

# Filesystem and shell

## IT WS I - Lecture 2

Saurabh Barjatiya

International Institute Of Information Technology, Hyderabad

22 July, 2011



# Contents

- 1 Filesystem
  - About files / directories
  - Working with files / directories
- 2 Introduction to shell
  - Shell commands



# About files / directories

- What is file?
- What is directory?
- Windows Drives
- Linux root
- Path
  - Absolute path
  - Relative path



# Working with files / directories

- Creating / Editing / Deleting simple text files using GUI editor
- Cut / Copy / Paste text
- Creating / Deleting / Moving directories
- Information of file size / folder size
- Zipping files, Creating .zip, .tar, .tar.gz, .tar.bz2
- Extracting .tar / .tar.gz / .tar.bz2 les
- Explain storage units like bits, bytes, nibble, KB, MB, GB
- Data transfer units bits/sec and storage device specication units.



# Contents

- 1 Filesystem
  - About files / directories
  - Working with files / directories
- 2 Introduction to shell
  - Shell commands



# Shell commands - 1

- `ls`, `ls -l`, `ls -a`
- `mkdir`, `mkdir -p`
- `rmdir`
- `touch`
- `rm`, `rm -r`, `rm -f`
- `cd`
- `echo`
- `clear`



# Shell commands - 2

- gedit (Not shell command, GUI editor)
- tree
- mv
- cp, cp -r
- cat
- more
- less
- head, head -<number>
- tail, tail -<number>
- wc



# Shell commands - 3

- `du`, `du -s`, `du -h`, `du -sh`
- `tar cvf` `tar xvf`
- `gzip`
- `gunzip`
- `bzip2`
- `bunzip2`





# Shell commands - 4

- man
- apropos
- find
- locate
- cut
- history
- diff



# Shell commands - 5

- w
- who
- whoami
- /sbin/ifconfig
- ping
- free, free -m
- script
- df, df -h



# Shell commands - 6

- ssh
- scp
- passwd

