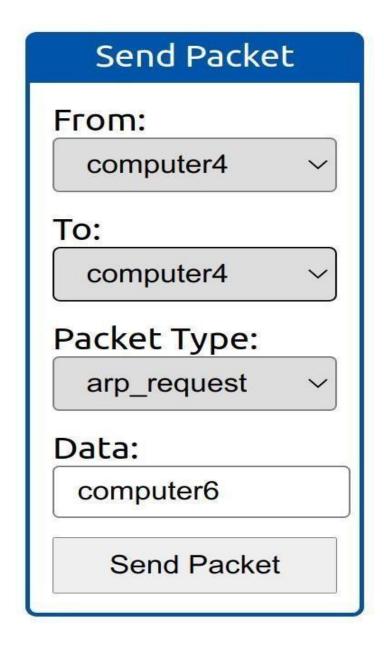
How many devices can see the ARP Request?

Ans:4

Did computer6 receive the ARP Request ? (Y / N) Ans : N

Send a packet with the following:





1. From computer4

2. To computer4 (to indicate it is broadcast)

3. Packet Type: "ARP Request"

4. Data: computer6 (because we are asking for computer6 MAC address using ARP Request)

How many devices can asee the ARP Request?

Ans: 4

Did computer6 reply to the ARP Request ? (Y / N) Ans : Y

TASK - 3 : Enumerating Targets

What is the first IP address Nmap would scan if you provided 10.10.12.13/29 as your target?

Ans: 10.10.12.8

How many IP addresses will Nmap scan if you provide the following range 10.10.0-255.101-125?

Ans: 6400

TASK - 4: Discovering Live Hosts

Send a packet with following:

1. From computer 1

2. To computer3

3. Packeet Type: "Ping Request"

What is the type of packet that computer 1 sent before the ping?

Ans : ARP Resquest

How many computers responded to the ping request? Ans: 1

Send a packet with following:

1. From computer 2

2. To computer5

3. Packet Type: "Ping Request"

What is the name of the first device that responded to the first ARP Request? Ans: router

What is the name of the first device that responded to the second ARP Request? Computer5

Send another Ping request.Did it required new ARP Requests? (Y / N)

Ans: N

TASK - 5: Nmap Host Discovery Using ARP

We will be sending broadcast ARP Requests packets with the following options:

- From computer1
- To computer1 (to indicate it is broadcast)
- Packet Type: "ARP Request"
- Data: try all the possible eight devices (other than computer1) in the network: computer2, computer3, computer4, computer5, computer6, switch1, switch2, and router.

How many devices are you able to discover using ARP requests?

Ans:3

TASK - 6: Nmap Host Discovery Using ICMP Nmap

Host Discovery Using ICMP:

What is the option required to tell Nmap to use ICMP Timestamp to discover live hosts? Ans: - PP

What is the option required to tell Nmap to use ICMP Address Mask to discover live hosts?

Ans:-PM

What is the option required to tell Nmap to use ICMP Echo to discover live hosts?

Ans:-PE

TASK - 7: Nmap Host Discovery Using TCP and UDP
Which TCP ping seen does not require a privileged seese

Which TCP ping scan does not require a privileged account? Ans: TCP

SYN Ping

Which TCP ping scan requires a privileged account? Ans: TCP ACK Ping

What option do you need to add to Nmap to run a TCP SYN ping scan on the telnet port? Ans: -PS23

TASK - 8: Using Reverse - DNS Lookup

We want Nmap to issue a reverse DNS lookup for all the possibles hosts on a subnet, hoping to get some insights from the names. What option should we add? Ans:-R

RESULT:

Nmap to discover live host usng ARP scan ,ICMP scan and TCP/UDP ping scan in the tryhackme platform.