ElevateLabs Cybersecurity Internship 2025 DAY01 Task 01

Default nmap Scan on network: 172.20.10.2/28 r—(abhipnair⊕kali)-[~] └\$ sudo nmap 172.20.10.2/28 [sudo] password for abhipnair: Starting Nmap 7.94SVN (https://nmap.org) at 2025-05-26 19:20 IST Nmap scan report for 172.20.10.1 Host is up (0.00091s latency). Not shown: 996 closed tcp ports (reset) PORT STATE SERVICE 21/tcp open ftp 53/tcp open domain 49152/tcp open unknown 62078/tcp open iphone-sync MAC Address: E8:10:72:2D:1E:62 (Unknown) Nmap scan report for 172.20.10.3 Host is up (0.00023s latency). Not shown: 969 filtered tcp ports (no-response), 28 closed tcp ports (reset) PORT STATE SERVICE 21/tcp open ftp 22/tcp open ssh 80/tcp open http MAC Address: 08:00:27:ED:BE:6A (Oracle VirtualBox virtual NIC) Nmap scan report for 172.20.10.5 Host is up (0.00024s latency). All 1000 scanned ports on 172.20.10.5 are in ignored states. Not shown: 1000 closed tcp ports (reset) MAC Address: D2:F7:13:54:0F:23 (Unknown) Nmap scan report for 172.20.10.2 Host is up (0.0000050s latency). All 1000 scanned ports on 172.20.10.2 are in ignored states. Not shown: 1000 closed tcp ports (reset)

Nmap done: 16 IP addresses (4 hosts up) scanned in 7.96 seconds

TCP SYN or PING SCAN to check the hosts alive in ip: 172.20.10.2/28 —(abhipnair@kali)-[~] —\$ sudo nmap -sn 172.20.10.2/28 [sudo] password for abhipnair:

[sudo] password for abhipnair:
Starting Nmap 7.94SVN (https://nmap.org) at 2025-05-26 19:43 IST
Nmap scan report for 172.20.10.1
Host is up (0.00058s latency).
MAC Address: E8:10:72:2D:1E:62 (Unknown)
Nmap scan report for 172.20.10.3
Host is up (0.00023s latency).
MAC Address: 08:00:27:ED:BE:6A (Oracle VirtualBox virtual NIC)
Nmap scan report for 172.20.10.5
Host is up (0.00023s latency).
MAC Address: D2:F7:13:54:0F:23 (Unknown)
Nmap scan report for 172.20.10.2

Nmap done: 16 IP addresses (4 hosts up) scanned in 1.53 seconds

Host is up.

Nmap Agressive Scan to find open ports, services, service version, os fingerprinting, traceroute

