Unix

Unix is Operating system.

Initially developed in 1960 and release in 1971.

With several enhancement and improvements to base version, several flavours introduced by organization/companies.

(Redhat, Linux, Ubuntu, centos..etc). Mac

Linux and Unix are different but they do have a relationship with each other as Linux is derived from Unix. Linux is not Unix

Characteristics of Unix:
1. It is freeware.
2. It is open source.
   The source code how the commands are implemented we can see. We can customize source code based on our requirement. Velocity== >customize source code== > Velocity Flavour.
   It is Foss == > Freeware and Open Source Software
3. Multi user operating system : Unix can be used by multiple users simultaneously.
4. Multitasking : In Unix , multiple task can be executed simultaneously.

Windows is GUI based..(Graphical User Interface)

Unix???.. CUI (Character User Interface)

CLI – Command Line Interface The command line interface is an interface to your operating system. Using a command line interface, you can look create, read, update and delete files.

Flavours of Unix :

HP-UX.

SunOS and Solaris.

IRIX.

Digital UNIX (formerly OSF/1)

SCO Unix.

Linux.

Components of Unix :

1. Shell : - Terminal—It receives the command.

The shell can be defined as an interface of a command-line that interprets the script files and commands of a user in the Linux system and tells the operating system of the server how to act with them.
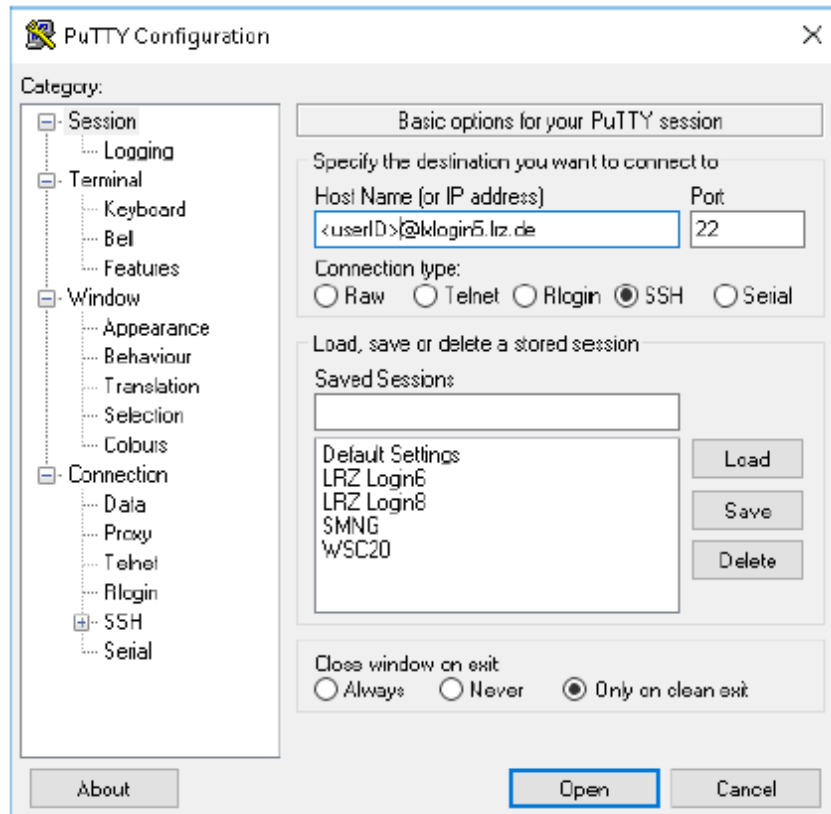
The terminal is a way to interactively communicate with the computer. You type in a so-called —command‖ and then hit the Return-key to send your instruction.

