

System and Network Administration

Week 1: Introduction to Linux Systems

1. Practical 1: Setting Up a Virtual Machine with VirtualBox/VMware

- Install a virtual machine.

2. Practical 2: Linux Installation and Setup

- Install a Linux distribution (Ubuntu, Fedora, etc.) in a virtual machine.

3. Practical 3: Linux commands - MANAGING FILES

- Explore basic Linux commands (`ls`, `cd`, `pwd`, `cp`, `mv`, etc.).
- [slides](#)

Week 2: File Permissions and Ownership

5. Practical 1: Understanding File Permissions

- Explore file permissions (`rwX`) and ownership.
- Change permissions and ownership using `chmod` and `chown`.
- [slides](#)

6. Practical 2: Manage Softwares

- [slides](#)

Week 3: User and Group Management

3. Practical 1: User Management

- Add, delete, and modify user accounts (`useradd`, `usermod`, `passwd`, `userdel`).

4. Practical 2: Group Management

- Add, delete, and modify groups.
- Assign users to groups and explore `/etc/passwd` and `/etc/group`.