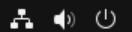


Activities

Terminal

Mar 11 19:00



```
apple@IACSD:~$ exit
exit
dbda@IACSD:/home$ sudo su vivo
vivo@IACSD:/home$ cd vivo
vivo@IACSD:~$ ls
vivo vivo.txt
vivo@IACSD:~$ exit
exit
dbda@IACSD:/home$ sudo su china
china@IACSD:/home$ cd china
china@IACSD:~$ whoami >> china.txt
china@IACSD:~$ exit
exit
dbda@IACSD:/home$ ls
apple cat dbda elephant fish horse jelly lolipop new vivo
banana china dog EVERYONE gun icecream kitkat marshmellow oppo
dbda@IACSD:/home$ cd dbda
dbda@IACSD:~$ sudo addgroup one
Adding group `one' (GID 1005) ...
Done.
dbda@IACSD:~$ sudo addgroup two
Adding group `two' (GID 1006) ...
Done.
dbda@IACSD:~$
```



Home

Activities

Terminal

Mar 11 19:07



```
dbda:x:1000:  
sambashare:x:136:dbda  
dbda1:x:1006:  
tom:x:1001:  
bob:x:1002:  
sam:x:1003:  
prince:x:1004:  
dac1:x:1005:  
dbda2:x:1007:  
ditiss3:x:1008:  
red:x:1009:  
blue:x:1010:  
green:x:1011:  
orange:x:1012:  
dbda@iacsd:~$ sudo usermod -g one oppo  
[sudo] password for dbda:  
usermod: group 'one' does not exist  
dbda@iacsd:~$ sudo addgroup one  
Adding group `one' (GID 1013) ...  
Done.  
dbda@iacsd:~$ sudo addgroup two  
Adding group `two' (GID 1014) ...  
Done.  
dbda@iacsd:~$
```

dbda@iacsd: ~



New Folder



Home

Activities

Terminal

Mar 11 18:59



```
dbda@iacsd: ~$ whoami >> oppo.txt
oppo@iacsd: ~$ cat oppo.txt
oppo
oppo@iacsd: ~$ exit
exit
dbda@iacsd: ~$ su vivo
Password:
vivo@iacsd:/home/dbda$ cd ..
vivo@iacsd:/home$ cd vivo/
vivo@iacsd: ~$ whoami >> vivo.txt
vivo@iacsd: ~$ cat vivo.txt
vivo
vivo@iacsd: ~$ exit
exit
dbda@iacsd: ~$ su china
Password:
china@iacsd:/home/dbda$ cd ..
china@iacsd:/home$ cd china/
china@iacsd: ~$ whoami >> china.txt
china@iacsd: ~$ cat china.txt
china
china@iacsd: ~$ exit
exit
dbda@iacsd: ~$ su china
```



New Folder



Home

Activities

Terminal

Mar 11 18:58



```
dbda@iacsd:~$ su oppo
Password:
oppo@iacsd:/home/dbda$ cd ..
oppo@iacsd:/home$ cd oppo/
oppo@iacsd:~$ whoami >> oppo.txt
oppo@iacsd:~$ cat oppo.txt
oppo
oppo
oppo@iacsd:~$ exit
exit
dbda@iacsd:~$ su vivo
Password:
vivo@iacsd:/home/dbda$ cd ..
vivo@iacsd:/home$ cd vivo/
vivo@iacsd:~$ whoami >> vivo.txt
vivo@iacsd:~$ cat vivo.txt
vivo
vivo
vivo@iacsd:~$ exit
exit
dbda@iacsd:~$ su china
Password:
china@iacsd:/home/dbda$ cd ..
china@iacsd:/home$ cd china/
china@iacsd:~$ whoami >> china.txt
china@iacsd:~$ cat china.txt
```

dbda@iacsd: ~



New Folder



Home

Activities

Terminal

Mar 11 19:00



```
dbda@iacsd: ~$ whoami >> oppo.txt
oppo@iacsd: ~$ cat oppo.txt
oppo
oppo@iacsd: ~$ exit
exit
dbda@iacsd: ~$ su vivo
Password:
vivo@iacsd:/home/dbda$ cd ..
vivo@iacsd:/home$ cd vivo/
vivo@iacsd: ~$ whoami >> vivo.txt
vivo@iacsd: ~$ cat vivo.txt
vivo
vivo@iacsd: ~$ exit
exit
dbda@iacsd: ~$ su china
Password:
china@iacsd:/home/dbda$ cd ..
china@iacsd:/home$ cd china/
china@iacsd: ~$ whoami >> china.txt
china@iacsd: ~$ cat china.txt
china
china@iacsd: ~$ exit
exit
dbda@iacsd: ~$ su china
```



New Folder



Home

Activities

Terminal

Mar 11 18:58



```
exit  
dbda@iacsd:~$ su jelly  
Password:  
su: Authentication failure  
dbda@iacsd:~$ su jelly  
Password:  
jelly@iacsd:/home/dbda$ cd ..  
jelly@iacsd:/home$ cd jelly  
jelly@iacsd:~$ whoami >> jelly.txt  
jelly@iacsd:~$ cat jelly.txt  
jelly  
jelly@iacsd:~$ exit  
exit  
dbda@iacsd:~$ su kitkat  
Password:  
kitkat@iacsd:/home/dbda$ cd ..  
kitkat@iacsd:/home$ cd kitkat/  
kitkat@iacsd:~$ whoami >> kitkat.txt  
kitkat@iacsd:~$ cat kitkat.txt  
kitkat  
kitkat@iacsd:~$ exit  
exit  
dbda@iacsd:~$ su lolipop  
Password:
```



New Folder



Home

Activities

Terminal

Mar 11 18:57



dbda@iacsd: ~



```
fish@iacsd:~$ exit
exit
dbda@iacsd:~$ su gun
Password:
gun@iacsd:/home/dbda$ cd ..
gun@iacsd:/home$ cd gun
gun@iacsd:~$ whoami >> gun.txt
gun@iacsd:~$ cat gun.txt
gun
gun@iacsd:~$ exit
exit
dbda@iacsd:~$ su horse
Password:
horse@iacsd:/home/dbda$ cd ..
horse@iacsd:/home$ cd horse
bash: cd: horse: No such file or directory
horse@iacsd:/home$ cd horse
horse@iacsd:~$ whoami >> horse.txt
horse@iacsd:~$ cat horse.txt
horse
horse@iacsd:~$ exit
exit
dbda@iacsd:~$ su icecream
Password:
```



New Folder



Home

Activities

Terminal

Mar 11 18:57



```
cat@iacsd:~$ exit  
exit  
dbda@iacsd:~$ su dog  
Password:  
dog@iacsd:/home/dbda$ cd ..  
dog@iacsd:/home$ cd dog  
dog@iacsd:~$ whoami >> dog.txt  
dog@iacsd:~$ cat dog.txt  
dog  
dog@iacsd:~$ exit  
exit  
dbda@iacsd:~$ su elephant  
Password:  
elephant@iacsd:/home/dbda$ cd ..  
elephant@iacsd:/home$ cd elephant/  
elephant@iacsd:~$ whoami >> elephant.txt  
elephant@iacsd:~$ cat elephant.txt  
elephant  
elephant@iacsd:~$ exit  
exit  
dbda@iacsd:~$ su fish  
Password:  
fish@iacsd:/home/dbda$ cd ..  
fish@iacsd:/home$ cd fish
```



New Folder



Home

Activities

Terminal

Mar 11 18:56



```
apple@iacsd:~$ whoami >> apple.txt  
apple@iacsd:~$ cat apple.txt
```

```
apple  
apple@iacsd:~$ exit  
exit
```

```
dbda@iacsd:~$ su banana
```

```
Password:
```

```
banana@iacsd:/home/dbda$ cd ..  
banana@iacsd:/home$ cd banana  
banana@iacsd:~$ whoami >> banana.txt  
banana@iacsd:~$ cat banana.txt
```

```
banana
```

```
banana@iacsd:~$ exit
```

```
exit
```

```
dbda@iacsd:~$ su cat
```

```
Password:
```

```
cat@iacsd:/home/dbda$ cd ..  
cat@iacsd:/home$ cd cat  
cat@iacsd:~$ whoami >> cat.txt  
cat@iacsd:~$ cat cat.txt
```

```
cat
```

```
cat@iacsd:~$ exit
```

```
exit
```

```
dbda@iacsd:~$ su dog
```



New Folder



Home

dbda@IACSD: /home



```
root@IACSD:/# cd home
root@IACSD:/home# exit
exit
dbda@IACSD:/ $ cd home
dbda@IACSD:/home$ mkdir EVERYONE
mkdir: cannot create directory 'EVERYONE': Permission denied
dbda@IACSD:/home$ sudo mkdir EVERYONE
dbda@IACSD:/home$ sudo chmod777 EVERYONE
sudo: chmod777: command not found
dbda@IACSD:/home$ sudo chmod 777 EVERYONE
dbda@IACSD:/home$ LS
LS: command not found
dbda@IACSD:/home$ ls -i
1048916 apple    1048982 china   1048932 elephant  1048940 gun       1048952 jelly     1048964 marshmallow 1048978 vivo
1048920 banana   1048578 dbda    1048992 EVERYONE  1048944 horse     1048956 kitkat    1048970 new
1048924 cat      1048928 dog     1048936 fish     1048948 icecream  1048960 lolipop   1048974 oppo
dbda@IACSD:/home$ ls -l
total 76
drwxr-x---  2 apple        red    4096 Mar 11 18:31 apple
drwxr-x---  2 banana       red    4096 Mar 11 18:32 banana
drwxr-x---  2 cat          red    4096 Mar 11 18:32 cat
drwxr-x---  2 china        orange 4096 Mar 11 18:38 china
drwxr-x--- 14 dbda         dbda   4096 Mar 11 18:26 dbda
drwxr-x---  2 dog          red    4096 Mar 11 18:32 dog
drwxr-x---  2 elephant     red    4096 Mar 11 18:33 elephant
drwxrwxrwx  2 root         root   4096 Mar 11 18:43 EVERYONE
drwxr-x---  2 fish          blue   4096 Mar 11 18:33 fish
drwxr-x---  2 gun           blue   4096 Mar 11 18:34 gun
drwxr-x---  2 horse          blue   4096 Mar 11 18:34 horse
drwxr-x---  2 icecream      blue   4096 Mar 11 18:34 icecream
drwxr-x---  2 jelly          green  4096 Mar 11 18:35 jelly
drwxr-x---  2 kitkat         green  4096 Mar 11 18:35 kitkat
drwxr-x---  2 lolipop        green  4096 Mar 11 18:36 lolipop
drwxr-x---  2 marshmallow   green  4096 Mar 11 18:36 marshmallow
drwxr-x---  2 new            orange 4096 Mar 11 18:37 new
drwxr-x---  2 oppo           orange 4096 Mar 11 18:37 oppo
drwxr-x---  2 vivo           orange 4096 Mar 11 18:37 vivo
dbda@IACSD:/home$
```

Activities

Terminal

Mar 11 19:23



49

50

dbda@IACSD:~\$ whatis tac

tac (1) - concatenate and print files in reverse

dbda@IACSD:~\$ tac Numbers.txt

50

49

48

47

46

45

44

43

42

41

40

39

38

37

36

35

34

33

32

31

30

29

28

27

26

25

24

23

22

21

20

19

18

17

16

dbda@IACSD: ~



Activities

Terminal

Mar 11 19:06



vivo@IACSD: ~



```
pulse-access:x:133:  
gdm:x:134:  
lxd:x:135:dbda  
dbda:x:1000:  
sambashare:x:136:dbda  
red:x:1001:  
blue:x:1002:  
green:x:1003:  
orange:x:1004:  
one:x:1005:  
two:x:1006:  
root@IACSD:/home/dbda# su oppo  
oppo@IACSD:/home/dbda$ cd ..  
oppo@IACSD:/home$ cd oppo  
oppo@IACSD:~$ groups  
one  
oppo@IACSD:~$ exit  
exit  
root@IACSD:/home/dbda# su vivo  
vivo@IACSD:/home/dbda$ cd ..  
vivo@IACSD:/home$ cd vivo  
vivo@IACSD:~$ groups  
two  
vivo@IACSD:~$
```



Home



root@IACSD: /



```
systemd-oom:x:108:117:systemd Userspace OOM Killer,,,:/run/systemd:/usr/sbin/nologin
tcpdump:x:109:118::/nonexistent:/usr/sbin/nologin
avahi-autoipd:x:110:119:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologin
usbmux:x:111:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
dnsmasq:x:112:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
kernoops:x:113:65534:Kernel Oops Tracking Daemon,,,:::/usr/sbin/nologin
avahi:x:114:121:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
cups-pk-helper:x:115:122:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin
rtkit:x:116:123:RealtimeKit,,,:/proc:/usr/sbin/nologin
whoopsie:x:117:124::/nonexistent:/bin/false
sssd:x:118:125:SSSD system user,,,:/var/lib/sssd:/usr/sbin/nologin
speech-dispatcher:x:119:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
fwupd-refresh:x:120:126:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin
nm-openvpn:x:121:127:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
saned:x:122:129::/var/lib/saned:/usr/sbin/nologin
colord:x:123:130:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
geoclue:x:124:131::/var/lib/geoclue:/usr/sbin/nologin
pulse:x:125:132:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
gnome-initial-setup:x:126:65534:::/run/gnome-initial-setup:/bin/false
hplip:x:127:7:HPLIP system user,,,:/run/hplip:/bin/false
gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false
dbda:x:1000:1000:DBDA,,,:/home/dbda:/bin/bash
apple:x:1001:1001,,,:/home/apple:/bin/bash
banana:x:1002:1001,,,:/home/banana:/bin/bash
cat:x:1003:1001,,,:/home/cat:/bin/bash
dog:x:1004:1001,,,:/home/dog:/bin/bash
elephant:x:1005:1001,,,:/home/elephant:/bin/bash
fish:x:1006:1002,,,:/home/fish:/bin/bash
gun:x:1007:1002,,,:/home/gun:/bin/bash
horse:x:1008:1002,,,:/home/horse:/bin/bash
icecream:x:1009:1002,,,:/home/icecream:/bin/bash
jelly:x:1010:1003,,,:/home/jelly:/bin/bash
kitkat:x:1011:1003,,,:/home/kitkat:/bin/bash
lolipop:x:1012:1003,,,:/home/lollipop:/bin/bash
marshmallow:x:1013:1003,,,:/home/marshmallow:/bin/bash
new:x:1014:1004,,,:/home/new:/bin/bash
oppo:x:1015:1004,,,:/home/oppo:/bin/bash
vivo:x:1016:1004,,,:/home/vivo:/bin/bash
china:x:1017:1004,,,:/home/china:/bin/bash
root@IACSD:/#
```

Activities

Terminal

Mar 11 18:58



```
apple cat dbda elephant fish horse jelly lollipop new vivo
banana china dog EVERYONE gun icecream kitkat marshmallow oppo
dbda@IACSD:/home$ sudo su apple
[sudo] password for dbda:
apple@IACSD:/home$ cd apple
apple@IACSD:~$ ls
apple.txt
apple@IACSD:~$ exit
exit
dbda@IACSD:/home$ sudo su vivo
vivo@IACSD:/home$ cd vivo
vivo@IACSD:~$ ls
vivo vivo.txt
vivo@IACSD:~$ exit
exit
dbda@IACSD:/home$ sudo su china
china@IACSD:/home$ cd china
china@IACSD:~$ whoami >> china.txt
china@IACSD:~$ exit
exit
dbda@IACSD:/home$ ls
apple cat dbda elephant fish horse jelly lollipop new vivo
banana china dog EVERYONE gun icecream kitkat marshmallow oppo
dbda@IACSD:/home$
```

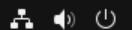


Home

Activities

Terminal

Mar 11 19:22



dbda@IACSD: ~



```
\dbda@IACSD:~$ echo "{1..50}" > Numbers.txt
dbda@IACSD:~$ cat Numbers.txt
{1..50}
dbda@IACSD:~$ rm -r Number.txt
rm: cannot remove 'Number.txt': No such file or directory
dbda@IACSD:~$ rm Number.txt
rm: cannot remove 'Number.txt': No such file or directory
dbda@IACSD:~$ ls
Desktop  Downloads  Numbers.txt  Public  Templates
Documents  Music    Pictures    snap    Videos
dbda@IACSD:~$ rm Numbers.txt
dbda@IACSD:~$ nano Numbers.txt
dbda@IACSD:~$ head -n 15 Numbers.txt
```

```
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
```

```
dbda@IACSD:~$ tail -n 10 Numbers.txt
```

```
41
42
43
44
45
46
47
48
49
50
```

```
dbda@IACSD:~$
```

Activities

Terminal

Mar 11 19:24



24

23

22

21

20

19

18

17

16

15

14

13

12

11

10

9

8

7

6

5

4

3

2

1

dbda@IACSD:~\$ cat Numbers.txt | grep '4'

4

14

24

34

40

41

42

43

44

45

46

47

48

49

dbda@IACSD: ~



dbda@IACSD:~\$



root@IACSD:/home/dbda



```
two:x:1006:  
root@IACSD:/home/dbda# su oppo  
oppo@IACSD:/home/dbda$ cd ..  
oppo@IACSD:/home$ cd oppo  
oppo@IACSD:~$ groups  
one  
oppo@IACSD:~$ exit  
exit  
root@IACSD:/home/dbda# su vivo  
vivo@IACSD:/home/dbda$ cd ..  
vivo@IACSD:/home$ cd vivo  
vivo@IACSD:~$ groups  
two  
vivo@IACSD:~$ exit  
exit  
root@IACSD:/home/dbda# su jelly -- gid27  
bash: gid27: Permission denied  
root@IACSD:/home/dbda# usermod -aG sudo jelly  
root@IACSD:/home/dbda# usermod -aG sudo kitkat  
root@IACSD:/home/dbda# usermod -aG sudo lolipop  
root@IACSD:/home/dbda# usermod -aG sudo marshmellow  
root@IACSD:/home/dbda# usermod -G sudo gun  
root@IACSD:/home/dbda# usermod -G sudo fish  
root@IACSD:/home/dbda#
```



Home



```
root@IACSD: /home/dbda
mentioned by the -G option without removing
the user from other groups
display this help message and exit
new value of the login name
lock the user account
move contents of the home directory to the
new location (use only with -d)
allow using duplicate (non-unique) UID
use encrypted password for the new password
directory to chroot into
prefix directory where are located the /etc/* fi
les
new login shell for the user account
new UID for the user account
unlock the user account
add range of subordinate uids
remove range of subordinate uids
add range of subordinate gids
remove range of subordinate gids
new SELinux user mapping for the user account

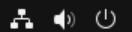
root@IACSD:/home/dbda# usermod -G one fish
root@IACSD:/home/dbda# usermod -G one gun
root@IACSD:/home/dbda#
```



Activities

Terminal

Mar 11 19:29



11

10

9

8

7

6

5

4

3

2

1

dbda@IACSD:~\$ cat Numbers.txt | grep '4'

4

14

24

34

40

41

42

43

44

45

46

47

48

49

dbda@IACSD:~\$ nano Student.txt

dbda@IACSD:~\$ cat Student.txt

Rollno:name:marks

1111:Ram:87

2222:Sham:69

3333:Teena:58

4444:Priya:74

dbda@IACSD:~\$ cat Student.txt | grep 'Sham'

2222:Sham:69

dbda@IACSD:~\$ cat Student.txt | grep 'Priya' | cut -d':' -f3

74

dbda@IACSD:~\$ wc -l Student.txt

5 Student.txt

dbda@IACSD:~\$

dbda@IACSD: ~



Activities

Terminal

Mar 11 19:26



17

16

15

14

13

12

11

10

9

8

7

6

5

4

3

2

1



dbda@IACSD:~\$ cat Numbers.txt | grep '4'

4

14

24

34

40

41

42

43

44

45

46

47

48

49

dbda@IACSD:~\$ nano Student.txt

dbda@IACSD:~\$ cat Student.txt

Rollno:name:marks

1111:Ram:87

2222:Sham:69

3333:Teena:58

4444:Priya:74

dbda@IACSD:~\$