CYBER SECURITY & ETHICAL HACKING

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ASSESSMENT – 1

File and directory operations:

ls: list files and directories

```
revanth@revanth-VirtualBox:~/Desktop$ cd
revanth@revanth-VirtualBox:~$ ls
Desktop Documents Downloads Music os Pictures Public Templates Videos
revanth@revanth-VirtualBox:~$
```

cd: Change directory

```
revanth@revanth-VirtualBox:~$ cd /
revanth@revanth-VirtualBox:/$ pwd
/
revanth@revanth-VirtualBox:/$
```

pwd: Print working directory

```
revanth@revanth-VirtualBox:/$ cd
revanth@revanth-VirtualBox:~$ pwd
/home/revanth
revanth@revanth-VirtualBox:~$
```

mkdir: Make directory

```
revanth@revanth-VirtualBox:~$ mkdir cyber
revanth@revanth-VirtualBox:~$ ls
cyber Documents Music Pictures Templates
Desktop Downloads os Public Videos
revanth@revanth-VirtualBox:~$
```

touch: Create an empty file

```
revanth@revanth-VirtualBox:~$ touch learn_linux.txt
revanth@revanth-VirtualBox:~$ ls
cyber Documents learn_linux.txt os Public Videos
Desktop Downloads Music Pictures Templates
revanth@revanth-VirtualBox:~$
```

cp: Copy files and directories

```
revanth@revanth-VirtualBox:~$ cp /etc/passwd .
revanth@revanth-VirtualBox:~$ ls
cyber Documents learn_linux.txt os Pictures Templates
Desktop Downloads Music passwd Public Videos
revanth@revanth-VirtualBox:~$
```

my: Move or rename files and directories

```
revanth@revanth-VirtualBox:~$ mv learn_linux.txt fast.txt
revanth@revanth-VirtualBox:~$ ls
cyber Documents fast.txt os Pictures Templates
Desktop Downloads Music passwd Public Videos
revanth@revanth-VirtualBox:~$
```

rm: Remove files and directories

```
revanth@revanth-VirtualBox:~$ ls
        Documents fast.txt os
                                     Pictures Templates
cyber
                             passwd Public
Desktop Downloads Music
                                               Videos
revanth@revanth-VirtualBox:~$ rm fat.txt
rm: cannot remove 'fat.txt': No such file or directory
revanth@revanth-VirtualBox:~$ rm fast.txt
revanth@revanth-VirtualBox:~$ ls
       Documents Music passwd
                                    Public
                                               Videos
                          Pictures Templates
revanth@revanth-VirtualBox:~$
```

find: Search for files and directories

```
revanth@revanth-VirtualBox:~$ find / -name *.txt -type f 2>/dev/null
/home/revanth/.cache/tracker/first-index.txt
/home/revanth/.cache/tracker/locale-for-miner-apps.txt
/home/revanth/.cache/tracker/db-locale.txt
/home/revanth/.cache/tracker/last-crawl.txt
/home/revanth/.cache/tracker/db-version.txt
/home/revanth/.cache/tracker/parser-version.txt
/home/revanth/.thunderbird/ktxgb8mn.default-release/SiteSecurityServiceState.txt
/home/revanth/.thunderbird/ktxgb8mn.default-release/pkcs11.txt
/home/revanth/.mozilla/firefox/4kjws1t5.default-release/AlternateServices.txt
/home/revanth/.mozilla/firefox/4kjws1t5.default-release/SiteSecurityServiceState
.txt
/home/revanth/.mozilla/firefox/4kjws1t5.default-release/pkcs11.txt
```

File Viewing and Editing:

cat: Concatenate and display file content

```
revanth@revanth-VirtualBox:~$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
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:/var/run/ircd:/usr/sbin/nologin
```

less: View file content with pagination

```
root:x:0:0:root:/root:/bin/bash
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:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologi
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/n
ologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
systemd-timesync:x:102:104:systemd Time Synchronization,,,:/run/systemd:/usr/sbi
/etc/passwd
```

