NAME: ABHIRUP KONWAR

**REG.NO: 20BIT0181** 

COURSE: CYBERSECURITY & ETHICAL HACKING

SMARTBRIDGE EXTERNSHIP PROGRAM

VIT email: abhirup.konwar2020@vitstudent.ac.in

## **ASSESSMENT – 1 (20,21 MAY 2023)**

## FILE AND DIRECTORY OPERATIONS

1. ls (list files and directories)

```
File Actions Edit View Help

(kali@kali)-[~/ABHIRUP]

$ ls
a.txt usernames.txt user.txt

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

## 2.cd (change directory)

```
(kali@ kali)-[~/ABHIRUP]
$ cd /

(kali@ kali)-[/]
$ pwd
/
```

## 3.pwd (print working directory)

```
File Actions Edit View Help

(kali@kali)-[~/ABHIRUP]

pwd
/home/kali/ABHIRUP
```

## 4.mkdir(make directory)

```
(kali@ kali)-[~/ABHIRUP]
$ mkdir cyber

(kali@ kali)-[~/ABHIRUP]
$ ls
a.txt cyber usernames.txt user.txt
```

5.touch (create an empty file)

```
(kali@ kali)-[~/ABHIRUP]
$ touch learn_linux.txt

(kali@ kali)-[~/ABHIRUP]
$ ls
a.txt cyber learn_linux.txt usernames.txt user.txt
```

6.cp (copy files and directories)

```
(kali⊗ kali)-[~/ABHIRUP]

$ cp /etc/passwd .

(kali⊗ kali)-[~/ABHIRUP]

$ ls
passwd
```

7.mv (move or rename files and directories)

```
(kali@ kali)-[~/ABHIRUP]
$ ls
learn_linux.txt

(kali@ kali)-[~/ABHIRUP]
$ mv learn_linux.txt fast.txt

(kali@ kali)-[~/ABHIRUP]
$ ls
fast.txt
```

8.rm (remove files and directories)

```
(kali® kali)-[~/ABHIRUP]

$ ls
fast.txt

(kali® kali)-[~/ABHIRUP]

$ rm fast.txt

(kali® kali)-[~/ABHIRUP]

$ ls
```

### 9.find (find for files and directories)

```
(kali⊗ kali)-[~/ABHIRUP]

$ find / -name *.txt -type f 2>/dev/null
/home/kali/Desktop/bruteforce/list.txt
/home/kali/Desktop/Empire/flask/lib/python3.10/site-packages/Werkzeug-2.3.2.dist-info/top_level.txt
/home/kali/Desktop/Empire/flask/lib/python3.10/site-packages/Flask-2.3.1.dist-info/top_level.txt
/home/kali/Desktop/Empire/flask/lib/python3.10/site-packages/MarkupSafe-2.1.2.dist-info/top_level.txt
/home/kali/Desktop/Empire/flask/lib/python3.10/site-packages/blinker-1.6.2.dist-info/top_level.txt
/home/kali/Desktop/Empire/flask/lib/python3.10/site-packages/pip-22.3.dist-info/LICENSE.txt
/home/kali/Desktop/Empire/flask/lib/python3.10/site-packages/pip-22.3.dist-info/top_level.txt
/home/kali/Desktop/Empire/flask/lib/python3.10/site-packages/pip-22.3.dist-info/top_level.txt
/home/kali/Desktop/Empire/flask/lib/python3.10/site-packages/wheel-0.37.1.dist-info/top_level.txt
/home/kali/Desktop/Empire/flask/lib/python3.10/site-packages/wheel-0.37.1.dist-info/top_level.txt
/home/kali/Desktop/Empire/flask/lib/python3.10/site-packages/wheel-0.37.1.dist-info/top_level.txt
/home/kali/Desktop/Empire/flask/lib/python3.10/site-packages/wheel-0.37.1.dist-info/top_level.txt
```

### FILE VIEWING AND EDITING

1.cat (concatenate and display content)

```
-(kali®kali)-[~/ABHIRUP]
scat /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/n
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
```

## 2.less (view file content with pagination)

less /etc/passwd

```
kali@kali: ~/ABHIRUP
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
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-network:x:101:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:102:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
systemd-timesync:x:103:110:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:104:111::/nonexistent:/usr/sbin/nologin
tss:x:105:113:TPM software stack,,,:/var/lib/tpm:/bin/false
strongswan:x:106:65534::/var/lib/strongswan:/usr/sbin/nologin
tcpdump:x:107:114::/nonexistent:/usr/sbin/nologin
usbmux:x:108:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
sshd:x:109:65534::/run/sshd:/usr/sbin/nologin
dnsmasq:x:110:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
/etc/passwd
```

### 3.head (display the beginning of a file)

