Ganpat University

Faculty of Engineering & Technology

Computer Science & Engineering

(2CSE204) Basics of Operating System and Shell Scripting

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Sem:-   2

Sub: -   BOSS

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Prac:-   5

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Practical 5

Create the following users, groups and group members:

1. User 'Virat', 'Rohit' and 'Shubman' and Group 'cricket'.
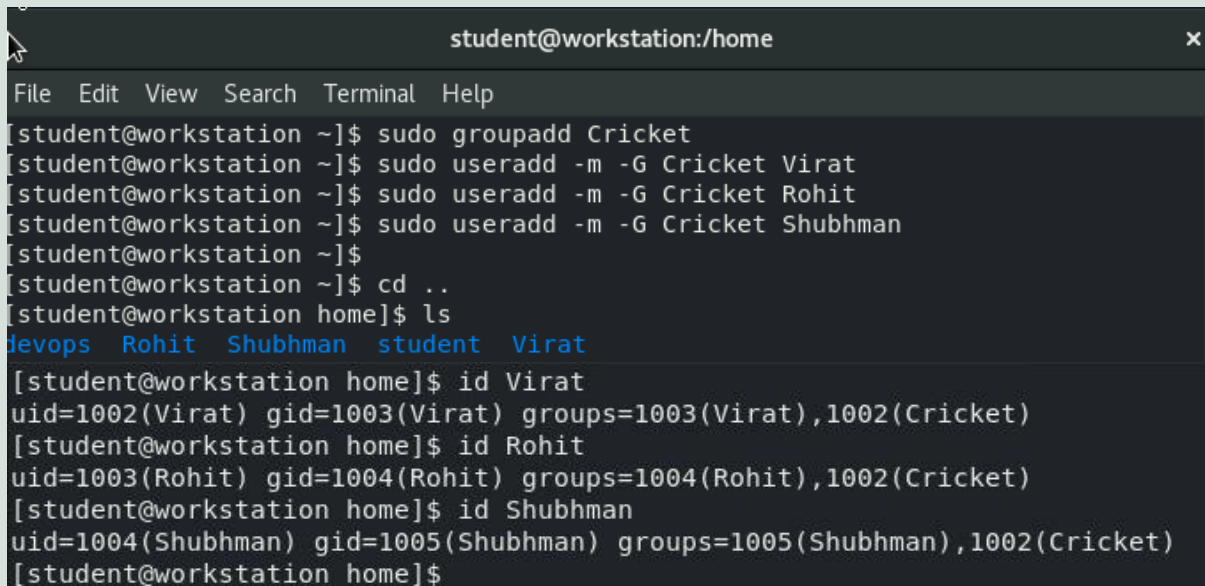
Command:-
sudo groupadd Cricket

sudo useradd -m -G Cricket Virat
sudo useradd -m -G Cricket Rohit
sudo useradd -m -G Cricket Shubman

