

Content of Glance

Red Hat Linux System Administration

Duration: 30 hours

<p>UNIT 1 - Installation</p> <ul style="list-style-type: none"> • Hardware Overview • CPU and Memory • Preparing to Install • Multiboot systems • The RHEL Installer • Installer Features • RHEL Installation Overview • Partitioning Hard Drives • Sample Partition Structure • Configuring File Systems • Software RAID • LVM: Logical Volume Manager • Network Configuration • Firewall Setup • Security Enhanced Linux • SELinux Installation Options and Control • Validating the Installation • noprobe Mode and Driver Disks • Post-Install Configuration • Hands-on Lab: Installation <p>UNIT 2 - System Initialization and Services</p> <ul style="list-style-type: none"> • Boot Sequence Overview • BIOS Initialization • Boot Loader Components • GRUB and grub.conf • Kernel Initialization • init Initialization • Run levels • /etc/rc.d/rc.sysinit • /etc/rc.d/rc • Daemon Processes • System V run levels • /etc/rc.d/rc.local • Virtual Consoles • Controlling Services • System Shutdown • System Reboot • Hands-on Lab: Managing Startup <p>UNIT 3 - Kernel Services and Configuration</p> <ul style="list-style-type: none"> • Objectives 	<ul style="list-style-type: none"> • RPM Queries • RPM Verification • Other RPM Utilities and Features • Automatic Dependency • Resolution • Red Hat Network (RHN) • RHN in the Enterprise • RHN Registration • The up2date utility • Remote Administration • Network Installation Server • Using Kickstart to Automate Installation • Hands-on Lab: RPM and Kickstart <p>UNIT 7 - User Administration</p> <ul style="list-style-type: none"> • User Policy Considerations • The User Account Database - /etc/passwd • Adding a New User Account • User Private Groups • Group Administration • Modifying/Deleting Accounts • Password Aging Policies • Login Shell Scripts • Non Login Shell Scripts • Switching Accounts • sudo:: Course RH131 :: • Network Users • Authentication Configuration • NIS Client Configuration • LDAP Client Configuration • File Ownership • Linux File Permissions • SUID / SGID Executables • The Sticky Bit • The Setgid Access Mode • Default File Permissions • Access Control Lists (ACLs) • SELinux • Controlling SELinux • SELinux Contexts • Troubleshooting SELinux • Hands-on Lab: User and Group
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<ul style="list-style-type: none"> • Agenda • Kernel Modules • Kernel Module Configuration • The /proc filesystem • /proc/sys configuration with sysctl • General Hardware Resources • System Bus Support • Hotswappable Bus Support • System Monitoring and Process Control • Hands-on Lab: Configuring kernel parameters <p>UNIT 4 - Filesystem Management</p> <ul style="list-style-type: none"> • System Initialization: Device Recognition • Disk Partitioning • Managing Partitions • Managing Data: Filesystem Creation • Journaling for ext2 filesystems: ext3 • Mount Options and Configuration • The Auto-Mounter • ext2/ext3 Filesystem Attributes • Virtual Memory Files • Filesystem Maintenance • Adding a Drive:: Course RH131 :: • Hands-on Lab: Filesystem Management <p>UNIT 5 - Network Configuration</p> <ul style="list-style-type: none"> • Device Recognition • Network Interfaces • mii-tool • ifconfig • ifup/ifdown • Interface Configuration Files • Configuration Utilities • Binding Multiple IP Addresses • DHCP/BOOTP • Global Network Parameters • Default Route • Static Routes • Name Resolution • DNS Client Configuration • DNS Utilities • Network Diagnostics • Hands-on Lab: Static Network Settings <p>UNIT 6 - RPM and Kickstart</p> <ul style="list-style-type: none"> • The RPM Way • RPM Package Manager • Installing and Removing Software • Updating a Kernel RPM 	<p>Administration</p> <p>UNIT 8 - Printing and Administration Tools</p> <ul style="list-style-type: none"> • CUPS: Common Unix Printing System • Controlling Access to cron • System crontab Files • System Logging • syslog Configuration • Tape Drives • Using tar/star • Using dump/restore • Using cpio • Remote Backups • Other Backup Software • Hands-on Lab: Printing and Admin Tools <p>UNIT 9 - The X Window System</p> <ul style="list-style-type: none"> • XOrg: The X11 Server • XOrg Server Design • XOrg Server Configuration • XOrg Modularity • Server and Client Relationship • Configuration Utilities • Remote X Sessions • Hands-on Lab: The X Window System <p>UNIT 10 - Advanced Filesystem Management</p> <ul style="list-style-type: none"> • Software RAID Configuration • Software RAID Recovery • Converting LVM1 to LVM2 • Creating Logical Volumes • Resizing Logical Volumes • The Linux Quota System • Hands-on Lab: Logical Volumes, RAID and Quotas <p>UNIT 11 - Troubleshooting</p> <ul style="list-style-type: none"> • Basic Guidelines • Troubleshooting X • Troubleshooting Networking • Order of the Boot Process • Filesystem Corruption • Filesystem Recovery • Recovery Run-levels • Rescue Environment • Hands-on Lab: System Rescue and Troubleshooting
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