

Nmap Project

Tool: Kali Linux(Nmap)

Project-Site: scanme.nmap.org

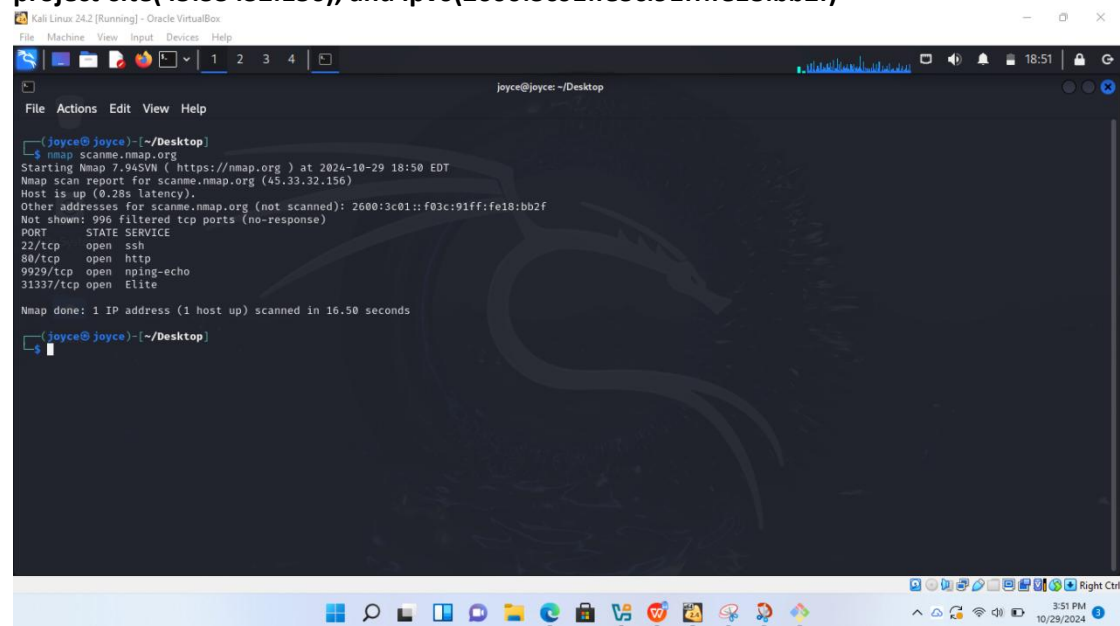
Project Objective: Learn Nmap and understand the results.

What is Nmap: Nmap (Network Mapper) is a an open source tool and software, used to scan for hosts and services, on a computer network. Its also used for security auditing, and information gathering(footprinting), and detection of vulnerabilities.

scanme.nmap.org

Scan Results:

This basic Nmap scan discovered four open ports, it also got the ipv4 address of the project-site(45.33.32.156), and ipv6(2600:3c01:fe3c:91ff:fe18:bb2f)



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Kali Linux 24.2 [Running] - Oracle VirtualBox
File Machine View Input Devices Help

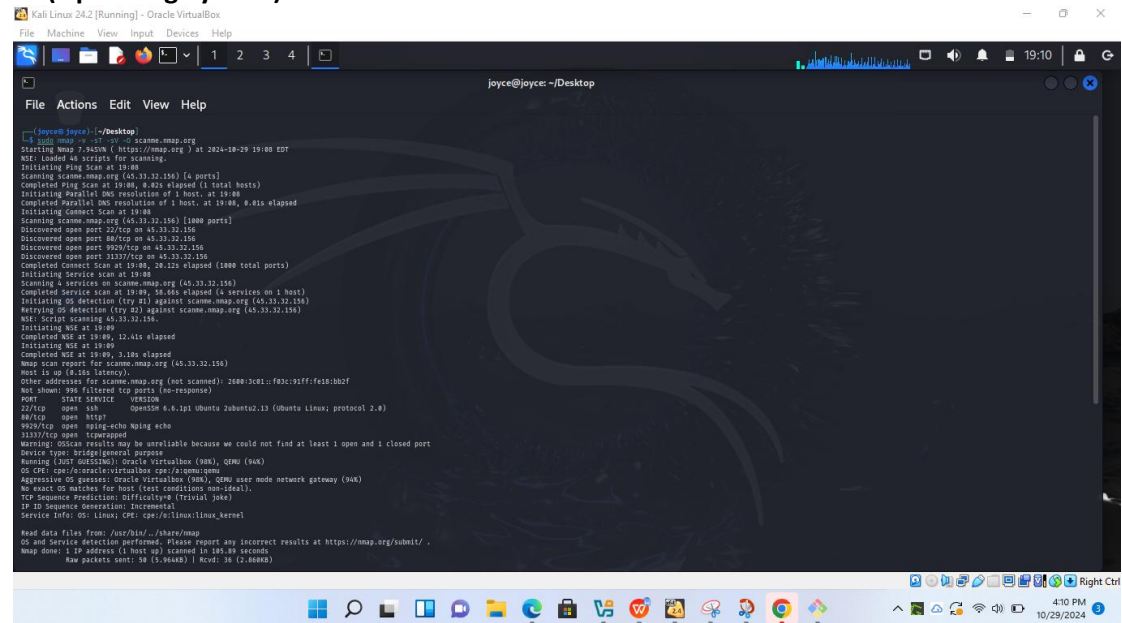
joyce@joyce: ~/Desktop
File Actions Edit View Help

