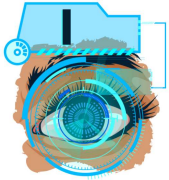Jr Penetration Tester > Network Security > Nmap Live Host Discovery

Nmap Live Host Discovery

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

📶 Medium   🕐 120 min

Access Machines   🔍   4   1 🔥

Task 1 ✅ Introduction

Room completed (100%)

Task 2 ✅ Subnetworks   🗔

Task 3 ✅ Enumerating Targets

We mentioned the different *techniques* we can use for scanning in Task 1. Before we explain each in detail and put it into use against a live target, we need to specify the targets we want to scan. Generally speaking, you can provide a list, a range, or a subnet. Examples of target specification are:

- list: `MACHINE_IP scanme.nmap.org example.com` will scan 3 IP addresses.
- range: `10.11.12.15-20` will scan 6 IP addresses: `10.11.12.15` , `10.11.12.16` ,… and `10.11.12.20` .
- subnet: `MACHINE_IP/30` will scan 4 IP addresses.

You can also provide a file as input for your list of targets, `nmap -iL list_of_hosts.txt` .

If you want to check the list of hosts that Nmap will scan, you can use `nmap -sL TARGETS` . This option will give you a detailed list of the hosts that Nmap will scan without scanning them; however, Nmap will attempt a reverse-DNS resolution on all the targets to obtain their names. Names might reveal various information to the pentester. (If you don't want Nmap to the DNS server, you can add `-n` .)

Launch the AttackBox using the Start AttackBox button, open the terminal when the AttackBox is ready, and use Nmap to answer the following.

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

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

Created by

tryhackme   strategos

Room Type	Users in Room	Created
Free Room. Anyone can deploy virtual machines in the room (without being subscribed)!	168,140	1064 days ago