# Cyber Security by Threat Prism BATCH 7

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# <u>Cyber Security/Ethical Hacking - Scanning for Open ports and Attacking</u> <u>Threat Prism Project - 2</u>

---In this we are using nmap scanning which has different type of scanning methods to obtain the information on ports whether they are open, closed, filtered, unfiltered or tcp trapped.

#### Task1:

Let's use metasploit server to perform all this scanning techniques, whose IP address is as followed: 192.168.147.129

# Task 2:

#### **Sync Scanning.**

i) nmap –v –sS 192.168.147.129

ii) nmap -v -sS -p 21 192.168.147.129

```
root@kali)+[/home/kali]
  nmap =v | -sSt-p 21 192.168.147.129
Starting Nmap 7.92 ( https://nmap.org ) at 2022-12-06 21:25 EST
Initiating ARP Ping Scan at 21:25
Scanning 192.168.147.129 [1 port]
Completed ARP Ping Scan at 21:25, 0.11s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 21:25
Completed Parallel DNS resolution of 1 host. at 21:25, 0.01s elapsed
Initiating SYN Stealth Scan at 21:25
Scanning 192.168.147.129 [1 port]
Discovered open port 21/tcp on 192.168.147.129
Completed SYN Stealth Scan at 21:25, 0.08s elapsed (1 total ports)
Nmap scan report for 192.168.147.129
Host is up (0.0013s latency).
PORT
      STATE SERVICE
21/tcp open ftp
MAC Address: 00:0C:29:CB:2E:CD (VMware)
Read data files from: /usr/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 0.38 seconds
           Raw packets sent: 2 (72B) | Rcvd: 2 (72B)
```

# **Acknowledgement Scanning.**

i) nmap -sA 192.168.147.129

```
(root@kali)-[/home/kali]
    n nmap -sA 192.168.147.129
Starting Nmap 7.92 ( https://nmap.org ) at 2022-12-06 21:26 EST
Nmap scan report for 192.168.147.129
Host is up (0.0070s latency).
All 1000 scanned ports on 192.168.147.129 are in ignored states.
Not shown: 1000 unfiltered tcp ports (reset)
MAC Address: 00:0C:29:CB:2E:CD (VMware)
Nmap done: 1 IP address (1 host up) scanned in 0.56 seconds
```

ii) nmap -sA -p 22 -sV -O 192.168.147.129

```
(ron10 Mali)-[/home/kali]

# nmap -sA -p 22 -sV -0 192.168.147.129

Starting Nmap 7.92 ( https://mmap.org ) at 2022-12-06 21:26 EST

Nmap scan report for 192.168.147.129

Host is up (0.00055s latency).

PORT STATE SERVICE VERSION
22/tcp unfiltered ssh

MAC Address: 00:0c:29:cB:2E:CD (VMware)

Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port

Aggressive OS guesses: Aruba IAP-105 WAP (95%), AVM FRITZ!Box FON WLAN 7240 WAP (95%), Belkin N600 DB WAP (95%), Bu

ffalo LinkStation NAS device (95%), Buffalo LS-WXL NAS device (95%), Check Point VPN-1 UTM appliance (95%), Cisco C
P 8945 VoIP phone (95%), D-Link DSR-1000N WAP (95%), EnGenius ESR-9250 WAP (95%), Android 2.3.5 (Linux 2.6.35) (95%)

No exact OS matches for host (test conditions non-ideal).

Network Distance: 1 hop

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 4.08 seconds
```

#### **Finn Scanning**

- i) nmap -sF 192.168.147.129
- ii) nmap –sF –p 22 192.168.147.129

```
manap -sF 192.168.147.129

Starting Namap 7.92 (https://manap.org ) at 2022-12-06 21:27 EST
Namap scan report for 192.168.147.129

Host is up (0.012s latency).
Not shown: 977 closed tcp ports (reset)

PORT STATE SERVICE

22/tcp openifiltered stp
22/tcp openifiltered stp
22/tcp openifiltered main
80/tcp openifiltered domain
80/tcp openifiltered repoind
139/tcp openifiltered repoind
139/tcp openifiltered methios--sn
445/tcp openifiltered microsoft-ds
513/tcp openifiltered dogin
513/tcp openifiltered shell
1099/tcp openifiltered dogin
513/tcp openifiltered shell
1099/tcp openifiltered shell
1099/tcp openifiltered shell
1099/tcp openifiltered ingresitock
2049/tcp openifiltered ingresitock
2049/tcp openifiltered ingresitock
2049/tcp openifiltered microsoft-ds
5121/tcp openifiltered ingresitock
2049/tcp openifiltered ingresitock
2049/tcp openifiltered ingresitock
2053/tcp openifiltered ingresitock
2053/tcp openifiltered ingresitock
2053/tcp openifiltered ingresitock
2060/tcp openifiltered ingresitock
2060/tcp openifiltered ingresitock
2070/tcp openifiltered postgresql
20800/tcp openifiltered postgresql
20800/tcp openifiltered inc
80800/tcp openifiltered inc
80800/tc
```