joyce@joyce:~/Desktop
$ nmap scanme.nmap.org
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-10-29 18:50 EDT
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.28s latency).
Other addresses for scanme.nmap.org (not scanned): 2600:3c01::f03c:91ff:fe18:bb2f
Not shown: 996 filtered tcp ports (no-response)
PORT      STATE SERVICE
22/tcp    open  ssh
80/tcp    open  http
9929/tcp  open  nping-echo
31337/tcp open  Elite

Nmap done: 1 IP address (1 host up) scanned in 16.50 seconds

joyce@joyce:~/Desktop
$
```

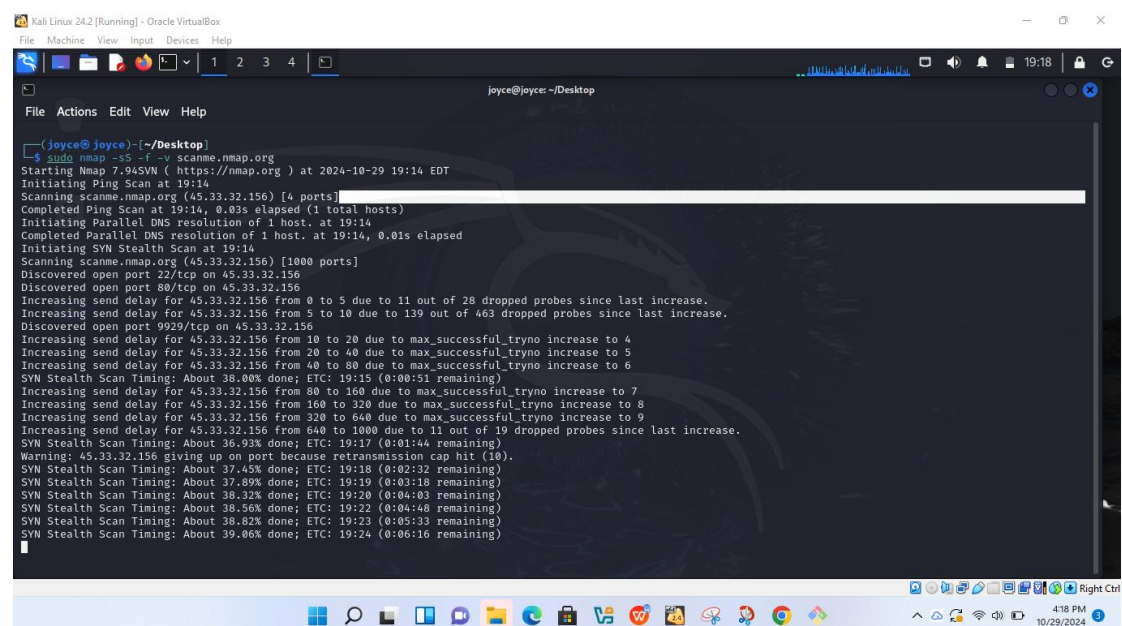
Scan Results: Using the -v -sT -sV -O flags: With the -v(verbose mode), -sT(Tcp connect scan), -sV (scan version) -O (Osscan) flags. It discovered four ports open, and services, it also discovered the ipv4 address, and the ipv6 address, version detection, device type and OS(Operating System)



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[joyce@joyce:~/Desktop]
$ sudo nmap -v -sT -sV -O scanme.nmap.org
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-10-29 19:00 EDT
NSE: Loaded 46 scripts for scanning.
Initiating Ping Scan at 19:00
Scanning scanme.nmap.org (45.33.32.156) [4 ports]
Completed Ping Scan at 19:00, 0.02s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 19:00
Completed Parallel DNS resolution of 1 host. at 19:00, 0.01s elapsed
Initiating Connect Scan at 19:00
Scanning scanme.nmap.org (45.33.32.156) [1000 ports]
Discovered open port 22/tcp on 45.33.32.156
Discovered open port 80/tcp on 45.33.32.156
Discovered open port 9929/tcp on 45.33.32.156
Discovered open port 1337/tcp on 45.33.32.156
Completed Connect Scan at 19:00, 28.12s elapsed (1000 total ports)
Initiating Service Scan at 19:00
Scanning 4 services on scanme.nmap.org (45.33.32.156)
Completed Service scan at 19:00, 38.64s elapsed (4 services on 1 host)
Initiating OS detection (try #1) against scanme.nmap.org (45.33.32.156)
Retrying OS detection (try #2) against scanme.nmap.org (45.33.32.156)
NSE: Script scanning 45.33.32.156.
Initiating NSE at 19:00
Completed NSE at 19:00, 32.41s elapsed
Initiating NSE at 19:00
Completed NSE at 19:00, 3.18s elapsed
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (4.10s latency).
Other addresses for scanme.nmap.org (not scanned): 2000:3c01::f03c:91ff:fe1b:b0cf
NSE: Host: 996 filtered TCP ports (no-response)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      openssh 8.6.p1 Ubuntu Jubuntu2.13 (Ubuntu Linux; protocol 2.0)
80/tcp    open  http     Apache/2.4.18 (Ubuntu)
9929/tcp  open  nginx-echo nginx-echo 1.33.73
1337/tcp  open  http     Apache/2.4.18 (Ubuntu)
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Device Type: VirtualBox (general purpose)
Fingerprint (JST): 000525260: Oracle VirtualBox (VM), QEMU (VM)
OS CPE: cpe:/o:oracle:virtualbox:oracle:linux:linux
Aggressive OS guesses: Oracle VirtualBox (90%), QEMU user mode network gateway (90%)
No exact OS matches for host (test conditions: non-ideal).
TCP Sequence Prediction: Difficult (Tsunami)
IP ID Sequence Generation: Incremental
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Read data files from: /usr/bin/.:/share/nmap
OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 109.39 seconds
Raw packets sent: 58 (5.94kBs) | Rcvd: 16 (2.80kBs)
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Scan Results: With the -sS(Stealthy mode), -f(fast), -v(verbose mode) flags. It Performed a fast stealthy, verbose scan:



```
[joyce@joyce:~/Desktop]
$ sudo nmap -sS -f -v scanme.nmap.org
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-10-29 19:14 EDT
Initiating Ping Scan at 19:14
Scanning scanme.nmap.org (45.33.32.156) [4 ports]
Completed Ping Scan at 19:14, 0.03s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 19:14
Completed Parallel DNS resolution of 1 host. at 19:14, 0.01s elapsed
Initiating SYN Stealth Scan at 19:14
Scanning scanme.nmap.org (45.33.32.156) [1000 ports]
Discovered open port 22/tcp on 45.33.32.156
Discovered open port 80/tcp on 45.33.32.156
Increasing send delay for 45.33.32.156 from 0 to 5 due to 11 out of 28 dropped probes since last increase.
Increasing send delay for 45.33.32.156 from 5 to 10 due to 139 out of 463 dropped probes since last increase.
Discovered open port 9929/tcp on 45.33.32.156
Increasing send delay for 45.33.32.156 from 10 to 20 due to max_successful_tryno increase to 4
Increasing send delay for 45.33.32.156 from 20 to 40 due to max_successful_tryno increase to 5
Increasing send delay for 45.33.32.156 from 40 to 80 due to max_successful_tryno increase to 6
SYN Stealth Scan Timing: About 38.00% done; ETC: 19:15 (0:00:51 remaining)
Increasing send delay for 45.33.32.156 from 80 to 160 due to max_successful_tryno increase to 7
Increasing send delay for 45.33.32.156 from 160 to 320 due to max_successful_tryno increase to 8
Increasing send delay for 45.33.32.156 from 320 to 640 due to max_successful_tryno increase to 9
Increasing send delay for 45.33.32.156 from 640 to 1000 due to 11 out of 19 dropped probes since last increase.
SYN Stealth Scan Timing: About 36.93% done; ETC: 19:17 (0:01:44 remaining)
Warning: 45.33.32.156 giving up on port because retransmission cap hit (10).
SYN Stealth Scan Timing: About 37.45% done; ETC: 19:18 (0:02:32 remaining)
SYN Stealth Scan Timing: About 37.89% done; ETC: 19:19 (0:03:18 remaining)
SYN Stealth Scan Timing: About 38.32% done; ETC: 19:20 (0:04:03 remaining)
SYN Stealth Scan Timing: About 38.56% done; ETC: 19:22 (0:04:48 remaining)
SYN Stealth Scan Timing: About 38.82% done; ETC: 19:23 (0:05:33 remaining)
SYN Stealth Scan Timing: About 39.06% done; ETC: 19:24 (0:06:16 remaining)
```

Performing a fast stealthy, verbosity scan: -sS -f -v flags

