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Learning Style: On Demand

Technology:

Difficulty: Beginner

Course Duration:

A Beginners Guide to Linux Kernel Development (LFD103)



About This Course:

This course will prepare you to configure a development system, use git, write kernel patches, test patches, write commit logs, send patches, and work with the Linux kernel community.

Course Objective:

Through this course you will learn how to select and configure your development system, about Linux Kernel repositories and releases, Git basics including checking out kernel repositories and working with them, how to build and install a kernel, Linux kernel enforcement standards, how to write kernel patches and test them, how to communicate with the kernel community, how to send patches, how to act on feedback from reviewers and more

Audience:

This course is intended for developers who need to know about the Linux kernel development process and the explicit and implicit “rules of the road”

Prerequisites:

To make the most of this course you will need to be:

- Proficient in C and Shell.
- Kernel development experience desired (not required)

Course Outline:

Chapter 1. Course Introduction

Chapter 2. Linux Kernel Development Process

Chapter 3. Patches

Chapter 4. Working with the Linux Kernel Community

Chapter 5. Configuring Your Development System

Chapter 6. Exploring Linux Kernel Sources

Chapter 7. Building and Installing Your First Kernel

Chapter 8. Writing Your First Kernel Patch

Chapter 9. Getting Your Patch Ready and Sending It

Chapter 10. Kernel and Driver Building, Loading and Dependencies

Chapter 11. All About Testing

Chapter 12. Debugging Basics

Chapter 13. Tips to Continue Your Kernel Journey

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