

# FriendZone

IP: 10.10.10.123



## Scanning

Let's run **masscan** ( `sudo masscan -p1-65535,U:1-65535 10.10.10.123 --rate=1000 -e tun0` ) and then a **deeper nmap** scan on the found ports:

`sudo nmap 10.10.10.123 -T5 -A -p 80,139,443,53,445,21,22` . There were also some UDP ports found by masscan, so I ran an nmap UDP scan on those ports as well:

```
sudo nmap 10.10.10.123 -T5 -A -sU -p 157,53
```

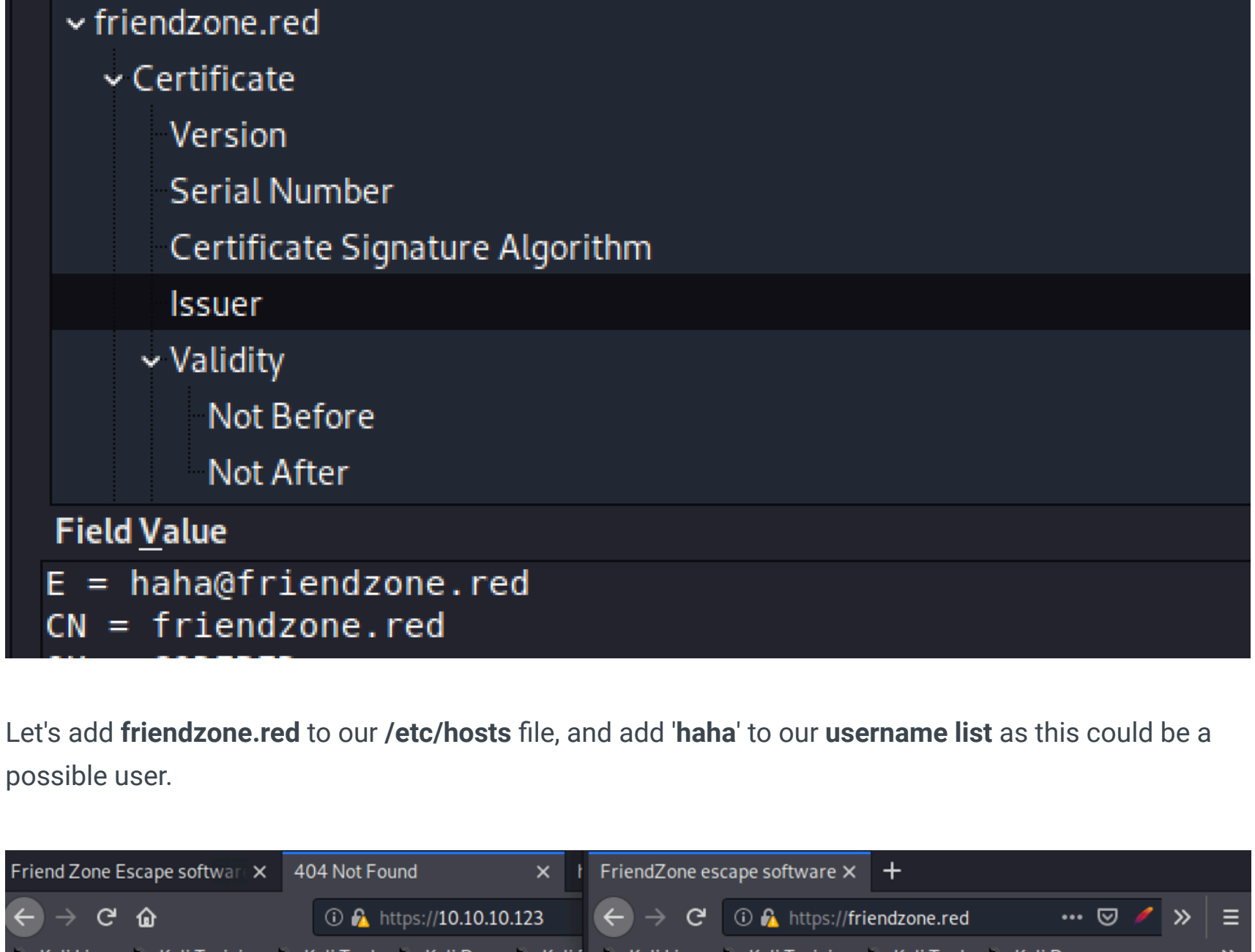


## SMB Enum

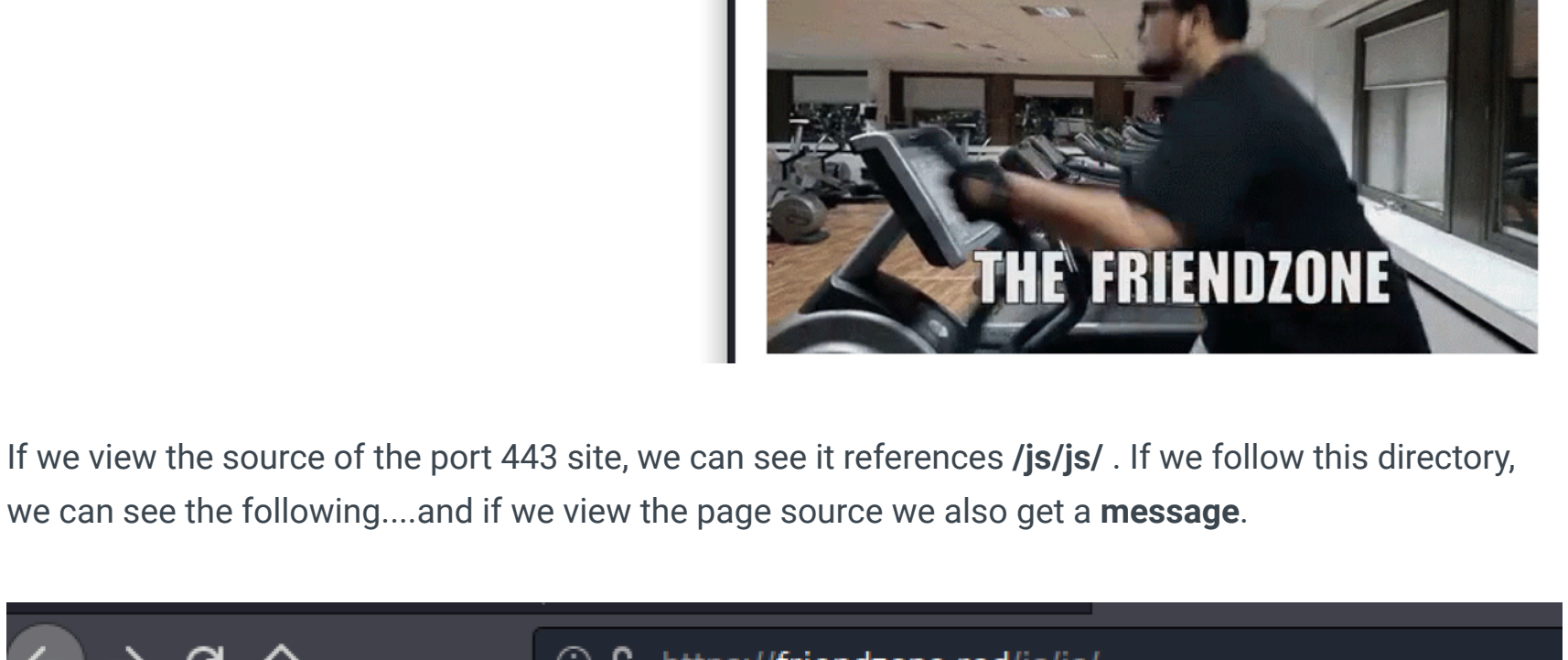
Let's start by having a look at SMB with `enum4linux` .

I quite like this tool, but the original comes with a lot of errors because I believe it's no longer supported. I therefore trialled a relatively up to date python re-write of the script:

<https://github.com/cddmp/enum4linux-ng>. It's an okay re-write, comes with colours which is always nice.



`smbmap -H 10.10.10.123 -R` let's us know there's a file called creds chilling in the **general** share. We can also **write** in the **Development** share, which is interesting.

