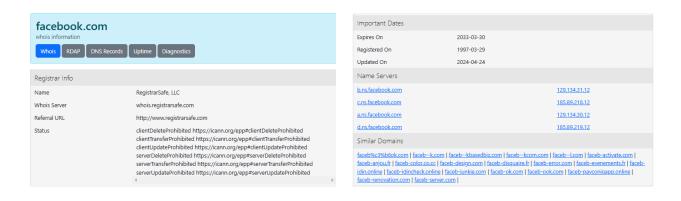
Step 01: Open the WHO.is website.



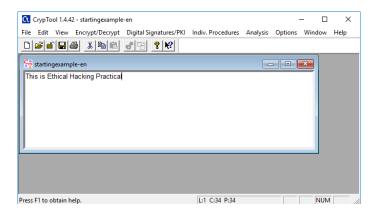
Step 02: Enter the website name and hit "Enter Button".



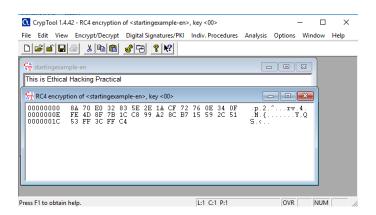
Step 03: It will show you information about the website.



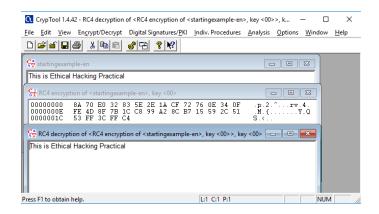
Step 01: Enter the text you want to encrypt.



<u>Step 02:</u> Select the RC4 algorithm from the above "Encrypt/Decrypt" option for Encryption.



Step 03: Use RC4 algorithm for Decryption.



<u>Step 01:</u> Open cmd and type "tracert" command and type "www.facebook.com".

```
Command Prompt
Microsoft Windows [Version 10.0.16299.15]
(c) 2017 Microsoft Corporation. All rights reserved.
 :\Users\Admin>tracert www.facebook.com
Tracing route to star-mini.c10r.facebook.com [57.144.124.1]
over a maximum of 30 hops:
           <1 ms
     1 ms
      1 ms
     35 ms
      2 ms
      1 ms
      4 ms
                    1 ms edge-star-mini-shv-03-bom2.facebook.com [57.144.124.1]
      2 ms
             1 ms
Trace complete.
 :\Users\Admin>_
```

Step 02: Ping few IP addresses of "facebook.com".

```
C:\Users\Admin>ping 129.134.31.12
Pinging 129.134.31.12 with 32 bytes of data:
Reply from 129.134.31.12: bytes=32 time=2ms TTL=51
Reply from 129.134.31.12: bytes=32 time=2ms TTL=51
Reply from 129.134.31.12: bytes=32 time=2ms TTL=51
Reply from 129.134.31.12: bytes=32 time=3ms TTL=51
Ping statistics for 129.134.31.12:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 2ms, Maximum = 3ms, Average = 2ms
C:\Users\Admin>ping 185.89.218.12
Pinging 185.89.218.12 with 32 bytes of data:
Reply from 185.89.218.12: bytes=32 time=21ms TTL=48
Reply from 185.89.218.12: bytes=32 time=21ms TTL=48
Reply from 185.89.218.12: bytes=32 time=21ms TTL=48
Reply from 185.89.218.12: bytes=32 time=24ms TTL=48
Ping statistics for 185.89.218.12:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 21ms, Maximum = 24ms, Average = 21ms
```

Step 03: "Netstat" command.

```
Command Prompt
Microsoft Windows [Version 10.0.16299.15]
(c) 2017 Microsoft Corporation. All rights reserved.
C:\Users\Admin>netstat
Active Connections
 Proto Local Address
                              Foreign Address
                                                    State
        192.168.1.75:49672
                              TCP
        192.168.1.75:50105
                              a23-54-82-234:https
                                                   LAST ACK
        192.168.1.75:50111
 TCP
                              a23-212-160-83:https CLOSE WAIT
 TCP
        192.168.1.75:50112
                              104.18.5.159:https
                                                    TIME_WAIT
        192.168.1.75:50116
 TCP
                              104.17.254.239:https TIME_WAIT
        192.168.1.75:50125
                              server-108-159-80-47:https TIME_WAIT
 TCP
                              a23-9-218-94:https
 TCP
        192.168.1.75:50131
                                                    ESTABLISHED
        192.168.1.75:50132
 TCP
                              a23-54-82-234:https
                                                    ESTABLISHED
C:\Users\Admin>_
```

