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Content of Certified Linux Administrator from EH1-Infotech

Module 1: System Administration Overview

- UNIX, Linux and Open Source
- Duties of the System Administrator
- Super users and the Root Login
- Sharing Super user Privileges with Others (su and sudo Commands)
- TCP/IP Networking Fundamentals
- Difference between Windows & Linux

Module 2: Basic Networking

- TCP/IP Fundamentals
- Review of Internet Addressing
- Network Services Overview
- Commonly Available Services
- Fundamental Network Configuration
- Files
- Network Control Scripts and
- Daemons

Module 3: Booting and Shutting Down Linux

- Boot Sequence
- System Startup and Shutdown
- Scripts
- The /etc/inittab File
- Run Levels
- chkconfig Command
- Shutdown Commands
- Handling Power Failures

Module 4: Installation and Configuration

- Planning: Hardware and Software
- Considerations
- Site Planning
- Installation Methods and Types
- Installation Classes

- Partitions
- File System Overview
- Swap Partition Considerations
- Other Partition Considerations
- Dual Boot with Windows
- Linux Loaders: LILO, MILO, SILO, GRUB
- Software Package Selection
- Adding and Configuring Peripherals
- Graphics Controllers
- Basic Networking Configuration
- File Sharing
- RDP
- VNC

Module 5: Basic Commands

- Ls
- Tab auto completion
- Man
- cd
- pwd
- mkdir
- rmdir
- cp
- mv
- rm
- find
- sudo
- su
- tar
- *
- ?
- |
- ◀ • nano
- grep
- vi
- etc

Module 6: Virtualization

- Virtual Machine
- VMWare

- Virtual-Box

Module 7: Managing Software and Devices

- Identifying Software Packages
- Using rpm to Manage Software
- Using Debian Software Commands
- Installing and Removing Software
- Identifying Devices
- Displaying Device and System Information (PCI, USB)
- Plug and Play Devices

Module 8: X Window System Administration

- X Window System Introduction
- Installation and Upgrading X
- Windows
- Configuring XFree86
- Utilities for Configuring X Windows
- Configuring the Graphics Driver and Mouse
- Selecting and Installing a Window Manager

Module 9: Managing Users and Groups

- Setting Policies
- User File Management
- The /etc/passwd file
- The /etc/shadow file
- The /etc/group file
- Adding Users
- Modifying User Accounts
- Deleting User Accounts
- Working with Groups
- Setting User Environments

Module 10: The Linux File System

- Conventional Directory Structure
- Mounting a File System
- The /etc/fstab File
- Special Files (Device Files)
- I nodes
- Hard File Links
- Soft File Links
- Creating New File Systems with mkfs
- The lost + found Directory
- Repairing File Systems with fsck
- The Journaling Attribute
- File and Disk Management Tools

Module 11: Linux File Security

- File Permissions
- Directory Permissions
- Octal Representation
- Changing Permissions
- Setting Default Permissions
- SUID Bit
- SGID Bit
- Setting the Sticky Bit

Test 1: Includes Module 1 to 11

Module 12: Working with the Linux Kernel

- Linux Kernel Components
- Classes of Kernels
- Applying Kernel Update Patches
- Kernel Configuration Options
- The Kernel Configuration Tool
- Recompiling the Kernel

Module 13: Shell and Perl Scripting

- Shell Script Fundamentals
- Bourne Shell Syntax Overview
- Shell Script Examples
- Fundamentals of Perl
- Using Perl for Administration

Module 14: Controlling Processes

- Characteristics of Processes
- Parent-Child Relationships
- Examining Running Processes
- Background Processes
- Controlling Processes
- Signaling Processes
- Killing Processes
- Automating Processes
- crond and crontab
- at and batch
- System Processes (Daemons)

Module 15: System Backups


- Backup Concepts and Strategies
- User Backups with tar and cpio
- System Backup Options
- The restore Command
- Rescuing Disks
- Clonezilla

Module 16: Troubleshooting the System

- Common Problems and Symptoms
- Troubleshooting Steps
- Repairing General Boot Problems
- Repairing LILO Problems
- Repairing the GRUB Boot Loader
- Memory Allocation
- Hard Drive Problems
- Repairing Corrupted Shared Libraries

- System Logs
- syslogd
- Configuring the syslogd Daemon

Module 17: Setting Up Mail

- Mail System Choices
 - Apache2, php5, postfix, dovecot
 - Installing and configuring mail using Squirrel Mail
- 

Test 2: Includes Module 12 to 17

Module 18: NFS, NIS, DHCP, and DNS



- Network File System (NFS)
- How to Configure the NFS Server
- Exporting NFS Shares
- How to Configure the NFS Client
- Purpose of NIS
- How to Configure NIS
- Implementing the Dynamic Host Configuration Protocol (DHCP)
- DHCP Configuration with Fixed and Leased Addresses
- Purpose of DNS
- Working with DNS
- How to Configure DNS
- The rndc.conf File
- Zone Files
- Running the named Daemon
- Networking Commands: telnet, ftp,sftp, rsh, rlogin, rcp
- FileZilla
- ◀ • Putty
- Bitwise
- Installing and Configuring Secure
- SSH (Secure Shell)

Module 19: The Apache Web Server

- What is Apache?
- Configuring the Apache Web Server
- Common Directives
- Apache Virtual Hosting

Module 20: Red-Hat Introduction

- Installation
- Subscription
- RPM Package Manager
- Client and Server
- Cent OS

Module 21: Introduction to System Security

- Security Overview
- Maintaining System Security
- Server Access
- Common System Hacking Options
- Physical Security
- Network Security
- Security Tools
- Preventing Break-Ins
- PAM Security Modules
- Scanning the System
- Maintaining File Integrity
- Installing and Configuring tripwire
- Security Scanning Using nessus
- Securing Linux Using LIDS
- Hardening the System Using
- Bastille
- Using Firewalls(Iptables)
- Packet Filtering with iptables
- Masquerading with iptables

Module 22: Red Hat System Administration 1

- Getting Started with the GNOME
- Graphical Desktop

- Manage File Graphically with
- Nautilus
- Get Help in a Graphical

Module 23: Red Hat System Administration 2

- Automated Installations of Red Hat
- Enterprise Linux
- Controlling Access to Files
- Accessing the Command Line
- Managing SE Linux
- Intermediate Command Line Tools
- Installing and Managing Software
- Regular Expressions Pipelines and
- I/O Redirection
- Managing Installed Services
- Network Configuration and Troubleshooting
- Analyzing and Storing Logs
- Managing Simple Partitions and
- File systems
- Managing Processes
- Managing Flexible Storage with
- Logical Volumes
- Tuning and Maintaining the Kernel
- Access Network File Sharing
- Services
- Troubleshooting
- Managing User Accounts

Module 24: Red Hat System Administration 3

- Enhance User Security
- Centralized and Secure Storage
- Bash Scripting and Tools
- SSL-encapsulated Web Services
- File Security with GnuPG
- Web Server Additional
- Configuration
- Software Management
- Basic SMTP Configuration
- Network Monitoring
- Caching-Only DNS Server

- Route Network Traffic
- File Sharing with NFS
- Secure Network Traffic
- File sharing with CIFS
- NTP Server Configuration
- File sharing with FTP
- File systems and Logs
- Troubleshooting Boot Process

Test 3: Includes Module 18 to 24

Module 25: Ethical Hacking Implementation & Security

Module 26: Project Work Mandatory

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