TECHKHWA ACADEMY

COURSE OUTLINE

Linux Foundations

Master the Linux command line from zero — the foundation for DevOps, Cloud and Cybersecurity careers.

8 weeks · 24 live classes | Beginner | Live on Zoom | Recordings included | Certificate on completion

Modules

01 Introduction to Linux & setup

- What Linux is and where it is used
- Distributions: Ubuntu, Debian, RHEL
- Installing Ubuntu in a virtual machine or WSL
- Your first terminal commands

02 File system & navigation

- The Linux directory structure
- pwd, ls, cd, absolute and relative paths
- Creating, copying, moving and deleting files
- Finding files with find and locate

03 Working with text

- cat, less, head and tail
- Searching with grep
- Editing files with nano and vim basics
- Pipes and redirection

04 Users, groups & permissions

- Users and groups
- chmod, chown and umask
- sudo and root access
- Special permissions

05 Processes & services

- ps, top and htop
- Signals and kill
- Background jobs
- Managing services with systemctl

06 **Package management**

- apt and dpkg
- Repositories and updates
- Snap packages
- Installing software from source

07 **Networking basics**

- IP addresses and ip command
- ping, curl and wget
- SSH keys and scp
- Firewall basics with ufw

08 **Bash scripting & automation**

- Variables, conditions and loops
- Writing reusable scripts
- Scheduling jobs with cron
- Final project: automate a system task

What you'll be able to do

- Navigate and manage the Linux file system with confidence
- Manage users, groups and file permissions
- Monitor processes and manage services with systemd
- Install and update software with package managers
- Connect to remote servers securely with SSH
- Automate everyday tasks with Bash scripts and cron

Before you join

- A laptop or PC (Windows, macOS or Linux) with at least 8 GB RAM
- A stable internet connection for live Zoom classes
- No prior Linux experience needed

Enroll or ask a question: techkhwaacademy.com · WhatsApp +92 345 8826673 · hi@techkhwaacademy.com
Batch dates and fees are listed on the course page.