Step 04: "ifconfig" command.

```
File Actions Edit View Help

(kali© kali)-[~]

$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
inet6 fe80::8dc6:8056:e98e:fbce prefixlen 64 scopeid 0×20inet6 fd00::dc70:55e0:5da:77ea prefixlen 64 scopeid 0×0<global>
ether 08:00:27:6e:13:6e txqueuelen 1000 (Ethernet)
RX packets 8 bytes 3486 (3.4 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 28 bytes 4463 (4.3 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

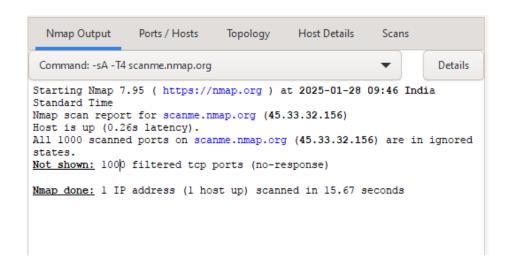
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
inet 127.0.0.1 netmask 255.0.0.0
inet6 ::1 prefixlen 128 scopeid 0×10<host>
loop txqueuelen 1000 (Local Loopback)
RX packets 8 bytes 480 (480.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 8 bytes 480 (480.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

(kali© kali)-[~]

$ $S$
```

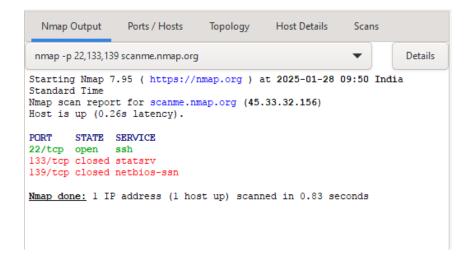
Step 01: ACK -sA (TCP ACK scan)

Command: nmap -sA -T4 scanme.nmap.org



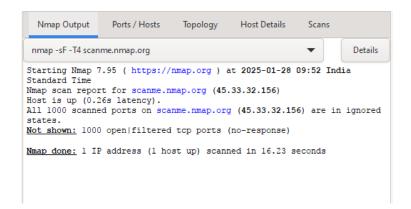
Step 02: SYN(Stealth) Scan (-sS)

Command: nmap -p22,113,139 scanme.nmap.org



Step 03: FIN Scan (-sF)

Command: nmap -sF -T4 para



Step 04: NULL Scan (-sN)

Command: nmap -sN -p 22 scanme.nmap.org

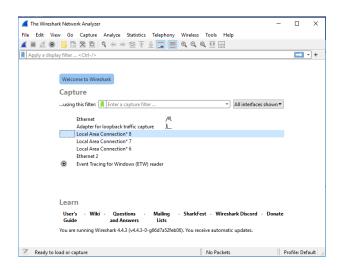


Step 05: XMAS Scan (-sX)

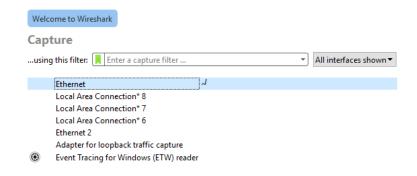
Command: nmap -sX -T4 scanme.nmap.org



Step 01: Install and Open Wireshark.



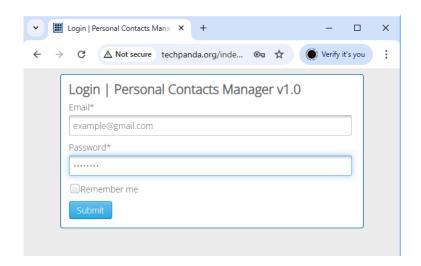
Step 02: Select your wired network from the list.



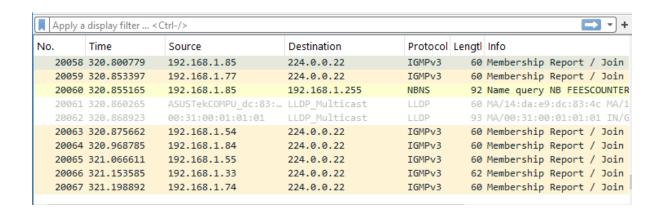
<u>Step 03:</u> The source, Destination and protocols of the packets in the LAN network are displayed.

A	Apply a display filter < Ctrl-/>									
No.		Time	Source	Destination	Protocol	Lengtl	Info			
	677	23.149022	169.254.177.67	169.254.255.255	NBNS	110	Registration NB DESKTOP-V			
	678	23.180306	192.168.1.73	239.255.255.250	UDP/XML	666	54011 → 3702 Len=624			
	679	23.191517	169.254.177.67	239.255.255.250	SSDP	179	M-SEARCH * HTTP/1.1			
	680	23.191829	169.254.177.67	239.255.255.250	SSDP	179	M-SEARCH * HTTP/1.1			
	681	23.196990	192.168.1.73	224.0.0.251	MDNS	250	Standard query 0x0002 PTR			
	682	23.197742	fe80::445c:8025:1c5	ff02::fb	MDNS	283	Standard query 0x0002 PTR			
	683	23.198227	192.168.1.73	224.0.0.251	MDNS	265	Standard query 0x0003 PTR			
	684	23.198914	fe80::445c:8025:1c5	ff02::fb	MDNS	298	Standard query 0x0003 PTR			
	685	23.224954	192.168.1.13	224.0.0.22	IGMPv3	62	Membership Report / Join			
	686	23.286477	192.168.1.47	224.0.0.22	IGMPv3	60	Membership Report / Join			

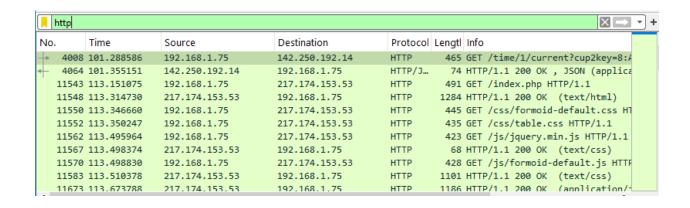
Step 04: Open a 'http' website and enter id and password.