Screenshot:-

```
                          student@workstation:/home                          ×

File   Edit   View   Search   Terminal   Help
[student@workstation ~]$ sudo groupadd Cricket
[student@workstation ~]$ sudo useradd -m -G Cricket Virat
[student@workstation ~]$ sudo useradd -m -G Cricket Rohit
[student@workstation ~]$ sudo useradd -m -G Cricket Shubhman
[student@workstation ~]$
[student@workstation ~]$ cd ..
[student@workstation home]$ ls
devops   Rohit   Shubhman   student   Virat
[student@workstation home]$ id Virat
uid=1002(Virat) gid=1003(Virat) groups=1003(Virat),1002(Cricket)
[student@workstation home]$ id Rohit
uid=1003(Rohit) gid=1004(Rohit) groups=1004(Rohit),1002(Cricket)
[student@workstation home]$ id Shubhman
uid=1004(Shubhman) gid=1005(Shubhman) groups=1005(Shubhman),1002(Cricket)
[student@workstation home]$
```
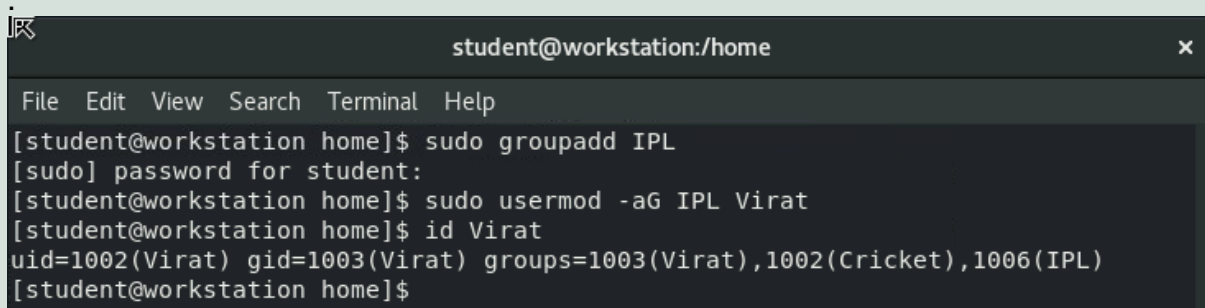
2.   The user 'Virat' belongs to the 'IPL' group as a secondary group

Command:-
sudo groupadd IPL
sudo usermod -aG IPL Virat

Screenshot:-
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```
                          student@workstation:/home                          ×

File   Edit   View   Search   Terminal   Help
[student@workstation home]$ sudo groupadd IPL
[sudo] password for student:
[student@workstation home]$ sudo usermod -aG IPL Virat
[student@workstation home]$ id Virat
uid=1002(Virat) gid=1003(Virat) groups=1003(Virat),1002(Cricket),1006(IPL)
[student@workstation home]$
```

3.   For User 'Rohit', 'cricket' group should be primary and 'IPL' should be secondary.

Command:-
sudo usermod -g cricket -aG IPL Rohit

Screenshot:-

4. 'Virat', 'Rohit', and 'Shubman' should have password "batsman"

Command:-
sudo passwd Virat
sudo passwd Rohit
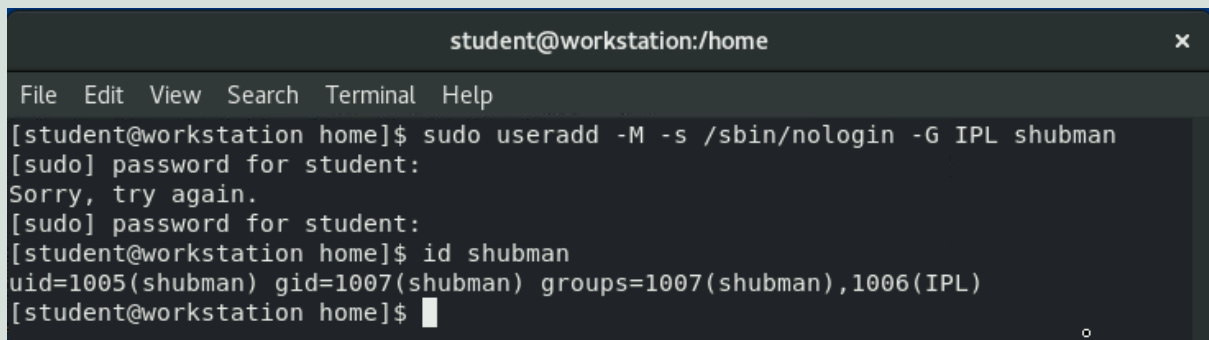sudo passwd Shubman

password:- batsman

Screenshot:-

5. User 'Shubman' who does not have access to interactive shell on the system and who is also a member of 'IPL' group.

Command:-

sudo useradd -M -s /sbin/nologin -G IPL shubman

Screenshot:-

Create the following users, groups and group members:
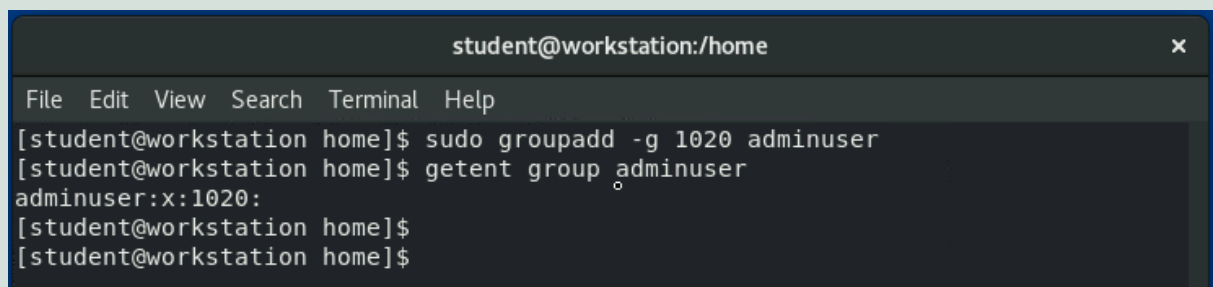
1. A group named adminuser with groupid 1020.

   Command:-
   sudo groupadd -g 1020 adminuser

   getent group adminuser

   Screenshot:-

2. A user named woody, which belongs to the adminuser, this group is the user's primary group

Command:-
sudo useradd -g adminuser woody

id woody

Screenshot:-

