

Introduction to Linux - TTLX2103

Explore Core Skills for Daily Tasks Users Perform using Linux

Duration: 3 Days

Skill Level: Introductory

Available Format: Instructor-Led Online; Instructor-Led, Onsite In Person ; On Public Schedule

Introduction to Linux is a 3-day, hands-on course that provides you with a solid level foundation in essential skills for using any version of Linux. This course focuses on core useful skills that ordinary you might use day to day when working with Linux.

What You'll Learn

Overview

Introduction to Linux is a 3-day, hands-on course that provides you with a solid level foundation in essential skills for using any version of Linux. This course focuses on core useful skills that ordinary you might use day to day when working with Linux.

Objectives

This skills-combines expert instructor-led discussions with hands-on labs designed to provide you practical experience working with Linux to complete tasks and functions users usually encounter on the job. The lessons and exercises always emphasize current techniques, best practices and standards. Working in a hands-on lab environment guided by our expert instructor, you'll explore:

- Basic Linux 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

Need different skills or topics? If you or your team require different topics or tools, additional skills or custom approach, this course may be further adjusted to accommodate. We offer additional Unix, Linux, Scripting, administration, networking, programming, database and other related courses which may be blended with this course for a track that best suits your learning objectives.

Audience

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.

Pre-Requisites

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.

Agenda

Please note that this list of topics is based on our standard course offering, evolved from typical industry uses and trends. We will work with you to tune this course and level of coverage to target the skills you need most. Course agenda, topics and labs are subject to adjust during live delivery in response to student skill level, interests and participation.

The Design of Linux

- A brief history of Linux

- The Linux design philosophy
- Linux architecture

Basic Operations

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

File System Basics

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

Wildcards

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

File and Directory Permissions

- Viewing permissions
- File permissions
- Directory permissions
- Setting defaults
- Changing permissions

- Keeping data secure

Working with files

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

Executing Programs

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

Using find

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

Filters and other useful commands

- What is a filter?
- cat: a generic filter
- head and tail
- grep
- sort

- wc
- other interesting filters

The vi editor

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

Customizing the user environment

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

Networking/Communications

- Reading and sending mail
- Remote login
- Remote file transfer
- Other network utilities (ping, [fingertracroute](#), etc)

Backups and archiving

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

Follow On Courses

TTDV7585	Advanced Ansible in Action: Building Smarter, Stronger Automation
TTDV7580	Hands-on Ansible Essentials Introduction to Automation with Ansible
TTLX2104	Intermediate Linux Shell, Bash, Text Manipulation, Multitasking & More
TTDV8400	DevSecOps in Action: Building Secure, Scalable Workflows

Related Courses

TTLX2104	Intermediate Linux Shell, Bash, Text Manipulation, Multitasking & More
TTLX2220	Linux System Administration
TTLX2103	Introduction to Linux

All applicable course software, digital courseware files or course notes, labs, data sets and solutions, live coaching support channels and rich extended learning and post training resources are provided for you in our “easy access, no install required” online **Learning Experience Platform (LXP)**, remote lab and content environment. Access periods vary by course. We’ll collaborate with you to ensure your team is set up and ready to go well in advance of the class. Please inquire about set up details and options for your specific course of interest.

For More Information

Please [contact us](#) or call 844-475-4559 toll free for more information about our training services (instructor-led, self-paced or blended), coaching and mentoring services, public course enrollment or questions, partner programs, courseware licensing options and more.