

EX. NO. : 12
DATE: 22.09.2025

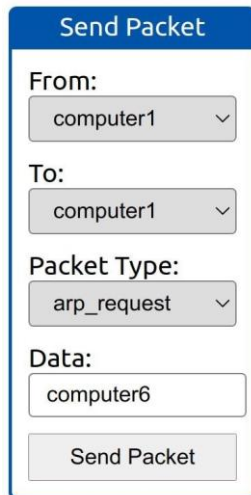
Nmap to discover live hosts

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

A screenshot of a 'Send Packet' form. It has a blue header with the text 'Send Packet'. Below the header, there are four fields: 'From:' with a dropdown menu showing 'computer1', 'To:' with a dropdown menu showing 'computer1', 'Packet Type:' with a dropdown menu showing 'arp_request', and 'Data:' with a text input field containing 'computer6'. At the bottom of the form is a 'Send Packet' button.

Send Packet

From:
computer1

To:
computer1

Packet Type:
arp_request

Data:
computer6

Send Packet

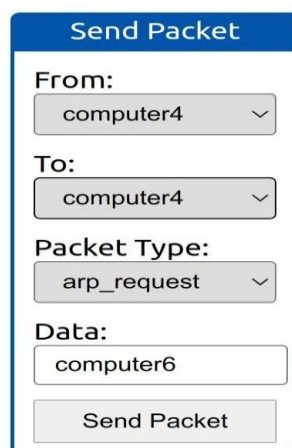
- 1.From computer1
- 2.To computer1 (to indicate it is broadcast)
- 3.Packet Type: “ ARP Request”
- 4.Data : computer6 (because we are asking for computer6 MAC address using ARP Request)

How many devices can see the ARP Request?

Ans : 4

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

Send a packet with the following:

A screenshot of a 'Send Packet' form. It has a blue header with the text 'Send Packet'. Below the header, there are four fields: 'From:' with a dropdown menu showing 'computer4', 'To:' with a dropdown menu showing 'computer4', 'Packet Type:' with a dropdown menu showing 'arp_request', and 'Data:' with a text input field containing 'computer6'. At the bottom of the form is a 'Send Packet' button.

Send Packet

From:
computer4

To:
computer4

Packet Type:
arp_request

Data:
computer6

Send Packet

- 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 see 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 computer1
- 2.To computer3
- 3.Packet Type : “Ping Request”

What is the type of packet that computer1 sent before the ping ?

Ans : ARP Request

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

Send a packet with following:

- 1.From computer2
- 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 require 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 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 possible 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 using ARP scan, ICMP scan and TCP/UDP ping scan in the tryhackme platform.