Trainer: Sameer Gautam

Syllabus: MAC OSX & Terminal

Training Objectives:

At the end of this training, you will be able to:

- 1. Get acquainted with Mac OS X UI and basic operation
- 2. Use terminal and its basic commands.

Introduction to Mac OS X:

- 1. What is Mac OS X, Why Mac?
- 2. The Desktop
- 3. The Dock
- 4. Dashboard
- 5. The Finder Window.
- 6. Navigating Menus and How to Use Windows, Icons
- 7. Creating, Deleting, Renaming Folders
- 8. Selecting, Moving and Copying Files
- 9. System Preferences
- 10. Finding Files, Spotlight and MAC Fonts
- 11. Application Menu, Installing and Uninstalling Application
- 12. Linux Terminal

Overview of Linux Terminal:

- 1. What is Linux Terminal? Why Linux Terminal?
- 2. Basic Linux Commands:
 - a. whoami: Print login id of current user
 - b. hostname: Print name of current host (computer)
 - c. users: Print user names of all users on current host
 - d. pwd: Print present working directory (where am I?)
 - e. cd dir: Change directory to dir
 - f. cd ~: Change directory to user's home directory (~)
 - g. Is: List files in the current directory
 - h. Is -alst: List files with lots of useful information
 - i. Is dir: List files in the directory dir
 - j. mkdir dir: Make a directory named dir
 - k. rmdir dir: Remove the directory named dir (must be empty)
 - I. vim file: Use vim to edit the given file
 - m. cat file: Print (concatenate) the file(s) to standard output
 - n. less file: Print the file, one page at a time
 - o. cp file1 file2 Copy file1 to file2
 - p. cp -r dir1 dir2 Copy (recursively) directory dir1 to dir2
 - q. mv file1 file2 Move (rename) file1 to file2 (may be directories)
 - r. rm file: Remove the file

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- s. man cmd: Display the manual pages for cmd
- t. history: Print recent history of shell commands
- u. up/down arrows: Navigate history of shell commands (also ctrl-p/ctrl-n)
- v. cmd: Run the command cmd
- w. ./cmd: Run the command cmd in the current directory
- x. In -s cmd: Make a symbolic link to cmd in the current directory
- y. alias name cmd: Make an alias with the given name for the given command
- z. eg: alia ll ='ls -al'
- aa. alias List all aliases
- bb. unalias name Remove the alias with the given name
- cc. clear Clear the terminal screen
- dd. date Display the current date and time
- ee. finger user Print information about user (use Andrew id for user)
- ff. ping machine Test a network connection to the given machine (ctrl-c to stop)
- hh. logout Logout of a login shell
- 3. Package installation (brew + <application>.pkg / .dmg)
 - a. brew installation:
- 4. Setting Permissions / ownership through terminal
- 5. Process Management Commands:
 - a. top/htop
 - b. ps aux
 - c. netstat

Further Resources:

- 1. http://www.ee.surrey.ac.uk/Teaching/Unix/
- 2. http://www.kosbie.net/cmu/fall-11/15-112/handouts/notes-getting-started.html
- 3. Mac OS X Help

Ask For Ebooks:

1. Introduction_to_Macintosh_OS.pdf

Lab Exercises:

- 1. Lab Exercise 1: Using Mac OS X
- 2. Lab Exercise 2: Practice Linux commands

Note: The lab exercises will be determined and provided by respective trainer after each session.

Happy Learning!