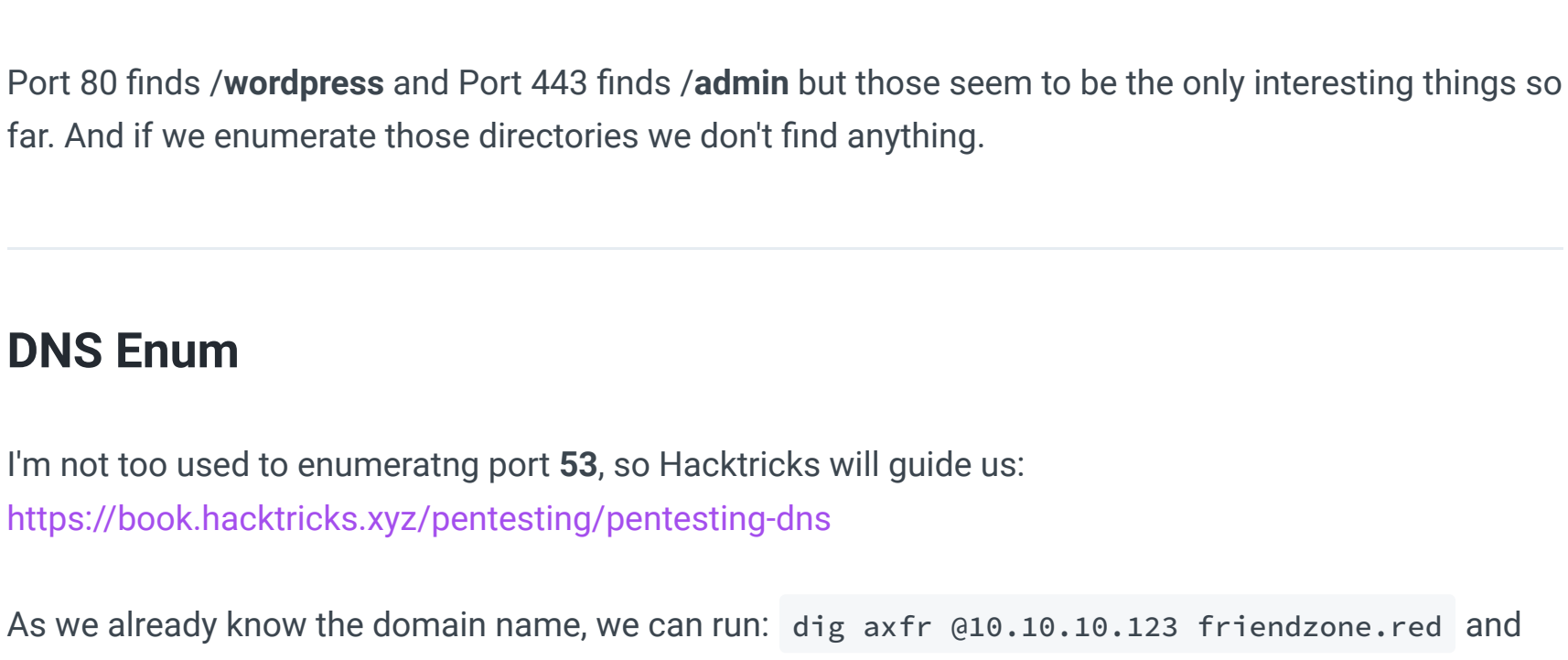


We can go and get the creds file with: `smbget -R smb://10.10.10.123/general/`

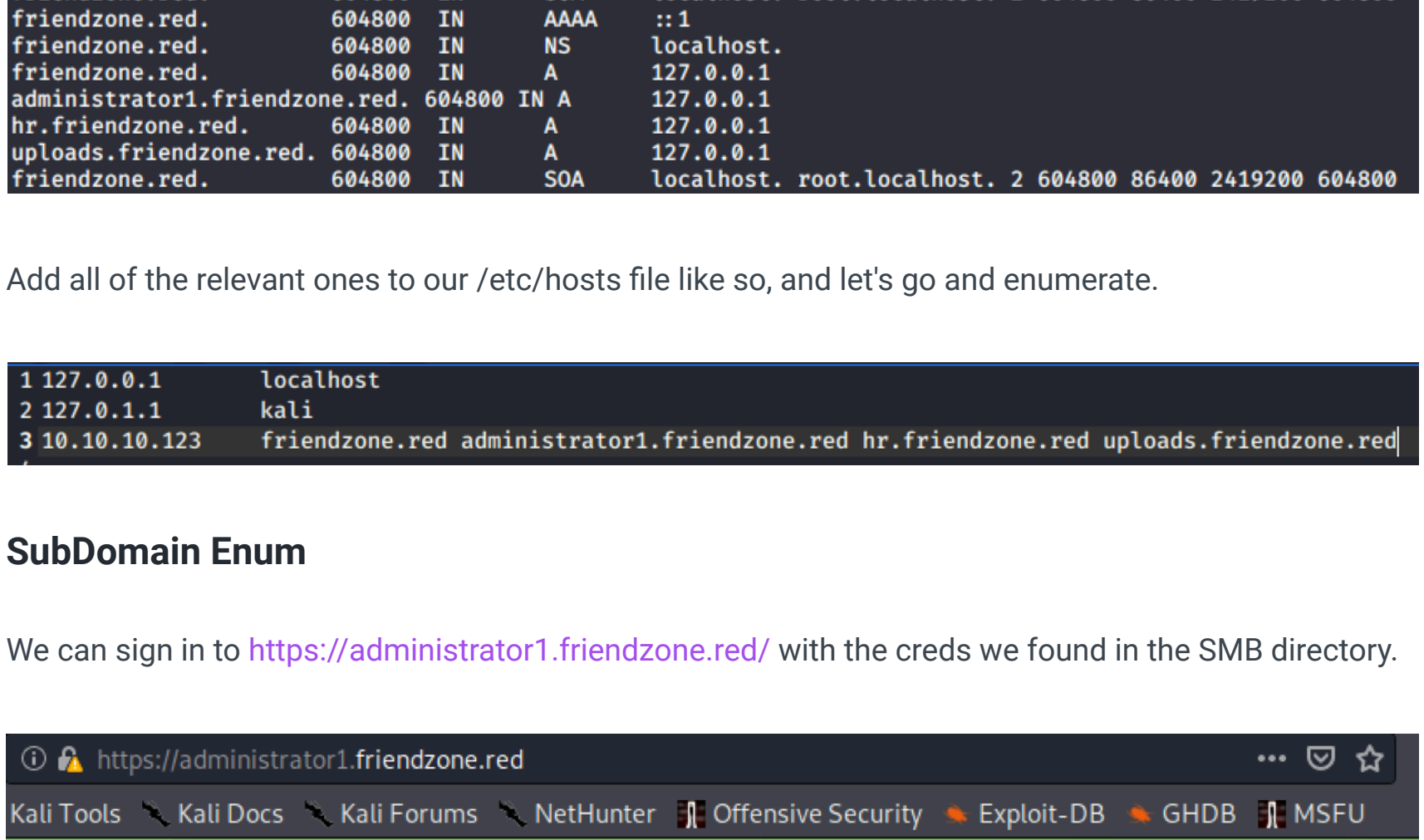


