



Linux Troubleshooting

Syllabus

Rev. 12/01/2011

Length: 24 hours

Course Description:

The Linux Troubleshooting course is designed to introduce the student to numerous common system issues, and understand how to troubleshoot them. The course begins with an in-depth review of troubleshooting tools, then moves into break-fix scenarios. Each scenario begins with a focused discussion of technologies and troubleshooting techniques, then the student attempts to diagnose and repair their machine. Explanations follows each scenario, after which the machines are set up for the next break-fix.

Course Outline:

1) Day 1

1. Troubleshooting tools and techniques
2. Labs
 - Lab 1 – Networking, Directory Indexes
 - Lab 2 – HTTP password auth, system login problems
 - Lab 3 – NFS, Apache + SSL
 - Lab 4 – Booting, Userdir
 - Group Lab 1 – Boot issues, text logins, filesystems

2) Day 2

1. Labs
 - Lab 5 – Filesystems, swap
 - Lab 6 – Booting, Samba
 - Lab 7 – FTP, networking
 - Lab 8 – Time, proxies
 - Lab 9 – Email, Segmentation faults
 - Group Lab 2 – Authentication, NTP

3) Day 3

1. Labs
 - Lab 10 – Networking, swap
 - Lab 11 – Filesystem resizing, LVM
 - Lab 12 – Booting
 - Lab 13 – Booting, authentication
 - Group Lab 3 – Passwords, reboots, RPM, Memory