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Kali Linux Tools

1) Information gathering(Nslookup):

Super tool beta

smartinternz.com/ HTTPS Lookup

https://smartinternz.com/ Monitor This https

Certificate	
	<div>Primary</div> <div>Common Name: smartinternz.com</div> <div>Remind Me</div> <div><div>➤ Issuer: Amazon RSA 2048 M01</div><div>➤ Expires: 9 months</div><div>➤ Valid From: 4/20/2023</div><div>➤ Valid To: 5/19/2024</div><div>➤ Serial: 075946D6B8738E96EA11C05A2FADBDBF</div><div>➤ Algorithm: sha256RSA</div></div>
	<div>Common Name: Amazon RSA 2048 M01</div> <div><div>➤ Issuer: Amazon Root CA 1</div><div>➤ Expires: 7 years</div><div>➤ Valid From: 8/23/2022</div><div>➤ Valid To: 8/23/2030</div><div>➤ Serial: 077312380B9D6688A33B1ED9BF9CCDA68E0E0F</div><div>➤ Algorithm: sha256RSA</div><div>➤ Organization: Amazon</div><div>➤ Location: US</div></div>
	<div>Common Name: Amazon Root CA 1</div> <div><div>➤ Issuer: Amazon Root CA 1</div><div>➤ Serial: 066C9FCF99BF8C0A39E2F0788A43E696365BCA</div></div>

DNS for developers module 2 just dropped — Get the 54% pre-sale discount

NsLookup.io

smartinternz.com

Find DNS records

DNS records for **smartinternz.com**

Cloudflare

Google DNS

OpenDNS

Authoritative

Local DNS

The Cloudflare DNS server responded with these DNS records. Cloudflare will serve these records for as long as this period, Cloudflare will update its cache by querying one of the authoritative name servers.

A records

IPv4 address	Revalidate in
> a 35.154.227.143	1m
> a 13.234.22.171	1m

AAAA records

No AAAA records found.

It helps to find static ip/ip on which site is hosted

2) Vulnerability scan(Nmap)

```
(anonymous@anonymous)-[~]
$ sudo nmap -Pn -O 35.154.227.143
Starting Nmap 7.93 ( https://nmap.org ) at 2023-09-04 02:04 IST
Nmap scan report for ec2-35-154-227-143.ap-south-1.compute.amazonaws.com (35.154.227.143)
Host is up (0.023s latency).
Not shown: 996 filtered tcp ports (no-response)
PORT      STATE SERVICE
25/tcp    closed smtp
80/tcp    open  http
110/tcp   open  pop3
443/tcp   open  https
Aggressive OS guesses: Actiontec MI424WR-GEN3I WAP (96%), DD-WRT v24-sp2 (Linux 2.4.37) (96%), Linux 3.2 (96%), Linux 4.4 (96%), Microsoft Windows XP SP3 or Windows 7 or Windows Server 2012 (95%), Microsoft Windows XP SP3 (95%), VMware Player virtual NAT device (91%), BlueArc Titan 2100 NAS device (89%), DVTel DVT-9540DW network camera (88%), Toshiba e-STUDIO 280 printer (87%)
No exact OS matches for host (test conditions non-ideal).

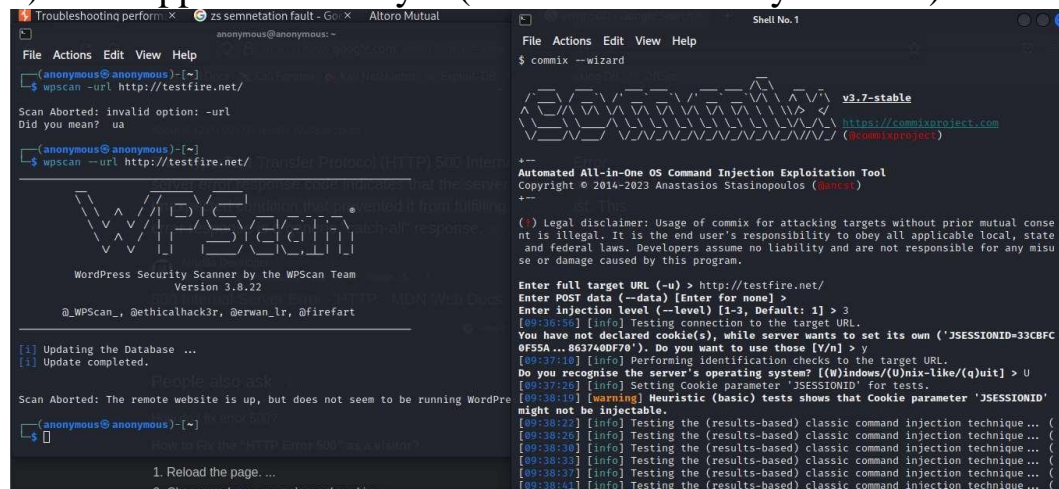
OS detection performed. Please report any incorrect results at https://nmap.org/submit
/ .
Nmap done: 1 IP address (1 host up) scanned in 84.23 seconds
```

```
(anonymous@anonymous)-[~]
$ sudo nmap -Pn -O 13.234.22.171
Starting Nmap 7.93 ( https://nmap.org ) at 2023-09-04 02:06 IST
Nmap scan report for ec2-13-234-22-171.ap-south-1.compute.amazonaws.com (13.234.22.171)
Host is up (0.0012s latency).
Not shown: 998 filtered tcp ports (no-response)
PORT      STATE SERVICE
25/tcp    closed smtp
110/tcp   open  pop3
Device type: firewall
Running (JUST GUESSING): Fortinet embedded (87%)
OS CPE: cpe:/h:fortinet:fortigate_100d
Aggressive OS guesses: Fortinet FortiGate 100D firewall (87%)
No exact OS matches for host (test conditions non-ideal).

OS detection performed. Please report any incorrect results at https://nmap.org/submit
/ .
Nmap done: 1 IP address (1 host up) scanned in 30.32 seconds
```

