

# System and Network Administration

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## 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 (`rx`) 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 Configure DHCP Server in Router

- [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](#)
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## Week 4: 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](#)