BASIC LINUX COMMANDS:

date - command is used to display the system date and time

cal - command displays the current month's formatted calendar on our terminal screen

```
(kali@kali)-[~]

$ cal
February 2023

Su Mo Tu We Th Fr Sa

1 2 3 4

5 6 7 8 9 10 11

12 13 14 15 16 17 18

19 20 21 22 23 24 25

26 27 28
```

cd - command is also called chdir (Change Directory). We used this command to change or switch the current working directory.

```
(kali@ kali)-[~]
$ cd Desktop

(kali@ kali)-[~/Desktop]

$ ls

Files firebox keyboard.png key.png
```

cp - command is used to **copy** files or a group of files or directories that create an exact image of a file on a disk with a different file name.

whoami - command is used to print the effective **user ID** whereas the **who** command prints information regarding users who are presently logged in

```
Best Chromebook for Kall Linux

(kali® kali)-[~]

$ whoami

kalist Virtual Machines for Kall Linux

[kali® kali)-[~]

$ whonux USB Sticks

kalist Offictty7tes for Kall Linux 2023-02-28 12:04 (:0)
```

ls - command lists the directory contents of files and directories

ls -al

```
-(kali⊛kali)-[~]
total 200
drwxr-xr-x 21 kali kali 4096 Feb 28 12:21 .
                                     2021 ..
2021 .bash_history
drwxr-xr-x 3 root root 4096 Dec 19
            1 kali kali 1 Dec 19
-rw-r--r--
            1 kali kali 220 Dec 19 2021 .bash_logout
-rw-r--r--
-rw-r--r-- 1 kali kali 5349 Nov 24 08:35 .bashrc
-rw-r--r-- 1 kali kali 3526 Dec 19 2021 .bashrc.original
          6 kali kali 4096 Feb 27 06:13 .BurpSuite
drwxr-xr-x 9 kali kali 4096 Jan 21 2022 .cache
drwxr-xr-x 14 kali kali 4096 Feb 22 03:51 .config
drwxr-xr-x 2 kali kali 4096 Jan 4 09:45 Desktop
-rw-r--r-- 1 kali kali
                          55 Dec 19 2021 .dmrc
drwxr-xr-x 3 kali kali 4096 Jan 16 13:02 Documents
drwxr-xr-x 2 kali kali 4096 Feb 26 08:34 Downloads
            1 kali kali 11759 Dec 19 2021 .face
-rw-r--r--
            1 kali kali
                        5 Dec 19
                                      2021 .face.icon → .face
lrwxrwxrwx
                         4096 Dec 19
            3 kali kali
                                      2021 .gnupg
-rw-r--r--
        -- 1 kali kali 33 Feb 28 00:11 hash1.txt
-- 1 kali kali 0 Dec 19 2021 .ICEauthority
            1 kali kali
                           33 Feb 28 00:11 hash1.txt
```

cat - (concatenate) command is used to permitting us to create single or many files, concatenate files and redirect, view contain of file output in terminal or files

```
(kali@ kali)-[~]
$ echo "Welcome to JavaTpoint" > file.text

(kali@ kali)-[~]
$ cat file.text
Welcome to JavaTpoint
```

rm - command is used to delete files

```
(kali® kali)-[~]

$ cd Desktop

[(kali® kali)-[~/Desktop]

$ cd Files

(kali® kali)-[~/Desktop/Files]

$ ls
image1.png java.png pics.png picture.png pp.png screen.png

(kali® kali)-[~/Desktop/Files]

$ rm pics.png

[(kali® kali)-[~/Desktop/Files]

$ ls
image1.png java.png picture.png pp.png screen.png
```

mkdir - command used to create the directory

mv - command, we can move files and directories on our file system.

```
(kali@ kali)-[~]
$ cd Desktop

(kali@ kali)-[~/Desktop]
$ ls
files Files firebox keyboard.png

(kali@ kali)-[~/Desktop]
$ mv keyboard.png Files

(kali@ kali)-[~/Desktop]
$ cd Files

(kali@ kali)-[~/Desktop/Files]
$ ls
image1.png java.png keyboard.png key.png picture.png pp.png screen.png
```

uname - command displays the current system's information. We can view system information about our Linux environment with the uname command in Linux. With the uname -a command, we can learn more about our system, including Kernel Name, Node Name, Kernel Release, Kernel Version, Hardware Platform, Processor, and Operating System.