It helps to find open ports (to perform attack) and version of packages related to port

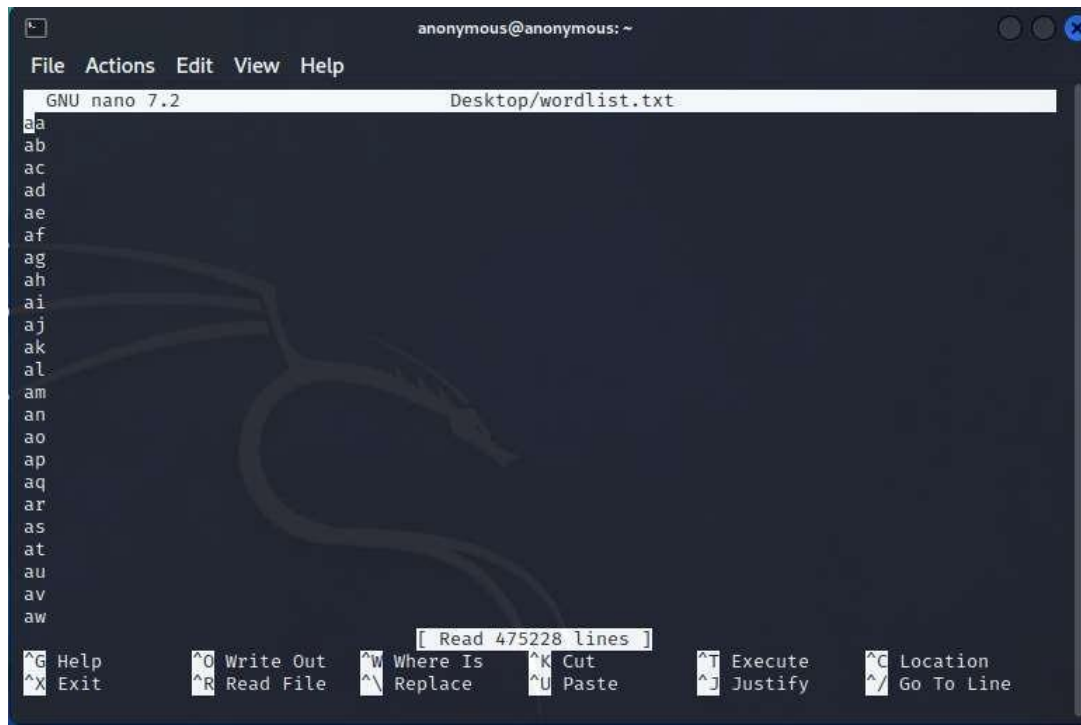
3) Web Application analysis(WordPress Security Scanner)



The screenshot shows a terminal window on the left and a graphical interface on the right. The terminal window displays the execution of the WPSecScan tool, which is a WordPress Security Scanner. The user enters the command `wpscan -url http://testfire.net/`, and the tool responds with a message indicating that the scan was aborted due to an invalid option. The graphical interface on the right is the Comix framework, which is an Automated All-in-One OS Command Injection Exploitation Tool. It displays a list of actions, including 'wpscan', and provides a detailed description of the tool's capabilities and usage.