## Websites

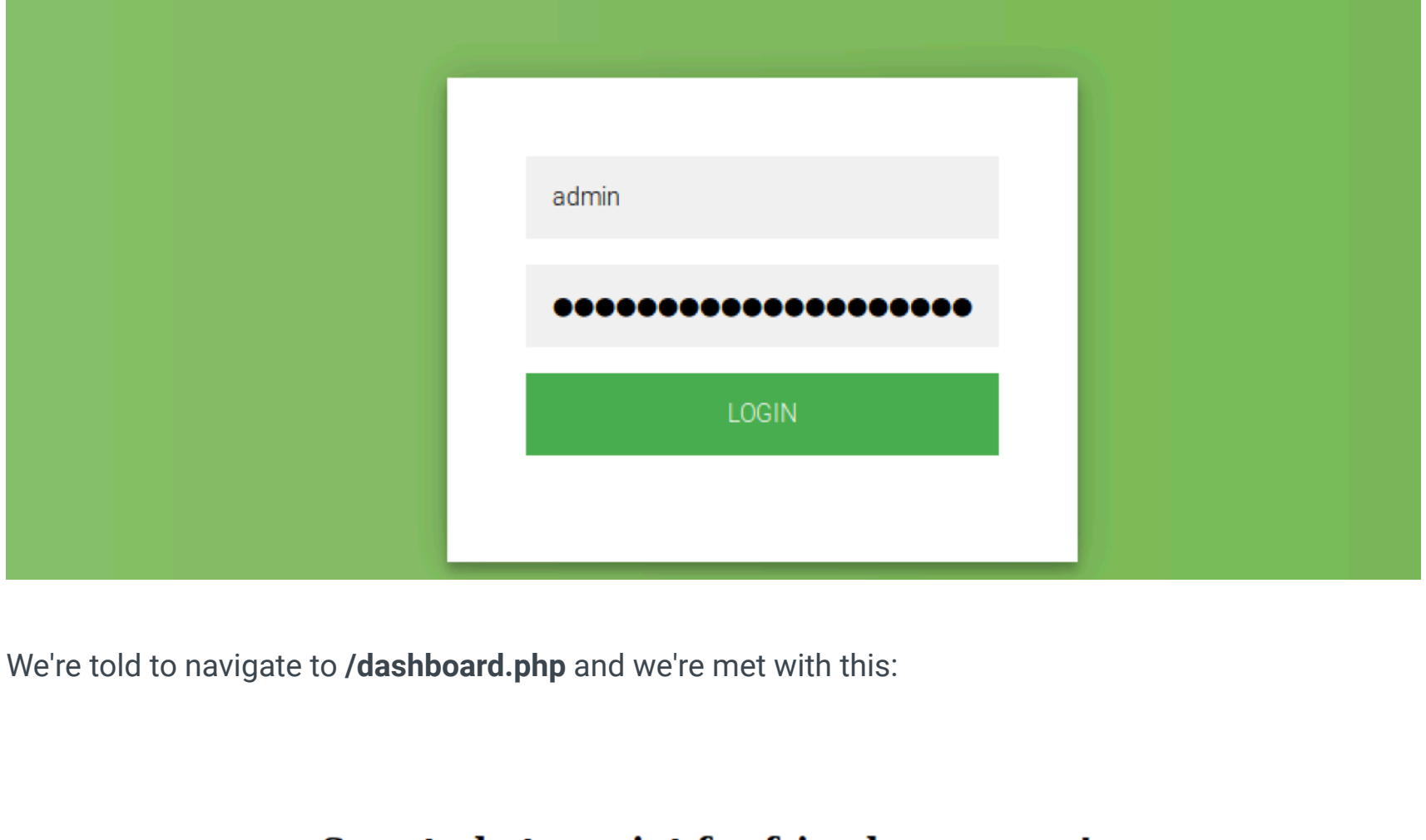
Port **80**'s website isn't too telling, whereas port **443**'s website offers more concrete information that we need to travel to **friendzone.red**



