

# **BANGLADESH**

# **Assignment No-01**

**Assignment Title: Kali Linux Terminal Commands** 

**Course Title: Ethical Hacking** 

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**Lab Task Topic:** Familiarization of Linux Commands

# **Submitted to:**

**MD Sha Jalal** 

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# □ Objective:

The objective of this assignment is to develop foundational proficiency in using the Kali Linux terminal for Cybersecurity and ethical hacking tasks. Students will learn and apply essential command-line operations to navigate the file system, manage files and directories, monitor system processes, and perform network-related tasks. By mastering these basic commands, students will gain the practical skills necessary to operate efficiently in a Linux-based penetration testing environment, which is critical for conducting real-world ethical hacking and security assessments.

# **□** Introduction:

Kali Linux is a Debian-based distribution specifically designed for penetration testing and security auditing. Unlike traditional graphical user interfaces, many of Kali's powerful tools are executed from the terminal, making command-line proficiency a critical skill for any Cybersecurity professional. This assignment focuses on commonly used Linux terminal commands to help students become comfortable with the Linux environment and prepare them for more advanced ethical hacking tasks.

# ☐ Kali Linux Terminal Commands:

# 1.1 Creating Files using terminal

Syntax: touch file\_name

Command: \$ touch Passwd.txt

```
(kali kali) - [~/Desktop/Assignment1]
$ touch Passwd.txt

(kali kali) - [~/Desktop/Assignment1]
$ [
```

### 1.2 Creating Folder using terminal

Syntax : mkdir directory\_name
Command : \$ mkdir Assignment1

Sample Input & Output:

```
___(kali⊗ kali)-[~/Desktop]
_$ mkdir Assignment1
___(kali⊗ kali)-[~/Desktop]
_$ cd Assignment1
```

#### 1.3 Print Working Directory using terminal

Syntax: pwd

Command: \$ pwd

Sample Input & Output:

# 1.4 Change Directory using terminal

Syntax : cd directory\_name
Command : \$ cd Assignment1

```
___(kali⊗ kali)-[~/Desktop]
_$ mkdir Assignment1
___(kali⊗ kali)-[~/Desktop]
_$ cd Assignment1
```

### 1.5 Print Content using terminal

Syntax : cat file\_name

Command: \$ cat Passwd.txt

# Sample Input & Output:

```
(kali@kali)-[~/Desktop/Assignment1]
$ nano -l Passwd.txt

(kali@kali)-[~/Desktop/Assignment1]
$ cat Passwd.txt
Password list :
Google
Goolgy
UserName
PassPass
Admin
admin
Password
password
Pass1234
12345678
NewPassword123
KaliKali
```

# 1.6 Text Editor using terminal

Syntax : nano file\_name

Command: \$ nano -l Passwd.txt

```
File Actions Edit View Help

GNU nano 8.4

1 Password list:
2 Google
3 Goolgy
4 UserName
5 PassPass
6 Admin
7 admin
8 Password
9 password
10 Pass1234
11 12345678
12 NewPassword123
13 KaliKali
14
```

#### 1.7 Print List of all special dot files in a directory.

Syntax: ls -a

Command: \$ ls -a

Sample Input & Output:

```
-(kali®kali)-[~]
 -$ ls -a
                  .local
                  .mozilla
.bash_logout
                  Music
                  Pictures
.bashrc
.bashrc.original .profile
.cache
                  Public
                  .sudo_as_admin_successful
.conflg
Desktop
                  Templates
                  .vboxclient-clipboard-tty7-control.pid
.dmrc
Documents
                 .vboxclient-clipboard-tty7-service.pid
Downloads
                  .vboxclient-clipboard-tty8-control.pid
                  .vboxclient-display-svga-x11-tty7-control.pi
.face
                  .vboxclient-display-svga-x11-tty7-service.pi
.face.tcon
 gnupg
                  .vboxclient-draganddrop-tty7-control.pid
ICEauthority
                  .vboxclient-draganddrop-tty7-service.pid
                  .vboxclient-draganddrop-tty8-control.pid
 java
```