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r—(abhipnair⊕kali)-[~]
└$ sudo nmap -A 172.20.10.2/28
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-05-26 19:25 IST
Stats: 0:00:31 elapsed; 12 hosts completed (3 up), 3 undergoing Script Scan
NSE Timing: About 94.66% done; ETC: 19:26 (0:00:00 remaining)
Nmap scan report for 172.20.10.1
Host is up (0.00070s latency).
Not shown: 996 closed tcp ports (reset)
                        VERSION
PORT
        STATE SERVICE
21/tcp
        open tcpwrapped
                       (generic dns response: NOTIMP)
53/tcp open domain
| fingerprint-strings:
   DNSVersionBindReqTCP:
  version
   bind
 root-servers
  nstld
|_ verisign-grs
49152/tcp open tcpwrapped
62078/tcp open tcpwrapped
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1 service unrecognized despite returning data. If you know the service/version,
please submit the following fingerprint at
https://nmap.org/cgi-bin/submit.cgi?new-service :
SF-Port53-TCP:V=7.94SVN%I=7%D=5/26%Time=683472E9%P=x86_64-pc-linux-gnu%r(D
SF: NSVersionBindReqTCP, 6B, \0i\0\x06\x81\x83\0\x01\0\0\x01\0\0\x07\xersio
SF:n\x04bind\0\x01\0\x001\0\x001\0\x001\0\x000\x001\0\x000\x001\0\x000\x001\x000\x001\x000\x001\x000\x001\x000\x001\x000\x001\x000\x000\x001\x000\x000\x001\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x000\x00
SF:0\0\x03\x84\0\t:\x80\0\x01\0\x80")%r(DNSStatusRequestTCP,E,"\0\x0c\0\0\x
SF:90\x04\0\0\0\0\0\0\0\0");
MAC Address: E8:10:72:2D:1E:62 (Unknown)
No exact OS matches for host (If you know what OS is running on it, see
https://nmap.org/submit/ ).
TCP/IP fingerprint: deleted due to security reasons
Network Distance: 1 hop
TRACEROUTE
HOP RTT ADDRESS
        0.70 ms 172.20.10.1
Nmap scan report for 172.20.10.3
Host is up (0.00035s latency).
Not shown: 969 filtered tcp ports (no-response), 28 closed tcp ports (reset)
PORT STATE SERVICE VERSION
21/tcp open ftp vsftpd 3.0.5
22/tcp open ssh OpenSSH 8.2p1 Ubuntu 4ubuntu0.11 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
        3072 67:bb:3c:82:b9:33:1f:28:87:33:a8:6b:c1:6a:72:97 (RSA)
        256 77:5b:0f:34:b3:41:75:54:f0:ce:ab:01:a2:4e:4a:7b (ECDSA)
       256 47:43:6c:16:51:2c:67:5d:50:3e:d7:47:d8:1b:cb:bb (ED25519)
80/tcp open http Apache httpd 2.4.41 ((Ubuntu))
|_http-title: Haunted CTF Challenge
|_http-server-header: Apache/2.4.41 (Ubuntu)
MAC Address: 08:00:27:ED:BE:6A (Oracle VirtualBox virtual NIC)
Aggressive OS guesses: Linux 5.0 - 5.4 (98%), Linux 4.15 - 5.8 (94%), Linux 5.1
(93%), Linux 2.6.32 - 3.13 (93%), Linux 2.6.39 (93%), Linux 5.0 - 5.5 (92%), Linux
2.6.22 - 2.6.36 (91%), Linux 3.10 - 4.11 (91%), Linux 5.0 (91%), Linux 3.10 (91%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 1 hop
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
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TRACEROUTE HOP RTT ADDRESS 0.35 ms 172.20.10.3 Nmap scan report for 172.20.10.5 Host is up (0.00012s latency). All 1000 scanned ports on 172.20.10.5 are in ignored states. Not shown: 1000 closed tcp ports (reset) MAC Address: D2:F7:13:54:0F:23 (Unknown) Too many fingerprints match this host to give specific OS details Network Distance: 1 hop **TRACEROUTE** HOP RTT ADDRESS 0.12 ms 172.20.10.5 Nmap scan report for 172.20.10.2 Host is up (0.000032s latency). All 1000 scanned ports on 172.20.10.2 are in ignored states. Not shown: 1000 closed tcp ports (reset) Too many fingerprints match this host to give specific OS details Network Distance: 0 hops OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ . Nmap done: 16 IP addresses (4 hosts up) scanned in 38.37 seconds

Note: This scan leaves much fingerprinting in the network so avoid while doing in real time pentesting.

Points to Note;

IP Address	MAC Address	Open Ports	Services & Versions
172.20.10.1	E8:10:72:2D:1E:62	21, 53, 49152, 62078	FTP (tcpwrapped), DNS (generic), Unknown TCP (tcpwrapped)
172.20.10.2	Unknown	None	All 1000 ports closed
172.20.10.3	08:00:27:ED:BE:6A	21, 22, 80	FTP (vsftpd 3.0.5), SSH (OpenSSH 8.2p1), HTTP (Apache 2.4.41, Ubuntu)
172.20.10.5	D2:F7:13:54:0F:23	None	All 1000 ports closed



Important Points to Note

1. Live Host Detection:

- 4 hosts are up using -sn ping scan.
- MAC addresses help identify vendor/hypervisor (e.g., VirtualBox detected on .3).

2. Filtered Ports:

 Host .3 had 969 filtered ports, indicating possible firewall or security group rules blocking access.

3. Aggressive Scan (-A) Outputs:

- Service versions, OS detection, and traceroute info collected.
- Host .3 revealed detailed service banners (vsftpd, OpenSSH, Apache).

4. Unusual/Open High Ports:

 Host .1 has ports 49152 and 62078 open (used by certain devices like iOS sync or dynamic RPC).

5. **OS Fingerprinting:**

- o OS detection succeeded partially:
 - .3: Linux 5.0-5.4 (approx. 98% certainty).
 - .1 and .5: Too many matches or inconclusive due to response fingerprinting limits.

6. TCPwrapped Services:

 Several ports (like FTP on .1) are marked as tcpwrapped, meaning they may drop connections without banners-common in hardened environments.

7. Nmap Footprint Warning:

 The aggressive scan leaves network fingerprints, making it unsuitable for stealthy or production environments.