

RHD256 Red Hat Linux Application Development and Porting

Introduction

Red Hat Linux continues to enjoy an ever-expanding role in providing enterprise-level solutions. As companies migrate from proprietary to open source platforms, technical staff must leverage their existing expertise by learning the tools and techniques of the world of open source. Red Hat's RHD256 course provides a succinct introduction to new application development, as well as providing insight into porting existing applications, into the Red Hat Linux environment.

Pre-Requisites

Application development skills on any UNIX-like platform, including proprietary offerings and other Linux distributions. Attendees are expected to be familiar with common shells and command line utilities such as the C compiler, a linker utility, and the make(1) program.

Goal

Upon completing the class, student should be able to take advantage of the features of Red Hat Linux to write new applications and port applications to Red Hat Linux from proprietary UNIX environments.

Audience

RHD256 allows an experienced programmer, who is already familiar with development on a proprietary UNIX-like system such as Sun Solaris, SGI IRIX, or Hewlett-Packard HP-UX or another Linux distribution, to gain equivalent skills for the Linux environment in a timely manner. The combination of lecture and hands-on lab exercises is designed to illustrate the unique features of Red Hat Linux development and provide contrasts with proprietary systems.

Course Details

Course code: RHD256
Duration: 4 days
Starting time: 9.00 am
Finishing time: 5.00 pm
Lunch and refreshments are provided.

Booking guidelines

Contact our Learning Consultants on 1300 86 87246 and we will assist you with your booking.



Learning Solutions

(1300 86 87246
1300 TO TRAIN

Course Outline



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- Open source vs. the proprietary model
- The common Open Source software licenses: the GPL; the LGPL; and the BSD license; and how they affect your software development strategy.
- Components of the Red Hat Linux development environment, including compiler toolchains and application libraries
- Packaging software with RPM and tar
- The CVS and Subversion version control systems
- How to compile and debug application programs using the GNU Compiler Collection and DDD
- How commonly-used enterprise file systems affect the application development effort.
- How to write, install, and control system services.
- The functional differences between Linux command-line tools and their proprietary-system counterparts.
- Using Red Hat Linux system libraries, and creating your own libraries
- Issues to be concerned with when porting applications to Red Hat Linux, such as little-endian vs. big-endian architectures.
- How Linux multithreaded applications are built.
- Linux security features such as PAM and OpenSSH.
- How to use the "/proc" filesystem to obtain system information.
- Advanced Linux features, such as asynchronous I/O.
- Building software with Autoconf
- How to debug, trace and optimize software for better speed and memory usage
- The Eclipse integrated development environment

For more information about any of our training courses, contact our Sales Team
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