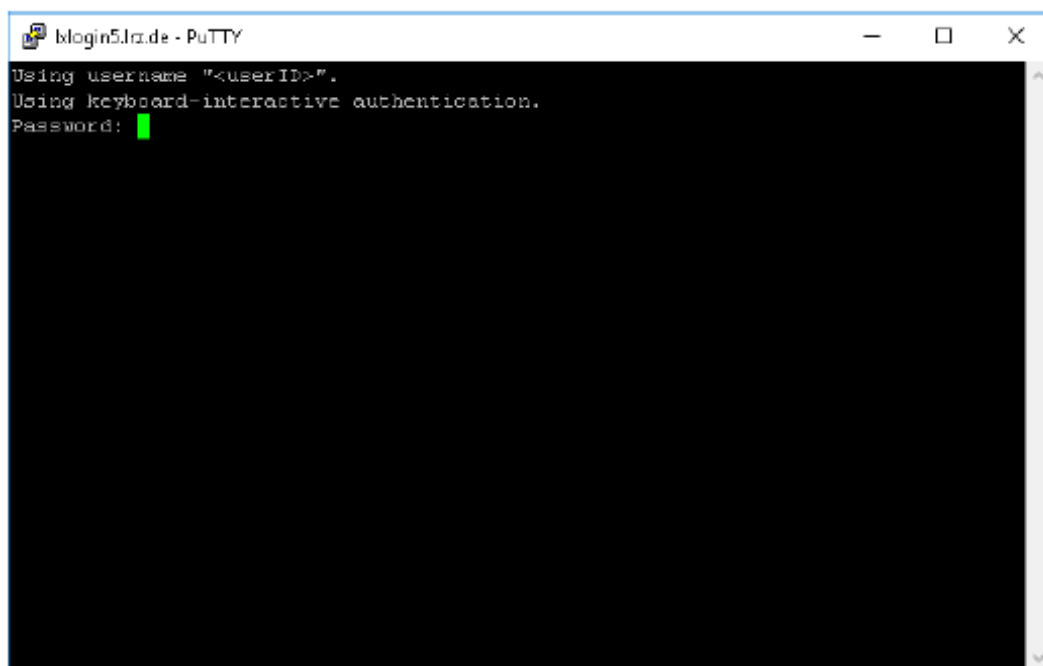Shell is used whether the command is properly used or not.

2. Kernel :Core of the Unix. Its memory resident program.
It manages the entire resources of the system, presenting them to you. It manages machine memory and allocating of memory to the process.

Putty :

Click on Open...It will ask for UN and Pwd.

Then your terminal will get start.

Putty :

Free and open source terminal.

It supports several protocols, SSH, Telnet, SCP, rlogin and raw socket. It can also connect to serial port.

Hostname or IP address :

An IP address is logical numeric address that is assigned to every computer, printer or device. A hostname is label assigned to a network that transfers the user to a specific website.
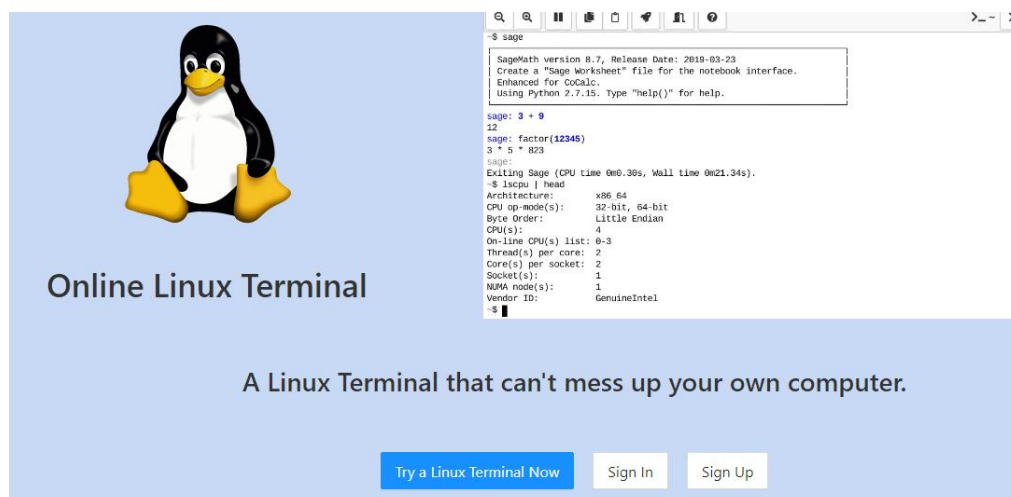
Port :

A port number a way to identify a specific process id to which internet or other network message is to be send or receives.

Then click on Open Button... Putty Terminal will get open Unix virtual Terminal...

Cocalc unix VT..

Signup.. Project..

New Terminal.. Commands..

Online Linux Terminal

A Linux Terminal that can't mess up your own computer.

Create Project...

Click on New..

Select Linux Terminal..

1. Cal : Displays the calendar. Syntax : cal
2. Date :Displays system date and time. Syntax : date

What is an operating system?

An operating system is a control program for a computer of computers.

Its purpose is to allocate computer resources and schedule tasks.

It determines how the computer is to operate