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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:

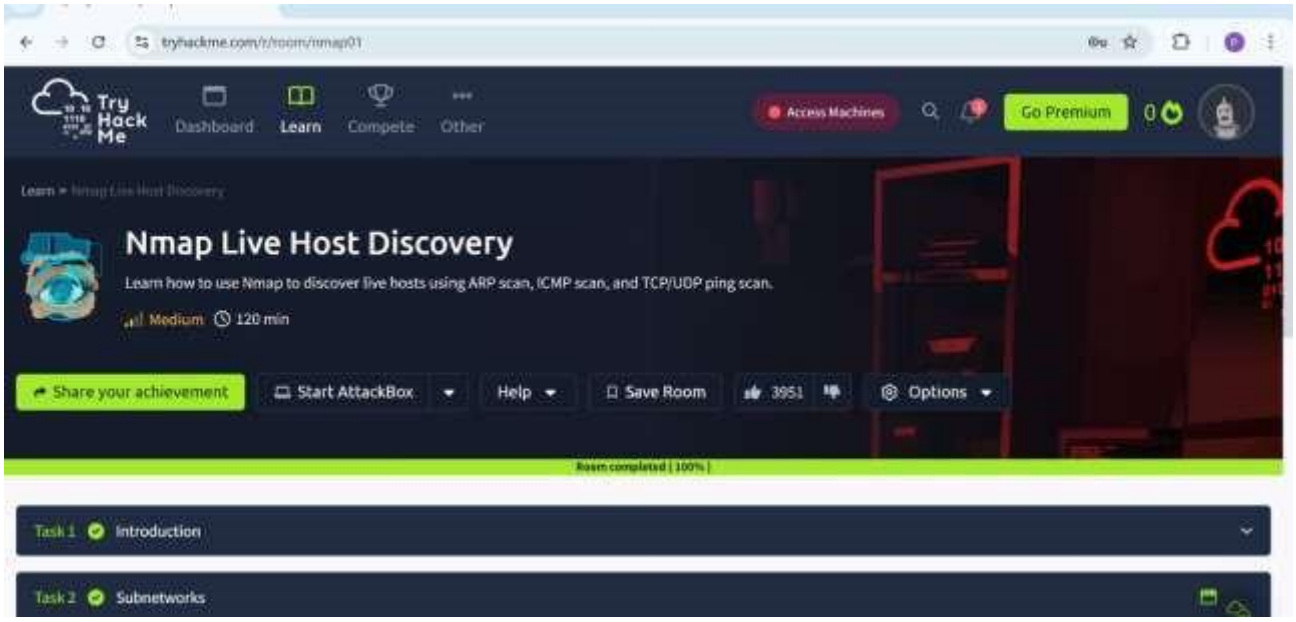
To perform the Nmap to discover the live hosts the following tasks need to be performed.

- 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

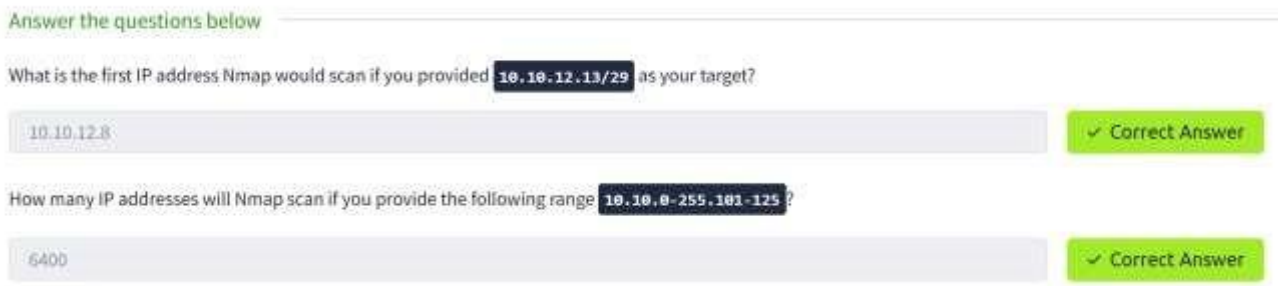
OUTPUT:



TASK 1:INTRODUCTION

TASK2: SUBNETWORKS

TASK 3:ENUMERATING TARGETS



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

TASK 7:NMAP HOST DISCOVERY USING TCP AND UDP

TASK 8: USING REVERSE-DNS LOOKUP

TASK 9: SUMMARY

RESULT:

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