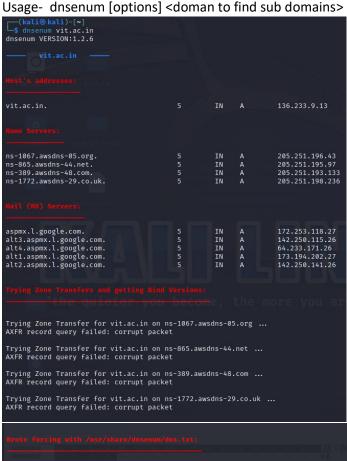
Information Gathering

DNSENUM:



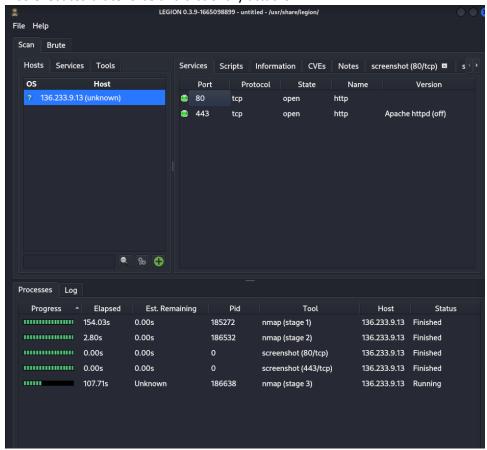
```
IN CNAME webmail.vit.ac.in.
IN A 182.79.4.233
IN A 136.233.9.55
IN A 136.233.9.59
IN CNAME aspmx.l.google.com.
IN A 64.233.170.26
IN CNAME alt1.aspmx.l.google
IN A 173.194.202.7
IN CNAME alt2.aspmx.l.google
IN A 142.250.141.27
IN A 182.79.4.232
IN A 186.233.9.12
IN A 182.79.4.233
IN CNAME vit.ac.in.
IN A 182.79.4.233
webmail.vit.ac.in.
elections.vit.ac.in.
mail.vit.ac.in.
                                                                                                                                                                                                                                               aspmx.l.google.com.
64.233.170.26
alt1.aspmx.l.google.com.
173.194.202.27
alt2.aspmx.l.google.com.
142.250.141.27
 mx1.vit.ac.in.
aspmx.l.google.com.
mx2.vit.ac.in.
mx2.vit.ac.in.
alt1.aspmx.l.google.com.
mx3.vit.ac.in.
alt2.aspmx.l.google.com.
att2.aspmx.l.google
smtp.vit.ac.in.
staging.vit.ac.in.
web.vit.ac.in.
webmail.vit.ac.in.
www.vit.ac.in.
    136.233.9.0/24
182.79.4.0/24
0 results out of 512 IP addresses.
```

This tool provides all the subdomains that a given domain could have. Uses bruteforce/Dictionary based attacks for providing to its purpose.

Legion:

Powerful GUI based port scanning tool that primarily uses nmap scans to collect details about an IP/ range of IPs.

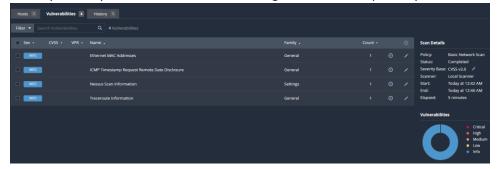
This can detect most of the information like open-ports, Server, Operating system Also executes bruteForce and dictionary attacks.



Vulnerability Analysis

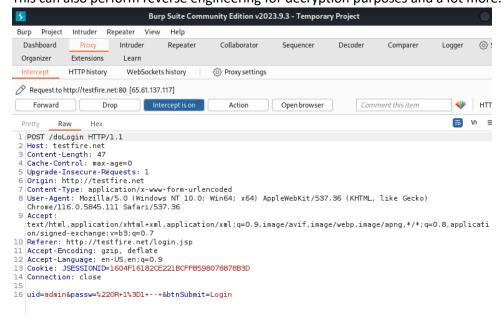
Nessus:

identify security vulnerabilities and misconfigurations in computer systems, network devices, and applications



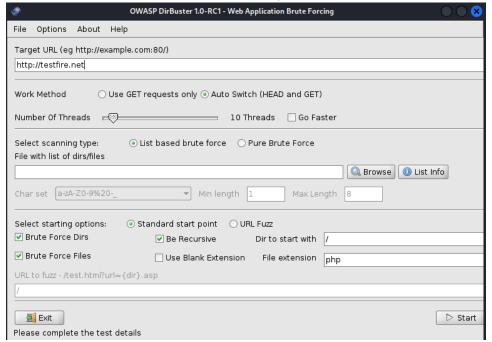
Burpsuite:

This is a proxy based tool that is used to intercept, modify and tamper the requests sent from/to the servers. This can also perform reverse engineering for decryption purposes and a lot more.



Dirbuster

GUI based tool, uses bruteforce and dictionary attacks to find directories linked to the provided domain name.



Sqlmap

Performs complete scan on the type of database, version, company, Server tables etc.