iii) nmap -sF -p 22 -sV -O 192.168.147.129

#### **XMAS Scanning**

- i)nmap -sX 192.168.147.129
- ii) nmap –sX –p 21 192.168.147.129

```
Host is up (0.0087s latency).
Not shown: 977 closed tcp ports (reset)
PORT STATE SERVICE
PORT STATE SERVIC
21/tcp open|filtered ftp
22/tcp open|filtered ssh
23/tcp open|filtered telnet
23/tcp open/filtered telnet
25/tcp open/filtered smtp
53/tcp open/filtered domain
80/tcp open/filtered http
111/tcp open/filtered rpcbind
139/tcp open/filtered metbios-ssn
445/tcp open/filtered microsoft-ds
512/tcp open/filtered exec
513/tcp open/filtered shell
1099/tcp open/filtered shell
1099/tcp open/filtered ingreslock
2049/tcp open/filtered ingreslock
2049/tcp open/filtered nfs
2121/tcp open/filtered corpoxy-ftp
 2121/tcp open|filtered ccproxy-ftp
3306/tcp open|filtered mysql
 5432/tcp open|filtered postgresql
5900/tcp open|filtered vnc
6000/tcp open|filtered X11
6667/tcp open|filtered irc
8009/tcp open|filtered ajp13
8180/tcp open|filtered unknown
MAC Address: 00:0C:29:CB:2E:CD (VMware)
Nmap done: 1 IP address (1 host up) scanned in 1.77 seconds
                          i)-[/home/kali]
PORT STATE SERVICE VERSION
21/tcp open ftp vsftpd 2.3.4
MAC Address: 00:0C:29:CB:2E:CD (VMware)
Service Info: OS: Unix
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ . Nmap done: 1 IP address (1 host up) scanned in 0.74 seconds
```

- iii) nmap -sX -p 21 -sV 192.168.147.129
- iv) nmap -sX -p 21-30 -sV 192.168.147.129

#### **Fast Scanning**

i) nmap –F 192.168.147.129

```
i)-[/home/kali]
nmap -F 192.168.147.129
Starting Nmap 7.92 ( https://nmap.org ) at 2022-12-06 21:29 EST
Nmap scan report for 192.168.147.129
Host is up (0.00013s latency).
Not shown: 82 closed tcp ports (reset)
        STATE SERVICE
PORT
21/tcp open ftp
22/tcp
         open ssh
open telnet
23/tcp
         open smtp
open domain
25/tcp
53/tcp
         open http:
80/tcp
111/tcp open rpcbind
139/tcp open netbios-ssn
445/tcp open microsoft-ds
513/tcp open login
514/tcp open shell
2049/tcp open Infs
2121/tcp open ccproxy-ftp
3306/tcp open mysql
5432/tcp open postgresql
5900/tcp open vnc
6000/tcp open X11
8009/tcp open ajp13
MAC Address: 00:0C:29:CB:2E:CD (VMware)
Nmap done: 1 IP address (1 host up) scanned in 0.35 seconds
```

ii) nmap –F -sV 192.168.147.129

# **Aggressive Scanning**

i) nmap -A 192.168.147.129

```
5432/tcp open postgresql PostgreSql DB 8.3.0 - 8.3.7

_ssl-date: 2022-11-21T14:24:554-80:00; -15d12h05m44s from scanner time.

| ssl-cert: Subject: commonName=ubuntu804-base.localdomain/organizationName=OCOSA/stateOrProvinceName=There is no such thing outside Us/countryName=XX
| Not valid before: 2010-03-17T14:07:45
| Not valid after: 2010-03-17T14:07:45
| Sout va
```

```
| Apache | Serv (Protocol v1.3) | ajp-methods: Failed to get a valid response for the OPTION request | Apache | Apache | Tomcat/Coyote | JSP | engine | 1.1 | | http-favicon: Apache | Tomcaty | Apache | T
```

### **TCP Scanning**

i) nmap -sT 192.168.147.129

```
Crost & Kali) - [/home/kali]
# nmap -sT 192.168.147.129

Starting Nmap 7.92 ( https://mmap.org ) at 2022-12-06 21:33 EST
Nmap scan report for 192.168.147.129

Host is up (0.0017s latency).
Not shown: 977 closed tcp ports (conn-refused)
PORT STATE SERVICE
21/tcp open ftp
22/tcp open ssh
23/tcp open domain
80/tcp open http
111/tcp open rpcbind
139/tcp open netbios-ssn
445/tcp open microsoft-ds
513/tcp open login
513/tcp open login
514/tcp open shell
1099/tcp open rmiregistry
1524/tcp open ingreslock
2049/tcp open nfs
2121/tcp open ocproxy-ftp
3306/tcp open notsgresql
5900/tcp open vnc
6000/tcp open vnc
6000/tcp open vnc
6000/tcp open irc
8009/tcp open unknown
MAC Address: 00:0C:29:CB:2E:CD (VMware)

Nmap done: 1 IP address (1 host up) scanned in 0.30 seconds
```

ii) nmap -sT -p 21-30 -sV -O 192.168.147.129

#### **UDP Scanning**

i) nmap -sU 192.168.147.129

- ii) nmap –sU –p 21-30 192.168.147.129
- iii) nmap –sU –p 21-30 –sV –O 192.168.147.129