

Introduction to Linux (TTLX2103)

Overview

This hands-on course provides you with an essentials-level foundation in core skills for using any version of Linux. This course focuses on essential skills that ordinary users might use daily when working with Linux.

Prerequisite Comments

This is an introductory-level course, designed for anyone wanting to learn Linux. Attendees should be comfortable working with computers and the command line, but no other specific skills are required to attend.

Target Audience

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Course Objectives

This skills-focused course is about 50% lab to lecture ratio, combining expert instructor-led discussions with practical hands-on labs that emphasize current techniques, best practices and standards. Working in a hands-on lab environment, guided by our expert practitioner, attendees will explore

- The Design of Linux
- Basic Operations
- File System Basics
- Wildcards
- File and Directory Permissions
- Working with files
- Executing Programs
- Using find
- Filters and other useful commands
- The vi editor
- Customizing the user environment
- Networking/Communications
- Backups and archiving

Course Outline

[Register Online](#)

Schedule

Class Length: 3 Days

G2R = "Guaranteed to Run" | OLL = "Online LIVE"
ILT = "Instructor-Led-Training"

This course is not currently available on the public schedule. Please contact us using the information in the footer below to inquire about future dates or to schedule a private class.

1 - The Design of Linux

A brief history of Linux
The Linux design philosophy
Linux architecture

2 - Basic Operations

Logging in and out
The general form of a Linux command
Common commands
Using man pages
Essential commands

3 - File System Basics

The Linux directory structure
Standard directories
Relative and absolute pathnames
Legal file names
Navigating the filesystem

4 - Wildcards

Matching one character
Matching many characters
Shortcuts
Wildcard gotchas
Wildcards and ls

5 - File and Directory Permissions

Viewing permissions
File permissions
Directory permissions
Setting defaults
Changing permissions
Keeping data secure

6 - Working with files

Viewing contents
Identifying file contents
Copying and moving
Deleting
Using symbolic links

7 - Executing Programs

- Redirecting STDOUT
- Redirecting STDERR
- Redirecting STDIN
- Creating pipelines
- Processes attributes
- Listing processes
- Killing processes
- Foreground & background processes

8 - Using find

- Syntax
- Finding by name, type, or size
- Combining tests
- Finding by size, owner, or timestamps
- Using xargs with find
- Other find options

9 - Filters and other useful commands

- What is a filter?
- cat: a generic filter
- head and tail
- grep
- sort
- wc
- other interesting filters

10 - The vi editor

- Why vi?
- Basic vi operations: navigating, adding, deleting
- Advanced operations: buffer management, search and replace, configuration options

11 - Customizing the user environment

- About shells
- Shell startup files
- Shell variables
- Search path
- Aliases
- Simple shell scripts

12 - Networking/Communications

Reading and sending mail
Remote login
Remote file transfer
Other network utilities (ping, finger, etc)

13 - Backups and archiving

Checking space used or available
Creating tar archives
Viewing and extracting files from archives
Compression utilities
Working with windows
