

System and Network Administration

Linux Systems

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

- Install a virtual machine.

2. Lab 2: Linux Installation and Setup

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

3. Lab 3: Linux commands - MANAGING FILES

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

4. Lab 4: Understanding File Permissions

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

Windows

Lab #1: [Managing User Accounts and File Permissions on Windows](#)

Lab #2: [Managing User Accounts and File Permissions on Windows \[Part 2\]](#)

Lab DHCP Server using router

- [What is DHCP Sever - slides](#)
- [How to configure DHCP server using Cisco packet tracer](#)

Lab DNS Server

- [What is DNS Server - slides](#)
- [How to configure DNS server using Cisco packet tracer](#)

Lab Configure DHCP Server on the Router

- [How to configure DHCP server on the router](#)

Windows Server

Lecture notes:

Lab Windows Server Installation **Lab** Domain Controllers **Lab** File Server Resource Manager (FSRM) [pdf](#) **Lab** IIS

- **Lab**
- **Lab**

Linux - User and Group Management

1. Practical 1: User Management

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

2. Practical 2: Group Management

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

Week 4: Linux Softwares Management

2. Practical 2: Manage Softwares

- [slides](#)

Final Project