

UNIX and Linux: Fundamentals



Course Description

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. In the Unix and Linux: Fundamentals course, you will use the command line interface (CLI) in UNIX to perform basic tasks.

Course Objective:

You will be introduced to UNIX and work with its files and directories. You will also manage the processes and jobs in UNIX.

Target Student:

Individuals who are using the Windows desktop operating system and are migrating to UNIX or a mixed Windows/UNIX environment.

Performance-Based Objectives

Upon successful completion of this course, students will be able to:

- get started with UNIX.
- work with files and directories.
- manage the security permissions of files and directories.
- create and edit files by using the vi editor.
- manage processes in UNIX.
- learn how to manage jobs.
- manage communication with different computers.

Course Content

Lesson 1: Getting Started

Topic 1A: Understand the UNIX Architecture

Topic 1B: Log In to the System

Topic 1C: Use Basic Commands

Topic 1D: Customize the Shell Environment

Topic 1E: Get Help

Lesson 2: Working with Files and Directories

Topic 2A: Understand File System

Topic 2B: Display Files and Directories

Topic 2C: Display File Contents

Topic 2D: Create Files and Directories

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Topic 2E: Manage Files and Directories

Topic 2F: Search Files and Directories

Lesson 3: Managing File Permissions

Topic 3A: Modify File Permissions

Topic 3B: Modify File and Group Ownership

Topic 3C: Modify Default Permissions

Lesson 4: Editing Files

Topic 4A: Create Files

Topic 4B: Modify Files

Topic 4C: Modify Files Using Advanced Techniques

Topic 4D: Edit Text Using ex Commands

Lesson 5: Managing Processes

Topic 5A: Display Processes

Topic 5B: Terminate Processes

Lesson 6: Managing Jobs

Topic 6A: Control Jobs

Topic 6B: Schedule Jobs

Lesson 7: Managing Communication

Topic 7A: Access Remote Computers

Topic 7B: Transfer Files