

Syllabus

# Linux Fundamentals



**CVBERIUM ARENA**  
-SIMULATOR-

## **Description**

This training covers basic use in the Linux environment. Linux Fundamentals course is designed for non-experienced users, helping them become comfortable with Linux and basic automation scripting capabilities.

## **Target Audience**

The course targets participants with basic computer knowledge.

## **Objectives**

- Using Linux command-line operations
- Writing basic automation scripts in Linux

## **Module 1: Command-Line**

During this model, students will explore the advanced features of the Linux Command-Line and text manipulation.

### **Introduction**

- History of Linux
- Exploring Distributions

### **The Terminal**

- Basic Commands
- Permissions
- Text Manipulation Commands
- Writing Scripts
- Working with Archives

## **Module 2: Bash Scripting**

In this module, students will learn to write basic scripts and start creating different automation.

### **Bash Scripting**

- Introduction to Programming
- Writing Bash Scripts
- Getting User Input Performing
- Math Logic Statements
- Global vs. Local Environment Variables

## **Module 3: Networking**

This module will teach the students to gain full control of the Linux Environment. The students will learn to administrate their system and manage software and services.

### **Network Troubleshooting**

- Network Configuring
- Basic Network Troubleshooting

### **Package Management**

- Installing Deb Packages
- Using APT