Let's add **friendzone.red** to our `/etc/hosts` file, and add 'haha' to our username list as this could be a possible user.



If we find the source of the port 443 site, we can see it references `/js/js/` . If we follow this directory, we can see the following...and if we view the page source we also get a **message**.



## Directory Enum

I don't know what to do with this yet, so let's enumerate some directories and see what we get

Using the **index.x** method, we determine that **.html** works as a web extension. Let's run `gobuster` on the port **80** and **443** websites. Use `-k` to have gobuster ignore the certificate issues.

`gobuster dir -u https://friendzone.red`

`-w /usr/share/wordlists/dirbuster/directory-list-lowercase-2.3-medium.txt -x html,txt -t 30 -k`

and then re-run for `http://` without the `-k`

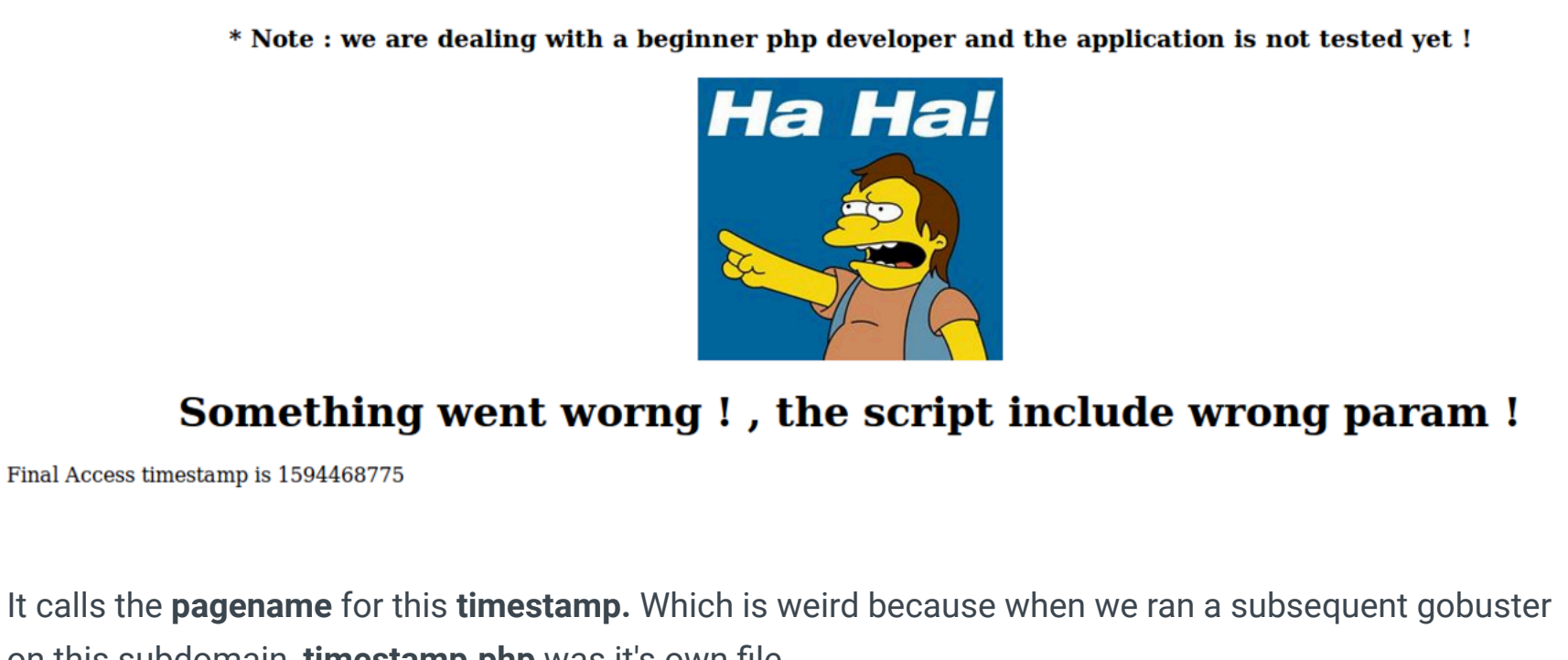
Port **80** finds **/wordpress** and Port **443** finds **/admin** but those seem to be the only interesting things so far. And if we enumerate those directories we don't find anything.

