Red Hat Enterprise Linux Kernel Internals
RHD361

Duration: 5 days

Overview

Red Hat® Enterprise Linux® Kernel Internals (RHD361) is a hands-on course providing experienced developers an intensive, low-level examination of the Linux kernel architecture.

Topics include kernel compilation, debugging tools and techniques, and internal kernel APIs, including synchronization, process management, and memory management. These topics provide a solid understanding of the kernel's architecture, providing a useful base from which more specialized topics, like those presented in Red Hat Enterprise System Monitoring and Performance Tuning (RH442) or Red Hat Enterprise Linux Kernel Device Drivers (RHD362), can be addressed.

Pre-Requisites

✓ Experience in C programming
✓ Knowledge of systems programming in a UNIX or Linux environment
✓ Register-level hardware programming knowledge is recommended but not required

Objectives

✓ Working with the Developer Community
✓ User Mode and Kernel Mode
✓ Kernel Compilation and Tools
✓ Modules
✓ Kernel API Overview
✓ Synchronization
✓ Kernel Debugging 1: Tools and Techniques
✓ Interrupts
✓ Device Driver Overview
✓ Memory Management
✓ Processes
✓ The Scheduler
✓ Kernel Timing
✓ Unit 17 - Red Hat Enterprise Linux Realtime Kernel

Target Audience

Experienced developers who want to gain a thorough understanding of the Linux kernel architecture.