

GNU/Linux System Administration

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Files and Folders

File Manipulation

File Permissions

Text Editors and Help

Disk Management

Tasks

Command	Usage
touch	Creates an empty file
cat	Shows content of a file
wc	Counts number of Lines, Words, Characters in a file
mkdir	Creates a directory
ls	List files
sort	Sort data in a file

Command	Usage
cp	Copies one file to another file
mv	Renames a file
mv	Moves file from one directory to another directory
rm	Deletes a file
cd	Switch to a directory
pwd	Shows the current directory

Command	Usage
chmod	Changes file permissions
chown	Change file ownership
chgrp	Change group permissions
su	Super user mode
sudo	Execute command as root

Editors

- gedit - GUI Editor
- nano - Editor with options

Help

- man - Manual
- help - Manual

Command	Usage
df	Partion details
mount	Mount a file system
umount	Unmount a file system
du	Disk usage in directory tree
free	To see memory usage

Task 1: Permissions

- Copy files a and A to Swecha folder
- See the permissions for file
- Change file permissions as all can read, only group can write and only user can execute
- Now check permissions of Swecha folder
- Change its permissions

Task 2: Files and Folders

- Create a folder Swecha
- Enter Swecha folder
- Create 2 files a and A
- Edit files with content
- Move files to Desktop

Task 3: Shell Scripting

- Open a editor
- Write all commands used for files and folders task
- Save file with .sh extension
- run the file

Task 4: Create your Own Command

- Convert the Task 3 File to Executable(Change Permissions)
- Rename by removing .sh extension
- Copy the file to /bin
- Type the command anywhere