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Programming Technique II – SCJ1023

Introduction to Linux

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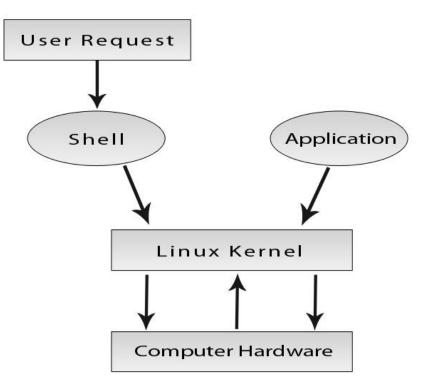
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What is Kernel?

- Kernel is the core of Linux Os (Operating System).
- It acts as an intermediary between the computer hardware and various programs/ application/shell.

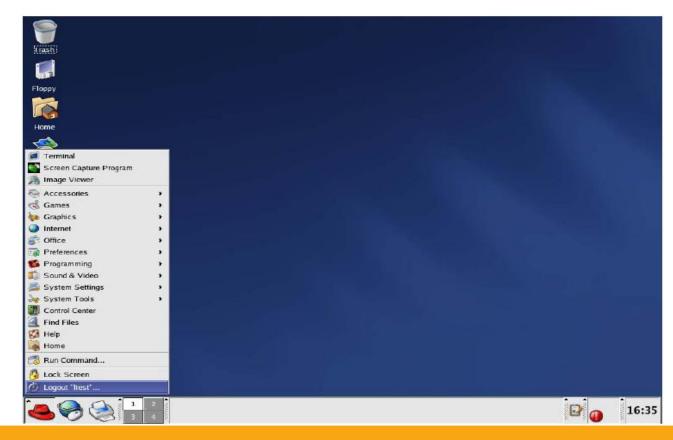






What is X-Windows?

• X-Windows is the most common graphical interface for Linux / Unix.

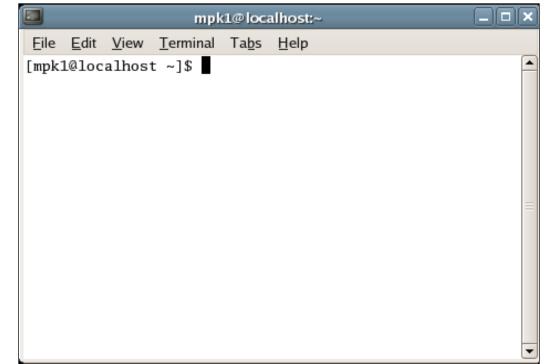






What is Linux Shell/Console?

- A "shell" is a program which interprets commands. User can give command by typing directly at the prompt of the Terminal
 - window.







How to use shell?

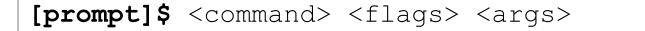
- From X Windows, click the right hand button of the mouse.
- Choose: Open Terminal
- Type the shell command at the prompt.

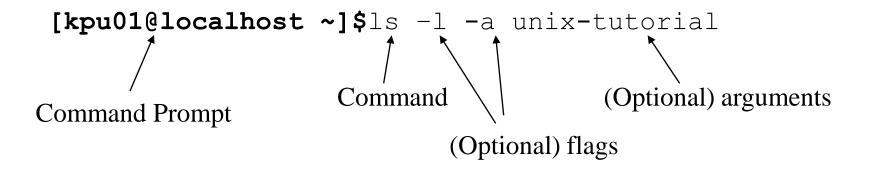




Linux Basic Command

- Linux commands are typed at the command prompt / console
- In Linux / Unix, all are case-sensitive









The shell prompt

- Usually the command prompt defined as:
 - Username
 - Host name (machine name)
 - Name of the directory
- Example:

[kpu01@localhost ~]\$ The Command Prompt





Linux basic command

Command	Description
ls	List the contents of a specified files or directories
pwd	Print working directory
cd	Change directory
mkdir	Make directory
rmdir	Remove directory
rm	Remove file / directory
ср	Copy file / directory
touch	create a blank file
mv	Move / rename a file / directory
chmod	Changing file / directory permissions
chown	Changing file / directory ownership





Linux basic command

Command	Description
less	Page forward and backward through file
more	Page through file
tar	Compress and uncompress files / folders to tar format
locate	Searching
mount	Mounting device





What is a directory?

- Directory or "folder" is used to organize a group of files or program files more efficiently.
- Two types of directory:
 - root directory
 - sub-directory
- A root directory is shown by the symbol '/'
- Sub directory is a directory under the root directory, which can be created, renamed, or deleted by user.





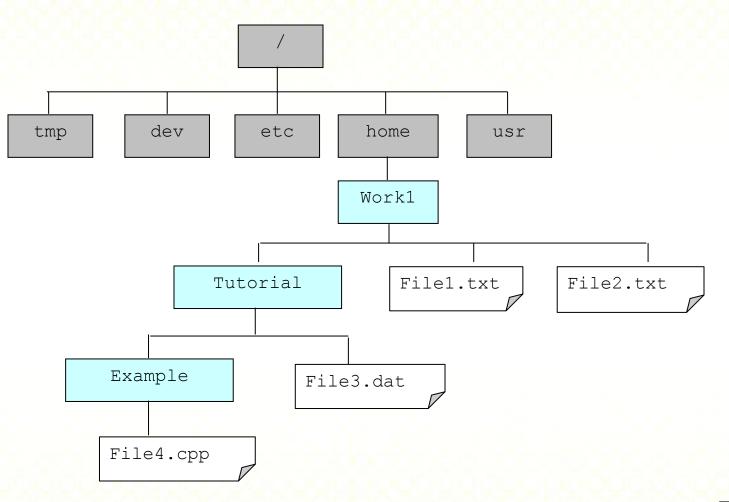
What is a file?

- Files are collection of data item to store information in disks or other devices.
- File management is the process of managing files such as reading data, writing to files, execute access to users, as well as creating new file, copying files and deleting.

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File directory





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The file permission

- In Linux, every file contains data such as its owner, its permissions and other information which defines exactly what can be done with it, and by whom.
- The permission of files and directories can be changed.