ASSIGNMENT - 1

TEAM MEMBERS:

MEMBER 1: VENNAPUSA SARATHENDRA VENKATA SAI RAM REDDY (20FE1A03B1).

MEMBER 2: YARRAMSETTY VENKATA RAVI KIRAN (20FE1A03B3).

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PROJRCT REG NO: SBAP0007919.

TITLE: LINUX COMMAND LIST ASSESSMENT

File and Directory Operations:

- ls: List files and directories
 cd: Change directory
 pwd: Print working directory
 mkdir: Make directory
 touch: Create an empty file
- 6. cp: Copy files and directories
- 7. mv: Move or rename files and directories
- 8. rm: Remove files and directories
- 9. find: Search for files and directories

```
chiranjibi@kali: ~
File Actions Edit View Help
[-(chiranjibi⊕kali)-[~]
| pwd
/home/chiranjibi
___(chiranjibi⊕kali)-[~]

_$ mkdir
mkdir: missing operand
Try 'mkdir -- help' for more information.
192.68.240.255 Desktop dir3 Documents mysql-apt-config_0.8.15-1_all.deb cybersec1.txt dir1 dir4 Downloads cyber.txt dir2 dir5 Music newcybersec2 newcybersec.txt Public
                                                                                                               py
Templates
mkdir example1
(chiranjibi@kali)-[~]
$ rmdir example1
touch hello1.txt
(chiranjibi@kali)-[~]
s mv hello1.txt hi.txt
   -(chiranjibi@kali)-[~]
mkdir example1
chiranjibi@kali)-[~]
cp hello1.txt hi.txt
cp: cannot stat 'hello1.txt': No such file or directory
(chiranjibi@kali)-[~]
s cp hello1.txt hii.txt
cp: cannot stat 'hello1.txt': No such file or directory
(chiranjibi@kali)-[~]
$ cp hi.txt hii.txt
s rm hii.txt
  -(chiranjibi⊕kali)-[~]
(chiranjibi@kali)-[~]
find example1
example1
```

File Viewing and Editing:

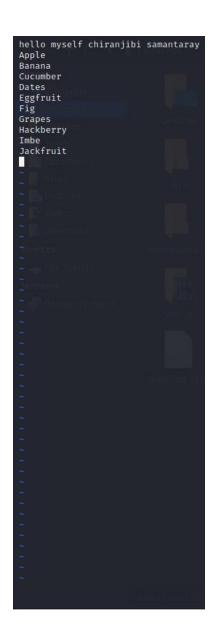
cat: Concatenate and display file content less: View file content with pagination head: Display the beginning of

a file tail: Display the end of a

file nano: Text editor for creating and editing files vi/vim: Powerful text editor for experienced users

```
(chiranjibi kali)-[~]
s cat hello2.txt
hello myself chiranjibi samantaray
Apple
Banana
Cucumber
Dates
Eggfruit
Fig
Grapes
Hackberry
Imbe
Jackfruit
(chiranjibi@kali)-[~]
head hello2.txt
hello myself chiranjibi samantaray
Apple
Banana
Cucumber
Dates
Eggfruit
Fig
Grapes
Hackberry
Imbe
chiranjibi⊗kali)-[~]
tail hello2.txt
Banana
Cucumber
Dates
Eggfruit
Fig
Grapes
Hackberry
Imbe
Jackfruit
__(chiranjibi⊛kali)-[~]
```

```
hello myself chiranjibi samantaray
Apple
Banana
Cucumber
Dates
Eggfruit
Fig
Grapes
Hackberry
Imbe
Jackfruit
```





File Permissions: chmod: Change file

permissions chown:

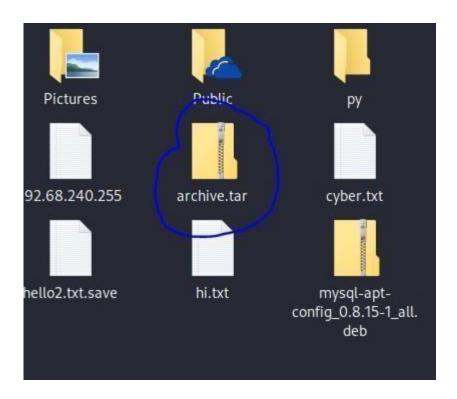
Change file owner chgrp:
Change file group COMMANDS

.