uptime - command displays the amount of time the system has been running.

```
(kali@ kali)-[~]
$ uptime
12:54:53 up 55 min, 1 user, load average: 2.43, 2.57, 2.52
```

users - command is used to display the **login names** of users logged in on the system.

```
(kali@kali)-[~]

$\subseteq \text{users} \text{kali} \text{Cal Command}
```

less - command is used to view files instead of opening the file. The less command is a more powerful variant of the "more" command which is used to show information one page at a time to the terminal. Ex: # less /etc/passwd

```
File Actions Edit View Help
root:x:0:0:root:/root:/usr/bin/zsh
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
_apt:x:100:65534::/nonexistent:/usr/sbin/nologin
_api.X:100-3034:./nonexistent./usr/sbin/notogin
systemd-timesync:x:101:101:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
systemd-network:x:102:103:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:103:104:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
mysql:x:104:110:MySQL Server,,,:/nonexistent:/bin/false
tss:x:105:111:TPM software stack,,,:/var/lib/tpm:/bin/false
strongswan:x:106:65534::/var/lib/strongswan:/usr/sbin/nologin
ntp:x:107:112::/nonexistent:/usr/sbin/nologin
messagebus:x:108:113::/nonexistent:/usr/sbin/nologin
redsocks:x:109:114::/var/run/redsocks:/usr/sbin/nologin
rwhod:x:110:65534::/var/spool/rwho:/usr/sbin/nologin
iodine:x:11<u>1</u>:65534::/run/iodine:/usr/sbin/nologin
```

free - command provides us the useful information about the **amount of RAM** available on a Linux machine. It also displays the entire amount of **physical** memory used and available space, as well as **swap memory** with **kernel buffers.**

```
-(kali⊛kali)-[~]
                                                  shared buff/cache
               total
                                        free
                                                                       available
                            used
             2021572
                         1285836
                                      103292
                                                  114424
                                                              632444
                                                                          465996
Swap:
             998396
                         192320
                                      806076
```

more - command permits us to show output in the terminal one page at a time. This is particularly beneficial when using a command that requires a lot of scrolling

```
(kali⊕kali)-[~]
 -$ more /etc/passwd
root:x:0:0:root:/root:/usr/bin/zsh
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
_apt:x:100:65534::/nonexistent:/usr/sbin/nologin
systemd-timesync:x:101:101:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologinsystemd-network:x:102:103:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:103:104:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
mysql:x:104:110:MySQL Server,,,:/nonexistent:/bin/false
tss:x:105:111:TPM software stack,,,:/var/lib/tpm:/bin/false
strongswan:x:106:65534::/var/lib/strongswan:/usr/sbin/nologin
ntp:x:107:112::/nonexistent:/usr/sbin/nologin
messagebus:x:108:113::/nonexistent:/usr/sbin/nologin
redsocks:x:109:114::/var/run/redsocks:/usr/sbin/nologin
rwhod:x:110:65534::/var/spool/rwho:/usr/sbin/nologin
```

sort -command, we can sort the content of the text file, line by line

```
(kali⊕ kali)-[~]
$ sort file.text
Java
JavaTpoint
Kali Linux Operating System
Linux
Welcome to JavaTpoint

(kali⊕ kali)-[~]
$ sort -r file.text
Welcome to JavaTpoint
Linux
Kali Linux Operating System
Kali Linux Operating System
Kali Linux
JavaTpoint
Java
```

history - command print the current user's bash history

```
-(kali⊕kali)-[~]
-$ history
  1
  2 nmap
  3 sudo nmap -sS 192.168.190.128
  4 nmap -sT 192.168.190.128
  5 sudo nmap -sS 192.168.190.128
  6 telnet 192.168.190.128
  7 whoami
  8 ipconfig
  9 ifconfig
 10 nslookup www.git.edu
 11 nmap 103.21.58.165
 12 nmap 192.168.190.2
 13 ping 103.21.58.165
 14 clear
 15 netstat 103.21.58.165
 16 sudo su
 17 ping www.gogle.com
 18 netstat www.google.com
 19 traceroute www.google.com
 20 traceroute -n google.com
 21 traceroute -n mindmajix.com
 22 sudo su
 23
     kali-undercover
 24 kali-undercover
```

pwd - command is used to print working directory.

