# TryHackMe - Pickle Rick CTF



Difficulty: Easy
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#### **Description from THM:**

This Rick and Morty themed challenge requires you to exploit a webserver to find 3 ingredients that will help Rick make his potion to transform himself back into a human from a pickle.

#### **Tools Used**

- Nmap
- DIRB
- Nikto

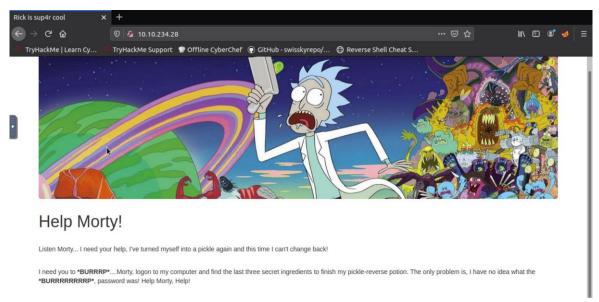
### **Enumeration + Looking for Ingredient 1**

Let's start with an Nmap scan of the IP address given to us when we deployed the machine (mine would be different from yours):

```
root@ip-10-10-39-49:~# nmap -sCV 10.10.234.28
Starting Nmap 7.60 ( https://nmap.org ) at 2021-01-19 23:26 GMT
Nmap scan report for ip-10-10-234-28.eu-west-1.compute.internal (10.10.234.28) Host is up (0.00093s latency).
Not shown: 998 closed ports
PORT STATE SERVICE VERSION
                     OpenSSH 7.2p2 Ubuntu 4ubuntu2.6 (Ubuntu Linux; protocol 2.0
22/tcp open ssh
  ssh-hostkey:
    2048 f9:60:a4:34:93:06:22:ce:5d:19:db:bc:c8:3c:49:1c (RSA)
    256 68:10:51:fe:ff:c9:36:65:71:87:50:46:af:a3:01:24 (ECDSA)
    256 21:37:a2:f8:53:8c:26:d1:2f:34:ef:0d:92:d5:1b:01 (EdDSA)
,_
80/tcp open http Apache httpd 2.4.18 ((Ubuntu))
 _http-server-header: Apache/2.4.18 (Ubuntu)
 _http-title: Rick is sup4r cool
MAC Address: 02:77:98:42:EE:CD (Unknown)
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 8.94 seconds
```

The result shows that Port 22 (SSH) and Port 80 (HTTP) are open.

Since Port 80 is open, I'll navigate to the website and check it out.



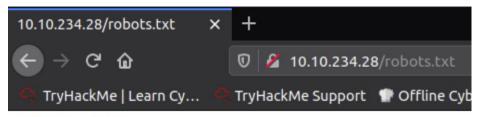
There isn't much on the webpage, so I would then inspect it by Right-Clicking and choosing 'Inspect Element'.

```
☐ Inspector ☐ Console ☐ Debugger ↑ Network {} Style Editor ☐ Performance
                                                                         + 🖋
  Search HTML
 <!DOCTYPE html>
 <html lang="en"> event scroll
 ▶ <head> ···· </head>
 ▼ <body>
  ▼ <div class="container">
      ::before
    <div class="jumbotron"></div>
     <h1>Help Morty!</h1>
     <br/>br>
    <br/>br>
    <br>
     ::after
    </div>
   <!--Note to self, remember username! Username: RlckRul3s-->
 </html>
```

There is a comment that provides the username: R1ckRul3s.

Since there is no login page for us to go to. I'll run DIRB (web content scanner) to look for any hidden web objects.

There isn't much to work with from the result, but the robots.txt has the text "Wubbalubbadubdub" in it.