File Compression and Archiving:

tar: Archive files gzip: Compress files unzip:

Extract files from a ZIP archive



Process Management:

ps: List running processes top: Display real-time system information and processes kill: Terminate processes bg: Run processes in the background fg: Bring background processes to the foreground

```
top - 05:59:52 up 1:12, 1 user, load average: 0.70, 1.43, 1.10
Tasks: 158 total, 1 running, 157 sleeping, 0 stopped, 0 zombie %Cpu(s): 2.8 us, 1.4 sy, 0.0 ni, 95.9 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
             4797.8 total,
                              2592.2 free,
                                             1276.2 used,
                                                               929.3 buff/cache
              975.0 total,
                               975.0 free,
MiB Swap:
                                                 0.0 used.
                                                              3261.2 avail Mem
                                              SHR S %CPU %MEM
                                                                      TIME+ COMMAND
    PID USER
                   PR NI
                              VIRT
                                       RES
    965 chiranj+
                   20
                        0
                            201516
                                    30736
                                            19212 S
                                                       1.0
                                                             0.6
                                                                    0:57.21 panel-13-cpugra
    534 root
                   20
                          462500 143376
                                            74664 S
                                                       0.7
                                                             2.9
                                                                    2:22.02 Xorg
                                            24228 S
                                                                    0:25.76 pulseaudio
    794 chiranj+
                      -11 1176132
                                    36060
                                                       0.7
                                                             0.7
  11092 chiranj+
                   20
                         0
                           435732
                                   106348
                                            85760
                                                       0.7
                                                             2.2
                                                                    0:04.33 qterminal
                            153052
                                     2712
                                            2232 S
                                                                    0:08.57 VBoxClient
    873 chiranj+
                                                             0.1
                   20
                         0
                                                       0.3
    923 chiranj+
                   20
                         0
                            637120 102396
                                            76044 S
                                                       0.3
                                                             2.1
                                                                    0:28.31 xfwm4
    967 chiranj+
                   20
                         0
                            358696
                                    30484
                                            20676 S
                                                       0.3
                                                             0.6
                                                                    0:14.30 panel-15-genmon
                                                                   0:00.06 top
  20347 chiranj+
                   20
                        0
                            10364
                                     3720
                                             3076 R
                                                       0.3
                                                             0.1
                                             8972 S
                                                                    0:01.01 systemd
      1 root
                   20
                            102104
                                     12164
                                                       0.0
                                                             0.2
      2 root
                   20
                        0
                                                0 5
                                                       0.0
                                                             0.0
                                 0
                                         0
                                                                    0:00.00 kthreadd
      3 root
                    0
                      -20
                                 0
                                         0
                                                       0.0
                                                             0.0
                                                                    0:00.00 rcu_gp
                                                                    0:00.00 rcu_par_gp
                      -20
                                                0 I
                    0
                                                       0.0
                                                             0.0
      4 root
                                 0
                                         0
      5 root
                    0 -20
                                 0
                                         0
                                                0 I
                                                       0.0
                                                             0.0
                                                                    0:00.00 netns
                    0
                      -20
                                 0
                                         0
                                                0
                                                       0.0
                                                             0.0
                                                                    0:00.00 kworker/0:0H-events_highpri
      7 root
                                                                   0:00.41 kworker/0:1H-events_highpri
      9 root
                      -20
                    0
                                 0
                                         0
                                                O T
                                                       0.0
                                                             0.0
     10 root
                                 0
                                                0 I
                    0
                      -20
                                         0
                                                       0.0
                                                             0.0
                                                                    0:00.00 mm_percpu_wq
                                 0
                   20
                                         0
                                                Ø T
                                                                    0:00.00 rcu_tasks_kthread
     11 root
                        0
                                                       0.0
                                                             0.0
     12 root
                   20
                         0
                                 0
                                         0
                                                0
                                                       0.0
                                                             0.0
                                                                    0:00.00 rcu_tasks_rude_kthread
                                                                    0:00.00 rcu_tasks_trace_kthread
                   20
                                         0
                                                0 I
     13 root
                        0
                                 0
                                                       0.0
                                                             0.0
                                 0
     14 root
                   20
                         0
                                         0
                                                0 5
                                                       0.0
                                                             0.0