```
(kali® kali)-[~/ABHIRUP]
$ head /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
```

4.tail (display the end of a file)

```
(kali@kali)-[~/ABHIRUP]
$ tail /etc/passwd
rwhod:x:127:65534::/var/spool/rwho:/usr/sbin/nologin
iodine:x:128:65534::/run/iodine:/usr/sbin/nologin
miredo:x:129:65534::/var/run/miredo:/usr/sbin/nologin
statd:x:130:65534::/var/lib/nfs:/usr/sbin/nologin
postgres:x:131:138:PostgreSQL administrator,,,:/var/lib/postgresql:/bin/bash
inetsim:x:132:140::/var/lib/inetsim:/usr/sbin/nologin
king-phisher:x:133:142::/var/lib/king-phisher:/usr/sbin/nologin
kali:x:1000:1000:,,:/home/kali:/usr/bin/zsh
mosquitto:x:134:146::/var/lib/mosquitto:/usr/sbin/nologin
polkitd:x:998:998:polkit:/nonexistent:/usr/sbin/nologin
```

5.nano (text editor for creating and editing files)

```
File Actions Edit View Help

(kali@kali)-[~/ABHIRUP]

$ nano file1.txt
```

```
File Actions Edit View Help

GNU nano 7.2

file contents of file1 random.
```

6.vi/vim (powerful text editor for experienced users)

```
(kali@ kali)-[~/ABHIRUP]
s vi file2.txt
```

### **FILE PERMISSIONS**

1.chmod (change file permissions)

```
      (kali⊗kali)-[~/ABHIRUP]

      $ ls -la

      total 8

      drwxr-xr-x 2 kali kali 4096 May 21 08:25 .

      drwxr-xr-x 43 kali kali 4096 May 21 08:23 ...

      -rw-r--r- 1 kali kali 0 May 21 08:25 game.exe

      (kali⊗kali)-[~/ABHIRUP]

      $ chmod +x game.exe

      (kali⊗kali)-[~/ABHIRUP]

      $ ls -la

      total 8

      drwxr-xr-x 2 kali kali 4096 May 21 08:25 .

      drwxr-xr-x 43 kali kali 4096 May 21 08:23 ...

      -rwxr-xr-x 1 kali kali 0 May 21 08:25 game.exe
```

## 2.chown(change file owner)

```
      (kali⊗kali)-[~/ABHIRUP]

      $ ls -la

      total 8

      drwxr-xr-x 2 kali kali 4096 May 21 08:25 .

      drwxr-xr-x 43 kali kali 4096 May 21 08:23 ...

      -rwxr-xr-x 1 root root 0 May 21 08:25 game.exe

      (kali⊗kali)-[~/ABHIRUP]

      $ sudo chown kali game.exe

      (kali⊗kali)-[~/ABHIRUP]

      $ ls -la

      total 8

      drwxr-xr-x 2 kali kali 4096 May 21 08:25 .

      drwxr-xr-x 43 kali kali 4096 May 21 08:23 ...

      -rwxr-xr-x 1 kali root 0 May 21 08:25 game.exe
```

### 3.chgrp (change file group)

```
      (kali⊗ kali)-[~/ABHIRUP]

      $ ls -la

      total 8

      drwxr-xr-x 2 kali kali 4096 May 21 08:25 .

      drwxr-xr-x 43 kali kali 4096 May 21 08:23 ..

      -rwxr-xr-x 1 kali root 0 May 21 08:25 game.exe

      (kali⊗ kali)-[~/ABHIRUP]

      $ sudo chgrp kali game.exe

      (kali⊗ kali)-[~/ABHIRUP]

      $ ls -la

      total 8

      drwxr-xr-x 2 kali kali 4096 May 21 08:25 .

      drwxr-xr-x 43 kali kali 4096 May 21 08:23 ..

