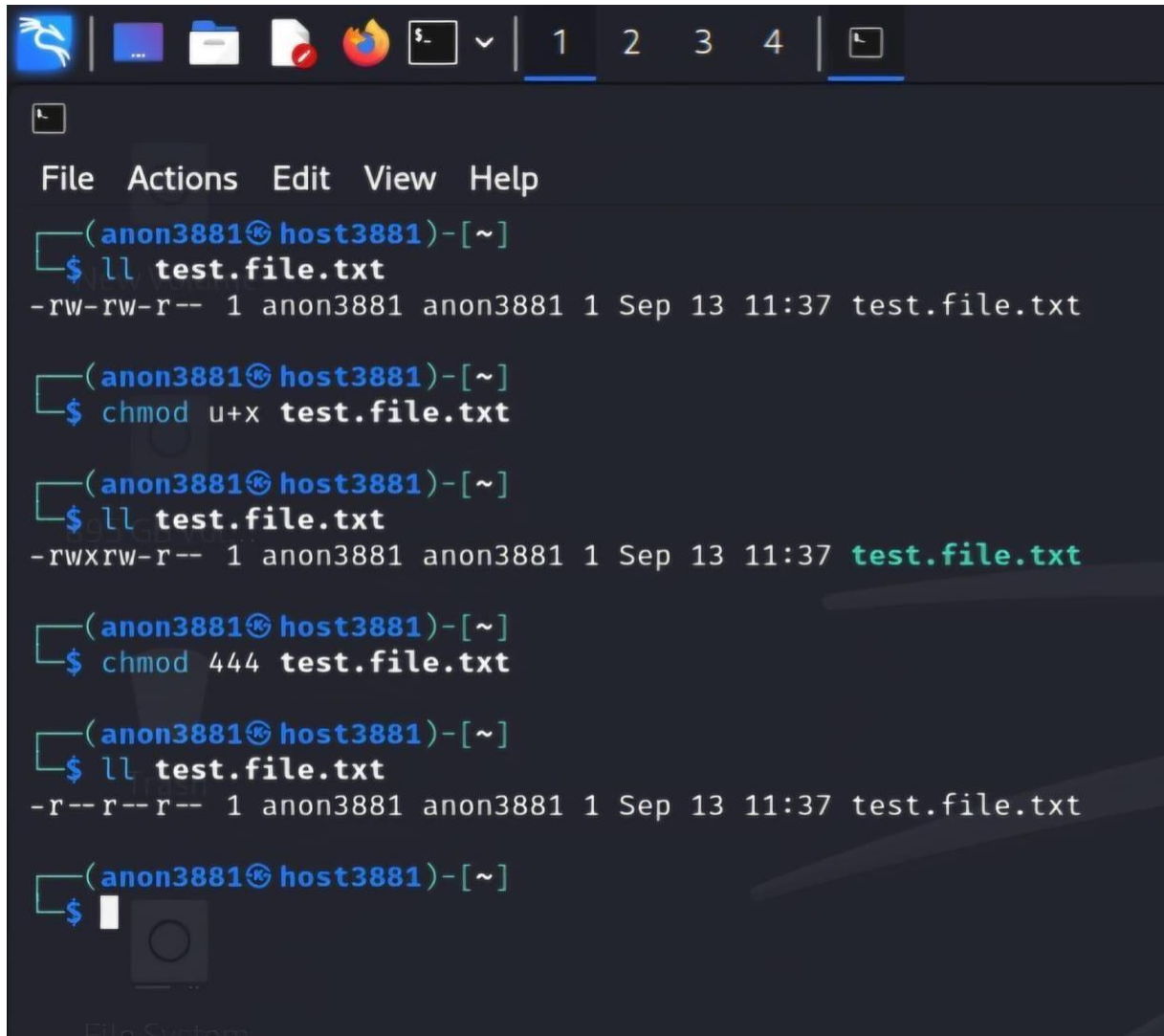


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BCA(CS) 3D

23/SCA/BCA(CS)/001

Command chmod



```
File Actions Edit View Help
(anon3881@host3881)-[~]
$ ll test.file.txt
-rw-rw-r-- 1 anon3881 anon3881 1 Sep 13 11:37 test.file.txt

(anon3881@host3881)-[~]
$ chmod u+x test.file.txt

(anon3881@host3881)-[~]
$ ll test.file.txt
-rwxrw-r-- 1 anon3881 anon3881 1 Sep 13 11:37 test.file.txt

(anon3881@host3881)-[~]
$ chmod 444 test.file.txt

(anon3881@host3881)-[~]
$ ll test.file.txt
-r--r--r-- 1 anon3881 anon3881 1 Sep 13 11:37 test.file.txt

(anon3881@host3881)-[~]
$
```

Command who, whoami

```
(kali㉿kali)-[~]  
$ whoami  
kali  
  
(kali㉿kali)-[~]  
$ who  
kali      tty7      2024-10-10 04:06 (:0)
```

Command man

```
(kali㉿kali)-[~]  
$ man --usage  
Usage: man [-dDfKlWwciIau7tZ?V] [-C FILE] [-R ENCODING] [-L LOCALE]  
        [-m SYSTEM] [-M PATH] [-S LIST] [-s LIST] [-e EXTENSION]  
        [-P PAGER] [-r STRING] [-E ENCODING] [-p STRING] [-T[DEVICE]]  
        [-H[BROWSER]] [-X[RESOLUTION]] [--config-file=FILE] [--debug]  
        [--default] [--warnings[=WARNINGS]] [--whatis] [--apropos]  
        [--global-apropos] [--local-file] [--where] [--path] [--location]  
        [--where-cat] [--location-cat] [--catman] [--recode=ENCODING]  
        [--locale=LOCALE] [--systems=SYSTEM] [--manpath=PATH]  
        [--sections=LIST] [--extension=EXTENSION] [--ignore-case]  
        [--match-case] [--regex] [--wildcard] [--names-only] [--all]  
        [--update] [--no-subpages] [--pager=PAGER] [--prompt=STRING]  
        [--ascii] [--encoding=ENCODING] [--no-hyphenation] [--nh]  
        [--no-justification] [--nj] [--preprocessor=STRING] [--troff]  
        [--troff-device[=DEVICE]] [--html[=BROWSER]]  
        [--gxditview[=RESOLUTION]] [--ditroff] [--help] [--usage]  
        [--version] [SECTION] PAGE ...
```

Command date

```
(kali㉿kali)-[~]  
$ date  
Wed Oct 9 11:52:40 PM EDT 2024
```

Command echo

```
(kali㉿kali)-[~]  
$ echo "Hello World"  
Hello World
```

Command passwd

```
(kali㉿kali)-[~]  
$ passwd  
Changing password for kali.  
Current password:  
New password:  
Retype new password:  
passwd: password updated successfully
```

Command cat, sort numbers

```
(kali㉿kali)-[~]  
$ cat number.txt  
2  
54  
78  
22  
57  
17  
  
(kali㉿kali)-[~]  
$ sort -n number.txt  
2  
17  
22  
54  
57  
78
```

Command cat, sort Strings

```
(kali㉿kali)-[~]  
$ cat shares.txt  
tata  
vedanta  
jsw steel  
gtlinfra  
cognizant
```

```
(kali㉿kali)-[~]  
$ sort shares.txt  
  
cognizant  
gtlinfra  
jsw steel  
tata  
vedanta
```

Command chmod (Changing Absolute Permission)

```
(kali㉿kali)-[~]  
$ chmod -R 110 file1.txt  
  
(kali㉿kali)-[~]  
$ chmod u+x file1.txt  
  
(kali㉿kali)-[~]  
$ ll file1.txt  
-x--x-- 1 kali kali 53 Oct  9 23:27 file1.txt
```

Command diff

```
(kali㉿kali)-[~]  
$ diff file1.txt file2.txt  
4c4  
<  
---  
> everything is not common in both files
```

```
(kali㉿kali)-[~]  
$ echo $PATH  
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/local/games:/usr/games
```

Command cmp

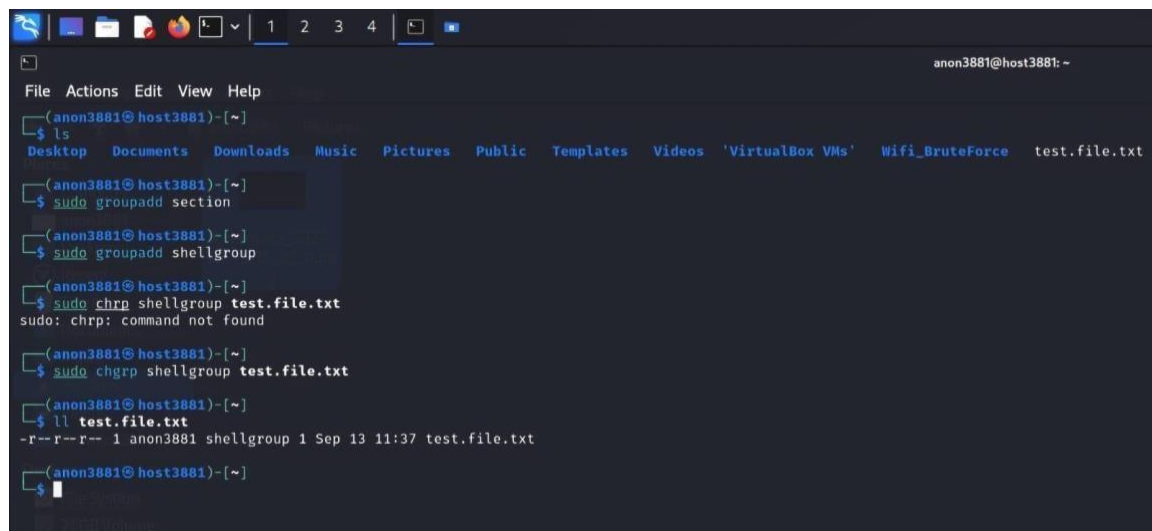
```
(kali㉿kali)-[~]  
$ cmp file1.txt file2.txt  
file1.txt file2.txt differ: byte 53, line 4
```

Command PATH

Command ls -a

```
(kali㉿kali)-[~]  
$ ls -a  
.  
..  
.bash_logout  
.bashrc  
.bashrc.original  
.cache  
.config  
Desktop  
.dmrc  
Documents  
Downloads  
.face  
.face.icon  
file1.txt  
file2.txt  
.gnupg  
.ICEauthority  
.java  
.local  
Music  
number.txt  
Pictures  
.profile  
Public  
shares.txt  
.sudo_as_admin_successful  
Templates  
.vboxclient-clipboard-tty7-control.pid  
.vboxclient-clipboard-tty7-service.pid  
.vboxclient-display-svg-x11-tty7-control.pid
```

Command chgrp



```
File Actions Edit View Help  
(anon3881㉿host3881)-[~]  
$ ls  
Desktop Documents Downloads Music Pictures Public Templates Videos 'VirtualBox VMs' Wifi_BruteForce test.file.txt  
(anon3881㉿host3881)-[~]  
$ sudo groupadd section  
(anon3881㉿host3881)-[~]  
$ sudo groupadd shellgroup  
(anon3881㉿host3881)-[~]  
$ sudo chrp shellgroup test.file.txt  
sudo: chrp: command not found  
(anon3881㉿host3881)-[~]  
$ sudo chgrp shellgroup test.file.txt  
(anon3881㉿host3881)-[~]  
$ ll test.file.txt  
-r--r--r-- 1 anon3881 shellgroup 1 Sep 13 11:37 test.file.txt  
(anon3881㉿host3881)-[~]  
$
```

Command chown

```
File Actions Edit View Help
(anon3881@host3881)-[~]
$ sudo useradd alan

(anon3881@host3881)-[~]
$ ll test.file.txt
-r--r--r-- 1 anon3881 shellgroup 1 Sep 13 11:37 test.file.txt

(anon3881@host3881)-[~]
$ sudo chown anon3881 test.file.txt

(anon3881@host3881)-[~]
$ ll test.file.txt
-r--r--r-- 1 anon3881 shellgroup 1 Sep 13 11:37 test.file.txt

(anon3881@host3881)-[~]
$ sudo chown anon3881:alan test.file.txt

(anon3881@host3881)-[~]
$ ll test.file.txt
-r--r--r-- 1 anon3881 alan 1 Sep 13 11:37 test.file.txt

$
```

Command gzip and gunzip

```
File Actions Edit View Help
(anon3881@host3881)-[~]
$ gzip test.file.txt

(anon3881@host3881)-[~]
$ ll test.file.txt
ls: cannot access 'test.file.txt': No such file or directory

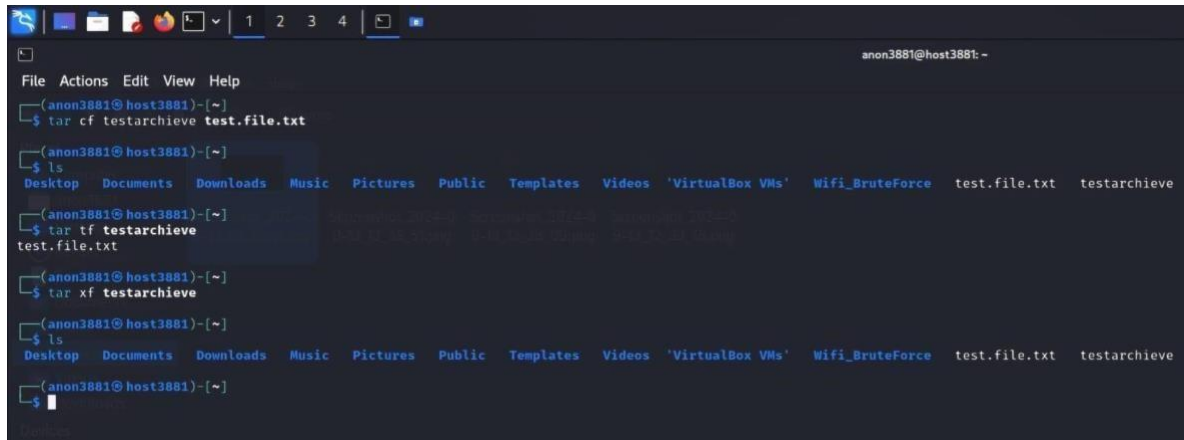
(anon3881@host3881)-[~]
$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos 'VirtualBox VMs' Wifi_BruteForce test.file.txt.gz

(anon3881@host3881)-[~]
$ gunzip test.file.txt

(anon3881@host3881)-[~]
$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos 'VirtualBox VMs' Wifi_BruteForce test.file.txt

$
```

Command tar cf, tar xf, tf

A screenshot of a terminal window with a dark background. The window title is "anon3881@host3881: ~". The terminal shows the following commands and output:

```
(anon3881@host3881)~[~]
$ tar cf testarchive test.file.txt

(anon3881@host3881)~[~]
$ ls
Desktop  Documents  Downloads  Music  Pictures  Public  Templates  Videos  'VirtualBox VMs'  Wifi_BruteForce  test.file.txt  testarchive

(anon3881@host3881)~[~]
$ tar tf testarchive
test.file.txt

(anon3881@host3881)~[~]
$ tar xf testarchive

(anon3881@host3881)~[~]
$ ls
Desktop  Documents  Downloads  Music  Pictures  Public  Templates  Videos  'VirtualBox VMs'  Wifi_BruteForce  test.file.txt  testarchive

(anon3881@host3881)~[~]
$
```

Command tty

```
[root@localhost /]# tty
/dev/hvc0
```

Command 14 :- head

```
[root@localhost /]# head -n2 file3.txt
hello
gus
```

Command 15 :- tail

```
[root@localhost /]# tail -n2 file3.txt
i am a student
of shell
```

Command 23:- sort

```
root@dhruv-virtual-machine:~# sort -n file3.txt
3
4
5
5
5
23
23
45
67
root@dhruv-virtual-machine:~#
```

Command 24:- uniq

```

root@dhruv-virtual-machine:~# cat file4.txt
I love music
I love music
I love music

I love music of arijeet singh
i love music of arijeet singh
^Z
[5]+  Stopped                  cat > file4.txt
root@dhruv-virtual-machine:~# uniq file4.txt
I love music

I love music of arijeet singh
i love music of arijeet singh
root@dhruv-virtual-machine:~#

```

Command 28:- nohup

```

root@dhruv-virtual-machine:~# nohup sort -n file5.txt &
[8] 66380
root@dhruv-virtual-machine:~# nohup: ignoring input and appending output to 'nohup.out'

[8]  Done                  nohup sort -n file5.txt
root@dhruv-virtual-machine:~# cat nohup.out
3
3
4
5
34
34
66
78
678
root@dhruv-virtual-machine:~#

```

Command kill

```

user@debian:~$ ps
  PID TTY          TIME CMD
 2306 pts/0        00:00:00 bash
 2943 pts/0        00:00:00 ps
user@debian:~$ kill 2306
user@debian:~$

```

Command nice

```

user@debian:~$ nice wc -l hello.txt
1 hello.txt
user@debian:~$

```

Command cal


```
[root@localhost /]# cal
      October 2024
Su Mo Tu We Th Fr Sa
                1  2  3  4  5
 6  7  8  9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30 31
```

Command mkdir

```
[root@localhost /]# mkdir dir1
[root@localhost /]# ls
bin  dev  etc  home  lib64  media  opt  root  sbin  sys  usr
boot dir1 file.txt lib  lost+found mnt  proc  run  srv  tmp  var
[root@localhost /]#
```

Command ps

```
user@debian:~$ ps
  PID TTY          TIME CMD
 2302 pts/0        00:00:00 bash
 2325 pts/0        00:00:00 ps
```

Command crontab

```
user@debian:~$ crontab -e
No modification made
user@debian:~$ crontab -l
* * * * * echo "Cron job running at $(date)" >> /home/user/cron_output.txt
user@debian:~$
```

Output-

```
user@debian:~$ cat /home/user/cron_output.txt
Cron job running at Thu Nov 7 04:51:01 PM UTC 2024
Cron job running at Thu Nov 7 04:52:01 PM UTC 2024
Cron job running at Thu Nov 7 04:53:01 PM UTC 2024
user@debian:~$
```