# Chapter 4: - Graphical interface

## \* Learning objective

- -> By the end of this chapter, you should be able to:
  - · manage graphical interface sessions
  - · Perform basic operation using the graphical interface
    - · change the graphical desixtop to suit

#### \* Graphical Desktop

- -> You can use either a command Line interface (CUI) or graphical user interface (CUI) when using linux.
- -> To work at CLI, you have to remember which Programs and commands are used to Perform task, and how quickly and accurate obtain more information about their use and options.
- -> on the other hand, using the GUI is often quick and east.
  - -> It allows you to interact with four system
    through graphical icons and screens.
  - Tor repititive task, the CII is is often more efficient, while GUI is easier to havingte if you do not remember all the details or do something only rarely.

V+x Lye / Ly)

#### \* X windows system

- -> Loading the graphical desktop is one of the final steps in boot Process of linux desktop.
  - -> Historically, this was known as the x windows system, often Just conted
  - -> A Service called the Display manager keeps

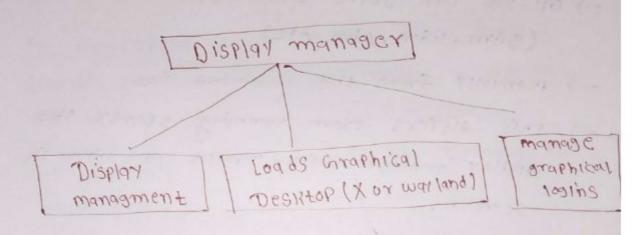
    track of the display being Provided

    and load X server ( so-called, because

    it provides graphical service to

    applications, sometime called X client)
    - -> The display manager also handles graphical login and starts the appropriate desktop environment after user 1995 in.
      - -> X is rather old software it dates back to the mid 1980's and 1 98 such, has certain deficiencies on morden system ( for example with security)
      - -) as it has been stretched rather for from its original Purpose.

- -> A newer system known as warland, is gradually supersending it and is the default display system of Fedora, THEL and other distributions.
  - -> For the most Part, it looks just like x to the user although under the hood it is quite different.



- \* More About the graphical Desktop
- -> A desktop environment consists of a session manager, which starts and maintains the components of the graphical session, and the window manager, which controls the Placement and movement of windows, windows tital-bars, and controls.
  - -> Although this can be mixed, generally a set of Utilities, segsion manager, and windows manager are used together as a unit and together provide a seamless desirtor environment.

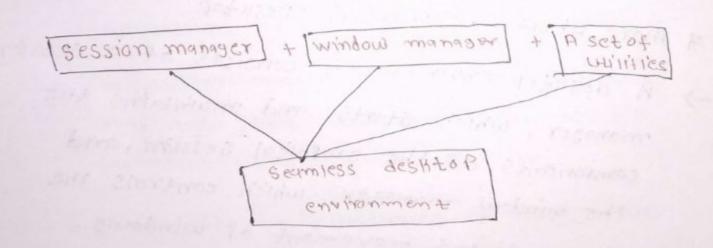
- -) If the display manager is not started by default in the defult rumevel, you can start the graphical desirtop diffrent way,
  - -> After logging on to a text mode console

    by running startx from the command line.

    -> OR you can start the display manager
  - -> manually from the command line

(gam, Ham, xam etc)

-> This differs from running starty the display monager will Project a sign in Streen.



#### \* GUI Start UP

- -> When you install a desktop environment, the display manager starts at the end of the boot Process.
- -> It is responsible for starting the listers the graphic statem, logging in the user and starting the user's desiltop environment.
  - -) you can often select from a a choice of desittop environment when lossing in to the system.
- -) The default display manager for anome is called gam.
- -> Another Popular displat manager is itom.
  associated with INDE.

### \* CONOME DESKTOP Environment

- -> GNOME is a Popular desktop environment with an easy-to-use graphical user interface.
- -> It is bundled as the default desixtop

  environment for most linux distribution

  including Red Hat Enterprise Linux (RHEL)

  Fedora, centos, SUSE Linux Enterprise

  Ubynty and Debian.
- -> GROWE has mena-based navigation and is sometimes an easy transition to accomplish for windows user.
- -> How ever, the look and feel can be quite diffrent across distributions even if they are an using GNOME.
- -> Amother Common desixtop environment very important in the history of linux and also widely used is knot
  - -1 which has often been used in consuction with suse and opensuse.
  - -> Other alternatives for desistor environment include unity ( Present on older ubunty but still based on Chrome). XFCE and LXDE.

-) As Previosly mentioned, most desitop environma follow similar structure to GNOME, and we will restrict ourself mostly to it to keep things less complex.

### \* Graphical Desktop Background

- -> Each Limux distribution comes with it's own set of desixtop backgrounds.
  - -> You can change the default by choosing new wallfaper, of seketing a custome Picture to be set as the defistop background.
  - -> If you do not want to use an image as the background, you can select a color to be displayed on the desiltop instead.
  - -> In addition, you can also change the desktop
    theme, which changes the looks and feel for
    lings 51stem
  - -> The theme also defines the appearance of application windows.
- \* cystomizing the Desitor Background
- -> To change the background, you can right change background,

- -> most common settings, both Personal and system-wide are to be found by clicking in the upper-hand corner on either gear or other obtions icon, depending on your lines distribution.
- -> However, there are many settings which many users would like to modify which are not thereby accessible
- -> The defualt setting utility is unfortunately rather limited in morden apome-based distribution.
  - -> Unfortynately the guest for simplicity
    has made it difficult to adapt your
    system to your tastes and needs.
  - -> Fortunglely, there is a standard utility, gnome-tweaks, which exposes many more setting options.
    - -> It also permits you to easily install extensions by external Parties.
      - -> Not all limyx distribution install this lool by default, but it always available colder distribution used the name gnome-tweak-tool).

- -> you may have to run it by hiting Alt-F2
  and then tilling in the name.
  - -> you may want to add it to your favorites
    list, as we shall discuss.
  - -1 Some recent distribution have taken most of functionality out of this tool and placed it in a new one called gnome-extensions app.