      -rwxr-xr-x 1 kali kali 0 May 21 08:25 game.exe
```

#### FILE COMPRESSION AND ARCHIVING

1. tar (archive files)

```
—(kali⊛kali)-[~/ABHIRUP]
_s ls -la
total 12
drwxr-xr-x 2 kali kali 4096 May 21 08:31 .
drwxr-xr-x 43 kali kali 4096 May 21 08:23 ...
-rw-r--r-- 1 kali kali 26 May 21 08:31 file1.txt
-rwxr-xr-x 1 kali kali
                         0 May 21 08:25 game.exe
 -(kali@kali)-[~/ABHIRUP]
$ tar -cvf archive1.tar file1.txt game.exe
file1.txt
game.exe
---(kali⊛kali)-[~/ABHIRUP]
Ls`ls -la
total 24
drwxr-xr-x 2 kali kali 4096 May 21 08:31 .
drwxr-xr-x 43 kali kali 4096 May 21 08:23 ...
-rw-r--r 1 kali kali 10240 May 21 08:31
                       26 May 21 08:31 file1.txt
-rw-r--r-- 1 kali kali
-rwxr-xr-x 1 kali kali
                          0 May 21 08:25 game.exe
```

2.gzip (compress files)

```
-(kali@kali)-[~/ABHIRUP]
-$ ls -la
total 24
drwxr-xr-x 2 kali kali 4096 May 21 08:31 .
drwxr-xr-x 43 kali kali 4096 May 21 08:23 ...
-rw-r--r-- 1 kali kali 10240 May 21 08:31
-rw-r--r-- 1 kali kali 26 May 21 08:31 file1.txt
-rwxr-xr-x 1 kali kali
                          0 May 21 08:25 game.exe
 —(kali⊛kali)-[~/ABHIRUP]
s gzip game.exe
(kali⊛ kali)-[~/ABHIRUP]
total 28
drwxr-xr-x 2 kali kali 4096 May 21 08:32 .
drwxr-xr-x 43 kali kali 4096 May 21 08:23 ...
-rw-r--r-- 1 kali kali 10240 May 21 08:31
-rw-r--r-- 1 kali kali 26 May 21 08:31 file1.txt
                          29 May 21 08:25 game.exe.gz
-rwxr-xr-x 1 kali kali
```

3.unzip (extract files from zip archive)

```
-(kali@kali)-[~/ABHIRUP/1]
total 100960
drwxr-xr-x 2 kali kali
                            4096 May 21 08:34 .
drwxr-xr-x 3 kali kali
                           4096 May 21 08:34 ...
-rw-r--r-- 1 kali kali 103371385 Oct 26 2022 Pro
  -(kali@kali)-[~/ABHIRUP/1]
s unzip Programming.zip
Archive: Programming.zip
extracting: 1. Introduction to Android Development/1. [AD] 1.1 Setup and Run Fin
extracting: 1. Introduction to Android Development/Join @getstudyfever.pdf
extracting: 1. Introduction to Android Development/5. [AD] 1.4 Activity Lifecyc
 extracting: 1. Introduction to Android Development/4. [AD] 1.3 Android Component
rs-studyfever.mp4
extracting: 1. Introduction to Android Development/3. 1.2 [Doc] Project Structure
 extracting: 1. Introduction to Android Development/2. [AD] 1.2 Android Project
extracting: 1. Introduction to Android Development/6. Quiz/Q7.PNG
 extracting: 1. Introduction to Android Development/6. Quiz/Q12.PNG
extracting: 1. Introduction to Android Development/6. Quiz/Q4.PNG
 extracting: 1. Introduction to Android Development/6. Quiz/Q10.PNG
 extracting: 1. Introduction to Android Development/6. Quiz/Answers.txt
extracting: 1. Introduction to Android Development/6. Quiz/Q11.PNG
 extracting: 1. Introduction to Android Development/6. Quiz/Q1.PNG
 extracting: 1. Introduction to Android Development/6. Quiz/0.png
 extracting: 1. Introduction to Android Development/6. Quiz/Q2.PNG
                Introduction to Android Development/6, Ouiz/09.PNG
```

```
(kali@kali)-[~/ABHIRUP/1/1. Introduction to Android Development]

$ ls
'1. [AD] 1.1 Setup and Run First App on Android Studio-studyfever.mp4'
'2. [AD] 1.2 Android Project Structure-studyfever.mp4'
'3. 1.2 [Doc] Project Structure.pdf'
'4. [AD] 1.3 Android Components - Activities, Services, Receivers, Providers-studyfever.mp4'
'5. [AD] 1.4 Activity Lifecycle and Debugging-studyfever.mp4'
'6. Quiz'
```

#### PROCESS MANAGEMENT

1.ps (list running processes)

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

s ps
PID TTY TIME CMD
2351 pts/0 00:00:15 zsh
16385 pts/0 00:00:00 ps
```

