



Network Simulator 2 (Linux basics)



• Linux: Introduction

•Linux: Architecture

•Linux: Basic Commands

•Starting and handling NS2

•Exploring example scripts



Linux is a free Unix-type operating system developed under the GNU General Public License. Linux is a multi-user, multi-tasking operating system.

The features of Linux are:

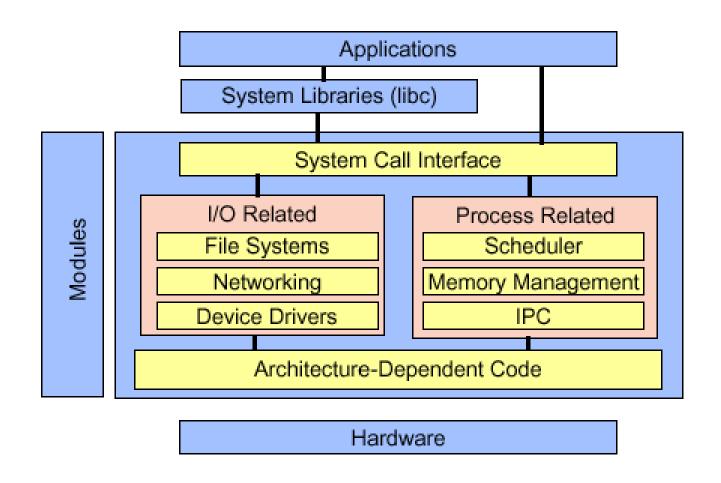
- Open source
- Multiuser
- Multi-tasking
- Support for multiple platforms.

In 1991 Linus Torvalds wrote first version of Linux kernel

Linus' UNIX= Linux



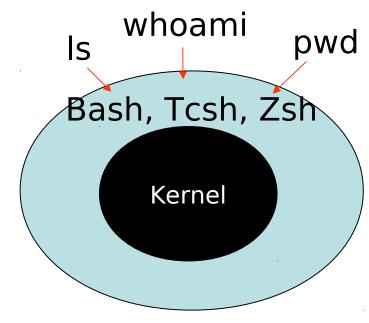
Architecture: Programmer's Viewpoint







- Shell interprets the command and request service from kernel
- Similar to DOS but DOS has only one set of interface while Linux can select different shell
 - Bourne Again shell (Bash), TC shell (Tcsh), Z shell (Zsh)



- Different shell has similar but different functionality
- **Bash** is the default for Linux
- Graphical user interface of Linux is in fact an application program work on the shell



Linux is a command based system. Basic commands of Linux are:

1. date

Shows current date.

2. who

Shows the current user profile of the system.

3. pwd

Shows current working directory.

4. cal

Shows the calender of current month

5. Is

Shows the content of directory.

Linux: Basic Commands contd...

6. cd

Changes the directory to the specified name.

7. mkdir

Make the new directory with the specified name.

8. cd ..

Comes out of the current directory.

9. cd /

Comes out of all directories and go to the root folder.

10. rmdir

Removes the specified directory.

10.1. rmdir abc -v

-- Gives the message about making directory.

Linux: Basic Commands contd...

11. clear

Clears the screen of the terminal.

12. echo

 Prints the specified msg on the screen. (for ex: echo training will print 'training' on the terminal screen.)

13. ps

Displays the currently runings processes.

14. pstree

Displays the process treee with hierarchy stracture.

15. top

-- Displays top running processes of the system.

16. vim

Vi improved editor to write text files.

Linux: Basic Commands contd...

17. cat

Shows the content of the file. (ex. Cat first.c)

18. rm

Delete the specified file.

19. gedit

Opens editor for text files.

20. df

To see the available disk space

21. help

Gives help on specified topic.

22. man

Used for manual help on particular command. (ex: man rmdir)



Showing practically on terminal...



Showing practically on terminal by running given example scripts within Tcl folder of ns2...



To be continued...



THANK YOU!