man -It displays the user manual for all commands in Kali Linux. It includes Bash command and detailed synopsis with a short description.

```
LS(1)

NAME

ls - list directory contents

SYNOPSIS

ls [OPTION]... [FILE]...

DESCRIPTION

List information about the FILEs (the current directory by default). Sort entries alphabetically if none of -cftuvSUX nor --sort is specified.

Mandatory arguments to long options are mandatory for short options too.

-a, --all

do not ignore entries starting with .

-A, --almost-all
do not list implied . and ..

--author
with -l, print the author of each file
```

echo – This command displays any text as arguments. It is used for debugging shell programs.

```
(kali⊗ kali) - [~/Desktop]

$ echo -e "Welcome \nto \nKali"

Welcome
to
Kali

(kali⊛ kali) - [~/Desktop]
```

wget - This command downloads applications and web pages directly from the web.

tree -This command shows the list of contents from a director in the tree fashion

grep - This command searches files and prints lines that match patterns.

```
(kali@ kali)-[-/Desktop/test1]

$ cat text123.txt

It is good for the heart and lungs and people run in the fresh air. Running outside rather than inside is good for you too because of the fresh air. Running also relieves tension, by running, people can think about their problems without having to worry about anyone hearing them. It is good for the heart and lungs and people run in the fresh air. Running outside rather than inside is good for you too because of the fresh air. Running also relieves tension, by running, people can think about their problems without having to worry about anyone hearing them.

[kali@ kali)-[-/Desktop/test1]

$ grep -i running text123.txt

It is good for the heart and lungs and people run in the fresh air. Running outside rather than inside is good for you too because of the fresh air. Running also relieves tension, by running, people can think about their problems without having to worry about anyone hearing them. It is good for the heart and lungs and people run in the fresh air. Running outside rather than inside is good for you too because of the fresh air. Running also relieves tension, by running, people can think about their problems without having to worry about anyone hearing them.

[kali@ kali)-[-/Desktop/test1]
```

wc - wc stands for word count. It shows the number of lines, words, characters, and bytes.

```
[kali⊗ kali) - [-/Desktop/test1]

cat text345.txt

1

2

3

4

5

6

7

8

9

10

[kali⊗ kali) - [-/Desktop/test1]

wc text345.txt

9 10 20 text345.txt

[kali⊗ kali) - [-/Desktop/test1]

$$ (kali⊗ kali) - [-/Desktop/test1]
```

unzip - Command used to extract the files from zip file

```
(kali@ kali)-[~/zphisher]
    unzip test.zip
```

du - The du command is used to display the amount of disk space used by files and directories.

```
-(kali⊛kali)-[~/zphisher]
L_$ <u>sudo</u> su
[sudo] password for kali:
        🐯 kali)-[/home/kali/zphisher]
        ./auth
12
        ./.sites/badoo
44
        ./.sites/yandex
24
868
        ./.sites/facebook
744
        ./.sites/google_new
        ./.sites/yahoo
248
        ./.sites/deviantart
88
24
        ./.sites/fb_advanced
728
        ./.sites/origin
        ./.sites/vk
64
100
        ./.sites/linkedin
        ./.sites/tiktok
212
        ./.sites/pinterest
792
512
        ./.sites/ig_verify
        ./.sites/fb_security
28
72
        ./.sites/gitlab
        ./.sites/spotify
132
40
        ./.sites/snapchat
```

adduser -

Adduser command is used to add a new user. You can create multiple users by using adduser command.

passwd - command To change password

```
root@kali:~#passwd
New password:
Retype new password:
passwd: password updated successfully
root@kali:~#
```

macchanger - macchanger changes your mac address, essentially changing your identity. It helps with protecting your anonymity on the internet, making your IP untraceable.

```
(<mark>root۞ kali</mark>)-[/home/kali/zphisher]
macchanger --help
GNU MAC Changer
Usage: macchanger [options] device
       --help
                                   Print this help
  -V, --version
                                   Print version and exit
  -s, --show
                                   Print the MAC address and exit
      --ending
                                   Don't change the vendor bytes
  -е,
                                   Set random vendor MAC of the same kind
Set random vendor MAC of any kind
      --another
  -a.
  -A
  -p, --permanent
                                   Reset to original, permanent hardware MAC
  -r, --random
-l, --list[=keyword]
                                   Set fully random MAC
                                   Print known vendors
  -b, --bia
                                   Pretend to be a burned-in-address
  -m, --mac=XX:XX:XX:XX:XX
       --mac XX:XX:XX:XX:XX Set the MAC XX:XX:XX:XX:XX
Report bugs to https://github.com/alobbs/macchanger/issues
```

ifconfig - ifconfig <=> interface configuration. Used to detect the IP address

```
0
    ifconfig
eth0: flags=4163<UP, BROADCAST, RUNNING, MULTICAST> mtu 1500
        inet 192.168.190.132 netmask 255.255.255.0 broadcast 192.168.190.255 inet6 fe80::20c:29ff:fe27:687b prefixlen 64 scopeid 0×20ink>
        ether 00:0c:29:27:68:7b txqueuelen 1000 (Ethernet)
RX packets 114318 bytes 128955992 (122.9 MiB)
        RX errors 0 dropped 0 overruns 0 frame 0
         TX packets 64983 bytes 8108956 (7.7 MiB)
        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 15 bytes 1254 (1.2 KiB)
         RX errors 0 dropped 0 overruns 0 frame 0
         TX packets 15 bytes 1254 (1.2 KiB)
         TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

grep [options] pattern [files]

command used to search the pattern

```
(kali@ kali)-[~]
$ grep -i "syst" new.txt
systemd-network:*:18981:0:99999:7:::
systemd-resolve:*:18981:0:99999:7:::
systemd-timesync:*:18981:0:99999:7:::
systemd-coredump:!*:18981:::::
```

ping - command used to troubleshoot devices present in the network

nslookup – command used to find the IP of url

```
(kali® kali)-[~]
$ nslookup www.git.edu
Server: 192.168.190.2
Address: 192.168.190.2#53

Non-authoritative answer:
Name: www.git.edu
Address: 103.21.58.165
Name: www.git.edu
Address: 64:ff9b::6715:3aa5
```

durb – command used to find the directories of the target

```
[sudo] password for kali:

[root → kali)-[/home/kali]

dirb testphp.vulnweb.com
```

the Harvester - command used to find the official email ids

traceroute -It provides the names and identifies every device on the path.

1. It follows the route to the destination

2. It determines where the network latency comes from and reports it.

```
| The content of the
```

ip – This command gives the details of all networks like ifconfig. This command can also be used to get the details of a specific interface.

tracepath - Linux tracepath is similar to traceroute command. It is used to detect network delays. However, it doesn't require root privileges.

Syntax: tracepath mindmajix.com

netstat - Linux netstat command refers to the network statistics.

It provides statistical figures about different interfaces which include open sockets, routing tables, and connection information.

```
| Sample | S
```

This displays the programs associated with the open socket.

```
L-$ netstat -p
(Not all processes could be identified, non-owned process info
will not be shown, you would have to be root to see it all.)
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address Foreign Address State P
udp 0 0192.168.190.132:bootpc 192.168.190.254:bootps ESTABLISHED -
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags Type State I-Node PID/Program name P
unix 3 [] DGRAM 14014 - //
unix 2 [] DGRAM 14029 - //
unix 12 [] DGRAM 14035 - //
                                                                                                                                                                                                                                                                        PID/Program name
                                                                                                                                                                                                                                                                        Path
                                                                                                                                                                                                                                                                       Path
/run/systemd/notify
/run/systemd/journal/syslog
/run/systemd/journal/dev-log
/run/systemd/journal/socket
unix 7
unix 7
unix 2
unix 3
                                                                                  DGRAM
DGRAM
                                                                                                                                                                     14035
14037
                                                                                                                                                                                                -
847/systemd
871/dbus-daemon
1174/gvfs-udisks2-v
878/xfce4-session
1056/nm-applet
                                                                                  DGRAM
                                                                                                                                                                     19500
                                                                                                                                                                                                                                                                       /run/user/1000/systemd/notify
/run/user/1000/bus
                                                                                  STREAM
STREAM
                                                                                                                      CONNECTED CONNECTED
  unix
                                                                                                                                                                     19966
                                                                                  STREAM
STREAM
                                                                                                                      CONNECTED CONNECTED
                                                                                                                                                                                                                                                                       @/tmp/.ICE-unix/878
```

This gives detailed statistics of all the ports.

```
-(kali⊛kali)-[~]
Ip:
    Forwarding: 2
   1487 total packets received
   2 with invalid addresses
   0 forwarded
   0 incoming packets discarded
   1485 incoming packets delivered
   1034 requests sent out
    1 outgoing packets dropped
   40 dropped because of missing route
Icmp:
    1443 ICMP messages received
    102 input ICMP message failed
    ICMP input histogram:
       destination unreachable: 1440
       timeout in transit: 3
   0 ICMP messages sent
    0 ICMP messages failed
    ICMP output histogram:
IcmpMsg:
        InType3: 1440
        InType11: 3
```

information related to the routing table.

```
(kali⊕kali)-[~]
Kernel IP routing table
Destination Gateway
                            Genmask
                                             Flags
                                                    MSS Window
                                                                irtt Iface
                                             UG
default
              192.168.190.2 0.0.0.0
                                                      0 0
                                                                  0 eth0
192.168.190.0 0.0.0.0
                              255.255.255.0
                                             U
                                                      0 0
                                                                  0 eth0
```

This command gives information about all TCP, UDP, and UNIX socket connections.

You can use -t, -u, -x in the command respectively to show TCP/UDP or UNIX sockets. You can combine each of these with "a" to show the connected and listening sockets.

Syntax:

```
ss -ta
ss -ua
ss -xa
```

If you want to see only the listening sockets of TCP/UDP or UNIX sockets, combine it with "l"

Syntax:

```
ss -lt
ss -lu
ss -lx
```

• To get a list of all the established sockets of TCP for IPV4,

Command:

\$ ss -t4 state established

• To get a list of all closed TCP sockets,

Command:

```
$ ss -t4 state closed
```

• To get a list of all connected ports for a specific IP address:

dig -Linux dig command stands for Domain Information Groper. This command is used in DNS lookup to query the DNS name server. It is also used to troubleshoot DNS related issues.

It is mainly used to verify DNS mappings, MX Records, host addresses, and all other DNS records for a better understanding of the DNS topography.

Command:

```
$ dig google.com MX
```

• To get all types of records at once, use the keyword ANY ass below:

Command:

```
$ dig google.com ANY
```

route-

Linux route command displays and manipulates the routing table existing for your system. A router is basically used to find the best way to send the packets across to a destination

```
-(kali⊕kali)-[~]
Kernel IP routing table
Destination Gateway
                              Genmask
                                             Flags Metric Ref
                                                                Use Iface
              192.168.190.2
                                                                  0 eth0
                              0.0.0.0
                                             UG
                                                   100
default
                                                         0
                              255.255.255.0
192.168.190.0 0.0.0.0
                                                   100
                                                         0
                                                                  0 eth0
```

host -

Linux host command displays the domain name for a given IP address and IP address for a given hostname. It is also used to fetch DNS lookup for DNS related query.

```
host mindmajix.com
mindmajix.com has address 18.155.99.123
mindmajix.com has address 18.155.99.11
mindmajix.com has address 18.155.99.28
mindmajix.com has address 18.155.99.58
mindmajix.com has IPv6 address 64:ff9b::129b:633a
mindmajix.com has IPv6 address 64:ff9b::129b:637b
mindmajix.com has IPv6 address 64:ff9b::129b:630b
mindmajix.com has IPv6 address 64:ff9b::129b:631c
mindmajix.com mail is handled by 10 alt3.aspmx.l.google.com.
mindmajix.com mail is handled by 5 alt1.aspmx.l.google.com.
mindmajix.com mail is handled by 5 alt2.aspmx.l.google.com.
mindmajix.com mail is handled by 1 aspmx.l.google.com.
mindmajix.com mail is handled by 1 aspmx.l.google.com.
mindmajix.com mail is handled by 1 aspmx.l.google.com.
```

arp-

Linux arp command stands for Address Resolution Protocol. It is used to view and add content to the kernel's ARP table.

```
      (kali⊕ kali)-[~]

      $ arp

      Address
      HWtype
      HWaddress
      Flags Mask
      Iface

      192.168.190.254
      ether
      00:50:56:f2:4b:b9
      C
      eth0

      192.168.190.2
      ether
      00:50:56:e7:16:1f
      C
      eth0
```

iwconfig -

Linux iwconfig is used to configure the wireless network interface. It is used to set and view the basic WI-FI details like SSID and encryption. To know more about this command, refer to the man page.

```
(kali⊗kali)-[~]
$ iwconfig
lo no wireless extensions.

eth0 no wireless extensions.
```

hostname-

Linux hostname is the simple command used to view and set the hostname of a system.

```
__(kali⊕kali)-[~]
$ hostname
kali
```

curl or wget -

Linux curl and wget commands are used in downloading files from the internet through CLI. The curl command has to be used with the option "O" to fetch the file, while the wget command is used directly.

```
-(kali⊕kali)-[~]
 -$ wget google.com/doodles/new-years-day-2012
--2023-03-01 13:02:40-- http://google.com/doodles/new-years-day-2012
Resolving google.com (google.com)... 142.250.196.46, 2404:6800:4007:82c::200e
Connecting to google.com (google.com)|142.250.196.46|:80 ... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
Location: https://www.google.com/doodles/new-years-day-2012 [following]
--2023-03-01 13:02:41-- https://www.google.com/doodles/new-years-day-2012
Resolving www.google.com (www.google.com)... 142.250.193.132, 2404:6800:4009:82a::2004
Connecting to www.google.com (www.google.com)|142.250.193.132|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1690450 (1.6M) [text/html]
Saving to: 'new-years-day-2012'
new-years-day-2012
                           100%[===
                                                        <del>------</del>]
                                                                     1.61M
                                                                               374KB/s
                                                                                            in 4.4s
2023-03-01 13:02:47 (374 KB/s) - 'new-years-day-2012' saved [1690450/1690450]
```

```
(kali⊕ kali)-[~]

$ curl -0 google.com/doodles/childrens-day-2014-multiple-countries

% Total % Received % Xferd Average Speed Time Time Current

Dload Upload Total Spent Left Speed

100 265 100 265 0 0 1266 0 --:--:-- 1274
```

whois - Linux whois command is used to fetch all the information related to a website. You can get all the information about a website including the registration and the owner information.

```
-(kali⊕kali)-[~]
$ whois mindmajix.com
  Domain Name: MINDMAJIX.COM
   Registry Domain ID: 1805819997_DOMAIN_COM-VRSN
   Registrar WHOIS Server: whois.godaddy.com
   Registrar URL: http://www.godaddy.com
   Updated Date: 2022-09-14T09:10:43Z
   Creation Date: 2013-06-03T08:24:58Z
   Registry Expiry Date: 2024-06-03T08:24:58Z
   Registrar: GoDaddy.com, LLC
   Registrar IANA ID: 146
   Registrar Abuse Contact Email: abuse@godaddy.com
   Registrar Abuse Contact Phone: 480-624-2505
  Domain Status: clientDeleteProhibited https://icann.org/epp#clientDeleteProhibited Domain Status: clientRenewProhibited https://icann.org/epp#clientRenewProhibited
   Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited
   Domain Status: clientUpdateProhibited https://icann.org/epp#clientUpdateProhibited
   Name Server: NS-1419.AWSDNS-49.ORG
   Name Server: NS-1574.AWSDNS-04.CO.UK
   Name Server: NS-285.AWSDNS-35.COM
   Name Server: NS-654.AWSDNS-17.NET
   DNSSEC: unsigned
   URL of the ICANN Whois Inaccuracy Complaint Form: https://www.icann.org/wicf/
>>> Last update of whois database: 2023-03-01T18:05:06Z <<<
```