2.top: Display real-time system information and processes

```
kali@kali: ~/ABHIRUP
File Actions Edit View Help
top - 08:36:36 up 28 min, 1 user, load average: 0.40, 0.42, 0.34
Tasks: 200 total, 1 running, 199 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.3 us, 0.6 sy, 0.0 ni, 98.9 id, 0.0 wa, 0.0 hi, 0.2 si, 0.0 st
MiB Mem : 1959.0 total, 72.5 free, 887.8 used, 1189.1 buff/cache
MiB Swap: 1024.0 total, 1023.0 free, 1.0 used. 1071.2 avail Mem
                       PR NI
                                    VIRT
                                                       SHR S %CPU %MEM
                                                                                      TIME+ COMMAND
     PID USER
                                              RES
                                  386048 116384
                                                      59880 S
                             0
                                                                                   0:23.40 Xorg
    2348 kali
                        20
                                  441712 104932
                                                      85536 S
                                                                            5.2
                                                                                   0:05.90 qterminal
                                  415084
                                                                                   0:06.07 panel-15-genmon
    1668 kali
                        20
                                            27676
                                                      20476
                                                                   0.3
    1805 kali
                        20
                              0 364504
                                             44208
                                                      30868 S
                                                                   0.3
                                                                                   0:03.61 vmtoolsd
                                                                           2.2
   16656 kali
                        20
                             0
                                   11608
                                             4972
                                                       3080 R
                                                                    0.3
                                                                                   0:00.04 top
                        20
                             0 167892
                                                        9092 S
        1 root
                                             12428
                                                                    0.0
                                                                           0.6
                                                                                   0:01.59 systemd
                             0
                                                                                   0:00.01 kthreadd
        2 root
                                                                    0.0
                                                                            0.0
                                                                                   0:00.00 rcu_gp
        3 root
                        0 -20
                                                           0 I
                                                                   0.0
                                         0
                                                  0
                                                                            0.0
                                                                                   0:00.00 rcu_par_gp
0:00.00 slub_flushwq
                                         0
                                                  0
                                                           0 T
                                                                   0.0
                                                                           0.0
        4 root
        5 root
                                                  0
                                                           0
                                                                   0.0
                                                                            0.0
        6 root
                                                            0 I
                                                                    0.0
                                                                            0.0
                                                                                    0:00.00 netns
        8 root
                         0 -20
                                         0
                                                                    0.0
                                                                           0.0
                                                                                   0:00.00 kworker/0:0H-events_highpri
                                                                                   0:00.41 kworker/u64:0-flush-8:0
                        20 0
                                         0
                                                  0
                                                           0 I
                                                                   0.0
                                                                           0.0
                        0 -20
                                         0
       10 root
                                                           0 I
                                                                   0.0
                                                                           0.0
                                                                                   0:00.00 mm_percpu_wq
       11 root
                        20
                                                            0 I
                                                                   0.0
                                                                            0.0
                                                                                   0:00.00 rcu_tasks_kthread
```

# 3.kill (terminate processes)

```
(kali⊗ kali)-[~/ABHIRUP]

$ ps
PID TTY TIME CMD
2351 pts/0 00:00:18 zsh
19260 pts/0 00:00:00 ps

(kali⊗ kali)-[~/ABHIRUP]

$ kill 2351
```

4.bg (run processes in background)

```
(kali@kali)-[~/ABHIRUP]
$ sleep 12
^Z
zsh: suspended sleep 12

(kali@kali)-[~/ABHIRUP]
$ bg
[1] + continued sleep 12
```

5.fg: Bring background processes to the foreground

```
(kali@ kali)-[~/ABHIRUP]
$ sleep 23 &
[1] 20560

(kali@ kali)-[~/ABHIRUP]
$ fg
[1] + running sleep 23
```

## **SYSTEM INFORMATION**

1. uname: Print system information

```
(kali@ kali)-[~/ABHIRUP]
$ uname
Linux
```

## 2. df: Display disk space usage

```
(kali⊛ kali)-[~/ABHIRUP]
Filesystem
           1K-blocks
                         Used Available Use% Mounted on
            963488
200604
udev
                        0 963488 0%/dev
                        1292
                               199312 1% /run
tmpfs
/dev/sda1
            82083148 34768992 43098608 45% /
             1003008 0 1003008 0%/dev/shm
tmpfs
                5120
                               5120 0% /run/lock
tmpfs
               200600
                          88
                                200512 1% /run/user/1000
tmpfs
```

# 3. free: Display memory usage

```
-(kali⊗kali)-[~/ABHIRUP]
_$ free
                            used
                                        free
                                                  shared buff/cache
                                                                       available
              total
Mem:
            2006020
                          893916
                                      466560
                                                  11088
                                                              826732
                                                                         1112104
Swap:
             1048572
                          42748
                                     1005824
```

