

Course 612: Red Hat 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 Red Hat Workstation Administration and ROI's Red Hat Server Administration

Who should attend...

Administrators responsible for troubleshooting problems on Red Hat 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

- Logging for Troubleshooting
- Other Tools to Install
- How To Find Out What is Wrong

Unit 2 Immediately After the System is Installed

- Tripwire or AIDE
- Backups
- Mondo restore
- Rescue disks

Unit 3 When the System Will Not Boot

- Using the Rescue Disk
- Grub and Lilo Problems

Unit 4 Disk Problems

- LVM Problems
- File System Problems
- Quotas
- ACL Problems
- Performance Problems

Unit 5 Software Damage

- Package Checking
- What to do when the Check Fail
- Introduction to Software Problems

Unit 6 Troubles with X windows

- Mouse and Keyboard
- General Video
- Resolution and Color Depth

Unit 7 Kernel Problems

- Kernel Updates and Patches
- Kernel Configuration



Unit 8 Network Problems

- Hardware and Address Problems
- DHCP Problems
- DNS Problems
- Reachability Problems
- Bandwidth Problems

Unit 9 Internal Services

- CUPS Troubleshooting
- at, cron and anacron problems
- Syslog problems

Unit 10 Network Services

- NIS
- NFS
- LDAP
- Mail: Sendmail and Postfix
- IMAP and POP
- Samba
- xinetd

Unit 11 Security Services

- PAM Modifications and Problems
- IPTable Problems
- SE Linux Considerations
- IDS Problems

Unit 12 Problems with Users

- Startups
- Access
- Lost Passwords
- Account Locking

Unit 13 Where to find help

- Documentation
- Distribution Specific Help
- General Forum Help

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