                                                                    0:00.32 ksoftirqd/0
                                                0 I
     15 root
                   20
                         0
                                 0
                                         0
                                                       0.0
                                                             0.0
                                                                    0:01.68 rcu preempt
                                                                    0:00.04 migration/0
                                                0 S
     16 root
                         0
                                 0
                                         0
                                                       0.0
                                                             0.0
     18 root
                   20
                         0
                                 0
                                         0
                                                0 5
                                                       0.0
                                                             0.0
                                                                    0:00.00 cpuhp/0
                        0
                   20
                                 0
                                         0
                                                0 5
                                                                    0:00.00 kdevtmpfs
     20 root
                                                       0.0
                                                             0.0
                                                                    0:00.00 inet_frag_wq
     21 root
                      -20
                                 0
                                         0
                                                       0.0
                                                             0.0
                                         0
                                                0 5
                                                                    0:00.00 kauditd
     22 root
                   20
                        0
                                 0
                                                       0.0
                                                             0.0
                                 0
                                         0
                                                0 5
     23 root
                   20
                        0
                                                       0.0
                                                             0.0
                                                                    0:00.00 khungtaskd
     24 root
                   20
                        0
                                 0
                                         0
                                                0 5
                                                       0.0
                                                             0.0
                                                                    0:00.00 oom_reaper
                                                                    0:00.00 writeback
                    0
                      -20
                                                OT
     25 root
                                 0
                                         0
                                                       0.0
                                                             0.0
     26 root
                   20
                                 0
                                         0
                                                0 5
                                                       0.0
                                                             0.0
                                                                    0:00.28 kcompactd0
                                 0
                                         0
                                                0 5
                                                                    0:00.00 ksmd
     27 root
                                                             0.0
                                                       0.0
     28 root
                       19
                                 0
                                         0
                                                0
                                                       0.0
                                                             0.0
                                                                    0:00.32 khugepaged
     29 root
                    0
                      -20
                                 0
                                         0
                                                0 I
                                                                    0:00.00 kintegrityd
                                                       0.0
                                                             0.0
                    0 -20
                                 0
                                         0
                                                                    0:00.00 kblockd
     30 root
                                                OT
                                                       0.0
                                                             0.0
     31 root
                    0
                      -20
                                 0
                                         0
                                                0
                                                       0.0
                                                             0.0
                                                                    0:00.00 blkcg_punt_bio
                    0 -20
                                                                    0:00.00 tpm_dev_wq
                                 0
                                         0
                                                OT
     32 root
                                                       0.0
                                                             0.0
     33 root
                    0 -20
                                 0
                                         0
                                                0 I
                                                                    0:00.00 edac-poller
                                                       0.0
                                                             0.0
                                 0
                                         0
                                                0 I
                                                             0.0
                                                                    0:00.00 devfreq_wq
     34 root
                    0 -20
                                                       0.0
                                                                    0:00.00 kswapd0
     36 root
                                         0
                                                0
                                                       0.0
                                                             0.0
                    0 -20
                                                                    0:00.00 kthrotld
     43 root
                                 0
                                         0
                                                0 I
                                                       0.0
                                                             0.0
                                 0
                                         0
                                                                    0:00.00 acpi_thermal_pm
     45 root
                    0 -20
                                                0 I
                                                       0.0
                                                             0.0
                                                0 I
                                                                    0:00.00 mld
     46 root
                    0 -20
                                 0
                                         0
                                                       0.0
                                                             0.0
                                                                    0:00.00 ipv6_addrconf
                    0 -20
     47 root
                                         0
                                                0 I
                                                       0.0
                                                             0.0
                                 0
             -(chiranjibi®kali)-[~]
```

```
(chiranjibi⊕ kali)-[~]

$ ps
PID TTY TIME CMD
20539 pts/3 00:00:00 zsh
20556 pts/3 00:00:00 ps

(chiranjibi⊕ kali)-[~]

$ ■
```

