EXP NO:8 NMAP TO DISCOVER LIVE HOSTS M.MOHANA

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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.

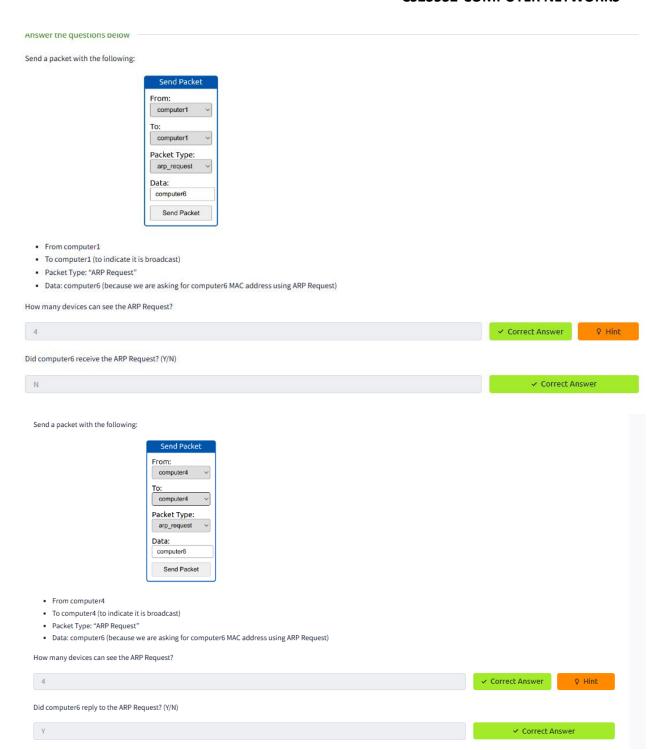
- * TASK 1:Introduction
- * TASK2: Subnetworks
- * TASK 3:Enumerating Targets
- * TASK 4:Discovering Live hosts
- * TASK 5:Nmap host discovery using ARP
- * TASK 6:Nmap host discovery using ICMP
- * TASK 7:Nmap host discovery using TCP and UDP
- * TASK 8: Using reverse-dns lookup
- * TASK 9:Summary

OUTPUT:

TASK 1:INTRODUCTION



TASK2: SUBNETWORKS



TASK 3:ENUMERATING TARGETS

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	V Hint
How many IP addresses will Nmap scan if you provide the following range 10.10.0-255.101-125?		
6400	✓ Correct Answer	Q Hint
FASK 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 Ans	swer
How many computers responded to the ping request?		
1	✓ Correct Ans	swer
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 Ans	swer
What is the name of the first device that responded to the second ARP Request?		
computer5	✓ Correct Ans	swer
Send another Ping Request. Did it require new ARP Requests? (Y/N)		
N	✓ Correct Ans	swer

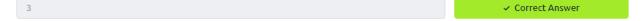
TASK 5:NMAP HOST DISCOVERY USING ARP

Answer the questions below

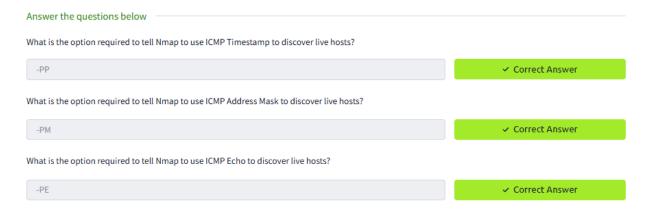
We will be sending broadcast ARP Requests packets with the following options:

- 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.

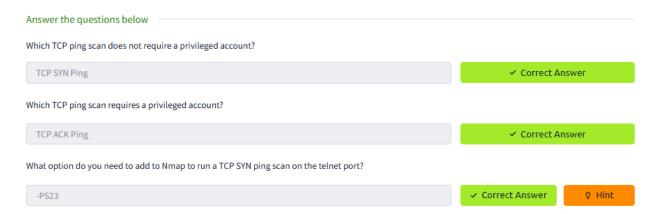
How many devices are you able to discover using ARP requests?



TASK 6:NMAP HOST DISCOVERY USING ICMP



TASK 7:NMAP HOST DISCOVERY USING TCP AND UDP



✓ Correct Answer

TASK 8: USING REVERSE-DNS LOOKUP

Answer the questions below

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?

-R

-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.

RESULT:

No answer needed

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