

**WELCOME TO:
MODULE 1**

**UNDERSTANDING LINUX
CONCEPTS**

WHAT IS LINUX?



Linux is an Operating System which sits in the middle of your hardware and users



Unix vs. Linux

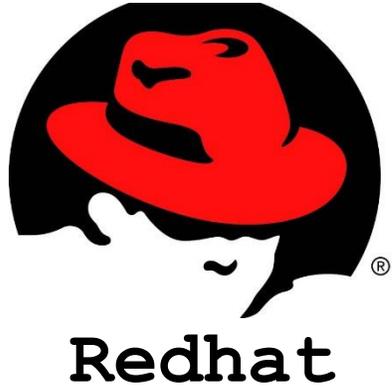
- Unix was first developed for multi-user and multi-tasking in mid-1970 in Bell Labs by ATT, GE and Massachusetts institute of Technology
- Then born Linux in 1991 by Linus Torvalds
- Linux is mostly free
- Linux is open source
- Unix is mostly used by Sun as Solaris, HP-UX, AIX etc.
- Linux is used by many developers community or companies (Redhat, CentOS, Debian) etc.
- Unix comparatively supports very fewer File systems
- Linux can be installed on a wide variety of computer hardware, ranging from mobile phones, tablets, video game consoles, to mainframes and supercomputers.

114 LINUX COMMANDS

LINUX VS. WINDOWS

| | Linux | Windows |
|---------------|---|---|
| Price | Free | \$\$\$ |
| Ease | Not user-friendly | User friendly |
| Reliability | Very reliable. Often runs for months or years | Often requires reboot |
| Software | Mostly enterprise level softwares | Much larger selection of softwares e.g. office, games, utilities etc. |
| Multi-tasking | Best for multi-tasking | Multi-tasking is available but with very high cpu or memory resources |
| Security | Very secure | Some what secure |
| Open source | Open to public | No an open source OS |

LINUX DISTRIBUTIONS



Linux Users

- US Government and Agencies (National, State, Federal and International)
- NASA
- Health Care
- The Bullet Trains in Japan runs at the speed of 150-215 m/h
- Traffic Control
- Financial Institutes e.g. NYSE
- Entertainment industries (Cinemas, Production houses etc.)
- World e-commerce leaders, including Amazon, eBay, PayPal, and Walmart run their platform on Linux
- Other fortune 500 companies e.g. Google, IBM, McDonalds, Facebook etc.