Deleting, Copying, Moving, and Renaming Files

What You Will Learn

- Deleting files
- Copying files
- Moving files
- Renaming files
- Compressing files
- Creating archives

Removing Files

`rm file`   Remove file.

`rm -r dir`   Remove the directory and its contents recursively.

`rm -f file`   Force removal and never prompt for confirmation.

Removing Files

```
$ ls s*
sales-lecture.mp3 sales.data secret secret.bak
$ rm s*
$ ls -d .*
. .. .profile .bash_history
$ rm .*
rm: cannot remove '.': Is a directory
rm: cannot remove '..': Is a directory
$ ls -d .*
. ..
$
```

Copying Files

```
cp source_file destination_file
```
Copy source_file to destination_file.


```
cp src_file1 [src_fileN ...] dest_dir
```
Copy source_files to destination_directory.

cp Options

```
cp -i
```
     Run in interactive mode.


```
cp -r source_directory destination
```
     Copy src_directory recursively to destination.

Demo

Moving and Renaming Files

`mv`   Move or rename files and directories.

`mv source destination`

`mv -i source destination`

Demo

Sorting Data

`sort file`   Sort text in file.

`sort` Options

`-k F`   Sort by key. F is the field number.

`-r`   Sort in reverse order.

`-u`   Sort unique.

Demo - sort

Creating a Collection of Files

```
tar [-] c|x|t f tarfile [pattern]
```

Create, extract or list contents of a tar archive
using pattern, if supplied.

`tar` Options

c	Create a tar archive.
x	Extract files from the archive.
t	Display the table of contents (list).
v	Be verbose.
z	Use compression.
f file	Use this file.

Demo - tar

Compressing Files To Save Space

`gzip`   Compress files.

`gunzip`   Uncompress files.

`gzcat`   Concatenates compressed files.

`zcat`   Concatenates compressed files.

Disk Usage

`du`   Estimates file usage.

`du -k`   Display sizes in Kilobytes.

`du -h`   Display sizes in human readable format.

Demo - gzip + tar.

Summary

- rm
- cp
- mv
- gzip
- tar