

613: SuSE Linux Troubleshooting (5 days)

Course Description...

Linux is an extremely stable OS; yet, as with any complex system, it can have problems. The student completing this course will have the knowledge and techniques necessary to quickly find the cause or causes of the anomalous behavior and make informed decisions on how to lessen or fix the problem. After a review area, the course presents typical problems and solutions for the area. This is followed by a workshop where students solve problems in the area.

Suggested Prerequisites...

This is a third course in Linux system administration. To be successful in this course the student must have the background provided by ROI's SuSE Workstation Administration and ROI's SuSE Server Administration

Who should attend...

Administrators responsible for troubleshooting problems on SuSE Linux systems.

Learning Objectives...

- Learn and practice an approach to troubleshooting Linux systems
- Steps necessary to make sure problems can be easily found and resolved
- Hands on experience with troubleshooting tools

See next page for a detailed course outline...



Course Outline...

Introduction and Overview

Unit 1 The General Troubleshooting Processes

- Troubleshooting Techniques
- System Documentation
- Logging for Troubleshooting

Unit 2 When the System Will Not Boot

- Grub Problems
- Using the Rescue Disk
- Hardware Problems

Unit 3 ext2/ext3 Problems

- File System Organization
- How Corruption Occurs
- Preventative Measures
- File Recovery Problems
- Lost of MBR
- Performance Problems

Unit 4 Reiser File System

- A new Filesystem Organization
- How Corruption Occurs
- Preventative Measures
- Recovery from Corruption
- File Recovery
- Performance Problems

Unit 5 Multiple Disk Problems

- LVM Problems
- File System Problems
- Performance Problems

Unit 6 Software Damage

- Package Checking
- What to do when the Check Fail



Unit 7 Kernel Modules

- Kernel Updates and Patches
- Kernel Configuration
- Installing New Modules

Unit 8 Host Networking

- Hardware and Address Problems
- Client Side DHCP Problems
- Client Side DNS Problems
- Reachability Problems

Unit 9 Network Services

- NIS
- NFS
- Client-side LDAP
- Client-side Mail
- xinetd

Unit 10 Where to find help

- Documentation
- General Forum Help

Please contact your ROI representative to discuss course tailoring!!!