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

$ kill -l

HUP INT QUIT ILL TRAP IOT BUS FPE KILL USR1 SEGV USR2 PI
PE ALRM TERM STKFLT CHLD CONT STOP TSTP TTIN TTOU URG XC
PU XFSZ VTALRM PROF WINCH POLL PWR SYS

(chiranjibi@kali)-[~]

$ [
```

System Information:

uname: Print system information df: Display

disk space usage free: Display memory usage

uptime: Show system uptime who: Display

logged-in users w: Display logged-in users

and their activities

```
-(chiranjibi@kali)-[~]
_s uname
Linux
__(chiranjibi⊗kali)-[~]

$ df
           1K-blocks Used Available Use% Mounted
Filesystem
on
udev
             2420420
                         0 2420420 0% /dev
                             490348 1% /run
              491292
                       944
tmpfs
/dev/sda1 128256204 13020980 108673996 11% /
                       0 2456448 0% /dev/sh
tmpfs
            2456448
m
              5120 0 5120 0% /run/lo
tmpfs
ck
             491288 96 491192 1% /run/us
tmpfs
er/1000
s free
 —(chiranjibi®kali)-[~]
           total used free shared
buff/cache available
Mem: 4912900 1274920
                             2693820
                                        29124
    944160 3380456
          998396
                      0
Swap:
                              998396
(chiranjibi® kali)-[~]
$\text{uptime}$
06:06:03 up 1:18, 1 user, load average: 0.18, 0.53,
0.78
(chiranjibi⊗kali)-[~]
$ who
chiranjibi tty7 2023-05-28 04:47 (:0)
 —(chiranjibi®kali)-[~]
06:06:14 up 1:18, 1 user, load average: 0.15, 0.51,
USER TTY
              FROM
                            LOGINO IDLE JCPU
 PCPU WHAT
chiranji tty7 :0 04:47 1:18m 2:28
0.89s xfce4-s
 —(chiranjibi⊕kali)-[~]
```

Networking: ifconfig: Configure network interfaces ping: Send ICMP echo requests to a network host ssh: Securely connect to a remote system scp: Securely copy files

between systems wget: Download files from the web **COMMANDS**:

-(chiranjibi⊕kali)-[~]

-\$ ssh chiranjibi@172.18.112.10

-(chiranjibi⊕kali)-[~] usage: ssh [-46AaCfGgKkMNnqsTtVvXxYy] [-B bind_interface [-b bind_address] [-c cipher_spec] [-D [bind_ address:]port] [-E log_file] [-e escape_char] [-F configfile] [-I pkcs11] [-i identity_file] [-J [user@]host[:port]] [-L address] [-l login_name] [-m mac_spec] [-0 ctl_cmd] [o option] [-p port] [-Q query_option] [-R address] [-S ctl_path] [-w local_tun[:remote_tun]] destination [comm and [argument ...]] —(chiranjibi⊕kali)-[~] -\$ ssh 172.18.114.59 ssh: connect to host 172.18.114.59 port 22: Connection r efused —(chiranjibi⊕kali)-[~] -\$ ssh chiranjibi@172.18.114.59 ssh: connect to host 172.18.114.59 port 22: Connection r efused

```
ether 08:00:27:ed:2e:92 txqueuelen 1000 (Ether
net)
       RX packets 89363 bytes 99063895 (94.4 MiB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 36540 bytes 6392359 (6.0 MiB)
       TX errors 0 dropped 0 overruns 0 carrier 0 co
llisions 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 86 bytes 7436 (7.2 KiB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 86 bytes 7436 (7.2 KiB)
       TX errors 0 dropped 0 overruns 0 carrier 0 co
llisions 0
  —(chiranjibi⊛kali)-[~]
$ ping 173.18.114.59
PING 173.18.114.59 (173.18.114.59) 56(84) bytes of data.
```

System Administration:

sudo: Execute commands with superuser privileges apt-get:

Package management for Debian-based distributions yum:

Package management for Red Hat-based distributions

systemctl: Manage system services crontab: Schedule

recurring tasks useradd: Add a new user passwd: Change user

password

(chiranjibi kali)-[~]
 passwd
Changing password for chiranjibi.
Current password:
New password: