



Basics of Linux Based Operating Systems

-Sanket Mehta

Few instructions



- Ask questions
 - Asking questions is THE way to learn
- Let this be an interactive session
- You can leave the class anytime
- You can even sleep if you want
- Its not like am teaching you something, we all are learning collaboratively, so don't hesitate to correct me or suggest something.

Agenda for the session



- Some interesting softwares
 - How to install a new application?
 - Comparison with windows softwares
- Some useful commands
 - Basics of command-line
 - Basic commands
 - Demo of an opensource software
- VIM – a text editor
 - Basic commands
 - Some interesting and very useful commands

How to install softwares?



- Apt-get tool (Advanced packaging tool)
- Ubuntu software center

Some interesting softwares



- MS office Vs Libreoffice / Openoffice
- Photoshop Vs Gimp
- MS paint Vs Mypaint/GNU paint
- Notepad/wordpad/notepad++ Vs vim/emacs/gedit
- Gtypist, wine, virtualbox, eclipse, netbeans
- Games, file sharing applications etc.



Lets play a small game.. :)

Basics of command-line



- New terminal : Ctrl + Alt + t
- New tab : Ctrl + Shift + t
- Close terminal : Ctrl + d / exit
- Zoom in : Ctrl + Shift + "+"
- Zoom out : Ctrl + "-"

Some basic commands



- pwd
- ls
- cat
- cd
- mkdir
- rmdir
- rm
- cal
- Time
- whatis
- man
- date
- mv
- cp
- fortune
- file
- alias
- sl
- mysql

VIM – A text editor



- Advantages of using vim
 - Faster coding
 - Least use of mouse
 - Portable
- Vim has many modes, lets see two of them :
 - Insert mode (i)
 - Command mode (esc)

USEFUL VIM COMMANDS



- Vim filename To open a file
- :q To close a file
- :w <filename> To save/ save as
- dd To delete a line
- x To delete a character
- yy To copy(yank) a line
- p To paste data
- :%s/source/dest To Replace source with dest
- :<line_num> To jump to particular line
- m<char> To mark current line

USEFUL VIM COMMANDS



- `u` To Undo changes
- `Ctrl + R` To Redo Changes
- `:set autoindent` To set auto-indentation
- `:set number` To show line numbers
- `/<pattern>` To search for particular pattern
- `:set hlsearch` Highlight all the matched patterns
- `:set incsearch` Highlighting search while typing
- `!:<command>` To execute Terminal Command
- `r<char>` To replace character with <char>

Some interesting and very useful commands



- Indentation
 - =
 - Ctrl + t and Ctrl + d
 - Shift + >> and Shift + <<
- Opening multiple files
 - -p, :tabedit
 - -o, -O, Ctrl + w Ctrl + w, :sp, :vsp
- Man pages
 - Shift + k
- Open a file
 - gf

Some interesting and very useful commands



- Terminal commands
 - `:!<command>`
 - `:r!<command>`
- Spell check
 - `:set spell`
 - `:set nospell`
- Macros
- Vim plugins
 - Cvim, DrawIt, cscope, CCTree, taglist, mru.vim

Feel free to contact me



Mehta Sanket Satish

+91 8149 893 428

mehtasankets@gmail.com

www.facebook.com/mehtasankets

www.twitter.com/mehtass

Link to my blog :

mehtasankets.wordpress.com

If you want this presentation :

https://github.com/mehtasankets/ms_2012/downloads

ubuntu