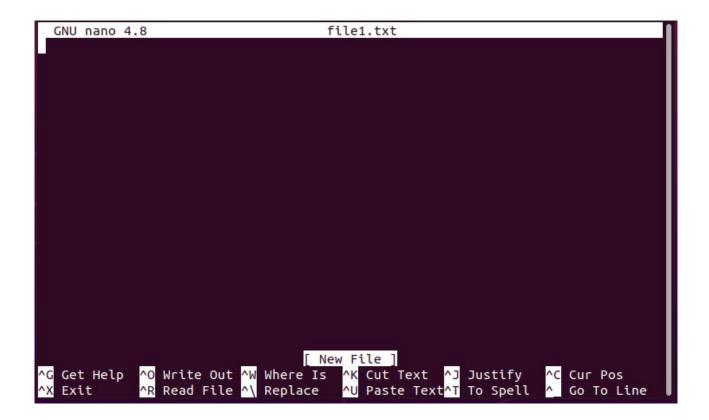
head: Display the beginning of a file

```
revanth@revanth-VirtualBox:~$ head /etc/passwd
root:x:0:0:root:/root:/bin/bash
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
revanth@revanth-VirtualBox:~$
```

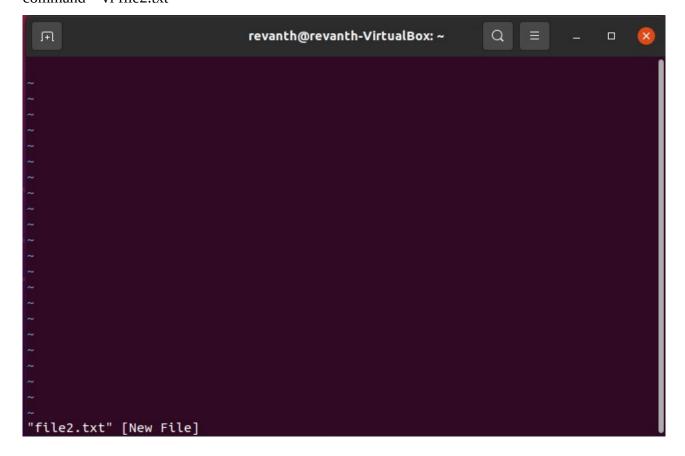
tail: Display the end of a file

```
revanth@revanth-VirtualBox:~$ tail /etc/passwd
whoopsie:x:120:125::/nonexistent:/bin/false
colord:x:121:126:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/no
login
geoclue:x:122:127::/var/lib/geoclue:/usr/sbin/nologin
pulse:x:123:128:PulseAudio daemon,,,:/var/run/pulse:/usr/sbin/nologin
gnome-initial-setup:x:124:65534::/run/gnome-initial-setup/:/bin/false
gdm:x:125:130:Gnome Display Manager:/var/lib/gdm3:/bin/false
sssd:x:126:131:SSSD system user,,,:/var/lib/sss:/usr/sbin/nologin
revanth:x:1000:1000:revanth,,,:/home/revanth:/bin/bash
systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin
vboxadd:x:998:1::/var/run/vboxadd:/bin/false
revanth@revanth-VirtualBox:~$
```

nano: Text editor for creating and editing files command – nano file1.txt



vi/vim: Powerful text editor for experienced users command – vi file2.txt



File Permissions:

chmod: Change file permissions

chown: Change file owner

```
revanth@revanth-VirtualBox:~$ sudo chown revanth passwd
[sudo] password for revanth:
revanth@revanth-VirtualBox:~$ ls -la
total 128
drwxr-xr-x 19 revanth revanth 4096 May 29 15:49 .
drwxr-xr-x 3 root
                       root
                                    4096 May 18 2022 ...
-rw----- 1 revanth revanth 1989 May 29 15:50 .bash history
-rw-r--r-- 1 revanth revanth 220 May 18 2022 .bash logout
-rw-r--r-- 1 revanth revanth 3771 May 18 2022 .bashrc
drwx----- 15 revanth revanth 4096 Jun 12 2022 .cache
drwx----- 14 revanth revanth 4096 Jun 12
                                                  2022 .config
drwxrwxr-x 2 revanth revanth 4096 May 29 15:33 cyber
drwxr-xr-x 2 revanth revanth 4096 May 18 2022 Desktop
drwxr-xr-x 2 revanth revanth 4096 May 18 2022 Documents
drwxr-xr-x 3 revanth revanth 4096 Jun 16 2022 Downloads
                                        1 May 29 15:49 file1.txt.save
-rw----- 1 revanth revanth
-rw----- 1 revanth revanth 12288 May 29 15:50 .file2.txt.swp
drwx----- 3 revanth revanth 4096 May 18 2022 .gnupg
drwxr-xr-x 3 revanth revanth 4096 May 18
                                                   2022 .local
drwx----- 4 revanth revanth 4096 May 18 2022 .mozi
drwxr-xr-x 2 revanth revanth 4096 May 18 2022 Music
                                                    2022 .mozilla
drwxrwxr-x 5 revanth revanth 4096 Jun 11 2022 os
-rwxr-xr-x 1 revanth revanth 2855 May 29 15:35 passwd
```

```
revanth@revanth-VirtualBox:~$ sudo chgrp revanth passwd
revanth@revanth-VirtualBox:~$ ls -la
total 128
drwxr-xr-x 19 revanth revanth 4096 May 29 15:49
drwxr-xr-x 3 root
                      root
                                4096 May 18 2022 ...
-rw----- 1 revanth revanth 1989 May 29 15:50 .bash_history
-rw-r--r-- 1 revanth revanth
                                 220 May 18 2022 .bash logout
-rw-r--r-- 1 revanth revanth 3771 May 18 2022 .bashrc
drwx----- 15 revanth revanth 4096 Jun 12 2022 .cache
drwx----- 14 revanth revanth 4096 Jun 12 2022 .config
drwxrwxr-x 2 revanth revanth 4096 May 29 15:33 cyber
drwxr-xr-x 2 revanth revanth 4096 May 18 2022 Desktop
drwxr-xr-x 2 revanth revanth 4096 May 18 2022 Documents
drwxr-xr-x 3 revanth revanth 4096 Jun 16 2022 Downloads
-rw----- 1 revanth revanth
                                  1 May 29 15:49 file1.txt.save
-rw----- 1 revanth revanth 12288 May 29 15:50 .file2.txt.swp
drwx----- 3 revanth revanth 4096 May 18
                                             2022 .gnupg
drwxr-xr-x 3 revanth revanth 4096 May 18 2022 .local drwx----- 4 revanth revanth 4096 May 18 2022 .mozilla
drwxr-xr-x 2 revanth revanth 4096 May 18 2022 Music
drwxrwxr-x 5 revanth revanth 4096 Jun 11 2022 os
-rwxr-xr-x 1 revanth revanth 2855 May 29 15:35 passwd
```

File Compression and Archiving:

tar: Archive files

```
revanth@revanth-VirtualBox:~$ tar -cvf archive1.tar file1.txt.save passwd
file1.txt.save
passwd
revanth@revanth-VirtualBox:~$ ls -la
total 140
drwxr-xr-x 19 revanth revanth 4096 May 29 15:58
drwxr-xr-x 3 root root
                                4096 May 18 2022 ...
-rw-rw-r-- 1 revanth revanth 10240 May 29 15:59
-rw----- 1 revanth revanth 1989 May 29 15:50 .bash history
-rw-r--r-- 1 revanth revanth 220 May 18 2022 .bash_logout
-rw-r--r-- 1 revanth revanth 3771 May 18 2022 .bashrc
drwx----- 15 revanth revanth 4096 Jun 12 2022 .cache
drwx----- 14 revanth revanth 4096 Jun 12 2022 .config
drwxrwxr-x 2 revanth revanth 4096 May 29 15:33 cyber
drwxr-xr-x 2 revanth revanth 4096 May 18 2022 Desktop
drwxr-xr-x 2 revanth revanth 4096 May 18 2022 Documents
drwxr-xr-x 3 revanth revanth 4096 Jun 16 2022 Downloads
-rw----- 1 revanth revanth 1 May 29 15:49 file1.txt
                                   1 May 29 15:49 file1.txt.save
-rw----- 1 revanth revanth 12288 May 29 15:50 .file2.txt.swp
drwx----- 3 revanth revanth 4096 May 18 2022 .gnupg
drwxr-xr-x 3 revanth revanth 4096 May 18 2022 .local
drwx----- 4 revanth revanth 4096 May 18 2022 .mozilla
drwxr-xr-x 2 revanth revanth 4096 May 18 2022 Music
drwxrwxr-x 5 revanth revanth 4096 Jun 11 2022 os
drwxrwxr-x 5 revanth revanth 4096 Jun 11 2022 os
-rwxr-xr-x 1 revanth revanth 2855 May 29 15:35 passwd
drwxr-xr-x 2 revanth revanth 4096 May 29 15:10 Pictures
-rw-r--r-- 1 revanth revanth 807 May 18 2022 .profile
```

gzip: Compress files

```
revanth@revanth-VirtualBox:~$ gzip passwd
revanth@revanth-VirtualBox:~S ls -la
total 140
drwxr-xr-x 19 revanth revanth 4096 May 29 16:01 .
drwxr-xr-x 3 root
                    root
                               4096 May 18 2022
-rw-rw-r-- 1 revanth revanth 10240 May 29 15:59
-rw------ 1 revanth revanth 1989 May 29 15:50 .bash_history
-rw-r--r-- 1 revanth revanth 220 May 18 2022 .bash_logout
-rw-r--r-- 1 revanth revanth 3771 May 18 2022 .bashrc
drwx----- 15 revanth revanth 4096 Jun 12 2022 .cache
drwx----- 14 revanth revanth 4096 Jun 12 2022 .config
drwxrwxr-x 2 revanth revanth 4096 May 29 15:33 cyber
drwxr-xr-x 2 revanth revanth 4096 May 18 2022 Desktop
drwxr-xr-x 2 revanth revanth 4096 May 18 2022 Documents
drwxr-xr-x 3 revanth revanth 4096 Jun 16 2022 Downloads
-rw----- 1 revanth revanth 1 May 29 15:49 file1.txt
                                  1 May 29 15:49 file1.txt.save
-rw----- 1 revanth revanth 12288 May 29 15:50 .file2.txt.swp
drwx----- 3 revanth revanth 4096 May 18 2022 .gnupg
drwxr-xr-x 3 revanth revanth 4096 May 18 2022 .local
drwx----- 4 revanth revanth 4096 May 18 2022 .mozilla
drwxr-xr-x 2 revanth revanth 4096 May 18 2022 Music
drwxrwxr-x 5 revanth revanth 4096 Jun 11
                                           2022 os
-rwxr-xr-x 1 revanth revanth 1050 May 29 15:35 passwd.gz
                               4006 May
```

unzip: Extract files from a ZIP archive

```
revanth@revanth-VirtualBox:~$ unzip archive1.zip
unzip: cannot find or open archive1.zip, archive1.zip.zip or archive1.zip.ZIP.
revanth@revanth-VirtualBox:~$
```

