Red Hat Enterprise Linux (RHEL) Systems Administration 2

Course Summary

Length: 5 Days

Prerequisite: Red Hat Enterprise Linux Systems Administration 1 (or equal experience)

Recommendation Statement:
For RHEL Administrators who have completed the Red Hat Enterprise Linux Systems Administration 1 course or have equivalent experience.

Course Description:
This course builds on the skills taught in the Red Hat Enterprise Linux Systems Administration 1 course focusing on storage, networking and advanced installation topics.

This course teaches all of the topics that are included in the Red Hat ® RH134 course

Upon completion of this course, you should be able to:

- Automate the installation using Kickstart
- Understand and control the boot process
- Advanced file editing and management utilities
- File systems and logical volumes
- Scheduling processes and tasks
- Manage network file systems and network attached storage
- Manage Security Enhanced Linux (SELinux)
- Advanced file security using ACLs
- Administer firewalls
- Advanced Troubleshooting

Follow up Course: Red Hat Enterprise Linux (RHEL) Systems Administration 3

Red Hat Enterprise Linux Systems Administration 2

Detailed Course Outline

1. **Automate the Installation with Kickstart**
    a. Kickstart installation
    b. Installing using Anaconda
2. **Advanced File Management**
    a. Searching files with grep
    b. Edit files using vim
3. **Schedule Linux Tasks**
    a. Schedule and Automate tasks
    b. Using at/batch/cron
    c. Administering cron
4. **Manage Process Priorities**
    a. View and manage processes
    b. Tune processes
5. **Control Access to Files using ACLs**
    a. File and Directory permissions
    b. Administering file access control lists (FACLs)
6. **Manage SELINUX Security**
    a. SELinux framework
    b. SELinux modes
    c. SELinux commands
    d. SELinux policies
    e. SELinux tools
    f. SELinux troubleshooting
7. **Adding Storage**
    a. Adding disks
    b. Partition disks
    c. Create file systems
    d. Manage XFS file systems
    e. Manage swap
8. **Manage Logical Volumes (LVMs)**
    a. Understand LVM concepts
    b. Implement LVM
    c. Create volumes
    d. Manage and modify Vgs and LVs from the command line
    e. Advanced LVM concepts
    f. gnome-disk-utility
9. **Administer Network Attached Storage with SMB**
    a. Access Windows and Samba shares
    b. Understand and configure AutoFS
10. **Control the Boot Process**
    a. Understand and administer GRUB2
    b. Understand boot parameters
    c. Understand the role of init and system
    d. systemd configuration
    e. Understand the role of init and systemd
    f. System run levels
    g. System configuration files
    h. System shutdown procedures
11. **Network and Firewall Configuration**
    a. Netfilter: Stateful Packet Filter Firewall
    b. Netfilter concepts
    c. iptables
    d. Netfilter rule syntax
    e. Targets
    f. Common math_specs
    g. Connection tracking
    h. FirewallD
12. **Lab Exercises**
    a. Lab exercises will be provided at the completion of each section