

# Linux for DevOps - Day 1 Notes

## Introduction to Linux

Linux is a Unix-like open-source operating system used widely in servers, DevOps, and cloud systems. Users interact via the shell (CLI), commonly Bash.

## Filesystem Hierarchy

/ - Root directory

/home - User directories

/bin - Essential binaries

/etc - Configuration files

/var - Logs and variable files

/dev - Devices like disks

/tmp - Temporary files

## Basic Navigation Commands

pwd - Show current directory

ls - List files and directories

cd - Change directory

clear - Clear terminal

exit - Exit shell

whoami - Show current user

## File & Directory Management

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`touch file.txt` - Create a file

`mkdir dir1` - Create directory

`cp file1 file2` - Copy file

`mv file1 file2` - Move or rename

`rm file.txt` - Delete file

`rmdir dir1` - Remove directory

## Viewing File Content

`cat file.txt` - Show content

`head -n 5 file.txt` - First 5 lines

`tail -n 5 file.txt` - Last 5 lines

`less/more file.txt` - Scrollable view

## Extra Commands

`ls -la` - Show hidden files with details

`history` - Show command history

`tree` - View folder tree (install with yum)

## Mini Challenge

1. Create a folder `devops_day1` in home directory

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2. Create hello.txt
3. Copy to hello\_copy.txt
4. Rename to hello\_final.txt
5. Delete hello.txt
6. Use ls -lh to confirm changes