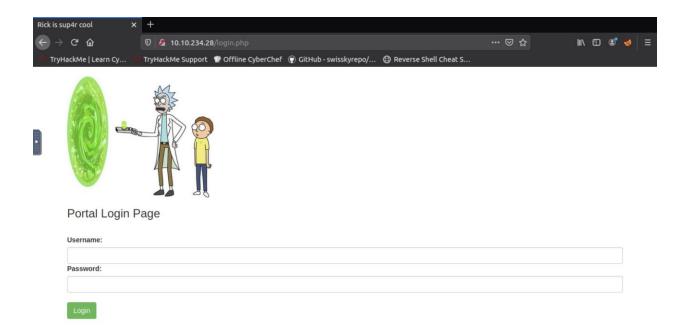
Wubbalubbadubdub

Before moving on to testing the credentials found, I will continue enumerating to see if I can get anymore information. I looked up other tools to further enumerate a web page and found Nikto.

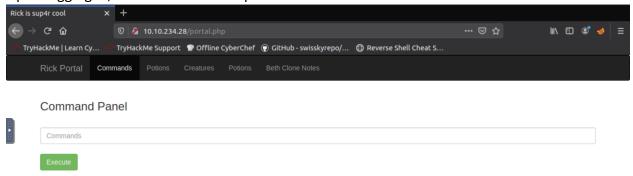
Using Nikto I found a login page located at /login.php.

Navigating to MACHINE\_IP/login.php we can use the credentials we found to login.

Credentials → Username: R1ckRul3s and Password: Wubbalubbadubdub

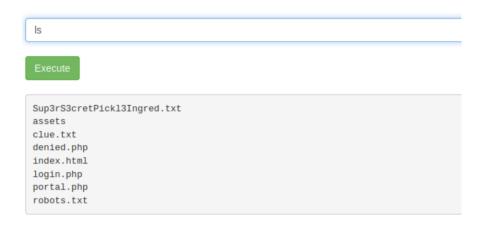


Upon logging in, we see a command panel that we can use to execute commands.



#### Let's try and execute ls:

#### **Command Panel**



Since the task for this CTF is to find 3 ingredients to help Rick make his potion. We will check out Sup3rS3cretPickl3Ingred.txt first. Since using cat command doesn't work, I used less instead.

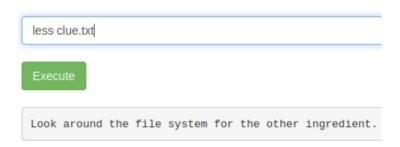
# Command Panel less Sup3rS3cretPickl3Ingred.txt Execute

We found our first ingredient!

## **Looking for Ingredient 2**

Checking back at the directory where we found Sup3rS3cretPickl3Ingred.txt, I wanted to give clue.txt a look.

#### **Command Panel**



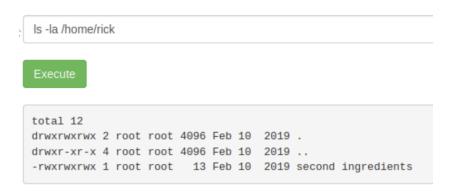
The clue mentioned to look around the file system. Since using cd doesn't work, I used the ls -la command to check for any hidden files and other directories.

#### Command Panel



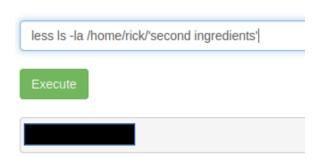
There is only rick and ubuntu in the home directory, so I went ahead and checked rick.

#### Command Panel



Using the less command again, let's check out the second ingredients.

#### Command Panel



Lo and behold, the second ingredient has been found!

# **Looking for Ingredient 3**

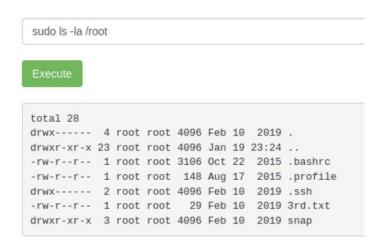
Looking through the file system further, nothing else could be found that hints to ingredient 3. The only place left to look at would be the root directory. However, executing the command 1s -la /root doesn't return anything.

We can check what our current sudo privileges are used sudo -1. Command Panel



It looks like the current user can execute anything. We can try to sudo into the root directory.

#### **Command Panel**



That worked! Now let's view the last ingredient.

#### Command Panel



Now that the 3<sup>rd</sup> ingredient has been found! We are done! That was a pretty easy CTF. Great for beginners ©