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NMAP TO DISCOVER LIVE HOSTS USING ARP/ICMP/TCP/UDP/PING SCAN

AIM:

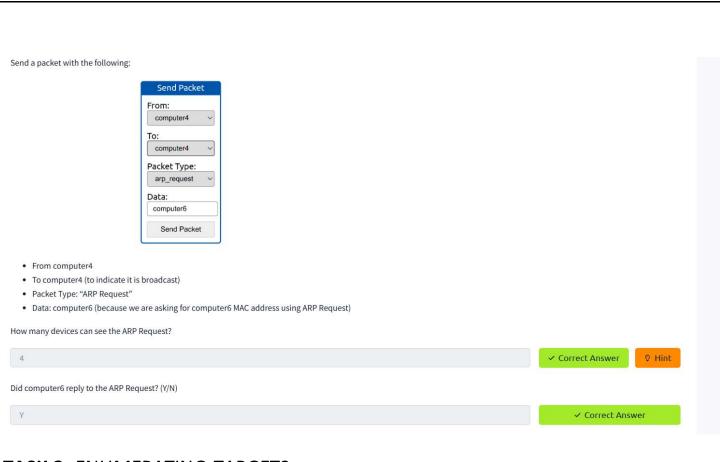
To perform nmap to discover live hosts using ARP/ICMP/TCP/UDP/PING SCAN.

TASK 1: INTRODUCTION

In this module we focus on discovering live hosts on a network using Nmap.Finding which systems are in online is crucial before scanning ports or services to save time and avoid unnecessary network traffic.This forms the foundation for effective network mapping and security auditing.

TASK 2: SUBNETWORKS

Send a packet with the following: Send Packet From: computer1 computer1 Packet Type: arp_request Data: computer6 Send Packet From computer1 · To computer1 (to indicate it is broadcast) · Packet Type: "ARP Request" · Data: computer6 (because we are asking for computer6 MAC address using ARP Request) How many devices can see the ARP Request? ✓ Correct Answer Did computer6 receive the ARP Request? (Y/N) ✓ Correct Answer



TASK 3: ENUMERATING TARGETS



TASK 4: DISCOVERING LIVE HOSTS

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

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

✓ Correct Answer ARP Request What is the type of packet that computer1 received before being able to send the ping? ✓ Correct Answer ARP Response How many computers responded to the ping request? ✓ Correct Answer

Send a packet with the following:

- · From computer2

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?

3

TCP ACK Ping

✓ Correct Answer

✓ Correct Answer

TASK 6: NMAP HOST DISCOVERY USING ICMP

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

-PP	✓ Correct Answer
/hat is the option required to tell Nmap to use ICMP Address Mask to discover live hosts?	
-PM	✓ Correct Answer
hat is the option required to tell Nmap to use ICMP Echo to discover live hosts?	
-PE	✓ Correct Answer

TASK 7: NMAP HOST DISCOVERY USING TCP/UDP

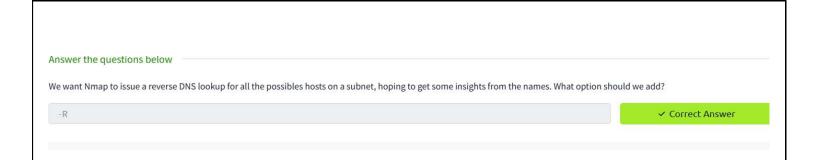
Answer the questions below

Which TCP ping scan does not require a privileged account?

TCP SYN Ping

Correct Answer

Which TCP ping scan requires a privileged account?



RESULT:

Thus, the Nmap using to discoverf live hosts using ARP, ICMP, TCP, UDP have been done successfully.