Step 05: The wireshark tool will keep recording the packets.



Step 06: Select http as filter and stop recording.



Step 07: Find the POST method for username and password.

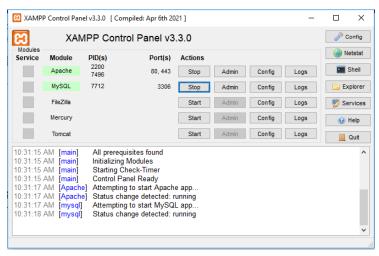


Step 08: U will see the email- id and password that was used to login.

```
> Frame 18166: 747 bytes on wire (5976 bits), 747 bytes c
> Ethernet II, Src: RealtekSemic_a1:03:9d (00:e0:4c:a1:03
> Internet Protocol Version 4, Src: 192.168.1.75, Dst: 21
> Transmission Control Protocol, Src Port: 1921, Dst Port
> Hypertext Transfer Protocol

VHTML Form URL Encoded: application/x-www-form-urlencode
> Form item: "email" = "example@gmail.com"
> Form item: "password" = "password"
```

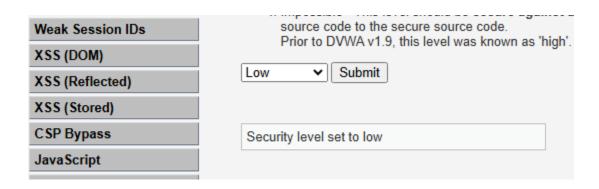
Step 01: Install and Run XAMPP, DVWA and run Apache and MySQL in XAMPP.



Step 02: Enter "localhost/DVWA/login.php" in a web browser.



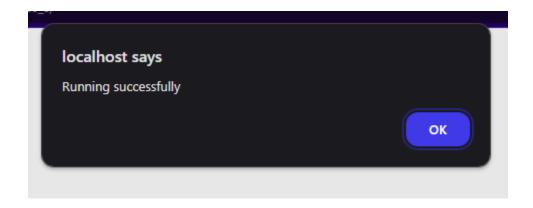
Step 03: After login, go to DVWA Security and set security to "low".



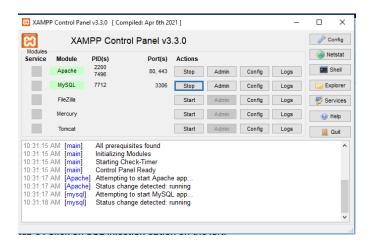
Step 04: Click on XSS(Stored) and type any name and type and type the script you want to inject.

Name *	Test1	
Message *	<script>alert("Successful Attack")k/script></td><td></td></tr><tr><td></td><td>Sign Guestbook Clear Guestbook</td><td></td></tr></tbody></table></script>	

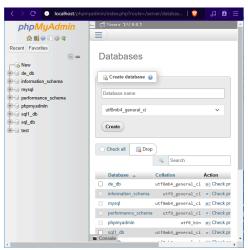
Step 05: The script you enter will be shown.



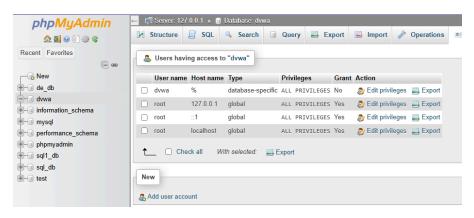
Step 01: Open XAMPP and run Apache and MySQL.



<u>Step 02:</u> Go to the web browser and enter the site localhost/phpmyadmin.



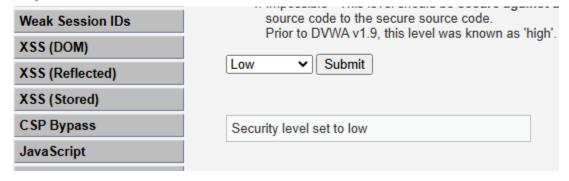
Step 03: Create a database with the name DVWA.



Step 04: Go to site localhost/dvwa/ then login.



Step 05: Go to the security setting option on the left and set the security level low.



Step 06: Click on SQL injection option on the left.



Step 07: Write "1" in the text box and click on submit.

ulnerability: SQL Injection		
User ID:	Submit	
ID: 1		
First name: admir	n	
Surname: admin		

Step 08: Write "1=1" in the text box and click on submit.

ulnerabilit	y: SQL Injection
User ID:	Submit
ID: 1=1	
First name: admin	
Surname: admin	

Step 10: Write "1*" in the text box and click on submit.

/ulnerabi	ity: SQ	L Injection
User ID:		Submit
ID: 1*		
First name: ad Surname: admin	in	