\* Linux Users (User ID)

1 - root (0)

2 - service users (from 1 to 999)

3 - normal users (starting from 1000+)

Command: ps aux

Description: prints all the system processes

Command: useradd [username]

Description: creates new user with the specified username

Command: cat /etc/passwd

Description: prints all the users in the system

username:password:userid:primarygroupid:alias:user directory: user default shell directory

Command: cat /etc/shadow

Description: prints all the passwords of the users but encrypted

Command: passwd [username]

Description: change password for a specified user

Command: which bash

Description: prints the path of user bash

Command: useradd [username] -c [alias] -s [default shell path]

Description: creates new user and set his alias & default user shell

Command: useradd [username] -p [user password] -u [user id]

Description: creates new user and set his password and user id

Command: useradd [username] -e [date] ex: useradd ahmed -e 2021-12-31

Description: creates new user and set its expiration date

Command: usermod [username] -c [alias] -s [default shell path]

Description: modifies the alias and default shell of existing user

Command: usermod --help

Description: to display all the options of modifying user account info

Command: id

Description: displays current user info

Command: id [username]

Description: displays the info of the specified user name

Command: id -u [username]

Description: displays only the user id of the specified username

Command: groupadd [group name]

Description: creates new group

Command: groupmod [group name] -g [group id]

Description: modifies the group id

Command: cat /etc/group

Description: prints all the existing groups

groupname:user password:group id:included users in the group

Command: usermod [username] -G [group name]

Description: add the specified user to the specified group

as a secondary group for this user by overriding

Command: usermod [username] -aG [group name]

Description: add the specified user to the specified group as a secondary group for this user by appending

Command: usermod [username] -s [shell path]

ex: usermod ahmed -s /usr/sbin/nologin

Description: this command makes the user has no shell and also has no login access

Command: groupmod -n [new name] [old name]

Description: modifies the name of the group

Command: su [username]

Description: switch to this username

Command: su - [username]

Description: switch to this username and go to its default home directory

Command: exit

Description: means logout and switch to the previous user

Command: sudo

Description: a word to force the command as if you are root

Command: sudo passwd [username]

Description: change password of another user

Command: sudo apt update

Description: update all the indices of apt repositories

Command: vim /etc/sudoers

Description: this file contains the privilages of the users

Command: usermod -L [username]

Description: lock the specified user

Command: usermod -U [username]

Description: unlock the specified user

Command: userdel [username]

Description: delete the specified user without user default directory

Command: userdel -r [username]

Description: delete the specified user and the user default directory

Command: groupdel [group name]

Description: delete the specified group

Command: name=ahmed

Description: create new variable and assign to it value 'ahmed'

Command: echo $[varname] ex: echo $ahmed

Description: prints the value of the specified variable

Command: ex: echo "my name is $name"

Description: using variable inside double quotes, prints my name is ahmed

Command: ln [target file] [link]

Description: creates hard link for the target file

Command: ln -s [target file] [link]

Description: create a soft link for the target file

Command: ls -li [file1] [file2] ...

Description: list the specified files in long list format

inode:type&permission:links:owner user:owner group:size:timestamp:file name