Process Management:

ps: List running processes

```
revanth@revanth-VirtualBox:~$ ps
PID TTY TIME CMD
2260 pts/0 00:00:00 bash
2346 pts/0 00:00:00 ps
revanth@revanth-VirtualBox:~$
```

top: Display real-time system information and processes

```
top - 16:07:32 up 47 min, 1 user,
                                 load average: 0.03, 0.14, 0.16
Tasks: 187 total, 1 running, 186 sleeping, 0 stopped,
                                                       0 zombie
%Cpu(s): 1.3 us, 0.3 sy, 0.0 ni, 98.3 id,
                                          0.0 wa, 0.0 hi, 0.0 si,
           1906.0 total,
MiB Mem :
                          103.4 free, 624.4 used, 1178.2 buff/cache
           2048.0 total,
                          2048.0 free,
                                           0.0 used.
                                                      1094.6 avail Mem
MiB Swap:
   PID USER
                PR NI
                          VIRT
                                 RES
                                        SHR S %CPU %MEM
                                                             TIME+ COMMAND
                                                           0:00.08 top
                20
                         11856
                                3756
                                       3260 R
                                                1.0
                                                     0.2
  2347 revanth
                     0
  1364 revanth
                20
                     0
                        258372
                               73668
                                      46416 S
                                               0.7
                                                     3.8
                                                           1:02.68 Xorg
  1508 revanth 20 0 155368
                                2628
                                       2260 S
                                               0.7
                                                    0.1
                                                           0:12.25 VBoxCl+
  1578 revanth 20 0 3659440 305400 125592 S
                                               0.7 15.6
                                                           1:32.32 gnome-+
               20 0 102036 11432
                                      8328 S
     1 root
                                               0.0
                                                    0.6
                                                           0:02.91 systemd
                20 0
                                                           0:00.00 kthrea+
     2 root
                            0
                                  0
                                        0 S
                                               0.0
                                                     0.0
     3 root
                0 -20
                            0
                                   0
                                         0 I
                                               0.0
                                                     0.0
                                                          0:00.00 rcu_gp
                0 -20
                                         0 I
                            0
                                   0
                                               0.0
                                                          0:00.00 rcu_pa+
     4 root
                                                     0.0
                                         0 I
                                               0.0
     6 root
                 0 -20
                            0
                                   0
                                                     0.0
                                                          0:00.00 kworke+
     7 root
                20
                    0
                           0
                                   0
                                         0 I
                                               0.0
                                                    0.0 0:00.91 kworke+
                0 -20
                           0
                                   0
                                        0 I
                                               0.0 0.0 0:00.00 mm per+
     9 root
                                   0
                20
                    0
                           0
                                        0 S
                                               0.0 0.0 0:00.00 rcu ta+
    10 root
                                   0
    11 root
                20
                   0
                           0
                                        0 S
                                               0.0
                                                    0.0 0:00.00 rcu ta+
                                   0
    12 root
                20
                   0
                           0
                                         0 S
                                               0.0
                                                     0.0 0:00.48 ksofti+
                20
                     0
                            0
                                   0
                                          0 I
                                               0.0
                                                     0.0
                                                           0:01.92 rcu sc+
    13 root
                                          0 S
                                                0.0
                                                     0.0
                                                           0:00.03 migrat+
    14 root
                гt
                     0
                             0
                                   0
    15 root
                -51
                     0
                             0
                                   0
                                          0 S
                                               0.0
                                                     0.0
                                                          0:00.00 idle i+
```

kill: Terminate processes

```
revanth@revanth-VirtualBox:~$ ps
PID TTY TIME CMD
2364 pts/0 00:00:00 bash
2382 pts/0 00:00:00 ps
revanth@revanth-VirtualBox:~$ kill 2364
revanth@revanth-VirtualBox:~$
```

bg: Run processes in the background

```
revanth@revanth-VirtualBox:~$ sleep 12
revanth@revanth-VirtualBox:~$ bg
bash: bg: current: no such job
```

fg: Bring background processes to the foreground

```
revanth@revanth-VirtualBox:~$ sleep 23 &
[1] 2386
revanth@revanth-VirtualBox:~$ fg
sleep 23
revanth@revanth-VirtualBox:~$
```

