

SOP of USER MANAGEMENT.

Key responsibilities:

1. Creating, modifying, and deleting user accounts.
2. Managing user groups and permissions.
3. Ensuring passwords policies are followed.
4. Locking/unlocking users.
5. Monitoring user activity and login information.

1- Creating user accounts.

```
[root@Sipl-204 ~]# useradd -m satyajeetd
[root@Sipl-204 ~]# _
```

useradd : create a new user.

-e, --expiredate	The date on which the user account will be disabled. Format YYYY-MM-DD
-f, --inactive	The number of days after the password expires until the account is permanently disabled.
-g, --gid	The group name or number of the user's initial login group. (Primary)
-G, --groups	A list of supplementary group which the user is also a member. (Secondary)
-m, --create-home	Create user's home directory if it does not exist.
-u, --uid	The numerical value of the user's ID. Value must be unique, unless the -o option is used.
-s, --shell	The name of a new user's login shell. (/etc/default/useradd)
-U, --user-group	Create a group with the same name as the user.

2- Modifying user account.

Usermod

```
[root@Sipl-204 ~]# usermod -aG kaustubhj kaustubh
[root@Sipl-204 ~]# _
```

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-a, --append	Add the user to the supplementary groups. Use only with the -G option
-d, --home	The user's new login directory.
-e, --expiredate	The date on which the user account will be disabled.
-g, --gid	The group name or number of the user's new initial login group. The group must exist.
-G, --groups	A list of supplementary groups which the user is also a member of. Each group is separated from the next by a comma, with no intervening whitespace.
-L, --lock	Lock a user's password. This puts a '!' in front of the encrypted password, effectively disabling the password.
-o, --non-unique	When used with the -u option, this option allows to change the user ID to a non-unique value.

3- Remove user

Userdel

```
[root@Sipl-204 ~]# useradd satyajeet
[root@Sipl-204 ~]# userdel -r satyajeet
[root@Sipl-204 ~]# _
```

-r	Remove user and home directory
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4. passwd – Set or change user password

```
[root@Sipl-204 ~]# passwd satyajeet
Changing password for user satyajeet.
New password:
BAD PASSWORD: The password is shorter than 12 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[root@Sipl-204 ~]# _
```

-l	Lock account
-u	Unlock Account
-e	Expire password
-d	Delete password

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GROUP MANAGEMENT

1 . groupadd – Add a new group.

-g Specify GID

```
[root@Sipl-204 ~]# groupadd devops
[root@Sipl-204 ~]# _
```

2. groupdel devops

```
[root@Sipl-204 ~]# groupdel devops
[root@Sipl-204 ~]# _
```

3. gpasswd – Manage group membership

```
[root@Sipl-204 ~]# gpasswd -a satyajeet devops
Adding user satyajeet to group devops
[root@Sipl-204 ~]# _
```

gpasswd -a kaustubh devops	Add user to group
gpasswd -d kaustubh devops	Remove user from group
gpasswd devops	Change group password

4. Viewing and Verifying

Command	Purpose	Example
id kaustubh	Show UID, GID, groups	id kaustubh
groups kaustubh	List user groups	groups kaustubh
getent passwd kaustubh	Show passwd entry	getent passwd kaustubh
getent group devops	Show group entry	getent group devops
cat /etc/passwd	List all users	cat /etc/passwd
cat /etc/group	List all groups	cat /etc/group
lastlog	Show last logins	lastlog
chage -l kaustubh	Show password aging	chage -l kaustubh

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5. Password Aging with chage

```
[root@Sipl-204 ~]# chage -l kaustubh
Last password change           : Apr 11, 2025
Password expires               : never
Password inactive              : never
Account expires                : never
Minimum number of days between password change : 0
Maximum number of days between password change : 99999
Number of days of warning before password expires : 7
[root@Sipl-204 ~]# _
```

Option	Description	Example
-l	List aging info	chage -l kaustubh
-M	Max days between changes	chage -M 90 kaustubh
-m	Min days between changes	chage -m 1 kaustubh
-W	Warning before expiry	chage -W 7 kaustubh
-E	Expiration date	chage -E 2025-12-31 kaustubh

6. Lock/Unlock Accounts

```
[root@Sipl-204 ~]# passwd -l aavishkar
Locking password for user aavishkar.
passwd: Success
[root@Sipl-204 ~]# _
```

Command	Action
passwd -l kaustubh	Lock account
passwd -u kaustubh	Unlock account
usermod -L kaustubh	Lock account
usermod -U kaustubh	Unlock account