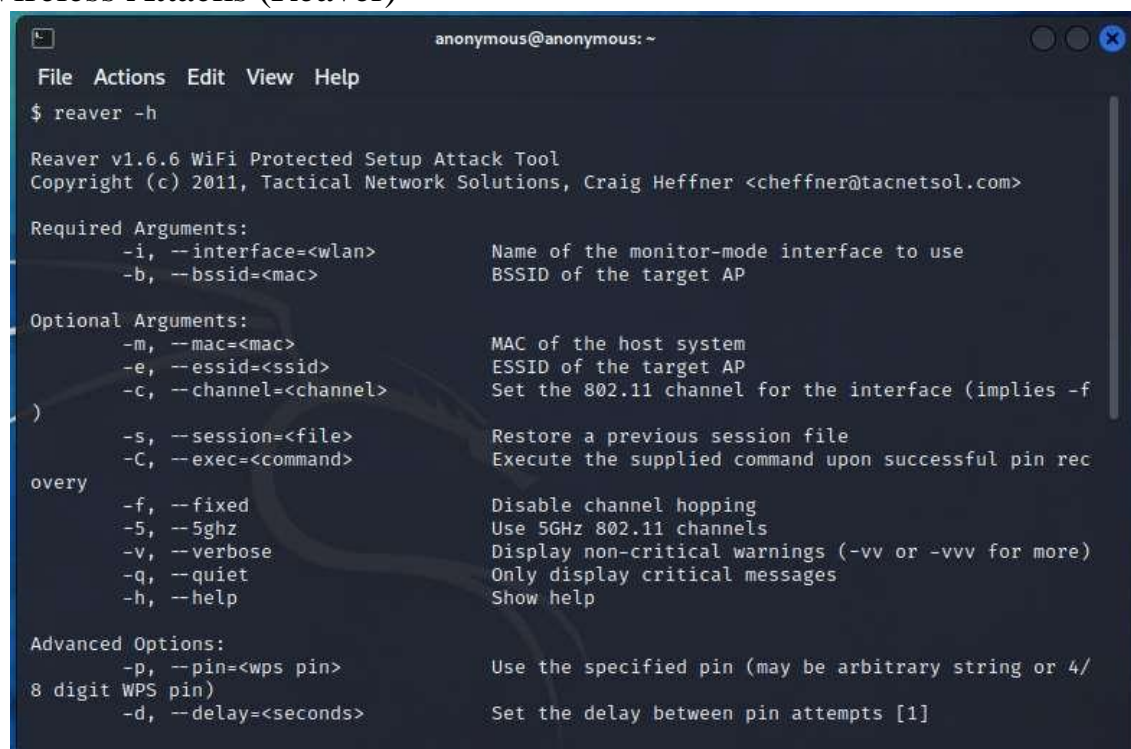
It scan the wordpress website and find vulnerability in it.

4) Database assessment(SqlMap)



Crunch create a wordlist(dictionary) as user choice for brute force password attack

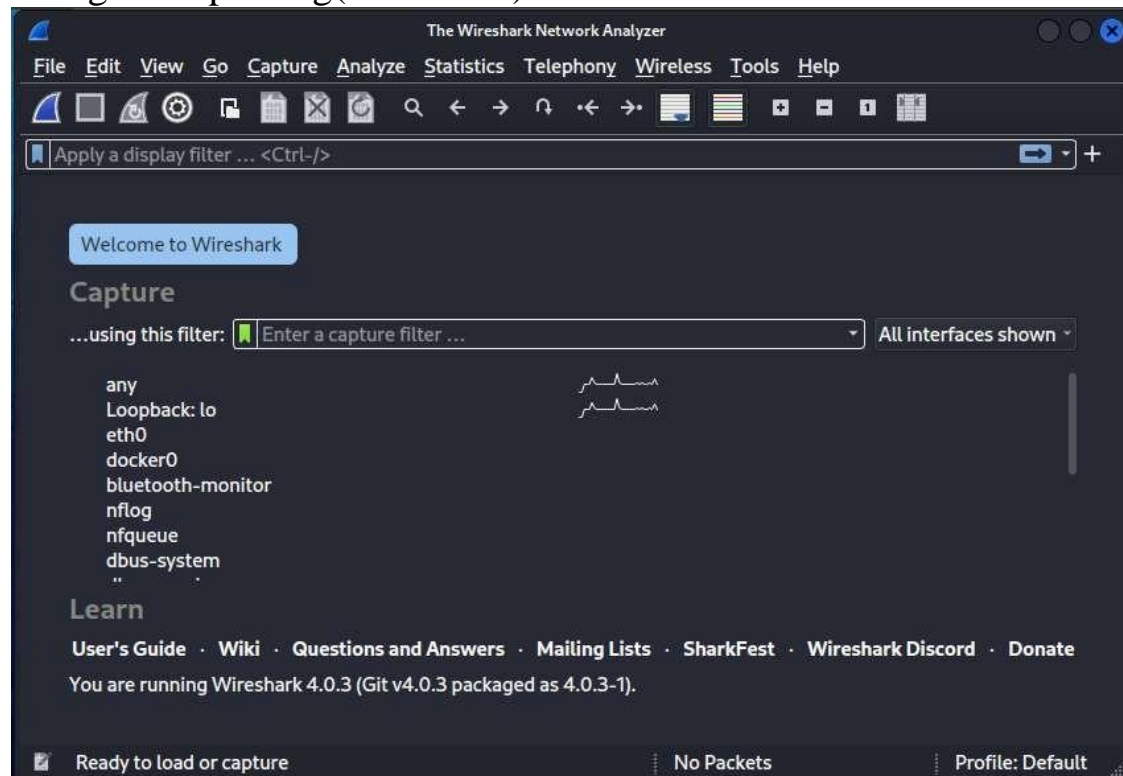
6) Wireless Attacks (Reaver)



