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EXP NO:8 NMAP TO DISCOVER LIVE HOSTS

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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.

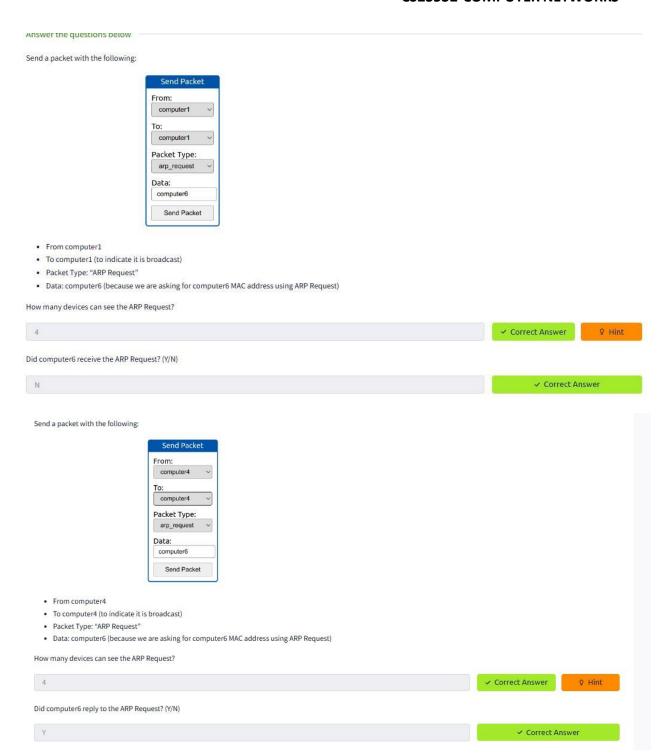
- * TASK 1:Introduction
- * TASK2: Subnetworks
- * TASK 3:Enumerating Targets
- * TASK 4:Discovering Live hosts
- * TASK 5:Nmap host discovery using ARP
- * TASK 6:Nmap host discovery using ICMP
- * TASK 7:Nmap host discovery using TCP and UDP
- * TASK 8: Using reverse-dns lookup
- * TASK 9:Summary

OUTPUT:

TASK 1:INTRODUCTION

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. No answer needed Correct Answer	Answer the questions below	
No answer needed Correct Answer	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	e target VM.
	No answer needed	✓ Correct Answer

TASK2: SUBNETWORKS



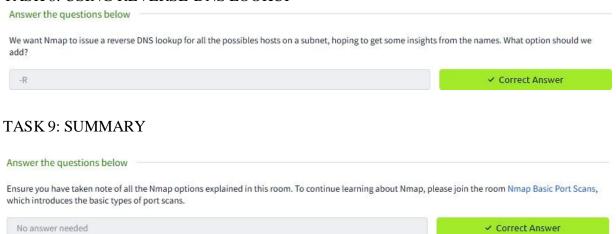
TASK 3:ENUMERATING TARGETS

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	♥ 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 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 A	ınswer
What is the type of packet that computer1 received before being able to send the ping?		
ARP Response	✓ Correct A	inswer
How many computers responded to the ping request?		
1	✓ Correct A	ınswer
Send a packet with the following:		
From computer2		
To computerS		
Packet Type: "Ping Request"		
What is the name of the first device that responded to the first ARP Request?		
router	✓ Correct A	inswer
What is the name of the first device that responded to the second ARP Request?		
computer5	✓ Correct A	inswer
Send another Ping Request. Did it require new ARP Requests? (Y/N)		
Ň	✓ Correct A	ınswer

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? ✓ 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? -PP ✓ Correct Answer What is the option required to tell Nmap to use ICMP Address Mask to discover live hosts? -PM 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? TCP SYN Ping ✓ Correct Answer Which TCP ping scan requires a privileged account? TCP ACK Ping ✓ 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 -PS23

TASK 8: USING REVERSE-DNS LOOKUP



RESULT:

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