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Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)



SMARTBRIDGE
Let's Bridge the Gap

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Reg. No: 20MIS0332

Course: Cyber Security and Ethical Hacking

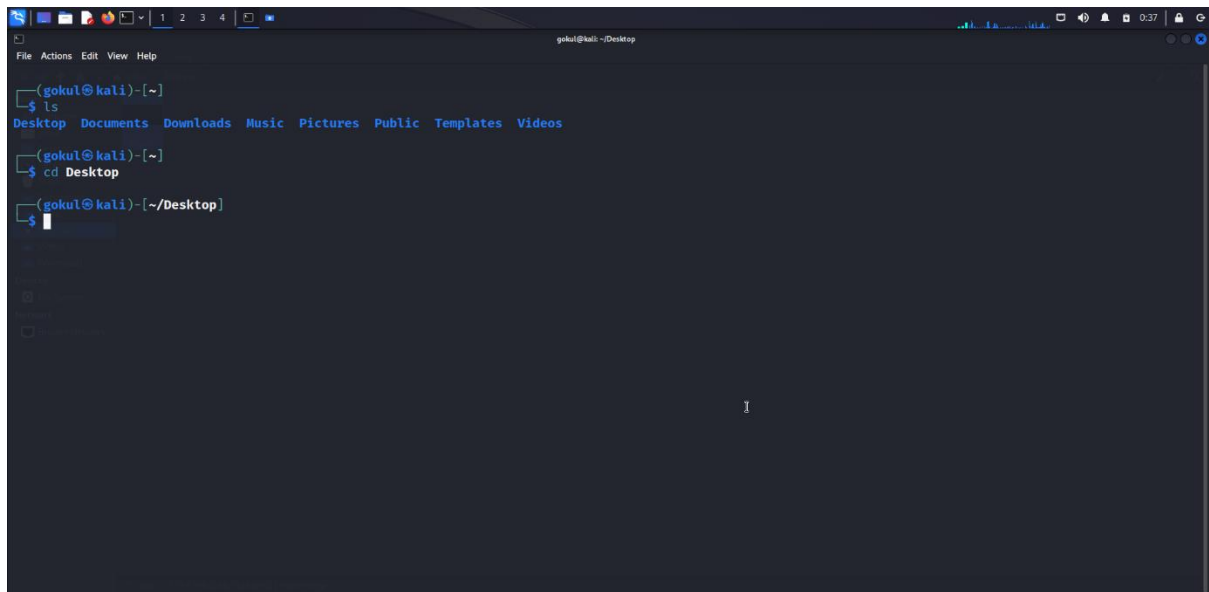
Campus: VIT Vellore

File and directory commands:

Ls:

```
gokul@kali: ~  
$ ls  
Desktop Documents Downloads Music Pictures Public Templates Videos  
gokul@kali: ~  
$
```

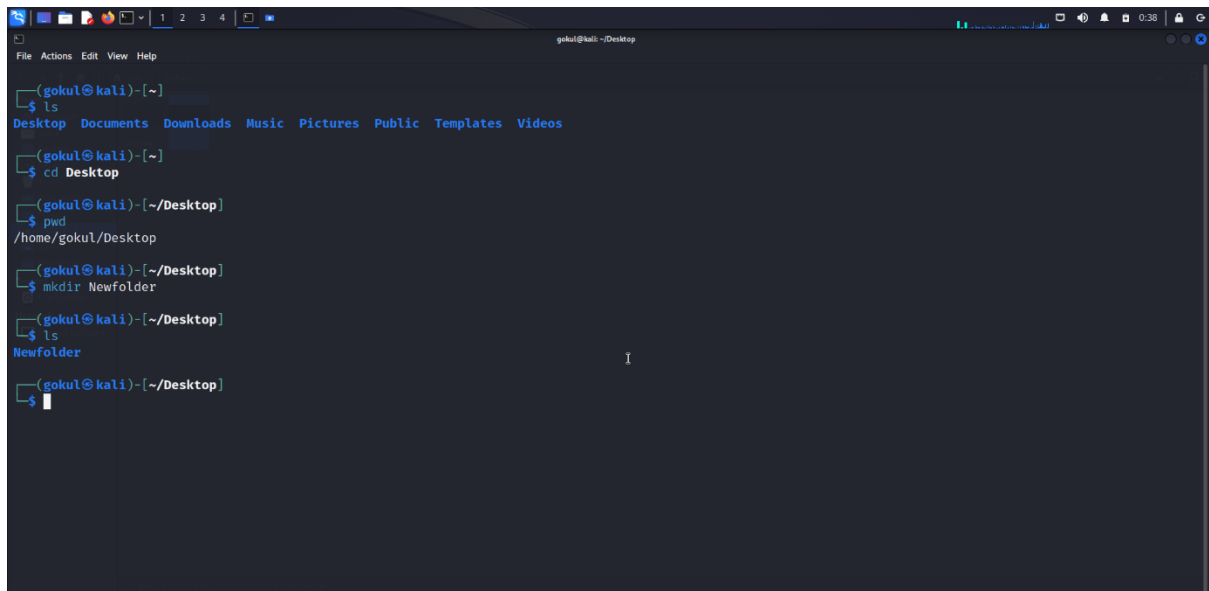
Cd:



A terminal window titled 'gokul@kali: ~/Desktop' with a menu bar (File, Actions, Edit, View, Help) and a top status bar showing tabs 1-4, a file icon, and system icons (signal, battery, 0:37). The terminal shows the following commands and output:

```
(gokul@kali)-[~]  
$ ls  
Desktop Documents Downloads Music Pictures Public Templates Videos  
(gokul@kali)-[~]  
$ cd Desktop  
(gokul@kali)-[~/Desktop]  
$
```

Pwd & Mkdir:



A terminal window titled 'gokul@kali: ~/Desktop' with a menu bar (File, Actions, Edit, View, Help) and a top status bar showing tabs 1-4, a file icon, and system icons (signal, battery, 0:38). The terminal shows the following commands and output:

```
(gokul@kali)-[~]  
$ ls  
Desktop Documents Downloads Music Pictures Public Templates Videos  
(gokul@kali)-[~]  
$ cd Desktop  
(gokul@kali)-[~/Desktop]  
$ pwd  
/home/gokul/Desktop  
(gokul@kali)-[~/Desktop]  
$ mkdir NewFolder  
(gokul@kali)-[~/Desktop]  
$ ls  
NewFolder  
(gokul@kali)-[~/Desktop]  
$
```

Touch:

```
gokul@kali: ~/Desktop
File Actions Edit View Help

(gokul@kali)-[~]
$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos

(gokul@kali)-[~]
$ cd Desktop

(gokul@kali)-[~/Desktop]
$ pwd
/home/gokul/Desktop

(gokul@kali)-[~/Desktop]
$ mkdir NewFolder

(gokul@kali)-[~/Desktop]
$ ls
NewFolder

(gokul@kali)-[~/Desktop]
$ touch first.txt

(gokul@kali)-[~/Desktop]
$ ls
first.txt NewFolder

(gokul@kali)-[~/Desktop]
$
```

Cp:

```
gokul@kali: ~/Desktop/NewFolder
File Actions Edit View Help

(gokul@kali)-[~/Desktop]
$ ls
NewFolder

(gokul@kali)-[~/Desktop]
$ touch first.txt

(gokul@kali)-[~/Desktop]
$ ls
first.txt NewFolder

(gokul@kali)-[~/Desktop]
$ cp first.txt NewFolder

(gokul@kali)-[~/Desktop]
$ ls
first.txt NewFolder

(gokul@kali)-[~/Desktop]
$ cd NewFolder
cd: no such file or directory: NewFolder

(gokul@kali)-[~/Desktop]
$ cd NewFolder

(gokul@kali)-[~/Desktop/NewFolder]
$ ls
first.txt

(gokul@kali)-[~/Desktop/NewFolder]
$
```

Mv:

```
gokul@kali: ~/Desktop
File Actions Edit View Help

(gokul@kali)-[~/Desktop]
$ ls
first.txt  NewFolder

(gokul@kali)-[~/Desktop]
$ cd NewFolder
cd: no such file or directory: NewFolder

(gokul@kali)-[~/Desktop]
$ cd NewFolder

(gokul@kali)-[~/Desktop/NewFolder]
$ ls
first.txt

(gokul@kali)-[~/Desktop/NewFolder]
$ cd ..

(gokul@kali)-[~/Desktop]
$ pwd
/home/gokul/Desktop

(gokul@kali)-[~/Desktop]
$ mv NewFolder NewFolder

(gokul@kali)-[~/Desktop]
$ ls
first.txt  NewFolder

(gokul@kali)-[~/Desktop]
$
```

Rm:

```
gokul@kali: ~/Desktop
File Actions Edit View Help

cd: no such file or directory: NewFolder

(gokul@kali)-[~/Desktop]
$ cd NewFolder

(gokul@kali)-[~/Desktop/NewFolder]
$ ls
first.txt

(gokul@kali)-[~/Desktop/NewFolder]
$ cd ..

(gokul@kali)-[~/Desktop]
$ pwd
/home/gokul/Desktop

(gokul@kali)-[~/Desktop]
$ mv NewFolder NewFolder

(gokul@kali)-[~/Desktop]
$ ls
first.txt  NewFolder

(gokul@kali)-[~/Desktop]
$ rm first.txt

(gokul@kali)-[~/Desktop]
$ ls
NewFolder

(gokul@kali)-[~/Desktop]
$
```

Find:

```
gokul@kali: ~/Desktop/NewFolder
File Actions Edit View Help
(gokul@kali)-[~/Desktop]
$ pwd
/home/gokul/Desktop
(gokul@kali)-[~/Desktop]
$ mv NewFolder NewFolder
(gokul@kali)-[~/Desktop]
$ ls
first.txt  NewFolder
(gokul@kali)-[~/Desktop]
$ rm first.txt
(gokul@kali)-[~/Desktop]
$ ls
NewFolder
(gokul@kali)-[~/Desktop]
$ find first.txt
find: 'first.txt': No such file or directory
(gokul@kali)-[~/Desktop]
$ cd NewFolder
(gokul@kali)-[~/Desktop/NewFolder]
$ find first.txt
first.txt
(gokul@kali)-[~/Desktop/NewFolder]
$
```

File Viewing and Editing:

Cat:

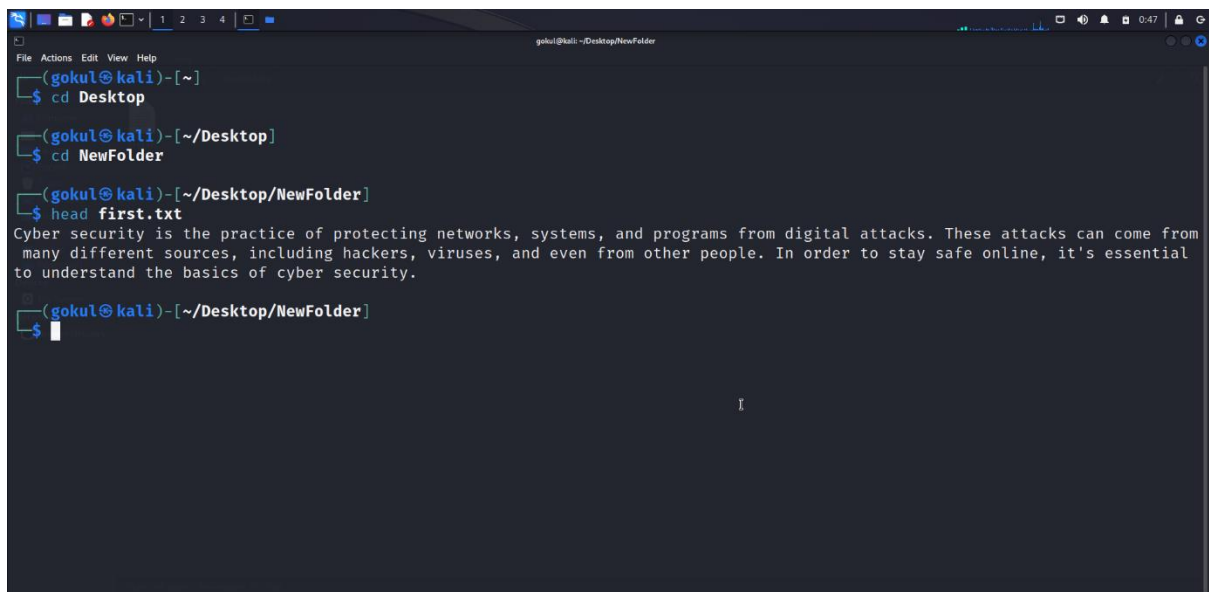
```
gokul@kali: ~/Desktop/NewFolder
File Actions Edit View Help
(gokul@kali)-[~/Desktop/NewFolder]
$ cat first.txt
Cyber security is the practice of protecting networks, systems, and programs from digital attacks. These attacks can come from many different sources, including hackers, viruses, and even from other people. In order to stay safe online, it's essential to understand the basics of cyber security.
(gokul@kali)-[~/Desktop/NewFolder]
$
```

Less:



```
gokul@kali: ~/Desktop/NewFolder
File Actions Edit View Help
Cyber security is the practice of protecting networks, systems, and programs from digital attacks. These attacks can come from many different sources, including hackers, viruses, and even from other people. In order to stay safe online, it's essential to understand the basics of cyber security.
(END)
```

Head:



```
(gokul@kali)-[~]
$ cd Desktop
(gokul@kali)-[~/Desktop]
$ cd NewFolder
(gokul@kali)-[~/Desktop/NewFolder]
$ head first.txt
Cyber security is the practice of protecting networks, systems, and programs from digital attacks. These attacks can come from many different sources, including hackers, viruses, and even from other people. In order to stay safe online, it's essential to understand the basics of cyber security.
(gokul@kali)-[~/Desktop/NewFolder]
$
```

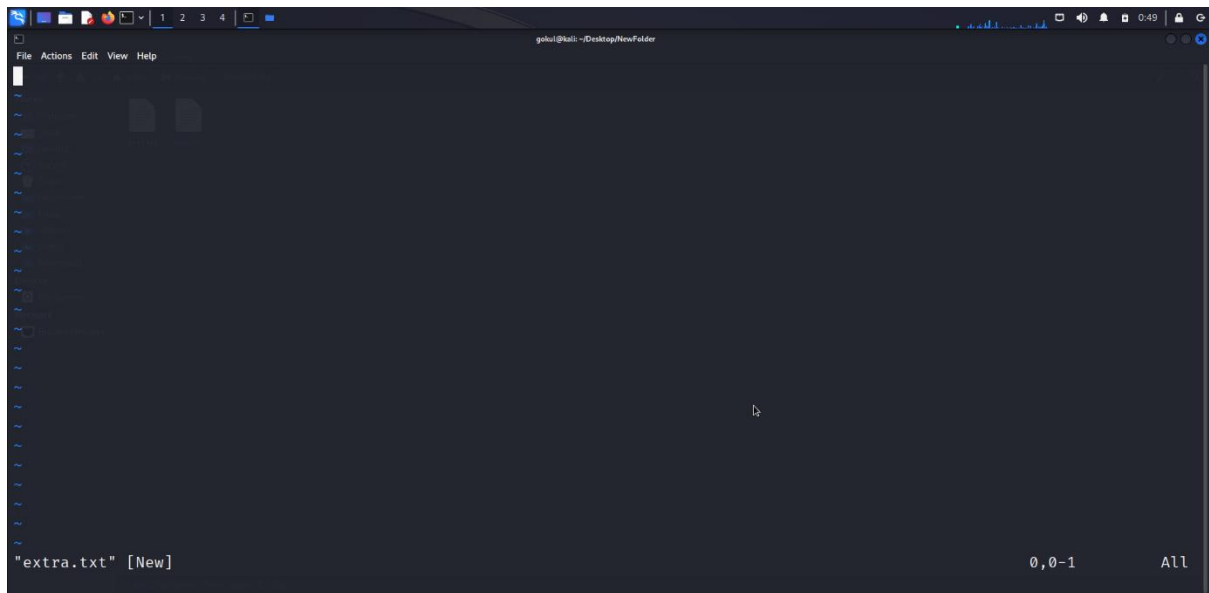
Tail:

```
gokul@kali: ~/Desktop/NewFolder
(gokul@kali)~$ cd Desktop
(gokul@kali)~/Desktop$ cd NewFolder
(gokul@kali)~/Desktop/NewFolder$ head first.txt
Cyber security is the practice of protecting networks, systems, and programs from digital attacks. These attacks can come from many different sources, including hackers, viruses, and even from other people. In order to stay safe online, it's essential to understand the basics of cyber security.
(gokul@kali)~/Desktop/NewFolder$ tail first.txt
Cyber security is the practice of protecting networks, systems, and programs from digital attacks. These attacks can come from many different sources, including hackers, viruses, and even from other people. In order to stay safe online, it's essential to understand the basics of cyber security.
(gokul@kali)~/Desktop/NewFolder$
```

Nano:

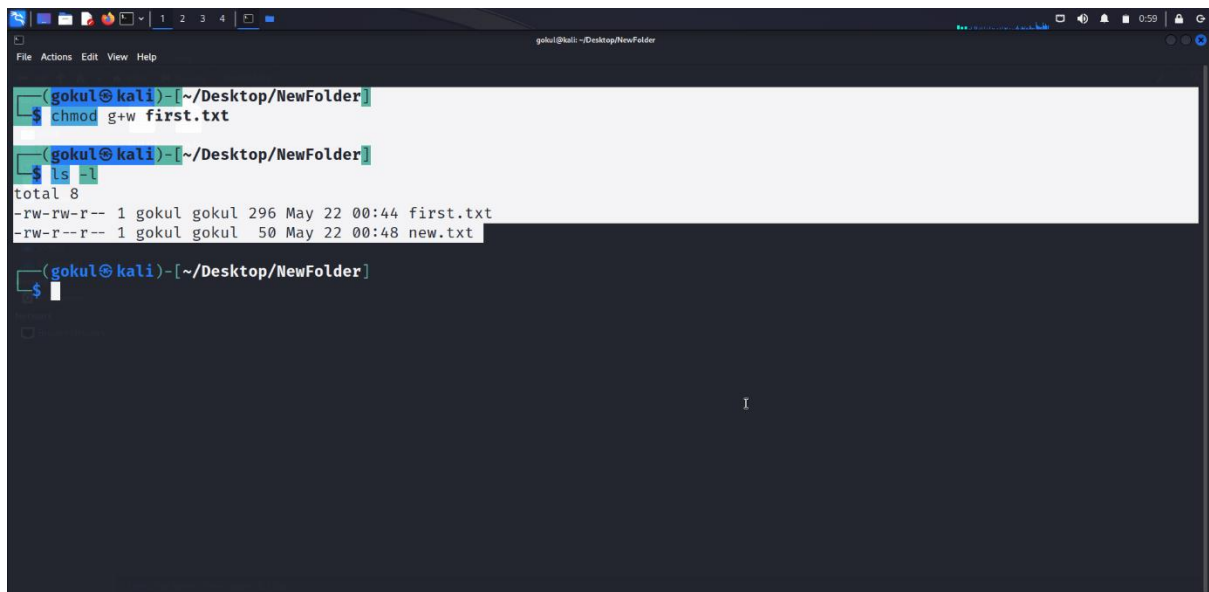
```
gokul@kali: ~/Desktop/NewFolder
(gokul@kali)~$ cd Desktop
(gokul@kali)~/Desktop$ cd NewFolder
(gokul@kali)~/Desktop/NewFolder$ head first.txt
Cyber security is the practice of protecting networks, systems, and programs from digital attacks. These attacks can come from many different sources, including hackers, viruses, and even from other people. In order to stay safe online, it's essential to understand the basics of cyber security.
(gokul@kali)~/Desktop/NewFolder$ tail first.txt
Cyber security is the practice of protecting networks, systems, and programs from digital attacks. These attacks can come from many different sources, including hackers, viruses, and even from other people. In order to stay safe online, it's essential to understand the basics of cyber security.
(gokul@kali)~/Desktop/NewFolder$ nano new.txt
(gokul@kali)~/Desktop/NewFolder$
```

Vim:



File Permission:

Chmod:



Chown:


```
File Actions Edit View Help
gokul@kali: ~/Desktop/NewFolder

(gokul@kali)~[~/Desktop/NewFolder]
$ chmod g+w first.txt

(gokul@kali)~[~/Desktop/NewFolder]
$ ls -l
total 8
-rw-rw-r-- 1 gokul gokul 296 May 22 00:44 first.txt
-rw-r--r-- 1 gokul gokul  50 May 22 00:48 new.txt

(gokul@kali)~[~/Desktop/NewFolder]
$ sudo chown gokul first.txt
[sudo] password for gokul:
Sorry, try again.
[sudo] password for gokul:

(gokul@kali)~[~/Desktop/NewFolder]
$
```

Chgrp:

```
File Actions Edit View Help
gokul@kali: ~/Desktop/NewFolder

(gokul@kali)~[~/Desktop/NewFolder]
$ chmod g+w first.txt

(gokul@kali)~[~/Desktop/NewFolder]
$ ls -l
total 8
-rw-rw-r-- 1 gokul gokul 296 May 22 00:44 first.txt
-rw-r--r-- 1 gokul gokul  50 May 22 00:48 new.txt

(gokul@kali)~[~/Desktop/NewFolder]
$ sudo chown gokul first.txt
[sudo] password for gokul:
Sorry, try again.
[sudo] password for gokul:

(gokul@kali)~[~/Desktop/NewFolder]
$ sudo chgrp gokul first.txt

(gokul@kali)~[~/Desktop/NewFolder]
$
```

File Compression and Archiving:

Tar:

```
gokul@kali: ~/Desktop/NewFolder
$ tar -c newArchive
tar: Refusing to write archive contents to terminal (missing -f option?)
tar: Error is not recoverable: exiting now

(gokul@kali)~/Desktop/NewFolder
$ man tar

(gokul@kali)~/Desktop/NewFolder
$ tar -czvf newArchive.gz first.txt new.txt
first.txt
new.txt

(gokul@kali)~/Desktop/NewFolder
$ ls
first.txt  newArchive.gz  new.txt

(gokul@kali)~/Desktop/NewFolder
$
```

Gzip:

```
gokul@kali: ~/Desktop/NewFolder
$ tar -c newArchive
tar: Refusing to write archive contents to terminal (missing -f option?)
tar: Error is not recoverable: exiting now

(gokul@kali)~/Desktop/NewFolder
$ man tar

(gokul@kali)~/Desktop/NewFolder
$ tar -czvf newArchive.gz first.txt new.txt
first.txt
new.txt

(gokul@kali)~/Desktop/NewFolder
$ ls
first.txt  newArchive.gz  new.txt

(gokul@kali)~/Desktop/NewFolder
$ gzip -d newArchive.gz

(gokul@kali)~/Desktop/NewFolder
$ ls
first.txt  newArchive  new.txt

(gokul@kali)~/Desktop/NewFolder
$
```

Unzip:

```
gokul@kali: ~/Desktop/NewFolder
$ unzip another.zip
Archive:  another.zip
  replace first.txt? [y]es, [n]o, [A]ll, [N]one, [r]ename: r
  new name: anotherFirst
    inflating: anotherFirst
  replace new.txt? [y]es, [n]o, [A]ll, [N]one, [r]ename: r
  new name: anotherNew
    extracting: anotherNew

(gokul@kali)~/Desktop/NewFolder
$ ls
anotherFirst  anotherNew  another.zip  first.txt  newArchive  newArchive.gz  new.txt

(gokul@kali)~/Desktop/NewFolder
$
```

Process Management:

Ps:

```
gokul@kali: /
$ cd /

(gokul@kali)~/
$ ps
  PID TTY          TIME CMD
 12116 pts/0    00:00:05 zsh
 22541 pts/0    00:00:00 ps

(gokul@kali)~/
$
```

Top:

```
gokul@kali: /
File Actions Edit View Help
top - 01:12:48 up 42 min, 1 user, load average: 0.55, 0.47, 0.47
Tasks: 167 total, 1 running, 166 sleeping, 0 stopped, 0 zombie
%Cpu(s): 3.8 us, 2.3 sy, 0.0 ni, 93.3 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 3920.4 total, 2302.0 free, 995.1 used, 863.4 buff/cache
MiB Swap: 975.0 total, 975.0 free, 0.0 used, 2925.3 avail Mem

  PID USER      PR  NI   VIRT   RES   SHR  S  %CPU  %MEM    TIME+  COMMAND
  541 root        20   0 503568 171712 70568 S 13.5   4.3   2:49.97 Xorg
 12113 gokul       20   0 447832 113748 89832 S  2.6   2.8   0:10.76 qterminal
   972 gokul       20   0 207100  34000 18624 S  1.0   0.8   0:13.17 panel-13-cpugra
   861 gokul       20   0 217956  2472  2124 S  0.7   0.1   0:11.62 VBoxClient
   921 gokul       20   0 1093404 110680 79028 S  0.7   2.8   0:31.75 xfwm4
    14 root         0   0     0     0     0 S  0.3   0.0   0:00.34 ksoftirqd/0
   909 gokul       20   0 164364  9952  7072 S  0.3   0.2   0:01.18 at-spi2-registr

top - 01:12:49 up 42 min, 1 user, load average: 0.55, 0.47, 0.47
Tasks: 167 total, 2 running, 165 sleeping, 0 stopped, 0 zombie
%Cpu(s): 33.3 us, 33.3 sy, 0.0 ni, 33.3 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
top - 01:12:49 up 42 min, 1 user, load average: 0.55, 0.47, 0.47
Tasks: 167 total, 2 running, 165 sleeping, 0 stopped, 0 zombie
%Cpu(s): 50.0 us, 0.0 sy, 0.0 ni, 50.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 3920.4 total, 2302.0 free, 995.1 used, 863.5 buff/cache
MiB Swap: 975.0 total, 975.0 free, 0.0 used, 2925.3 avail Mem

  PID USER      PR  NI   VIRT   RES   SHR  S  %CPU  %MEM    TIME+  COMMAND
 12113 gokul       20   0 447600 113496 89828 R 200.0   2.8   0:10.85 qterminal

top - 01:12:50 up 42 min, 1 user, load average: 0.55, 0.47, 0.47
Tasks: 167 total, 2 running, 165 sleeping, 0 stopped, 0 zombie
%Cpu(s): 50.0 us, 0.0 sy, 0.0 ni, 0.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
top - 01:12:50 up 42 min, 1 user, load average: 0.55, 0.47, 0.47
Tasks: 167 total, 2 running, 165 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.0 us, 0.0 sy, 0.0 ni, 100.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
top - 01:12:50 up 42 min, 1 user, load average: 0.55, 0.47, 0.47
Tasks: 167 total, 1 running, 166 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.0 us, 0.0 sy, 0.0 ni, 100.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
```

Kill:

```
gokul@kali: /
File Actions Edit View Help
$ ps
  PID TTY          TIME CMD
 12116 pts/0    00:00:05 zsh
 23655 pts/0    00:00:00 ps

(gokul@kali)-[/]
$ kill 23655
kill: kill 23655 failed: no such process

(gokul@kali)-[/]
$ kill -STOP 23655
kill: kill 23655 failed: no such process

(gokul@kali)-[/]
$ kill 1
HUP INT QUIT ILL TRAP IOT BUS FPE KILL USR1 SEGV USR2 PIPE ALRM TERM STKFLT CHLD CONT STOP TSTP TTIN TTOU URG XCPU XFSZ VTALRM PROF WINCH POLL PWR SYS

(gokul@kali)-[/]
$ ps
  PID TTY          TIME CMD
 12116 pts/0    00:00:06 zsh
 25917 pts/0    00:00:00 ps

(gokul@kali)-[/]
$ kill 12116

(gokul@kali)-[/]
$ ps
  PID TTY          TIME CMD
 12116 pts/0    00:00:06 zsh
 26003 pts/0    00:00:00 ps

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

Bg:

```
gokul@kali /  
$ jobs  
[gokul@kali]-[/]  
$ ls  
bin  dev  home  initrd.img.old  lib32  libx32  media  opt  root  sbin  sys  usr  vmlinuz  
boot  etc  initrd.img  lib  lib64  lost+found  mnt  proc  run  srv  tmp  var  vmlinuz.old  
[gokul@kali]-[/]  
$ jobs  
[gokul@kali]-[/]  
$ sleep 500  
^Z  
zsh: suspended sleep 500  
[gokul@kali]-[/]  
$ jobs  
[1] + suspended sleep 500  
[gokul@kali]-[/]  
$ bg %1  
[1] + continued sleep 500  
[gokul@kali]-[/]  
$ jobs  
[1] + running sleep 500  
[gokul@kali]-[/]  
$
```

Fg:

```
gokul@kali /  
$ ls  
bin  dev  home  initrd.img.old  lib32  libx32  media  opt  root  sbin  sys  usr  vmlinuz  
boot  etc  initrd.img  lib  lib64  lost+found  mnt  proc  run  srv  tmp  var  vmlinuz.old  
[gokul@kali]-[/]  
$ jobs  
[gokul@kali]-[/]  
$ sleep 500  
^Z  
zsh: suspended sleep 500  
[gokul@kali]-[/]  
$ jobs  
[1] + suspended sleep 500  
[gokul@kali]-[/]  
$ bg %1  
[1] + continued sleep 500  
[gokul@kali]-[/]  
$ jobs  
[1] + running sleep 500  
[gokul@kali]-[/]  
$ fg %1  
[1] + running sleep 500  
^Z  
zsh: suspended sleep 500  
[gokul@kali]-[/]  
$
```

System Information:

Uname, df, free, uptime, who, w:

```
gokul@kali: /  
File Actions Edit View Help  
Linux  
gokul@kali:~$ df  
Filesystem      1K-blocks      Used Available Use% Mounted on  
udev            1966708         0   1966708   0% /dev  
tmpfs           401456         964    400492   1% /run  
/dev/sda1       31861548 12838436  17379080  43% /  
tmpfs           2007264         0    2007264   0% /dev/shm  
tmpfs           5120          0      5120    0% /run/lock  
tmpfs           401452        2500   398952   1% /run/user/1000  
  
gokul@kali:~$ free  
              total        used        free      shared  buff/cache   available  
Mem:           4014532      1627412      1680072       38368     974392     2387120  
Swap:              0              0      998396  
  
gokul@kali:~$ uptime  
01:21:45 up 51 min,  1 user,  load average: 1.55, 1.31, 0.88  
  
gokul@kali:~$ who  
gokul    tty7                2023-05-22 00:31 (:0)  
  
gokul@kali:~$ w  
01:21:55 up 51 min,  1 user,  load average: 1.31, 1.26, 0.87  
USER      TTY      FROM              LOGIN@   IDLE   JCPU   PCPU   WHAT  
gokul     tty7      :0                00:31    51:04   4:00   2.05s  xfce4-session  
  
gokul@kali:~$
```

Networking:

Ifconfig:

```
gokul@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::a00:27ff:feae:aa8c prefixlen 64 scopeid 0<link>  
    ether 08:00:27:ae:aa:8c txqueuelen 1000 (Ethernet)  
    RX packets 35065 bytes 33684915 (32.1 MiB)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 18753 bytes 3230083 (3.0 MiB)  
    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 0<host>  
    loop txqueuelen 1000 (Local Loopback)  
    RX packets 6 bytes 340 (340.0 B)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 6 bytes 340 (340.0 B)  
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
  
gokul@kali:~$ ping www.google.com  
PING www.google.com (142.250.71.36) 56(84) bytes of data:  
64 bytes from maa03s35-in-f4.1e100.net (142.250.71.36): icmp_seq=1 ttl=117 time=10.0 ms  
64 bytes from maa03s35-in-f4.1e100.net (142.250.71.36): icmp_seq=2 ttl=117 time=7.96 ms  
64 bytes from maa03s35-in-f4.1e100.net (142.250.71.36): icmp_seq=3 ttl=117 time=9.29 ms  
64 bytes from maa03s35-in-f4.1e100.net (142.250.71.36): icmp_seq=4 ttl=117 time=7.87 ms  
64 bytes from maa03s35-in-f4.1e100.net (142.250.71.36): icmp_seq=5 ttl=117 time=8.04 ms  
64 bytes from maa03s35-in-f4.1e100.net (142.250.71.36): icmp_seq=6 ttl=117 time=9.27 ms  
64 bytes from maa03s35-in-f4.1e100.net (142.250.71.36): icmp_seq=7 ttl=117 time=8.32 ms  
64 bytes from maa03s35-in-f4.1e100.net (142.250.71.36): icmp_seq=8 ttl=117 time=9.45 ms  
64 bytes from maa03s35-in-f4.1e100.net (142.250.71.36): icmp_seq=9 ttl=117 time=8.62 ms
```

Ssh, scp, wget:

```
gokul@kali /  
File Actions Edit View Help  
64 bytes from maa03s35-in-f4.1e100.net (142.250.71.36): icmp_seq=5 ttl=117 time=11.4 ms  
64 bytes from maa03s35-in-f4.1e100.net (142.250.71.36): icmp_seq=6 ttl=117 time=11.0 ms  
^C  
--- www.google.com ping statistics ---  
6 packets transmitted, 6 received, 0% packet loss, time 5025ms  
rtt min/avg/max/mdev = 8.349/10.148/11.413/0.993 ms  
  
gokul@kali)~$ ssh  
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] [-O ctl_cmd] [-o option] [-p port]  
          [-Q query_option] [-R address] [-S ctl_path] [-W host:port]  
          [-w local_tun[:remote_tun]] destination [command [argument ... ]]  
  
gokul@kali)~$ scp  
usage: scp [-346ABCOpqRrsTv] [-c cipher] [-D sftp_server_path] [-F ssh_config]  
          [-i identity_file] [-j destination] [-l limit] [-o ssh_option]  
          [-P port] [-S program] [-X sftp_option] source ... target  
  
gokul@kali)~$ wget http://example.com/sample.php  
--2023-05-22 01:27:19-- http://example.com/sample.php  
Resolving example.com (example.com) ... 93.184.216.34, 2606:2800:220:1:248:1893:25c8:1946  
Connecting to example.com (example.com)|93.184.216.34|:80 ... connected.  
HTTP request sent, awaiting response ... 404 Not Found  
2023-05-22 01:27:20 ERROR 404: Not Found.  
  
gokul@kali)~$
```

System Administration:

Sudo, apt-get, yum:

```
gokul@kali /  
File Actions Edit View Help  
  
gokul@kali)~$ sudo -v  
Sudo version 1.9.13p1  
Sudoers policy plugin version 1.9.13p1  
Sudoers file grammar version 50  
Sudoers I/O plugin version 1.9.13p1  
Sudoers audit plugin version 1.9.13p1  
  
gokul@kali)~$ sudo apt-get update  
[sudo] password for gokul:  
Get:1 http://kali.download/kali kali-rolling InRelease [41.2 kB]  
Get:2 http://kali.download/kali kali-rolling/main amd64 Packages [19.3 MB]  
Get:3 http://kali.download/kali kali-rolling/main amd64 Contents (deb) [44.7 MB]  
Fetched 64.0 MB in 20s (3,157 kB/s)  
Reading package lists... Done  
  
gokul@kali)~$ sudo apt install yum  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
Package yum is not available, but is referred to by another package.  
This may mean that the package is missing, has been obsoleted, or  
is only available from another source  
  
E: Package 'yum' has no installation candidate  
  
gokul@kali)~$
```

Systemctl:


```
gokul@kali: /  
UNIT                                LOAD    ACTIVE SUB    DESCRIPTION  
proc-sys-fs-binfmt_misc.automount loaded active running Arbitrary Executable File Formats File Sy>  
sys-devices-pci0000:00-0000:00:01.1-ata2-host1-target1:0:0-1:0:0:0-block-sr0.device loaded active plugged VBOX_CD-ROM  
sys-devices-pci0000:00-0000:00:03.0-net-eth0.device loaded active plugged 82540EM Gigabit Ethernet Controller (PRO/>  
sys-devices-pci0000:00-0000:00:05.0-sound-card0-controlC0.device loaded active plugged /sys/devices/pci0000:00/0000:00:05.0/soun>  
sys-devices-pci0000:00-0000:00:0d.0-ata3-host2-target2:0:0-2:0:0:0-block-sda-sda1.device loaded active plugged VBOX_HARDDISK 1  
sys-devices-pci0000:00-0000:00:0d.0-ata3-host2-target2:0:0-2:0:0:0-block-sda-sda2.device loaded active plugged VBOX_HARDDISK 2  
sys-devices-pci0000:00-0000:00:0d.0-ata3-host2-target2:0:0-2:0:0:0-block-sda-sda5.device loaded active plugged VBOX_HARDDISK 5  
sys-devices-pci0000:00-0000:00:0d.0-ata3-host2-target2:0:0-2:0:0:0-block-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-rfkill.device loaded active plugged /sys/devices/virtual/misc/rfkill  
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 (PRO/>  
- mount  
dev-hugepages.mount loaded active mounted Root Mount  
dev-mqueue.mount loaded active mounted Huge Pages File System  
proc-sys-fs-binfmt_misc.mount loaded active mounted POSIX Message Queue File System  
run-credentials-systemd\x2dsysctl.service.mount loaded active mounted Arbitrary Executable File Formats File Sy>  
run-credentials-systemd\x2dsysusers.service.mount loaded active mounted /run/credentials/systemd-sysctl.service  
run-credentials-systemd\x2dtmpfiles\x2dsetup.service.mount loaded active mounted /run/credentials/systemd-sysusers.service  
run-credentials-systemd\x2dtmpfiles\x2dsetup.service.mount loaded active mounted /run/credentials/systemd-tmpfiles-setup.s>  
run-credentials-systemd\x2dtmpfiles\x2dsetup.service.mount loaded active mounted /run/credentials/systemd-tmpfiles-setup-d>  
run-rpc_pipefs.mount loaded active mounted RPC Pipe File System  
run-user-1000-doc.mount loaded active mounted /run/user/1000/doc  
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  
lines 1-33
```

Crontab, useradd:

```
gokul@kali: /  
gokul@kali:~$ crontab -l  
no crontab for gokul  
gokul@kali:~$ useradd  
Usage: useradd [options] LOGIN  
       useradd -D  
       useradd -D [options]  
Options:  
  -b, --badname          do not check for bad names  
  -b, --base-dir BASE_DIR base directory for the home directory of the  
                          new account  
  -btrfs-subvolume-home use BTRFS subvolume for home directory  
  -c, --comment COMMENT  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  
  -F, --add-subids-for-system add entries to subuid even when adding a system user  
  -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, --skel 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
```

Passwd:


```
File Actions Edit View Help
-g, --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
-F, --add-subids-for-system  add entries to sub[uid]id even when adding a system user
-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, --skel 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
-r, --system                 create a system account
-R, --root CHROOT_DIR        directory to chroot into
-P, --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

(gokul@kali) ~/1
$ passwd
Changing password for gokul.
Current password: 
```