Reaver is a wireless attack tool to get Wi-Fi credential. For ex for WPS, it brute force WPS pin and can set to wait for particular time to continue again

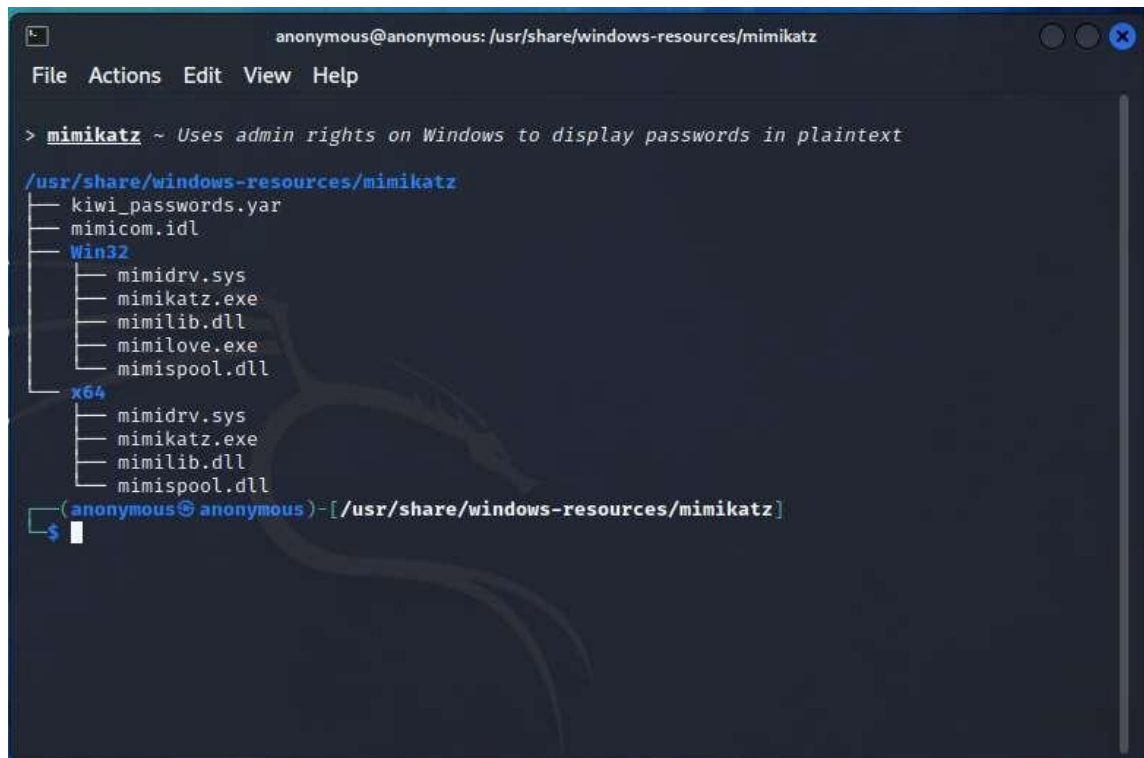
7) Reverse Engineering(Clang++)

9) Sniffing and Spoofing(Wireshark)