Password Attack

Hydra:

Hydra is a password attack tool that takes input of dictionary files containing keywords related to the login page and bruteforces

```
$ hydra | grep --color=auto '^\Supported services:'; hydra-wizard
Hydra v9.5 (c) 2023 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizatio
way).

Syntax: hydra [[[-l LOGIN|-L FILE] [-p PASS|-P FILE]] | [-C FILE]] [-e nsr] [-o FILE] [-t TASKS] [-M FILE [-T TASKS]

ODULE_OPT] [service://server[:PORT][/OPT]]

Options:
    -l LOGIN or -L FILE login with LOGIN name, or load several logins from FILE
    -p PASS or -P FILE try password PASS, or load several passwords from FILE
    -C FILE colon separated "login:pass" format, instead of -L/-P options
    -M FILE list of servers to attack, one entry per line, ':' to specify port
    -t TASKS runt TASKS number of connects in parallel per target (default: 16)
    -U service module usage details
    -m OPT options specific for a module, see -U output for information
    -h more command line options (COMPLETE HELP)
    server the target: DNS, IP or 192:168.0.0/24 (this OR the -M option)
    service the service to crack (see below for supported protocols)
    OPT some service modules support additional input (-U for module help)

Supported services: adam6500 asterisk cisco cisco-enable cobaltstrike cvs firebird ftp[s] http[s]-{head|get|post} ht
    ram|digest|md5][s] memcached mongodb mssql mysql nntp oracle-listener oracle-sid pcanywhere pcnfs pop3[s] postgres r
    ks5 ssh kshky svn teamspeak telnet[s] vmauthd vnc xmpp

Hydra is a tool to guess/crack valid login/password pairs.
    Licensed under AGPL v3.0. The newest version is always available at;
    https://github.com/vanhauser-thc/thc-hydra
    Please don't use in military or secret service organizations, or for illegal
    purposes. (This is a wish and non-binding - most such people do not care about
    laws and ethics anyway - and tell themselves they are one of the good ones.)

Example: hydra -l user -P passlist.txt ftp://192.168.0.1
```

Crunch

This is a wordlist generator tool that can be used to generate lists provided the minimum and maximum number

of characters.

```
-(kali⊕kali)-[~]
Crunch will now generate the following amount of data: 2235983568 bytes
2132 MB
2 GB
0 TB
0 PB
Crunch will now generate the following number of lines: 321254128
aaab
aaac
aaad
aaae
aaaf
aaag
aaah
aaai
aaaj
aaak
aaal
```

Wireless Hacking tool

Aircrack-ng:

This is a wifi hacking tool that can be used to manipulate the connections to users.

#####To use this tool you will need an external wireless adapter that supports monitor mode######

```
-deauth 0 -a B8:C1:A2:43:24:8C wlan0
           sudo aireplay-ng
03:49:05 Waiting for beacon frame (BSSID: B8:C1:A2:43:24:8C) on channel 11
NB: this attack is more effective when targeting
a connected wireless client (-c <client's mac>).

03:49:05 Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]

03:49:05 Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]

03:49:06 Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
                       Sending DeAuth (code 7) to broadcast -- BSSID:
                     Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
03:49:07
03:49:07
03:49:08
03:49:08
                     Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
 03:49:09
03:49:09
03:49:10
                       Sending DeAuth (code 7) to broadcast --
                                                                                                                  BSSID: [B8:C1:A2:43:24:8C]
 03:49:11
                      Sending DeAuth (code 7) to broadcast --
                      Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
03:49:12
03:49:13
                      Sending DeAuth (code 7) to broadcast --
Sending DeAuth (code 7) to broadcast --
                                                                                                                  BSSID: [B8:C1:A2:43:24:8C]
                                                                                                                  BSSID: [B8:C1:A2:43:24:8C]
03:49:14 Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
03:49:15 Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
03:49:15 Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
                      Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C
 03:49:16
                     Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
 03:49:16
03:49:17
03:49:17
 03:49:18
                       Sending DeAuth (code 7) to broadcast --
                                                                                                                  BSSID: [B8:C1:A2:43:24:8C]
                     Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
03:49:20
                      Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
 03:49:20
                       Sending DeAuth (code 7) to broadcast --
                                                                                                                  BSSID: [B8:C1:A2:43:24:8C]
                      Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
 03:49:21
03:49:22
03:49:23
                       Sending DeAuth (code 7) to broadcast --
Sending DeAuth (code 7) to broadcast --
                                                                                                                                  [B8:C1:A2:43:24:8C
                                                                                                                  BSSID:
                      Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
Sending DeAuth (code 7) to broadcast -- BSSID: [B8:C1:A2:43:24:8C]
```

A de-authentication attack has been executed on this example.

Post Exploitation tools

• Weevely:

This is a post exploit tool that can be used to create backdoors and access it respectively after injecting it to a device.

```
(kali⊕ kali)-[~]

$ weevely generate 12345 backdoor.php

Generated 'backdoor.php' with password '12345' of 751 byte size.
```