AICS with IBM Qrador

Assignment-2

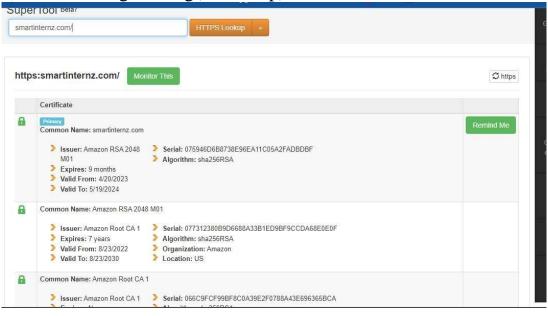
Name- Shaunak Tanawade Reg. No- 21BCE8843 Campus- VIT-AP

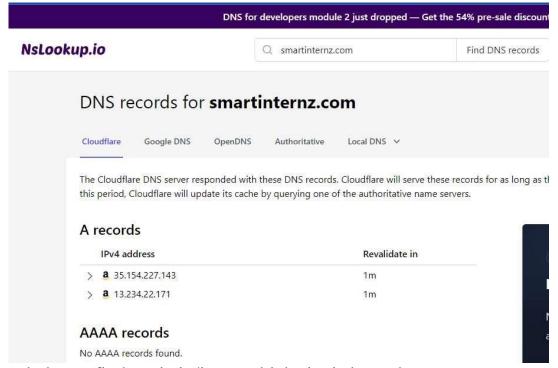
Kali Linux Tools

1)1) Vulnerability scan(Nmap)

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

2)Information gathering(Nslookup)





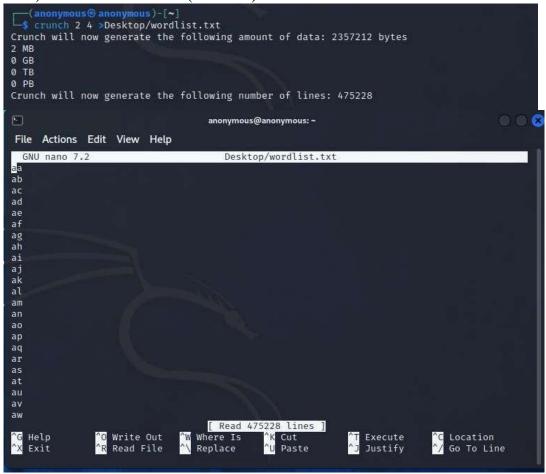
It helps to find static ip/ip on which site is hosted

3) Wireless Attacks (Reaver)

```
File Actions Edit View Help
$ reaver -h
Reaver v1.6.6 WiFi Protected Setup Attack Tool
Copyright (c) 2011, Tactical Network Solutions, Craig Heffner <cheffner@tacnetsol.com>
Required Arguments:
          -i, --interface=<wlan>
-b, --bssid=<mac>
                                                    Name of the monitor-mode interface to use
                                                    BSSID of the target AP
Optional Arguments:
          -m, --mac=<mac>
-e, --essid=<ssid>
                                                    MAC of the host system ESSID of the target AP
          -c, --channel=<channel>
                                                    Set the 802.11 channel for the interface (implies -f
          -s, --session=<file>
-C, --exec=<command>
                                                    Restore a previous session file
Execute the supplied command upon successful pin rec
overv
                                                    Disable channel hopping
Use 5GHz 802.11 channels
          -5, --5ghz
                                                    Display non-critical warnings (-vv or -vvv for more) Only display critical messages
          -v, -verbose
                                                    Show help
Advanced Options:
-p, --pin=<wps pin> 8 digit WPS pin)
                                                    Use the specified pin (may be arbitrary string or 4/
                                                    Set the delay between pin attempts [1]
```

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

4) Password Attacks(Crunch)



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



```
Scan Aborted: invalid option: -url
Did you mean? ua

(anonymous@anonymous)-{-}

wpscan -url http://testfire.net/

Automated All-in-One OS Command Injection Exploitation Tool
Copyright @ 2014-2023 Amastasios Stasinopoulos (Amaze)

(blegal discalamer: Usage of commix for attacking targets without prior mutual conse

nt is illegal. It is the end user's responsibility to obey all applicable local, state

and federal laws. Developers assume no liability and are not responsible for any misu

se or damage caused evelopers assume no liability and are not responsible for any misu

se or damage caused by this program.

Enter full target URL (-u) > http://testfire.net/
Enter POST data (-data) [Enter for nome) >

[1] Updating the Database ...
[2] Update completed.

Scan Aborted: The remote website is up, but does not seem to be running WordPre

[30:38:30] [info] Performing identification checks to the target URL

Do you recompleted.

[40:38:32] [info] Setting Condiciparameter 'JSESSIONID' for tests.

[50:38:32] [info] Testing the (results-based) classic command injection technique ... (
[60:38:30] [info] Testing the (results-based) classic command injection technique ... (
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```

It scan the wordpress website and find vulnerability in it.

6) Reverse Engineering (Clang++)

```
anonymous@anonymous: ~
  File Actions Edit View Help
 $ clang++ --help
OVERVIEW: clang LLVM compiler
USAGE: clang [options] file...
OPTIONS:
                                                                                    Print (but do not run) the commands to run for this compilation
       --amdgpu-arch-tool=<value>
                                                                                     Tool used for detecting AMD GPU arch in the system.
       -- analyzer-output <value>
                                                                                     Static analyzer report output format (html|plist|plist-multi-file|
plist-html|sarif|sarif-html|text).
           -analyze
                                                                                    Run the static analyzer
       -arcmt-migrate-emit-errors
                                                                                    Emit ARC errors even if the migrator can fix them
      -arcmt-migrate-report-output <value>
                                                                                  Output path for the plist report
Search $prefix$file for executables, libraries, and data files. If
       -B <prefix>
   -b <are bear control of the control 
ations, and defines __FAST_RELAXED_MATH_
-cl-finite-math-only OpenCL only. A
                                                                                OpenCL only. Allow floating-point optimizations that assume argume
nts and results are not NaNs or +-Inf.
       -cl-fp32-correctly-rounded-divide-sqrt
```

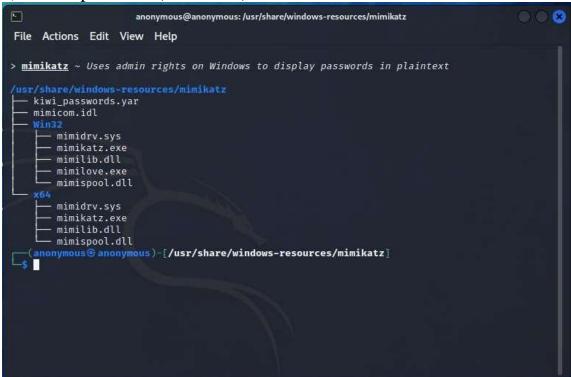
Clang++ helps to analyse packages to retrieve information code or process of development. TOdevelop crack of a software ,reverse engineering is done ,the according to code malicious dll orpackage is created to crack it

7) Database assessment(SqlMap)



Sqlmap find vulnerability to attack on databases of given url.

8) 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 peform. Sometimes it also help to retrieve password as password are saved in memory for useful purpose.

9) Social Engineering Tools(MSF Payload Creator)

```
0
                                       anonymous@anonymous: ~
File Actions Edit View Help
[*] MSFvenom Payload Creator (MSFPC v1.4.5)
[i] Missing TYPE or BATCH/LOOP mode
 /usr/bin/msfpc <TYPE> (<DOMAIN/IP>) (<PORT>) (<CMD/MSF>) (<BIND/REVERSE>) (<STAGED/STAGELES
S>) (<TCP/HTTP/HTTPS/FIND_PORT>) (<BATCH/LOOP>) (<VERBOSE>)
  Example: /usr/bin/msfpc windows 192.168.1.10 # Windows & manual IP.
             /usr/bin/msfpc elf bind eth0 4444
/usr/bin/msfpc stageless cmd py https
                                                             # Linux, eth0's IP & manual port.
                                                           # Python, stageless command prompt.
# A payload for every type, using eth
1's IP.
             /usr/bin/msfpc msf batch wan
                                                              # All possible Meterpreter payloads,
using WAN IP.
                                                             # Help screen, with even more informa
 <TYPE>:
   + Bash [.sh]
+ Java [.jsp]
   + Linux [.elf]
+ OSX [.macho]
   + Perl [.pl]
   + Powershell [.ps1]
   + Python [.py]
+ Tomcat [.war]
   + Windows [.exe // .exe // .dll]
 Rather than putting <DOMAIN/IP>, you can do a interface and MSFPC will detect that IP addre
```

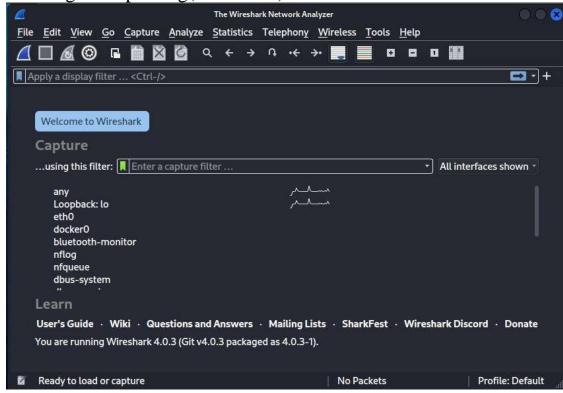
To create malware for social engineering after reconnaissance, MSF payload creator is one of thetool customized malware of defined OS and file type.

10) 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.
                                          Offset in y direction.
  -y, —y=N≥0
      -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.
                                          Disable usage of MIT-shared memory
      -no-shared
                                          extension(Not Recommended!).
      -full-shots
                                          Take full screenshot at every
                                          frame(Not recomended!).
      -- 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.

11) Sniffing and Spoofing(Wireshark)



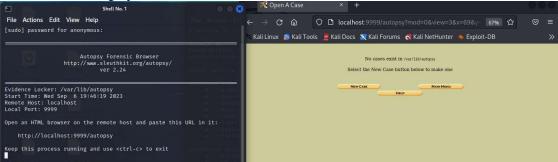
Wireshark helps to analyze or live monitoring of network to know the traffic or data transmission over network layer of packets. If data is transmitted by http, sniffer will get theactual data sent through it.

12) Reporting Tools(RecordmyDesktop)

```
anonymous@anonymous: ~
File Actions Edit View Help
$ recordmydesktop -h
Usage: recordmydesktop [OPTIONS]^filename
Generic Options
                                          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 recomended!).
                                          Makes the capture area follow the
      - follow-mouse
                                          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) Forensic (Autopsy)



Autopsy is an easy to use, GUI-based program that allows you to efficiently analyzehard 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.

14) Exploitation Tools(Metaslpoit framework)