

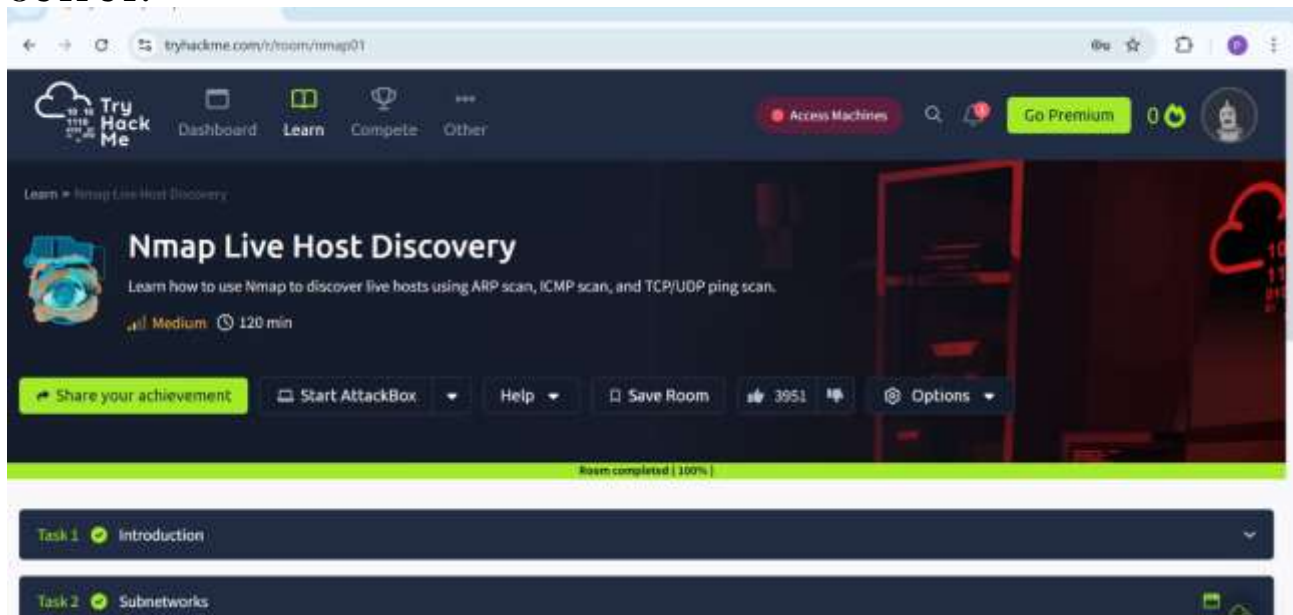
EXP NO:8**NMAP TO DISCOVER LIVE HOSTS****DATE:4.9.24****AIM:**

To learn how to use Nmap to discover live hosts using ARP scan, ICMP scan and TCP/UDP ping scan.

PROCEDURE:

To perform the Nmap to discover the live hosts the following tasks need to be performed.

- ☐ TASK 1:Introduction
- ☐ TASK2: Subnetworks
- ☐ TASK 3:Enumerating Targets
- ☐ TASK 4:Discovering Live hosts
- ☐ TASK 5:Nmap host discovery using ARP
- ☐ TASK 6:Nmap host discovery using ICMP
- ☐ TASK 7:Nmap host discovery using TCP and UDP
- ☐ TASK 8: Using reverse-dns lookup
- ☐ TASK 9:Summary

OUTPUT:

TASK 1:INTRODUCTION

Answer the questions below

Some of these questions will require the use of a static site to answer the task questions, while others require the use of the AttackBox and the target VM.

Not answer needed

✓ Correct Answer

TASK2: SUBNETWORKS

Answer the questions below

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

10.10.12.8

✓ Correct Answer

🔍 Hint

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

6400

✓ Correct Answer

🔍 Hint

TASK 3:ENUMERATING TARGETS

Answer the questions below

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

10.10.12.8

✓ Correct Answer

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

6400

✓ Correct Answer

TASK 4:DISCOVERING LIVE HOSTS

Answer the questions below

Send a packet with the following:

- From computer1
- To computer3
- Packet Type: "Ping Request"

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

ARP Request

✓ Correct Answer

What is the type of packet that computer1 received before being able to send the ping?

ARP Response

✓ Correct Answer

How many computers responded to the ping request?

1

✓ Correct Answer

Send a packet with the following:

- From computer2
- To computer5
- Packet Type: "Ping Request"

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

router

✓ Correct Answer

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

computer5

✓ Correct Answer

Send another Ping Request. Did it require new ARP Requests? (Y/N)

N

✓ Correct Answer

TASK 5:NMAP HOST DISCOVERY USING ARP

Answer the questions below

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?

3

✓ Correct Answer

TASK 6:NMAP HOST DISCOVERY USING ICMP

Answer the questions below

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

✓ Correct Answer

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

✓ Correct Answer

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

✓ Correct Answer

TASK 7:NMAP HOST DISCOVERY USING TCP AND UDP

Answer the questions below

Which TCP ping scan does not require a privileged account?

✓ Correct Answer

Which TCP ping scan requires a privileged account?

✓ Correct Answer

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

✓ Correct Answer

💡 Hint

TASK 8: USING REVERSE-DNS LOOKUP

Answer the questions below

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?

✓ Correct Answer

TASK 9: SUMMARY

Answer the questions below

Ensure you have taken note of all the Nmap options explained in this room. To continue learning about Nmap, please join the room [Nmap Basic Port Scans](#), which introduces the basic types of port scans.

No answer needed

✓ Correct Answer

RESULT:

Nmap to discover live hosts using ARP scan,ICMP scan and TCP and UDP ping scan in the tryhackme platform.