## DNS Enum

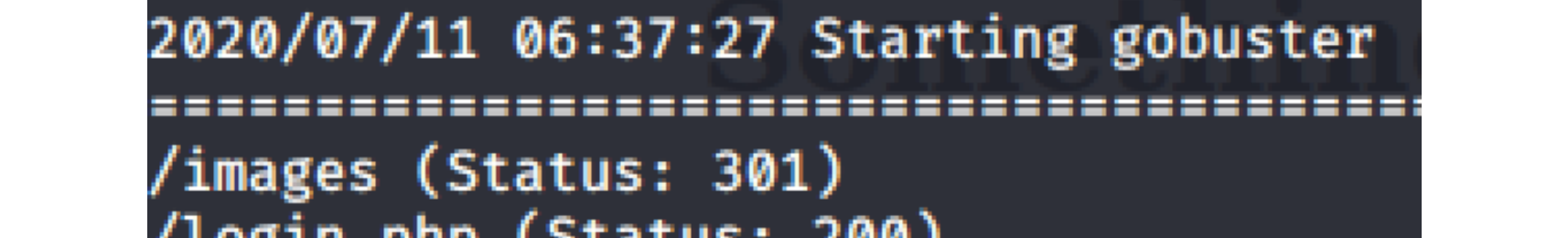
I'm not too used to enumerating port **53**, so Hacktricks will guide us:

<https://book.hacktricks.xyz/pentesting/pentesting-dns>

As we already know the domain name, we can run: `dig axfr @10.10.10.123 friendzone.red` and we get some interesting information

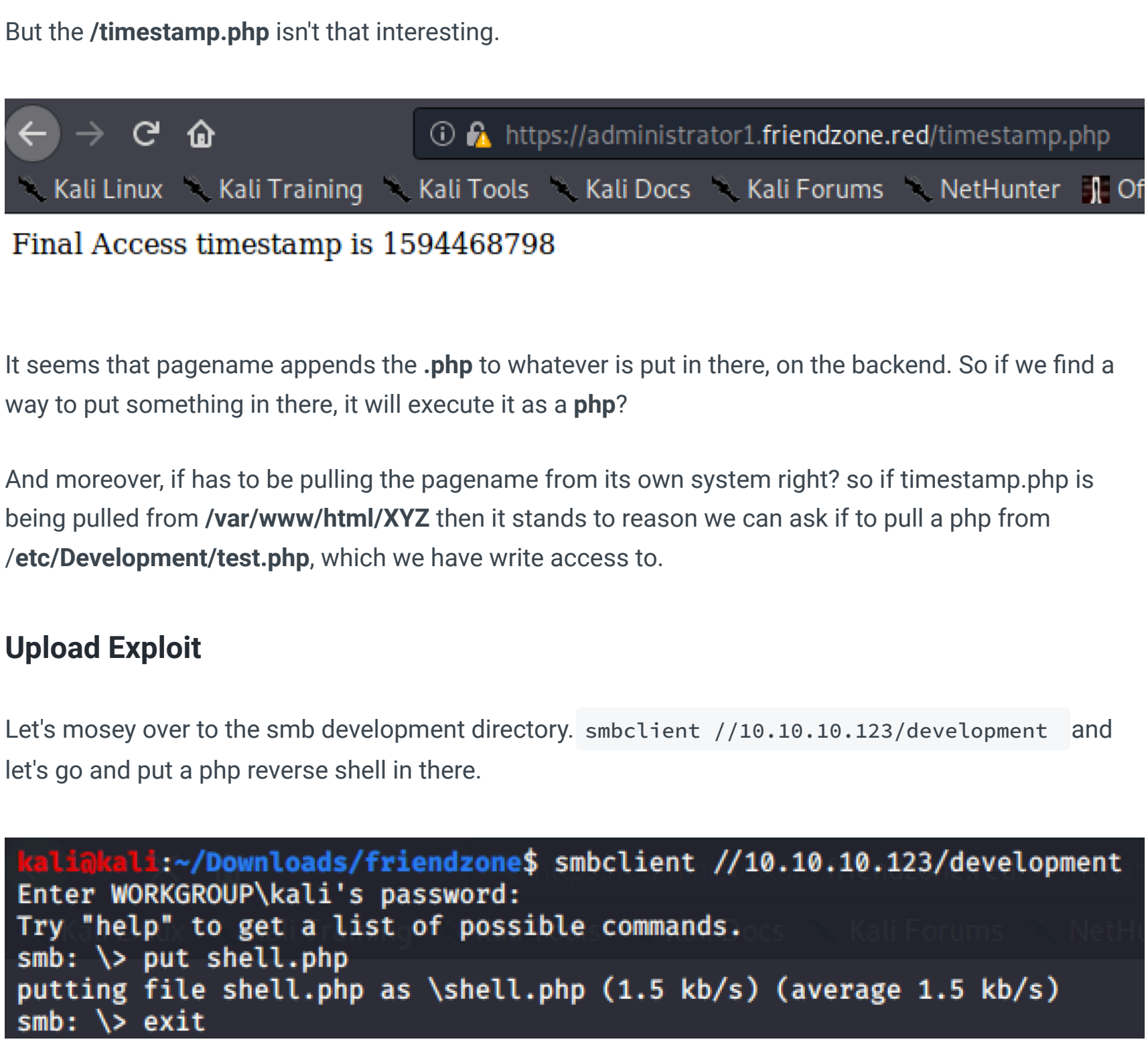


Add all of the relevant ones to our `/etc/hosts` file like so, and let's go and enumerate.



## SubDomain Enum

We can sign in to <https://administrator1.friendzone.red/> with the creds we found in the SMB directory.