### 1.8 Print Long List of files in a directory.

Syntax : ls -l

Command: \$ ls -l

```
-(kali⊕kali)-[~]
 -$ ls -l
total 32
drwxr-xr-x 3 kali kali 4096 Jul
                                8 13:25 Desktop
drwxr-xr-x 2 kali kali 4096 Jul
                                8 11:42 Documents
drwxr-xr-x 3 kali kali 4096 Jul
                                8 12:27 Downloads
drwxr-xr-x 2 kali kali 4096 Jul 8 11:42 Music
drwxr-xr-x 3 kali kali 4096 Jul
                                8 13:55 Pictures
drwxr-xr-x 2 kali kali 4096 Jul
                                8 11:42 Public
drwxr-xr-x 2 kali kali 4096 Jul 8 11:42 Templates
drwxr-xr-x 2 kali kali 4096 Jul
                                8 11:42 Videos
```

# 1.9 Print size of files in human readable form of a directory.

Syntax: ls-l-h

Command: \$ ls -l -h

Sample Input & Output:

```
Spit View ∨

(spyder linux)-[~/Istiak_0S_Lab]

$\frac{1}{5} \ls -l -h}
$\total 8.0K$

drwxrwxr-x 2 spyder spyder 4.0K Jan 18 13:09 Lab1

-rw-rw-r-- 1 spyder spyder 0 Jan 18 13:13 readme.md

-rw-rw-r-- 1 spyder spyder 0 Jan 18 13:13 Text2.txt

-rw-rw-r-- 1 spyder spyder 49 Jan 18 13:11 Text.txt

(spyder linux)-[~/Istiak_0S_Lab]
```

## 1.10 Mark all the Executable files & Folder form of a directory.

Syntax: ls-F

Command: \$ ls -F

# 1.11 Copy files & Directory using terminal.

Syntax : cp [option] file1 file2

Command: \$ cp Text.txt Copied.txt

#### 1.12 Remove or Delete files & Folder Using terminal.

Syntax: rm file\_name //removing a file

Syntax : rmdir directory\_name //removing a folder Command : \$ rm Text2.txt

Command: \$ rmdir Text2.txt

# Sample Input & Output:



#### 1.13 Clear the contents of the terminal.

Syntax : clear

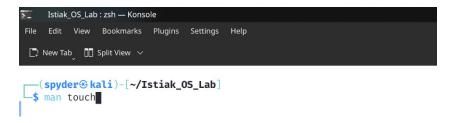
Command: \$ clear

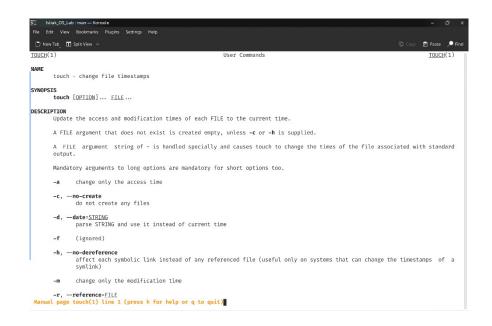


# 1.14 View manual & help of specific command.

Syntax: man Command\_name

Command: \$ man touch





# 1.15 Print list or display the contents of a directory in a tree like format.

Syntax : tree directory\_name Command : \$ tree Arduino

Sample Input & Output:



# 1.16 Find files using terminal.

Syntax : locate [options] file\_name

Command: \$ locate -b art.jpg

#### 1.17 Terminate a Process manually using terminal.

Syntex : kill [option] pid Command : \$ kill 2879

# Sample Input & Output:

```
| Stide Collabigation | Stide Collabigation
```

## 1.18 Print Content of a file one scornful at a time using terminal

Syntax : less file\_name

Command: \$ less Text.txt

```
Istiak_OS_Lab:zsh — Konsole

File Edit View Bookmarks Plugins Settings Help

□ New Tab □ Split View ∨

(spyder⊕ kali)-[~/Istiak_OS_Lab]

$ less Text.txt
```

#### 1.19 Display username or who logged in.

Syntax: who

Syntax: whoami

# Sample Input & Output:

```
Istiak_OS_Lab:zsh — Konsole

File Edit View Bookmarks Plugins Settings Help

New Tab Split View 

(spyder kali) - [~/Istiak_OS_Lab]

$ who ami

spyder

(spyder kali) - [~/Istiak_OS_Lab]

$ who ami

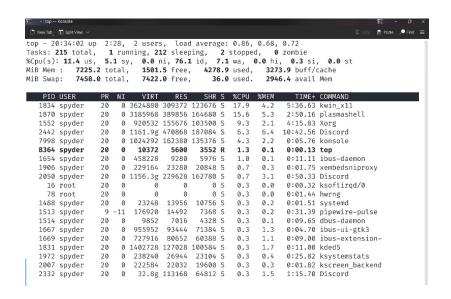
spyder
```

```
___(kali@ kali)-[~]
_$ who
kali seat0 2025-07-08 13:23 (:0)
___(kali@ kali)-[~]
_$ whoami
kali
___(kali@ kali)-[~]
_$ [kali@ kali)-[~]
```

# 1.20 Print the recourse being used in system using terminal

Syntax: top

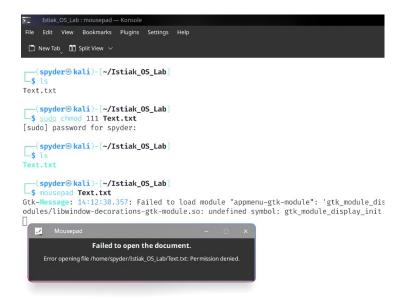
Command: \$ top



### 1.21 Modify file access permissions using terminal.

Syntax : chmod [options] permission\_filename

Command: \$ chmod 111 Text.txt



# 1.22 Change the user and / or group ownership of a given file, directory or symbolic link using terminal.

Syntax : chown [options] user [group] file\_name

Command: \$ chown kali Text.txt

## Sample Input & Output:

# 1.23 Shows the size used and available space on the mounted file system.

Syntax : df [option] file

Command: \$ df -h

```
-(kali⊛kali)-[~/Desktop/Assignment1]
Filesystem
                     Size Used Avail Use% Mounted on
                     2.8G 0 2.8G
585M 988K 584M
                                             0% /dev
1% /run
                     79G 17G
2.9G 4.0K
                                     59G 22% /
2.9G 1% /
/dev/sda1
                                             1% /dev/shm
0% /run/lock
tmpfs
                             0 5.0M
0 1.0M
584K 2.9G
0 1.0M
tmpfs
                     5.0M
                                             0% /run/credentials/systemd-journald.service
1% /tmp
0% /run/credentials/getty@tty1.service
                     1.0M 0
2.9G 584K
tmpfs
tmpfs
tmpfs
                     1.0M
                     585M 132K 585M
tmpfs
                                              1% /run/user/1000
```

#### 1.24 Testing Internet Connection using Google DNS

Syntax : ping [DNS server] Command : ping 8.8.8.8

Sample Input & Output:

```
(kali@ kali)-[~/Desktop/Assignment1]
$ ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=116 time=36.0 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=116 time=31.6 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=116 time=32.7 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=116 time=29.1 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=116 time=31.0 ms
^C
--- 8.8.8.8 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4041ms
rtt min/avg/max/mdev = 29.129/32.074/35.997/2.268 ms
```

# 1.25 Showing Commands History in terminal

Syntax: history

```
File Actions Edit View Help

(kali® kali)-[~/Desktop/Assignment1]

$ history
1 history
2 history clear
3 man history
4 sudo apt-get update && sudo apt-get upgrade
5 history
6 sudo systemctl start NetworkManager
7 sudo systemctl status NetworkManager
8 cd Downloads
9 sudo su
10 cd Desktop
11 mkdir Assignment1
12 cd Assignment1
13 touch Passwd.txt
14 pwd
15 nano -l Passwd.txt
16 cat Passwd.txt
17 cd ..
18 ls -a
19 ls -l
20 ls -l -h
21 ls -F
22 cd Desktop
23 cd Assignment1
24 cp Passwd.txt pass.txt
25 clear
26 tree
```

```
26 tree
27 cd ..
28 tree
29 cd ..
30 tree
31 ps
32 kill 214115
33 kill 21415
34 kill 1833
35 ps
36 who
37 whoami
38 cd Desktop
39 cd Assignment1
40 sudo chmod +x pass
41 sudo chmod +x pass
41 sudo chmod +x pass.txt
42 ls
43 cd ..
44 df -h as
45 cd Assignment1
46 df -h
47 ping 8.8.8.8
48 ping -5 8.8.8.8
49 ping -3 8.8.8.8
50 clear
51 ping 8.8.8.8
50 clear
51 ping 8.8.8.8
52 clear

[—(kali@kali)-[~/Desktop/Assignment1]
```