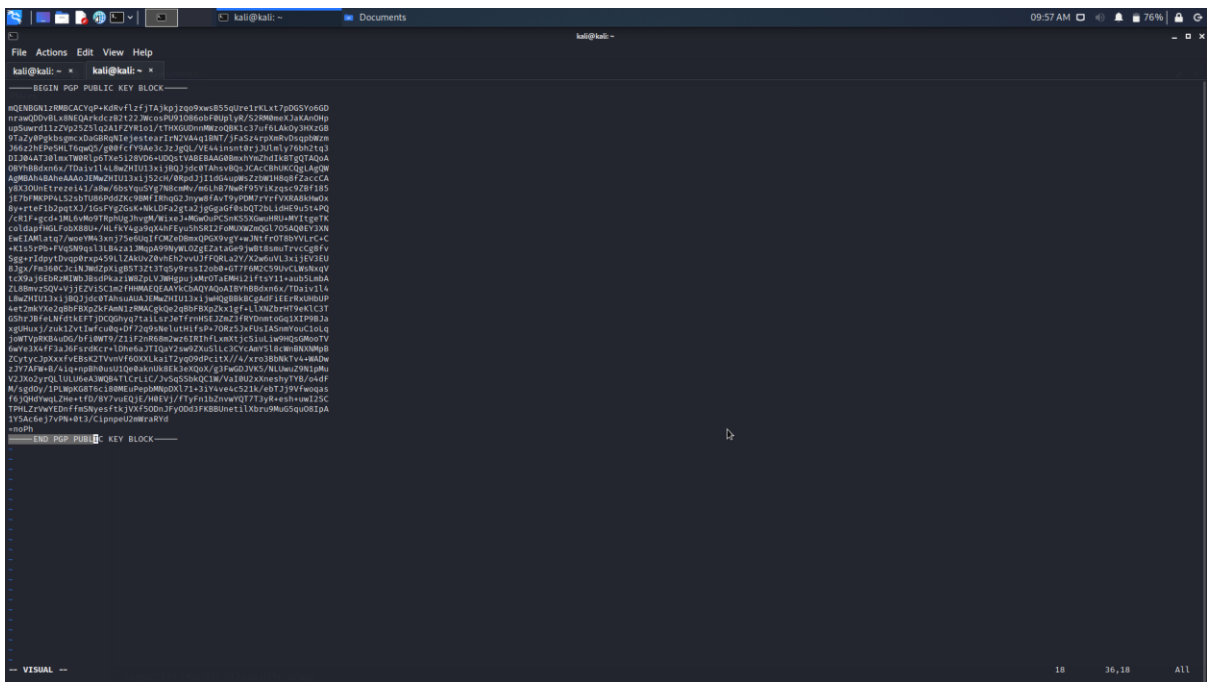
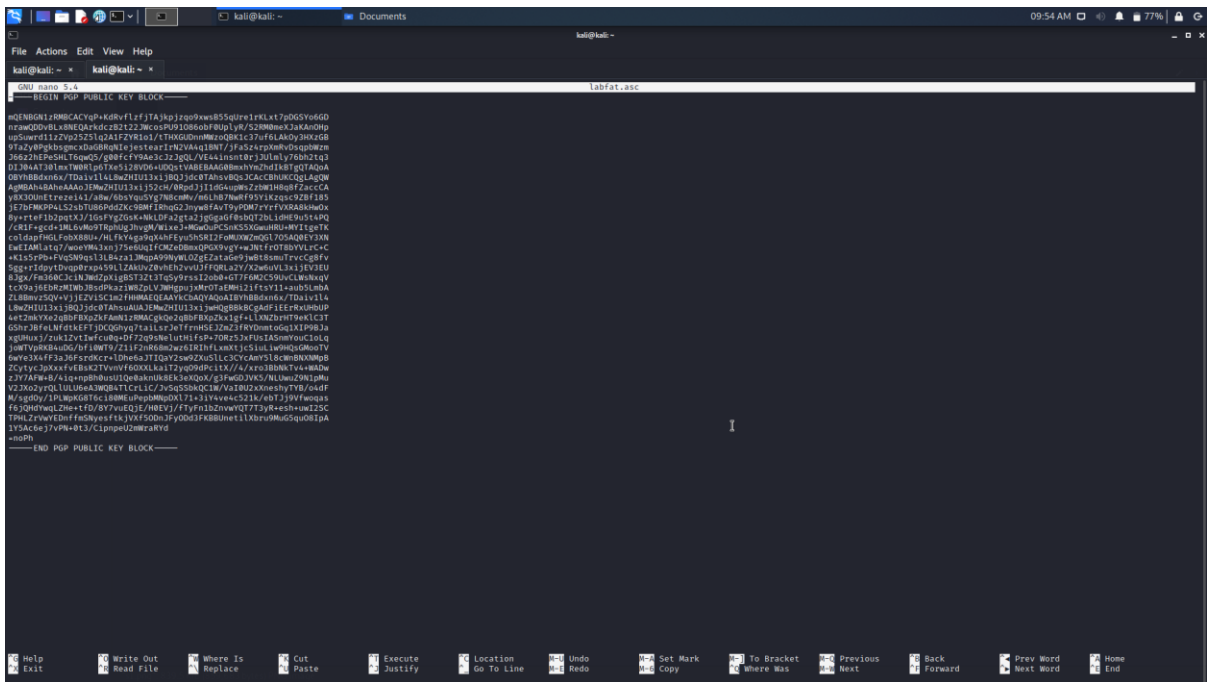


Title: Linux Command List Assessment

Name : Gaurav Gaur

Reg NO: 20BCE0774

```
kali@kali: ~  
File Actions Edit View Help  
[kali@kali]~  
ls  
Desktop Documents Downloads first labfat.asc Music Pictures Public Templates Videos xyz  
[kali@kali]~  
cd Music  
[kali@kali]~/Music  
cd  
[kali@kali]~  
pwd  
/home/kali  
[kali@kali]~  
cd Music  
[kali@kali]~/Music  
pwd  
/home/kali/Music  
[kali@kali]~/Music  
mkdir -p abc  
mkdir: cannot create directory 'abc': File exists  
[kali@kali]~/Music  
mkdir -p qwe  
mkdir: created directory 'qwe'  
[kali@kali]~/Music  
ls  
first qwe  
[kali@kali]~/Music  
cd  
[kali@kali]~  
ls  
Desktop Documents Downloads first labfat.asc Music Pictures Public Templates Videos xyz  
[kali@kali]~  
touch asd  
[kali@kali]~  
ls  
asd Desktop Documents Downloads first labfat.asc Music Pictures Public Templates Videos xyz  
[kali@kali]~  
cp xyz Music  
[kali@kali]~  
cd Music  
[kali@kali]~/Music  
ls  
first qwe xyz  
[kali@kali]~/Music  
cd
```



```
kali@kali: ~
File Actions Edit View Help
~(kali@kali)-[~]
└─$ chmod labfat.asc
chmod: missing operand after 'labfat.asc'.
Try 'chmod --help' for more information.

~(kali@kali)-[~]
└─$ chmod 674 labfat.asc

~(kali@kali)-[~]
└─$ ls labfat.asc
labfat.asc

~(kali@kali)-[~]
└─$ ls -l
total 44
drwxr-xr-x 2 kali kali 4096 May 26 09:36 sbr
drwxr-xr-x 2 kali kali 4096 May 31 2021 Desktop
drwxr-xr-x 2 kali kali 4096 May 28 09:57 Documents
drwxr-xr-x 2 kali kali 4096 May 31 2021 Downloads
drwxr-xr-x 2 kali kali 4096 May 28 09:35 first
-rw-rw-r-- 1 kali kali 2127 Nov 17 2022 labfat.asc
drwxr-xr-x 2 kali kali 4096 May 26 09:55 Music
drwxr-xr-x 2 kali kali 4096 Nov 17 2022 Pictures
drwxr-xr-x 2 kali kali 4096 May 26 09:46 Public
drwxr-xr-x 2 kali kali 4096 May 31 2021 Templates
drwxr-xr-x 2 kali kali 4096 May 31 2021 Videos

~(kali@kali)-[~]
└─$ ls -l labfat.asc
-rw-rw-r-- 1 kali kali 2127 Nov 17 2022 labfat.asc

~(kali@kali)-[~]
└─$ chown 4 labfat.asc
chown: changing ownership of 'labfat.asc': Operation not permitted

~(kali@kali)-[~]
└─$ chgrp 4 labfat.asc
chgrp: changing group of 'labfat.asc': Operation not permitted

~(kali@kali)-[~]
└─$
```

```
kali@kali: ~
File Actions Edit View Help
~(kali@kali)-[~]
└─$ tar labfat.asc
tar: Old option 'b' requires an argument.
Try 'tar --help' or 'tar --usage' for more information.

~(kali@kali)-[~]
└─$ gzip labfat.asc

~(kali@kali)-[~]
└─$ unzip labfat.asc
unzip: cannot find or open labfat.asc, labfat.asc.zip or labfat.asc.ZIP.

~(kali@kali)-[~]
└─$ ps
  PID TTY          TIME CMD
 1578 pts/2    00:00:02 zsh
 1655 pts/2    00:00:00 ps

~(kali@kali)-[~]
└─$ top

top - 10:02:01 up 30 min,  1 user,  load average: 0.06, 0.07, 0.02
```

```
kali@kali: ~  
File Actions Edit View Help  
top - 10:02:16 up 30 min, 1 user, load average: 0.20, 0.10, 0.03  
Tasks: 149 total, 2 running, 147 sleeping, 0 stopped, 0 zombie  
KiB Mem: 12.3 total, 2.1 free, 85.6 id, 0.0 wa, 0.0 sl, 0.0 st  
MiB Mem: 1982.6 total, 1009.4 free, 509.7 used, 463.7 buff/cache  
MiB Swap: 975.0 total, 975.0 free, 0.0 used, 1308.4 avail Mem  
  
PID USER PR NI VIRT RES SHR S CPU MEM TIME COMMAND  
928 kali 20 0 218400 45128 21680 R 15.3 2.2 0:05.00 panel1-1-whisker  
548 root 20 0 1016788 145720 58392 S 8.6 7.2 0:25.01 xorg  
1119 kali 20 0 986188 85836 68316 S 7.7 4.2 0:18.04 qterminal  
839 kali 20 0 973202 77380 59004 S 1.3 3.0 0:05.17 iftop  
835 kali 20 0 133040 2668 2195 S 0.7 0.1 0:05.09 VBoxClient  
914 kali 20 0 317500 44932 32728 S 0.7 2.0 0:02.03 xfce-panel  
902 kali 20 0 246400 29332 31228 S 0.3 1.9 0:00.04 xfce-settingsd  
997 kali 20 0 1102500 96636 77860 S 0.3 4.8 0:01.03 kpgp  
1 root 20 0 164800 16444 7900 S 0.0 0.3 0:02.52 systemd  
2 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kthreadd  
3 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu_gp  
4 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu_pas_gp  
6 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/0:0H-events_highpri  
9 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 mm_percpu_wq  
10 root 20 0 0 0 0 S 0.0 0.0 0:00.00 rcu_tasks_rude_  
11 root 20 0 0 0 0 S 0.0 0.0 0:00.00 rcu_tasks_trace  
12 root 20 0 0 0 0 S 0.0 0.0 0:00.00 ksoftirqd/0  
13 root 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu_sched  
14 root rt 0 0 0 S 0.0 0.0 0:00.00 migration/0  
15 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/0  
16 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/1  
17 root rt 0 0 0 S 0.0 0.0 0:00.24 migration/1  
18 root 20 0 0 0 0 S 0.0 0.0 0:00.00 ksoftirqd/1  
20 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/1:0H-events_highpri  
23 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kdevtmpfs  
24 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 netns  
25 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kauditd  
26 root 20 0 0 0 0 S 0.0 0.0 0:00.00 khungtaskd  
27 root 20 0 0 0 0 S 0.0 0.0 0:00.00 oom_reaper  
28 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 writeback  
29 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kcompactd0  
30 root 25 5 0 0 0 S 0.0 0.0 0:00.00 ksmd  
31 root 35 15 0 0 0 S 0.0 0.0 0:00.00 khusgapped  
49 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kintegrityd  
50 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 khlockd  
51 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 blkcg_punt_bio  
52 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 edac-poller  
53 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 devfreq_wm  
54 root 20 0 0 0 0 I 0.0 0.0 0:00.00 kworker/1:1-events  
55 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/0:1H-khlockd  
57 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kswapd0  
58 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kthrotld  
59 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 acpi_thermal_gm  
60 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 zswap_defragment  
70 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kstrp  
73 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 zswap-shrink  
74 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/0:0  
101 root 0 -20 0 0 0 I 0.0 0.0 0:00.13 kworker/1:1H-khlockd  
119 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 ata_sff  
120 root 20 0 0 0 0 S 0.0 0.0 0:00.01 scsi_eh_0  
121 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 scsi_tmf_0  
122 root 20 0 0 0 0 S 0.0 0.0 0:00.01 scsi_eh_1  
123 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 scsi_tmf_1  
124 root 20 0 0 0 0 S 0.0 0.0 0:00.00 scsi_eh_2
```

```
kali@kali: ~  
File Actions Edit View Help  
~(kali@kali)~  
$ kill  
kill: not enough arguments  
  
~(kali@kali)~  
$ ps  
PID TTY TIME CMD  
1682 pts/0 00:00:00 rsh  
1690 pts/0 00:00:00 ps  
  
~(kali@kali)~  
$ kill ps  
kill: illegal pid: ps  
  
~(kali@kali)~  
$ bd  
Command 'bd' not found, but can be installed with:  
sudo apt install bd  
Do you want to install it? (N/y)log  
  
~(kali@kali)~  
$ bg  
bg: no current job  
  
~(kali@kali)~  
$ fg  
fg: no current job  
  
~(kali@kali)~  
$
```

```
kali@kali: ~  
$ uname  
Linux  
  
kali@kali:~$ df  
Filesystem      1K-blocks      Used Available Use% Mounted on  
udev            979952         0  979952   0% /dev  
tmpfs            268336      940    268296   1% /run  
/dev/sdal       81888012 18837976  66802324  1% /  
tmpfs           1815168         0  1815168   0% /dev/shm  
tmpfs            5120         0     5120   0% /run/lock  
tmpfs           262332         0   262364   1% /run/user/1000  
  
kali@kali:~$ free  
              total        used        free      shared  buff/cache   available  
Mem:        2683336      521812    1829228    22876    473298    1339872  
Swap:        998396         0     998396  
  
kali@kali:~$ uptime  
10:04:01 up 32 min, 1 user, load average: 0.07, 0.09, 0.03  
  
kali@kali:~$ who  
kali          tty7      2023-05-28 00:32 (i0)  
  
kali@kali:~$ w  
10:04:12 up 32 min, 1 user, load average: 0.06, 0.09, 0.03  
USER      TTY      FROM          LOGNAME      IDLE      CPU    PCPU  WHAT  
kali      tty7      i0             09:32        32:23    28.41s  0.37s xfce4-session  
  
kali@kali:~$
```

```
kali@kali: ~  
$ ifconfig  
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500  
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255  
    inet6 fe80::200:27ff:fe0e:34bd prefixlen 64 scopeid 0x20<link>  
    ether 08:00:27:0e:34:bd txqueuelen 1000 (Ethernet)  
    RX packets 25 bytes 3780 (3.6 KiB)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 88 bytes 10388 (10.1 KiB)  
    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 0x10<host>  
    loop txqueuelen 1000 (Local Loopback)  
    RX packets 24 bytes 1664 (1.6 KiB)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 24 bytes 1664 (1.6 KiB)  
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
  
kali@kali:~$ ping 198.123.45.6  
PING 198.123.45.6 (198.123.45.6) 56(84) bytes of data:  
From 172.20.10.3 icmp_seq=3 Destination Host Unreachable  
From 172.20.10.3 icmp_seq=6 Destination Host Unreachable  
From 172.20.10.3 icmp_seq=9 Destination Host Unreachable  
From 172.20.10.3 icmp_seq=12 Destination Host Unreachable  
^C
```

```
kali@kali: ~  
File Actions Edit View Help  
kali@kali:~$ ssh  
usage: ssh [-46AaCfGKsMNnqtTVvXxy] [-O bind_interface]  
[-b bind_address] [-c cipher_spec] [-D [bind_address]:port]  
[-E log_file] [-e escape_char] [-f configfile] [-I pkcs11]  
[-l identity_file] [-J [user@]host[:port]] [-h address]  
[-l login_name] [-m mac_spec] [-O cti_cmd] [-o option] [-p port]  
[-Q query_option] [-R address] [-S cti_path] [-W host:port]  
[-w local_tun[:remote_tun]] destination [command]  
  
kali@kali:~$ scp  
usage: scp [-46AcCpqrTv] [-c cipher] [-f ssh_config] [-i identity_file]  
[-J destination] [-l limit] [-o ssh_option] [-P port]  
[-S program] source ... target  
  
kali@kali:~$ wget  
wget: missing URL  
Usage: wget [OPTION]... [URL]...  
Try 'wget --help' for more options.  
  
kali@kali:~$
```

```
kali@kali: ~  
File Actions Edit View Help  
kali@kali:~$ sudo  
usage: sudo -h | -K | -k | -V  
usage: sudo -v [-AknS] [-g group] [-h host] [-p prompt] [-u user]  
usage: sudo -l [-AknS] [-g group] [-h host] [-p prompt] [-U user] [--user] [command]  
usage: sudo [-AdHknPS] [-r role] [-t type] [-C num] [-D directory] [-g group] [-h host] [-p prompt] [-w directory] [-T timeout] [-u user] [VA&=value] [-i=s] [command]  
usage: sudo -e [-AknS] [-r role] [-t type] [-C num] [-D directory] [-g group] [-h host] [-p prompt] [-R directory] [-T timeout] [-u user] file ...  
  
kali@kali:~$ apt-get  
apt 2.2.3 (amd64)  
Usage: apt-get [options] command  
apt-get [options] install|remove pkg1 [pkg2 ...]  
apt-get [options] source pkg1 [pkg2 ...]  
  
apt-get is a command line interface for retrieval of packages  
and information about them from authenticated sources and  
for installation, upgrade and removal of packages together  
with their dependencies.  
  
Most used commands:  
update - Retrieve new lists of packages  
upgrade - Perform an upgrade  
install - Install new packages (pkg is libc6 not libc6.deb)  
reinstall - Reinstall packages (pkg is libc6 not libc6.deb)  
remove - Remove packages  
purge - Remove packages and config files  
autoremove - Remove automatically all unused packages  
dist-upgrade - Distribution upgrade, see apt-get(8)  
dselect-upgrade - Follow dselect selections  
build-dep - Configure build-dependencies for source packages  
satisfy - Satisfy dependency strings  
clean - Erase downloaded archive files  
autoclean - Erase old downloaded archive files  
check - Verify that there are no broken dependencies  
sources - Download source archives  
download - Download the binary package into the current directory  
changelog - Download and display the changelog for the given package  
  
See apt-get(8) for more information about the available commands.  
Configuration options and syntax is detailed in apt.conf(5).  
Information about how to configure sources can be found in sources.list(5).  
Package and version choices can be expressed via apt_preferences(5).  
Security details are available in apt-secure(8). This APT has Super Cow Powers.  
  
kali@kali:~$ yum  
Command 'yum' not found, did you mean:  
command 'yum' from deb corsutils  
command 'yum' from deb perforate  
command 'yum' from deb freemove-server  
command 'yum' from deb quickcal  
command 'yum' from deb nextgen-yum4  
Try: sudo apt install <deb name>  
  
kali@kali:~$  
UNIT                                LOAD    ACTIVE SUB    DESCRIPTION  
_error_sys-fs-kinfo_misc.automount loaded active running Arbitrary Executable File Formats File System Automount Point
```

```
kali@kali: ~  
File Actions Edit View Help  
UNIT                                LOAD    ACTIVE SUB    DESCRIPTION  
proc-sys-fs-binfmt_misc.automount  loaded active running Arbitrary Executable File Formats File System Automount Point  
sys-devices-pci10000-00-0000:00:1f:0-ata2-host1-target1:0:0-1:0:0-0-black-sr0.device loaded active plugged VBOX_CD_ROM  
sys-devices-pci10000-00-0000:00:03:0-net-eth0.device loaded active plugged 82540EM Gigabit Ethernet Controller (P80/1000 MT Desktop Adapter)  
sys-devices-pci10000-00-0000:00:05:0-sound-card0-controlC0.device loaded active plugged /sys/devices/pci10000:00/0000:00:05:0/sound/card0/controlC0  
sys-devices-pci10000-00-0000:00:0d:0-ata3-host2-target2:0:0-2:0:0-0-black-sda-sda1.device loaded active plugged VBOX_HARDDISK 1  
sys-devices-pci10000-00-0000:00:0d:0-ata3-host2-target2:0:0-2:0:0-0-black-sda-sda2.device loaded active plugged VBOX_HARDDISK 2  
sys-devices-pci10000-00-0000:00:0d:0-ata3-host2-target2:0:0-2:0:0-0-black-sda-sda5.device loaded active plugged VBOX_HARDDISK 5  
sys-devices-pci10000-00-0000:00:0d:0-ata3-host2-target2:0:0-2:0:0-0-black-sda.device loaded active plugged VBOX_HARDDISK  
sys-devices-platform-serial8250-tty-ttyS0.device loaded active plugged /sys/devices/platform/serial8250/tty/ttyS0  
sys-devices-platform-serial8250-tty-ttyS1.device loaded active plugged /sys/devices/platform/serial8250/tty/ttyS1  
sys-devices-platform-serial8250-tty-ttyS2.device loaded active plugged /sys/devices/platform/serial8250/tty/ttyS2  
sys-devices-platform-serial8250-tty-ttyS3.device loaded active plugged /sys/devices/platform/serial8250/tty/ttyS3  
sys-devices-virtual-misc-vrhall.device loaded active plugged /sys/devices/virtual/misc/vrhall  
sys-module-configfs.device loaded active plugged /sys/module/configfs  
sys-module-fuse.device loaded active plugged /sys/module/fuse  
sys-subsystem-net-devices-eth0.device loaded active plugged 82540EM Gigabit Ethernet Controller (P80/1000 MT Desktop Adapter)  
-mount loaded active mounted Root Mount  
dev-hugepages.mount loaded active mounted Huge Pages File System  
dev-queue.mount loaded active mounted POSIX Message Queue File System  
proc-sys-fs-binfmt_misc.mount loaded active mounted Arbitrary Executable File Formats File System  
run-rpc_pipefs.mount loaded active mounted RPC Pipe File System  
run-user-1000-gvfs.mount loaded active mounted /run/user/1000/gvfs  
run-user-1000.mount loaded active mounted /run/user/1000  
sys-fs-fuse-connections.mount loaded active mounted FUSE Control File System  
sys-kernel-config.mount loaded active mounted Kernel Configuration File System  
sys-kernel-debug.mount loaded active mounted Kernel Debug File System  
sys-kernel-tracing.mount loaded active mounted Kernel Trace File System  
systemd-ask-password-plymouth.path loaded active waiting Forward Password Requests to Plymouth Directory Watch  
systemd-ask-password-wall.path loaded active waiting Forward Password Requests to Wall Directory Watch  
init.scope loaded active running System and Service Manager  
serials2.scope loaded active running Session 2 of user kali  
binfmt-support.service loaded active exited Enable support for additional executable binary formats  
colord.service loaded active running Manage, Install, and Generate Color Profiles  
console-setup.service loaded active exited Set console font and keymap  
cron.service loaded active running Regular background program processing daemon  
dbus.service loaded active running D-Bus System Message Bus  
getty@tty1.service loaded active running Getty on tty1  
* serged.service loaded failed failed Entropy Daemon based on the HAVEGE algorithm  
ifupdown-pre.service loaded active exited Helper to synchronize boot up for ifupdown  
inotools-inetd.service loaded active exited LSB: GNU Network's Utilities Internet Superserver  
keyboard-setup.service loaded active exited Set the console keyboard layout  
kmod-static-modes.service loaded active exited Create list of static device nodes for the current kernel  
lightdm.service loaded active running Light Display Manager  
ModemManager.service loaded active running Modem Manager  
networking.service loaded active exited Raise network interfaces  
NetworkManager.service loaded active running Network Manager  
plymouth-quit-wait.service loaded active exited Hold until boot process finishes up  
plymouth-read-write.service loaded active exited Tell Plymouth To Write Out Runtime Data  
plymouth-start.service loaded active exited Show Plymouth Boot Screen  
polkit.service loaded active running Authorization Manager  
rsyslog.service loaded active running System Logging Service  
rtkit-daemon.service loaded active running RealtimeKit Scheduling Policy Service  
systemd-journal-flush.service loaded active exited Flush Journal to Persistent Storage  
systemd-journald.service loaded active running Journal Service  
systemd-logind.service loaded active running User Login Management  
systemd-modules-load.service loaded active exited Load Kernel Modules  
systemd-random-seed.service loaded active exited Load/Save Random Seed  
systemd-remount-fs.service loaded active exited Remount Root and Kernel File Systems  
systemd-sysctl.service loaded active exited Apply Kernel Variables  
lines 1-4
```

```
kali@kali: ~  
File Actions Edit View Help  
useradd -D  
useradd -D [options]  
Options:  
-b, --base-dir BASE_DIR do not check for bad names  
base directory for the home directory of the new account  
-c, --comment COMMENT use BTRFS subvolume for home directory  
GECOS field of the new account  
-d, --home-dir HOME_DIR home directory of the new account  
-D, --defaults print or change default useradd configuration  
-e, --expiredate EXPIRE_DATE expiration date of the new account  
-f, --inactive INACTIVE password inactivity period of the new account  
-g, --gid GROUP name or ID of the primary group of the new account  
-G, --groups GROUPS list of supplementary groups of the new account  
-h, --help display this help message and exit  
-k, --skeleton SKEL_DIR use this alternative skeleton directory  
-K, --key KEY-VALUE override /etc/login.defs defaults  
-l, --no-log-init do not add the user to the lastlog and faillog databases  
-m, --create-home create the user's home directory  
-M, --no-create-home do not create the user's home directory  
-n, --no-user-group do not create a group with the same name as the user  
-o, --non-unique allow to create users with duplicate (non-unique) UID  
-p, --password PASSWORD encrypted password of the new account  
-P, --system create a system account  
-R, --root CHROOT_DIR directory to chroot into  
-s, --prefix PREFIX_DIR prefix directory where are located the /etc/* files  
-s, --shell SHELL login shell of the new account  
-u, --uid UID user ID of the new account  
-U, --user-group create a group with the same name as the user  
-z, --selinux-user SEUSER use a specific SEUSER for the SELinux user mapping  
[kali@kali]~$  
0 useradd 122  
useradd: Permission denied.  
useradd: cannot lock /etc/passwd; try again later.  
[kali@kali]~$  
[kali@kali]~$  
Changing password for kali.  
Current password:  
New password:  
Retype new password:  
The password has not been changed.  
New password:  
Retype new password:  
You must choose a longer password.  
New password:  
Retype new password:  
You must choose a longer password.  
passwd: Authentication token manipulation error  
passwd: password unchanged  
[kali@kali]~$  
10
```