```
                        student@workstation:/home                        ✕

 File  Edit  View  Search  Terminal  Help

[student@workstation home]$ sudo useradd -g adminuser woody
[student@workstation home]$ id woody
uid=1006(woody) gid=1020(adminuser) groups=1020(adminuser)
[student@workstation home]$ █
```

3. A user named buzz, belonging to the adminuser, is a supplementary group for the user

Command:-
sudo useradd -G adminuser buzz

id buzz

Screenshot:-

```
                        student@workstation:/home                        ✕

 File  Edit  View  Search  Terminal  Help

[student@workstation home]$ sudo useradd -G adminuser buzz
[student@workstation home]$ id b
bin    buzz
[student@workstation home]$ id buzz°
uid=1007(buzz) gid=1021(buzz) groups=1021(buzz),1020(adminuser)
[student@workstation home]$
```

4. Users woody, buzz, and sid, the password should be set to "password321"

Command:-
sudo passwd woody
sudo passwd buzz
sudo useradd -g adminuser sid
sudo passwd sid

password:-   password321

Screenshot:-

```
student@workstation:/home                                    ×

File  Edit  View  Search  Terminal  Help
[student@workstation home]$ sudo passwd woody
Changing password for user woody.
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary
word
Retype new password:
passwd: all authentication tokens updated successfully.
[student@workstation home]$ sudo passwd buzz
Changing password for user buzz.
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary
word
Retype new password:
passwd: all authentication tokens updated successfully.
[student@workstation home]$ id sid
id: 'sid': no such user
[student@workstation home]$ sudo useradd -g adminuser sid
[student@workstation home]$ sudo passwd sid
Changing password for user sid.
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary
word
Retype new password:
passwd: all authentication tokens updated successfully.
[student@workstation home]$
```

5.   A user named sid, which has no interactive shell in the system and is not a member of the admin user group

Command:-
Sudo userdel -r sid
sudo useradd -M -s /sbin/nologin sid

Screenshot:-


```
student@workstation:/home                                    ×

File  Edit  View  Search  Terminal  Help
[student@workstation home]$ sudo userdel -r s
saslauth          shutdown          sssd              systemd-coredump
setroubleshoot    sid               student           systemd-resolve
shubman           sshd              sync
[student@workstation home]$ sudo userdel -r sid
[student@workstation home]$ ls
buzz  devops  Rohit  Shubhman  student  Virat  woody
[student@workstation home]$ sudo useradd -M -s /sbin/nologin sid
[student@workstation home]$ ls
buzz  devops  Rohit  Shubhman  student  Virat  woody
```