# 4. uptime: Show system uptime

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

$ uptime

08:44:04 up 36 min, 1 user, load average: 0.38, 0.46, 0.41
```

# 5. who: Display logged-in users

```
(kali@ kali)-[~/ABHIRUP]
$ who
kali tty7 2023-05-21 08:08 (:0)
```

6. w: Display logged-in users and their activities

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

      $ w

      08:45:59 up 38 min, 1 user,
      load average: 0.49, 0.43, 0.40

      USER TTY FROM kali tty7 :0
      LOGINQ IDLE JCPU PCPU WHAT

      08:08 38:01 30.99s 0.40s xfce4-session
```

## **NETWORKING**

1. ifconfig: Configure network interfaces

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

$ ifconfig lo
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 28 bytes 2736 (2.6 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 28 bytes 2736 (2.6 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

2. ping: Send ICMP echo requests to a network host

```
kali⊕ kali)-[~/ABHIRUP]
$ ping google.com
PING google.com (142.250.194.174) 56(84) bytes of data.
64 bytes from del12s06-in-f14.1e100.net (142.250.194.174): icmp_seq=1 ttl=128 time=99.0 ms
64 bytes from del12s06-in-f14.1e100.net (142.250.194.174): icmp_seq=2 ttl=128 time=96.6 ms
64 bytes from del12s06-in-f14.1e100.net (142.250.194.174): icmp_seq=3 ttl=128 time=96.1 ms
64 bytes from del12s06-in-f14.1e100.net (142.250.194.174): icmp_seq=4 ttl=128 time=116 ms
64 bytes from del12s06-in-f14.1e100.net (142.250.194.174): icmp_seq=5 ttl=128 time=128 ms
64 bytes from del12s06-in-f14.1e100.net (142.250.194.174): icmp_seq=6 ttl=128 time=121 ms
```

3. ssh: Securely connect to a remote system

```
(kali⊗ kali)-[~/ABHIRUP]
$ ssh marcus@10.10.11.211
```

4. scp: Securely copy files between systems

```
File Actions Edit View Help

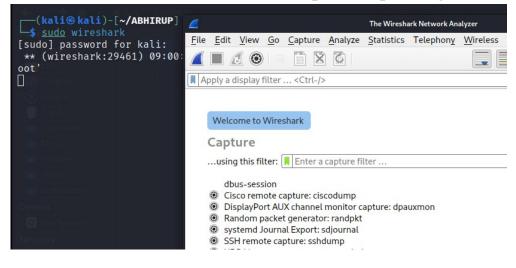
(kali@kali)-[~/ABHIRUP]

$ scp -r /var/www/html hacker@12.14.15.16:/test/index/
```

5. wget: Download files from the web

## **SYSTEM ADMINISTRATION**

1. sudo: Execute commands with superuser privileges



2. apt-get: Package management for Debian-based distributions

- 3. yum: Package management for Red Hat-based distributions (in kali yum not used, so this is skipped)
- 4. systemctl: Manage system services

```
(kali@ kali)-[~/ABHIRUP]
$ systemctl status nessusd
o nessusd.service - The Nessus Vulnerability Scanner
    Loaded: loaded (/lib/systemd/system/nessusd.service; disabled; preset: disabled)
    Active: inactive (dead)
```

5. crontab: Schedule recurring tasks

```
(kali⊗ kali)-[~/ABHIRUP]
$ crontab -e
no crontab for kali - using an empty one

Select an editor. To change later, run 'select-editor'.
1. /bin/nano ← easiest
2. /usr/bin/vim.basic
3. /usr/bin/vim.tiny

Choose 1-3 [1]: 1
crontab: installing new crontab
```

## cronjob to ping localhost everyday with 1 packet

```
File Actions Edit View Help

GNU nano 7.2 /tmp/crontab.HXDjYJ/crontab *

# Edit this file to introduce tasks to be run by cron.

# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task

# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').

# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.

# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).

# For example, you can run a backup of all your user accounts
# at 5 a.m every week with:
# 0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
#
# For more information see the manual pages of crontab(5) and cron(8)

# m h dom mon dow command
# 0 0 * * * * ping -c 1 localhost > /dev/null
```

## 6. useradd: Add a new user

```
| Kali⊗ kali | [~]
| $\sudo useradd hacker | [sudo] password for kali:
```

# 7. passwd: Change user password

```
(kali@kali)-[~]
$ sudo passwd hacker
New password:
Retype new password:
passwd: password updated successfully
```