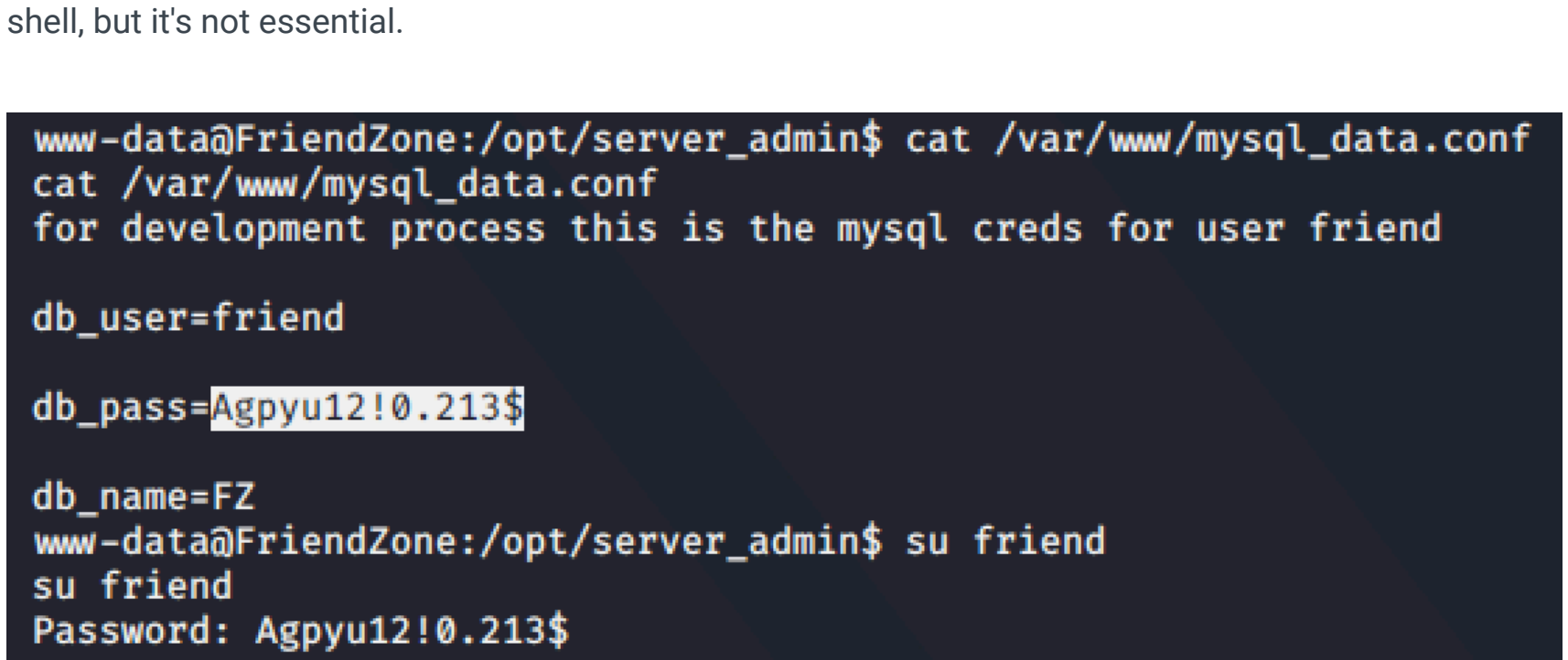
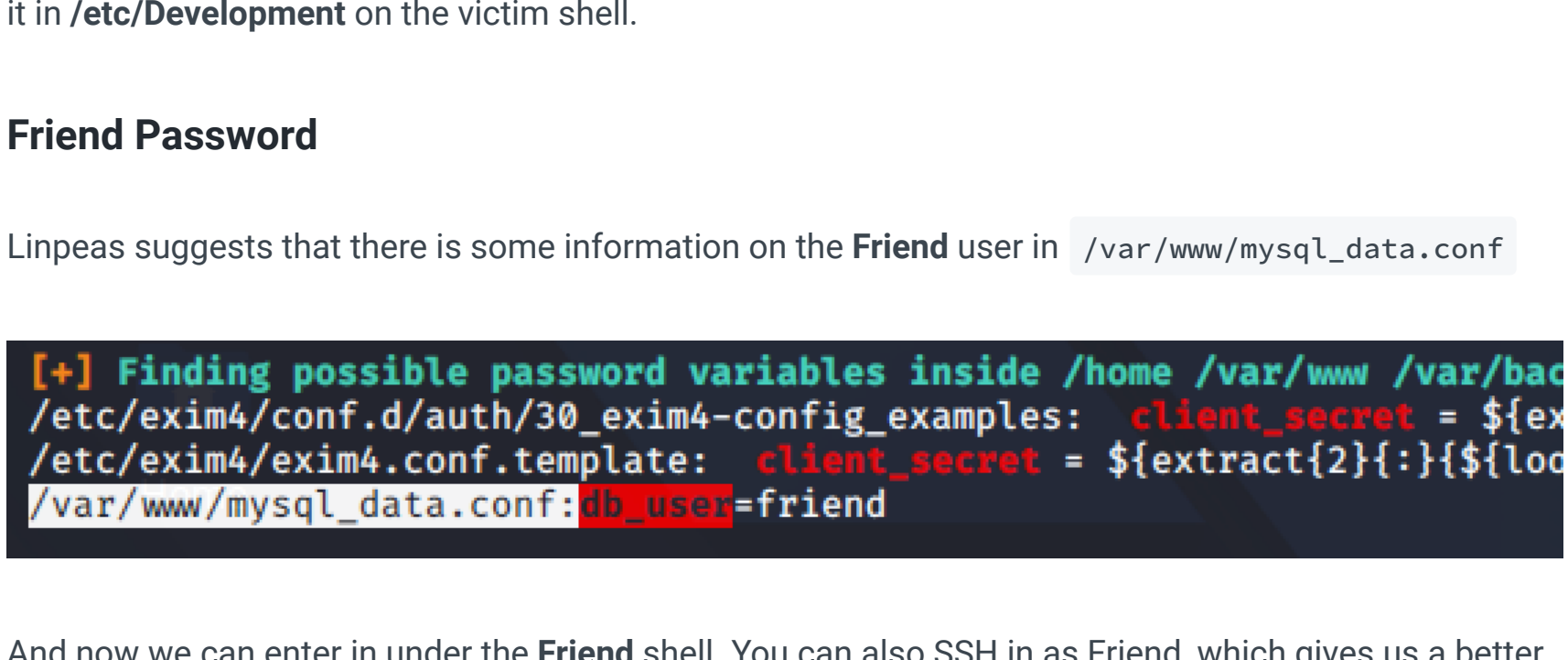


We're told to navigate to `/dashboard.php` and we're met with this:



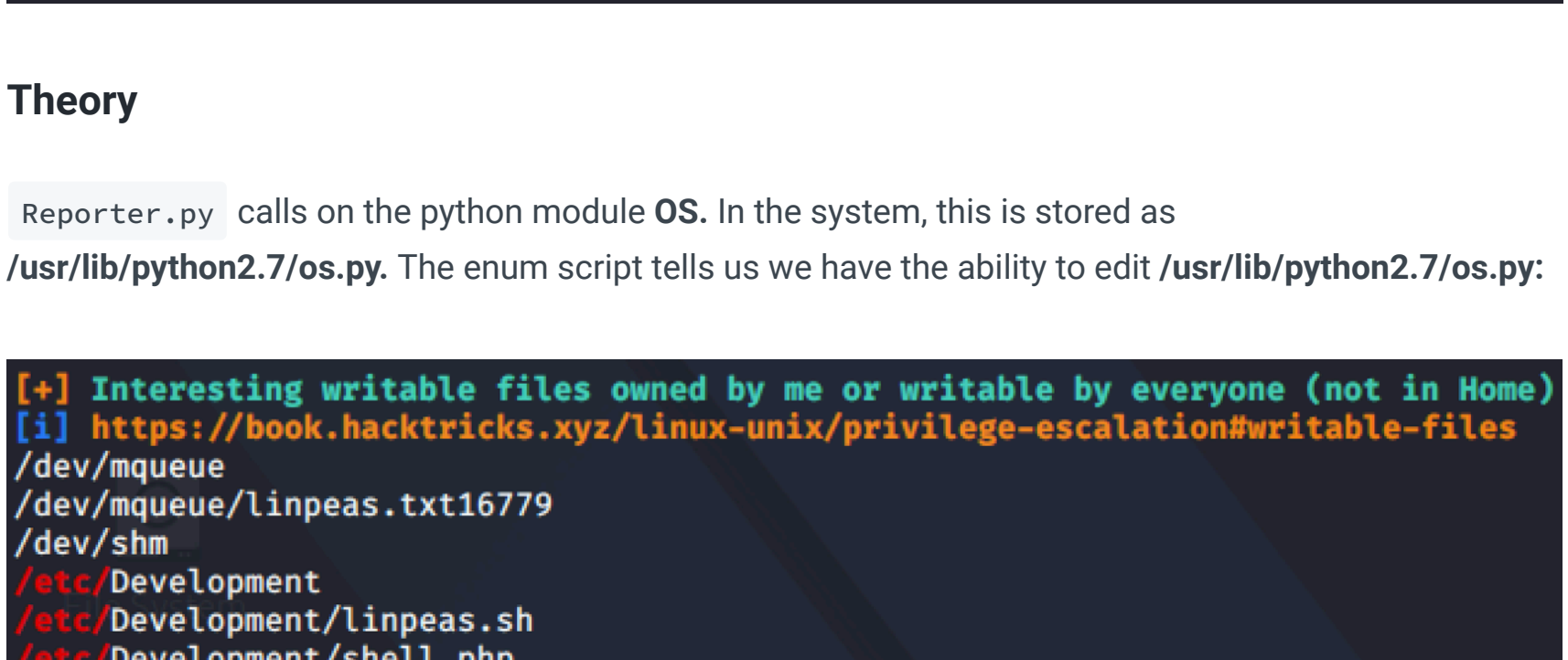
## Upload

If we visit <https://uploads.friendzone.red/> , we can upload an image, and we're given a number.