System Information:

uname: Print system information

```
revanth@revanth-VirtualBox:~$ uname
Linux
[1]+ Done sleep 12
revanth@revanth-VirtualBox:~$
```

df: Display disk space usage

```
revanth@revanth-VirtualBox:~$ df
Filesystem
              1K-blocks
                            Used Available Use% Mounted on
udev
                 942396
                              0
                                     942396
                                             0% /dev
                 195176
                                     193856
                                             1% /run
tmpfs
                            1320
/dev/sda5
              102168536 11186428
                                 85749212
                                           12% /
                                             0% /dev/shm
tmpfs
                 975868
                               0
                                     975868
tmpfs
                   5120
                               4
                                       5116
                                             1% /run/lock
                 975868
                              0
                                    975868 0% /sys/fs/cgroup
tmpfs
```

free: Display memory usage

```
revanth@revanth-VirtualBox:~$ free
                                                    shared buff/cache
                                                                          available
              total
                            used
                                         free
Mem:
            1951740
                          641288
                                       104500
                                                      7016
                                                               1205952
                                                                            1120784
            2097148
                                      2097148
Swap:
                               0
```

uptime: Show system uptime

```
revanth@revanth-VirtualBox:~$ uptime
16:16:12 up 55 min, 1 user, load average: 0.05, 0.08, 0.12
revanth@revanth-VirtualBox:~$
```

who: Display logged-in users

```
revanth@revanth-VirtualBox:~$ who
revanth :0 2023-05-29 15:22 (:0)
revanth@revanth-VirtualBox:~$
```

w: Display logged-in users and their activities

```
revanth@revanth-VirtualBox:~S w
16:17:03 up 56 min, 1 user, load average: 0.20, 0.12, 0.13
USER
        TTY
                 FROM
                                  LOGIN@
                                          IDLE
                                                  JCPU
                                                        PCPU WHAT
revanth :0
                                  15:22
                                                         0.04s /usr/lib/gdm3/g
                  :0
                                          ?xdm?
                                                  3:00
revanth@revanth-VirtualBox:~$
```

Networking:

ifconfig: Configure network interfaces

```
revanth@revanth-VirtualBox:~$ 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 0x10<host>
        loop txqueuelen 1000 (Local Loopback)
        RX packets 149 bytes 12547 (12.5 KB)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 149 bytes 12547 (12.5 KB)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

revanth@revanth-VirtualBox:~$
```

ping: Send ICMP echo requests to a network host

```
revanth@revanth-VirtualBox:~$ ping google.com
PING google.com (142.250.193.142) 56(84) bytes of data.
64 bytes from maa05s25-in-f14.1e100.net (142.250.193.142): icmp_seq=1 ttl=113 ti
me=170 ms
64 bytes from maa05s25-in-f14.1e100.net (142.250.193.142): icmp_seq=2 ttl=113 ti
me=80.2 ms
64 bytes from maa05s25-in-f14.1e100.net (142.250.193.142): icmp_seq=3 ttl=113 ti
me=78.2 ms
64 bytes from maa05s25-in-f14.1e100.net (142.250.193.142): icmp_seq=4 ttl=113 ti
me=95.3 ms
64 bytes from maa05s25-in-f14.1e100.net (142.250.193.142): icmp_seq=5 ttl=113 ti
me=83.9 ms
64 bytes from maa05s25-in-f14.1e100.net (142.250.193.142): icmp seq=6 ttl=113 ti
me=81.4 ms
64 bytes from maa05s25-in-f14.1e100.net (142.250.193.142): icmp_seq=7 ttl=113 ti
me=82.1 ms
64 bytes from maa05s25-in-f14.1e100.net (142.250.193.142): icmp_seq=8 ttl=113 ti
me=87.9 ms
```

ssh: Securely connect to a remote system

```
revanth@revanth-VirtualBox:~$ ssh marcus"10.10.11.211
>
```

scp: Securely copy files between systems

```
revanth@revanth-VirtualBox:~$ scp -r /var/www/html hacker"12.14.15.16:/test/inde
x/
>
```

