



Unix and Linux Fundamentals

Introduction: You are familiar with the Microsoft Windows environment. However, your organization is moving to the UNIX environment to operate applications that specifically run on UNIX. You need to get familiar with working in Unix and Unix commands.

Duration: Instructor-led, group-paced, classroom-delivery learning model with structured hands on activities – 14 hours (2 days)

Prerequisites: Students taking this course should have competence in basic Windows operating system functions such as opening and saving files, managing windows, launching applications, and configuring desktop preferences, as well as a general understanding of personal computer concepts such as hardware, software, processing, and data storage.

Objectives: You will be introduced to Unix and work with files and directories.

- Understand Operating Systems concepts
- Understand the Unix/Linux command structure
- Work with the Unix directory structure
- Use directory commands and understand directory symbols
- Use Unix file handling commands
- Use filter commands
- Use Pipes and redirects of input and output
- Scan files in the Unix file system
- Use the vi editor

Course Outline

Introduce Operating Systems Concepts

- History of the Unix operating system
- Overview of the Unix system
- Introduce the Unix command structure
- Introduce a simple Unix session

Working with Files and Directories

- Understand the File System
- Display Files and Directories
- Display File Contents
- Create Files and Directories
- Manage Files and Directories

Managing File Permissions

- Modify File Permissions
- Modify File and Group Ownership
- Modify Default Permissions

Filter Commands

- Filter Commands
- Using Pipes

Recursive Directory Utilities

- Search Files and Directories
- Recursive Directory Traversal Commands
- Pattern Matching

Introduction to the vi Editor

- How vi Editor Interacts with Files
- Inserting Commands in the vi Editor
- Editing Scripts in the vi Editor