Some Basic Linux (Ubuntu) Commands

- **ls =** lists files and folders (directories)
- **ls -l =** gives detailed information about all the files and directories
- **ls -la =** gives detailed information about all the files, folders including hidden items

NOTE: Hidden files start with a dot (.)

- **pwd =** shows present working directory
- **cd .. =** moves one level down in directories
- **cd =** brings back to the home directory
- **cd FolderName =** goes to the folder FolderName
- **touch FileName=** creates an empty file FileName
- **cat > FileName =** create s a file FileName where we can edit and CTRL + D to save
- **cat FileName =** displays file content in terminal
- sed command for editing keywords in a file.
- **cat >> FileName =** edits the file content
- **mkdir FolderName =** creates a folder FolderName
- **mkdir Folder Name =** creates two folders , Folder and Name
- **clear =** clears the terminal
- **CTRL + L =** also clears the terminal
- **sudo cp FileName /FolderName =** copies a file FileName to the folder FolderName
- **rm FileName =** deletes a file FileName
- **rm -r FolderName =** deletes a folder FolderName

- **rm -r Folder1 Folder2 Folder3 =** deletes all the three folders
- **mv File1 File2 =** changes file name of File1 to File2
- **mv folder1 folder2 =** changes folder name of folder1 to folder2
- **man command =** displays details about that command (for eg: man touch)
- **vim FileName** = enters into vim edior to edit the file FileName
- **#!/bin/bash =** shebang
- **#!/bin/sh =** shebang
- **#!/bin/ksh =** shebang
- **ESC + :wq! =** to save a file and exit
- **ESC + :q! =** to exit without saving the file
- **cat FileName =** prints (displays) the content of a file called FileName
- **sh FileName =** executes shell script FileName
- **./ FileName =** executes shell script FileName

File Permission in Linux

- **chmod** = grants permission on a file
- 4 = read, 2 = write, 1= execute, 0 = no access at all
- **chmod 764**= me (7), group (6), everyone (4)
- **history** = lists all the commands entered
- **top** = launches task manager

Advanced Shell Scripts Commands

- **df -h** = to check free disk space
- **free -h** = to check free memory
- **nproc** = to check number of CPUs
- **set -x** = enables debug mode, which displays exact commands in the output also
- **set -e** = exits from script if there is an error in the script
- **ps -ef** = displays details about all the processes running in a machine
- **ps -ef | grep "python"** = displays details about only specified process i.e python
- **|** : this pipe command integrates two commands and sends output of first command to another command
- **./test.sh | grep 1** = this is an example command, which displays numbers containing "1" among various other numbers from the script "test.sh"
- **grep name fileX** = displays contents containing **name** from fileX
- awk =
- **curl** command retrieves any information from the anywhere
- **wget** command fetches information and also stores on local directory
- curl vs wget command
- **-ge** = means greater than or equal to
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Other Commands

- sudo apt-get install git – installs git
- sudo apt install firefox – installs firefox
- sudo apt remove firefox – removes firefox
- sudo su - = switches to the root user
- su vivek= switches to any user eg: vivek