Lecture 6 Unix Commands - Part II

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The slides are mainly from Sharanya Jayaraman

Recap - Part I



- clear clears the current screen and displays the prompt at the top of the screen
- who and whoami users whoare currently logged in / tells you your username
- pwd show you whichdirectory you are currently working in
- ▶ 1s lists the contents of a directory
- Some commands have more options, specied as ags after the command. e.g., 1s −1

Recap - Part I



- cd move between directories
 - cd by itself, it will take you to your home directory.
 - ▶ cd .. will take you back one directory level.
 - You can also mix and match, separating directory names. cd ../next/level
- vim a very versatile text editor
 - ► To create a file, type vim filename on the prompt
- ▶ g++ the C++ complier of Linux/Unix
 - ► To compile a .cpp file, g++ source.cpp -o output/.o/.out/.(xx)

Unix Commands - mkdir



- ► The mkdir command stands for "make directory".
- ▶ It is used to create a directory or folder.
- Syntax: mkdir dirname Here, "dirname" is the name of the new directory you want to create.
- ► This will create a directory with the given name in the current directory.

Unix Commands - rmdir



- The rmdir command stands for "remove directory".
- It is used to delete the given (empty) directory.
- Syntax: rmdir dirname Here, "dirname" is the name of the directory you want to delete.
- rmdir can only delete EMPTY directory
- It will fail if the directory contains other files or directories. These files have to be deleted first, before deleting the directory.

Combining filenames with paths



- ► A directory path is a series of directories separated by the slash character, like this: ~/shiboli/intro/examples
- ► A file can be referred to by just its filename, as long as it is inthe current working directory
- ▶ If you want to refer to a file by name, but you are in a different working directory, then simply attach the filename to the end of the path name, again with a slash as a separator: vim ~/shiboli/intro/examples/hello.cpp

Unix Commands - cp



- ▶ The cp command is used to copy files.
- Syntax: cp sourcefile destinationfile
- "sourcefile" can refer to the name of the source file alone, or the path and filename of the source file. Either way, this part refers to the original that is being copied or moved.
- "destinationfile" can refer to either a new destination filename, a new destination location (a different directory), or a combination of both.
- ► If the destination file does not exist, it will be created. If the file exists, IT WILL BE OVERWRITTEN.

Unix Commands - mv



- ► The my command is use to move a file.
- Syntax: mv sourcefile destinationfile
- "sourcefile" "sourcefile" can refer to the name of the source file alone, or the path and filename of the source file. Either way, this part refers to the original that is being copied or moved.
- "destinationfile" an refer to either a new destination filename, a new destination location (a different directory), or a combination of both.

Unix Commands - mv



- If the destination file does not exist, it will be created. If thefile exists, If thefile exists, IT WILL BE OVERWRITTEN.
- ► The mv command **REMOVES** the file from its original location(unlike cp) which keeps a local copy.
- When the source and destination files are in the same directory, it RENAMES the file.

Unix Commands - rm



- ▶ The rm command is used to remove (delete) a file.
- ➤ Syntax: rm filename. Here, "filename" is thename of the file you want to delete.
- ▶ To remove a directory rm -rf dirname
 - -r remove recursively
 - -f force delete even not empty
- Once the file is deleted, it has been deleted forever, and cannot be recovered.