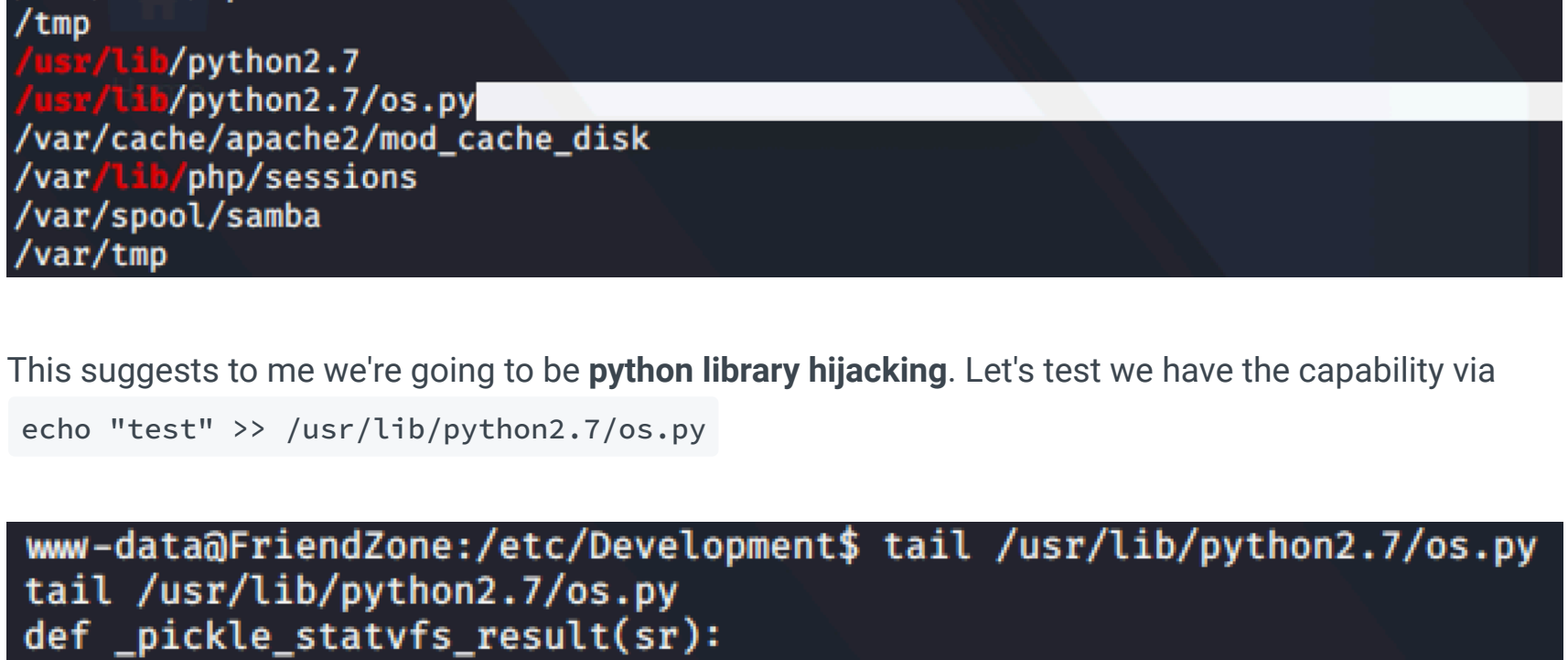


## Upload Theory

So after some trial and error, I actually READ what the page had to say. I hadn't even travelled to the default image it had provided for us:



But the `/timestamp.php` isn't that interesting.



It seems that pagename appends the **.php** to whatever is put in there, on the backend. So if we find a way to put something in there, it will execute it as a **php**.

And moreover, if has to be pulling the pagename from its own system right? so if timestamp.php is being pulled from `/var/www/html/XYZ` then it stands to reason we can ask if to pull a php from `/etc/Development/test.php`, which we have write access to.

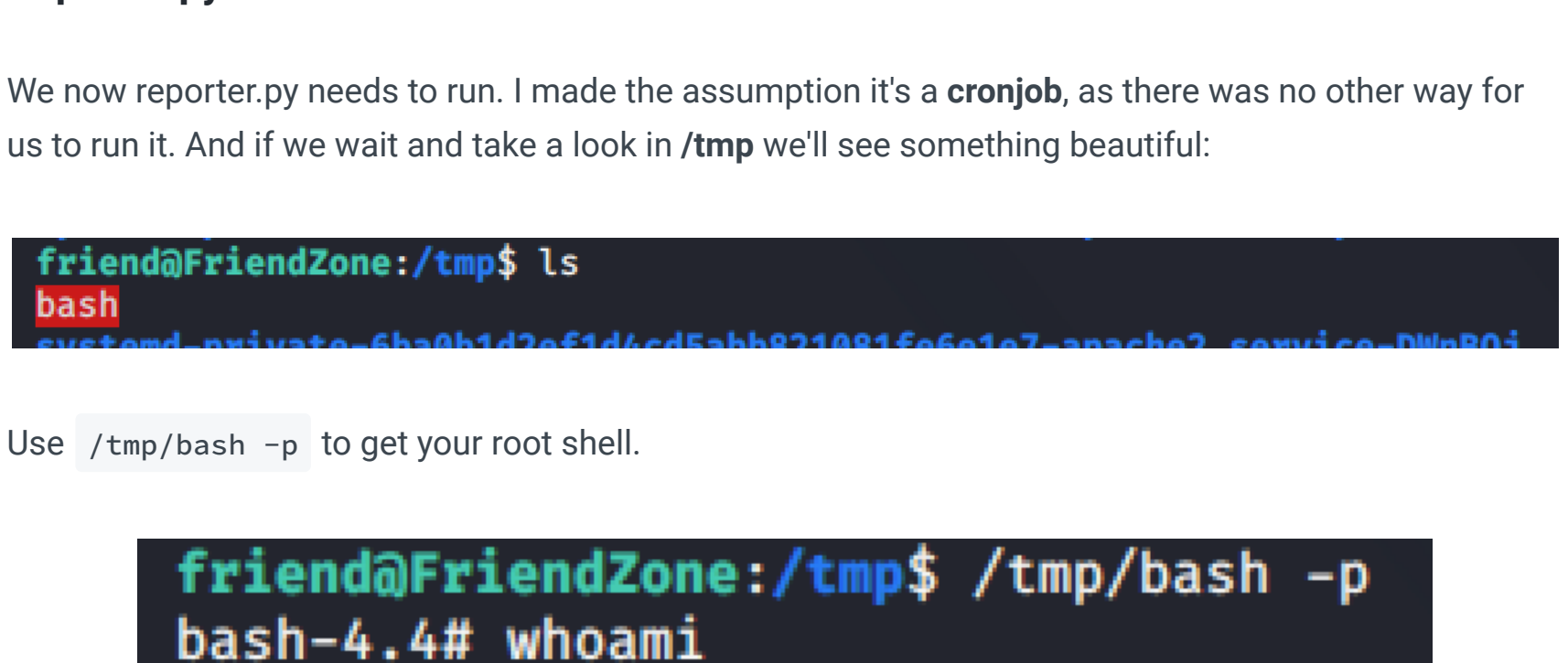
## Upload Exploit

Let's move over to the smb development directory. `smbclient //10.10.10.123/development` and let's go and put a php reverse shell in there.



Now this bit took a bit of trial and error. Mainly due to working out that we first needed to call `/etc/Development`, but second because I kept giving development as a **lowercase** directory when it was in fact **capitalised**.

Start a netcat listener, and then call in the admin url with this:



## www-Data Shell

Our shell is wack, let's upgrade it: `python -c 'import pty; pty.spawn("/bin/bash")'`

Cool, now go and get the user flag in the **friend** directory, and let's focus on the PrivEsc

Let's run an enumeration script. We can put in the smbclient **Development** directory again, and access it in `/etc/Development` on the victim shell.

## Friend Password

Linpeas suggests that there is some information on the **Friend** user in `/var/www/mysql_data.conf`



And now we can enter in under the **Friend** shell. We can also SSH in as **Friend**, which gives us a better shell, but it's not essential.



## PrivEsc Enum

If we navigate to `/opt/server_admin` we'll find **reporter.py** . I copied and edited it in my terminal, so I could see the colours (because I'm stupid and the colours help me workout what's going on)



## Python Library Hijack

### Preparation

Echo the below script into **os.py** This short script will ask root to **copy** its **bash** into the `/tmp` folder, and then change the **permissions** of `/tmp/bash` so we can use it.

