


LIN-SA1: Linux System Administration I

The purpose of this course is to provide a foundation for understanding and implementing Linux as a server option using CentOS / Red Hat Enterprise specifically. However, 85% of the content of the class relates to all Linux distributions. The content has been developed in order to provide the level of information needed for understanding the RHCE exam for Red Hat. This course is not designed to help students pass the RHCE, but the content covers most of the RHCE topics. About 25 Labs are provided to support student learning. Step by step tutorials will be supplied to facilitate rapid knowledge levels in the workplace.

This is the first 40 hours of instruction in Linux Server Administration. The focus of this course is a step by step approach to maintenance of a Linux server in preparation for the installation of services.

	<table border="1"> <thead> <tr> <th>Week #1</th> </tr> </thead> <tbody> <tr><td>Boot Process</td></tr> <tr><td>Root User</td></tr> <tr><td>Process Management</td></tr> <tr><td>Managing the File System</td></tr> <tr><td>Managing Users</td></tr> </tbody> </table>	Week #1	Boot Process	Root User	Process Management	Managing the File System	Managing Users						
Week #1													
Boot Process													
Root User													
Process Management													
Managing the File System													
Managing Users													
<table border="1"> <thead> <tr> <th>Week #2</th> </tr> </thead> <tbody> <tr><td>Managing Quotas</td></tr> <tr><td>Managing System Logs</td></tr> <tr><td>Managing Hard Drives (includes LVM, RAID)</td></tr> <tr><td>Managing Backups</td></tr> <tr><td>Automated Tasks</td></tr> </tbody> </table>	Week #2	Managing Quotas	Managing System Logs	Managing Hard Drives (includes LVM, RAID)	Managing Backups	Automated Tasks	<table border="1"> <thead> <tr> <th>Week #3</th> </tr> </thead> <tbody> <tr><td>Managing Updates</td></tr> <tr><td>Basic Networking</td></tr> <tr><td>Remote Access With Webmin</td></tr> <tr><td>Remote Access With VNC</td></tr> <tr><td>Remote Access With SSH</td></tr> </tbody> </table>	Week #3	Managing Updates	Basic Networking	Remote Access With Webmin	Remote Access With VNC	Remote Access With SSH
Week #2													
Managing Quotas													
Managing System Logs													
Managing Hard Drives (includes LVM, RAID)													
Managing Backups													
Automated Tasks													
Week #3													
Managing Updates													
Basic Networking													
Remote Access With Webmin													
Remote Access With VNC													
Remote Access With SSH													
<table border="1"> <thead> <tr> <th>Week #4</th> </tr> </thead> <tbody> <tr><td>Kernel Development</td></tr> <tr><td>X Window System</td></tr> <tr><td>Server Security</td></tr> <tr><td>Network Security</td></tr> <tr><td>Attack Detection</td></tr> </tbody> </table>	Week #4	Kernel Development	X Window System	Server Security	Network Security	Attack Detection	<table border="1"> <thead> <tr> <th>Week #5</th> </tr> </thead> <tbody> <tr><td>Basic Firewalls With iptables</td></tr> <tr><td>Command Line</td></tr> <tr><td>Basic Shell Scripts</td></tr> <tr><td>Printing</td></tr> </tbody> </table>	Week #5	Basic Firewalls With iptables	Command Line	Basic Shell Scripts	Printing	
Week #4													
Kernel Development													
X Window System													
Server Security													
Network Security													
Attack Detection													
Week #5													
Basic Firewalls With iptables													
Command Line													
Basic Shell Scripts													
Printing													