wget: Download files from the web

```
vanth@revanth-VirtualBox:~$ wget https://github.com/cassidoo/todometer/archive/refs/heads/main
.zip
--2023-05-29 16:31:59-- https://github.com/cassidoo/todometer/archive/refs/heads/main.zip
Resolving github.com (github.com)... 20.207.73.82, 64:ff9b::14cf:4952
Connecting to github.com (github.com)|20.207.73.82|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://codeload.github.com/cassidoo/todometer/zip/refs/heads/main [following]
--2023-05-29 16:32:00-- https://codeload.github.com/cassidoo/todometer/zip/refs/heads/main
Resolving codeload.github.com (codeload.github.com)... 20.207.73.88, 64:ff9b::14cf:4958
Connecting to codeload.github.com (codeload.github.com)|20.207.73.88|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [application/zip]
Saving to: 'main.zip'
main.zip
                                                       1.75M 1.05MB/s
                                                                            in 1.7s
2023-05-29 16:32:03 (1.05 MB/s) - 'main.zip' saved [1832115]
 evanth@revanth-VirtualBox:~$ ls
                                             passwd.gz Templates
               file1.txt.save os
```

System Administration:

sudo: Execute commands with superuser privileges

```
revanth@revanth-VirtualBox:~$ sudo wireshark
[sudo] password for revanth:
sudo: wireshark: command not found
```

apt-get: Package management for Debian-based distributions

```
revanth@revanth-VirtualBox:~$ sudo apt-get update

Get:1 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]

Hit:2 http://in.archive.ubuntu.com/ubuntu focal InRelease

Get:3 http://in.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]

Get:4 http://security.ubuntu.com/ubuntu focal-security/main amd64 Packages [2,192 kB]

Get:5 http://in.archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]

Get:6 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [2,574 kB]

Get:7 http://in.archive.ubuntu.com/ubuntu focal-updates/main i386 Packages [826 kB]

Get:8 http://security.ubuntu.com/ubuntu focal-security/main i386 Packages [597 kB]

Get:9 http://in.archive.ubuntu.com/ubuntu focal-updates/main Translation-en [435 kB]

Get:10 http://security.ubuntu.com/ubuntu focal-security/main amd64 DEP-11 Metadata [275 kB]

Get:11 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 DEP-11 Metadata [59.8 kB]

Get:12 http://in.archive.ubuntu.com/ubuntu focal-updates/main DEP-11 48x48 Icons [60.8 kB]

Get:14 http://security.ubuntu.com/ubuntu focal-security/main DEP-11 48x48 Icons [18.9 kB]

Get:15 http://in.archive.ubuntu.com/ubuntu focal-security/main DEP-11 64x64 Icons [18.9 kB]

Get:16 http://in.archive.ubuntu.com/ubuntu focal-updates/main DEP-11 64x64 Icons [18.9 kB]

Get:16 http://in.archive.ubuntu.com/ubuntu focal-updates/main DEP-11 64x64 Icons [18.0 kB]

Get:17 http://security.ubuntu.com/ubuntu focal-updates/main DEP-11 64x64 Icons [18.0 kB]
```

yum: Package management for Red Hat-based distributions

(yum is not used, so this is skipped)

systemctl: Manage system services

```
revanth@revanth-VirtualBox:~$ systemctl status nessusd
Unit nessusd.service could not be found.
revanth@revanth-VirtualBox:~$
```

crontab: Schedule recurring tasks

```
GNU nano 4.8

/tmp/crontab.s0cJ42/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

memail 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:

# A 5 * * 1 tar - 200 (var/backups/bome taz /bome/
```

useradd: Add a new user

```
revanth@revanth-VirtualBox:~$ sudo useradd hacker
[sudo] password for revanth:
```

passwd: Change user password

```
revanth@revanth-VirtualBox:~$ sudo passwd hacker

New password:

Retype new password:

passwd: password updated successfully

revanth@revanth-VirtualBox:~$
```