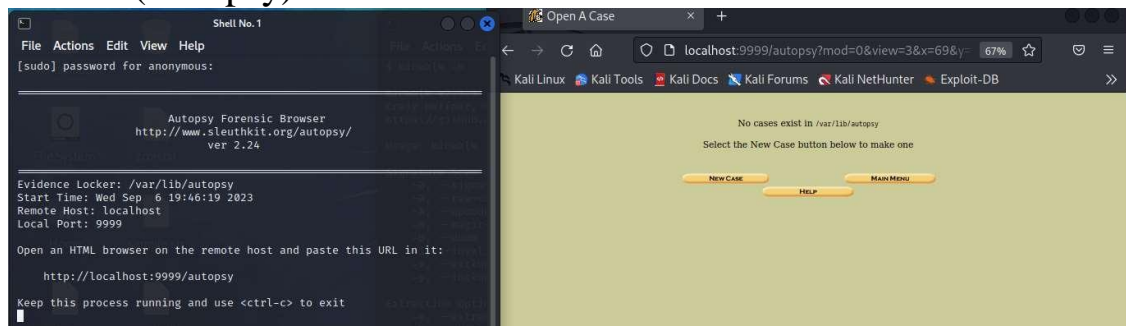
Wireshark helps to analyze or live monitoring of network to know the traffic or data transmission over network layer of packets. If data is transmitted by http, sniffer will get the actual data sent through it.

10) Post Exploitation(Mimikatz)



After execution of attack, if anyone want to trace , foot printing mimikatz can be used. It save the data in memory and perform operation to know how it perform. Sometimes it also help to retrieve password as password are saved in memory for useful purpose.

11) Forensic(Autopsy)



Autopsy is an easy to use, GUI-based program that allows you to efficiently analyze hard drives and smart phones. It has a plug-in architecture that allows you to find add-on modules or develop custom modules in Java or Python.

12) Reporting Tools(RecordmyDesktop)


```
anonymous@anonymous: ~  
File Actions Edit View Help  
$ recordmydesktop -h  
Usage: recordmydesktop [OPTIONS]^filename  
  
Generic Options  
-h, --help                Print this help and exit.  
--version                Print program version and exit.  
--print-config            Print info about options selected  
                        during compilation and exit.  
  
Image Options  
--windowid=id_of_window  id of window to be recorded.  
--display=DISPLAY        Display to connect to.  
-x, --x=N ≥ 0            Offset in x direction.  
-y, --y=N ≥ 0            Offset in y direction.  
--width=N > 0            Width of recorded window.  
--height=N > 0           Height of recorded window.  
--dummy-cursor=color     Color of the dummy cursor  
                        [black|white]  
--no-cursor              Disable drawing of the cursor.  
--no-shared              Disable usage of MIT-shared memory  
                        extension(Not Recommended!).  
--full-shots             Take full screenshot at every  
                        frame(Not recommended!).  
--follow-mouse           Makes the capture area follow the  
                        mouse cursor. Autoenables  
                        --full-shots.  
--quick-subsampling      Do subsampling of the chroma planes
```

Recordmydesktop is report creation in form of video with version of os with customized recording area of screen.

13) Social Engineering Tools(MSF Payload Creator)

```
anonymous@anonymous: ~  
File Actions Edit View Help  
$ msfpayload  
[*] MSFvenom Payload Creator (MSFPayload v1.4.5)  
  
[i] Missing TYPE or BATCH/LOOP mode  
  
/usr/bin/msfpayload <TYPE> (<DOMAIN/IP>) (<PORT>) (<CMD/MSF>) (<BIND/REVERSE>) (<STAGED/STAGELESS>) (<TCP/HTTP/HTTPS/FIND_PORT>) (<BATCH/LOOP>) (<VERBOSE>)  
Example: /usr/bin/msfpayload windows 192.168.1.10 # Windows & manual IP.  
/usr/bin/msfpayload elf bind eth0 4444 # Linux, eth0's IP & manual port.  
/usr/bin/msfpayload stageless cmd py https # Python, stageless command prompt.  
/usr/bin/msfpayload verbose loop eth1 # A payload for every type, using eth  
1's IP.  
/usr/bin/msfpayload msf batch wan # All possible Meterpreter payloads,  
using WAN IP.  
/usr/bin/msfpayload help verbose # Help screen, with even more informa  
tion.  
  
<TYPE>:  
+ APK  
+ ASP  
+ ASPX  
+ Bash [.sh]  
+ Java [.jsp]  
+ Linux [.elf]  
+ OSX [.macho]  
+ Perl [.pl]  
+ PHP  
+ Powershell [.ps1]  
+ Python [.py]  
+ Tomcat [.war]  
+ Windows [.exe // .exe // .dll]  
  
Rather than putting <DOMAIN/IP>, you can do a interface and MSFPayload will detect that IP address
```

To create malware for social engineering after reconnaissance, MSF payload creator is one of the tool customized malware of defined OS and file type.