

Linux System Administrator I & 2

Duration 5 Days

OBJECTIVES

This course is designed for IT staff that is new to Linux and plan to Linux system administrator. In course, students will be able to perform installation, network configure, manage physical storage, and understand system administrator work.

PREREQUISITES

System administrator experience is helpful but not required.

OUTLINE

Day 1

- Class room environment
- History of Linux
- History of Red Hat, Centos and Fedora
- Fundamental of File system structure
- Fundamental of TCP/IP Networking
- Prepare information for 1st time Linux installation
- Step-by-Step 1st time Linux installation
- Post installation check and setting
- Basic Linux command
- Add and Delete User
- Basic command for file and directory management
- Summary and Q&A

Day 2

- History of Free Software and Open source
- Another Linux distribution
- Difference between UNIX and Linux
- Root and user prompt
- Re-direction symbol and information (>, >>, |, 2>)
- Shell script fundamental
- Schedule task with cron
- Directory structure and management
- Disk partition management
- Monitor and Controller System tool (top, ps, kill)
- Remote from another machine to Linux (telnet, secure shell, GUI remote)
- Summary Q&A

Day 3

- System Administrator job
- Management and routine work for System Administrator
- Software update and Package management (GUI and yum)
- Basic TCP/IP network command (ifconfig, netstat, route)
- Network environment file (hosts, node name, nsswitch.conf)
- Deploy an FTP server and web server
- Manage a firewall and understand SELinux concepts and manage SELinux

- Log file management
- Backup and restore concept and command
- Configure general service
- Compress tool command
- Problem and troubleshooting
- Summary Q&A

Day 4

- 32 and 64 bits platform relate with Operation system
- Introduction RAID and LVM concept
- Manage RAID storage and LVM
- Managing Installed Services (Enable/Disable)
- Explain Security and Firewall concept
- Managing Security/Firewall with iptables and SELinux
- Resource monitoring command (top, iostat, sar, etc.)
- Manage resource (process, cpu)
- Understand Log file
- Managing Log file
- Backup and Restore system with command tool
- Overview X windows concept (Server/client)
- Summary and Q&A

Day 5

- Network configuration and troubleshooting tool
- Network management by DHCP server
- Configure and run HTTP server
- Deploy FTP server and NFS service
- Installation Mysql database server and manage by phpMyAdmin
- Configure and run System Managing module with Webmin
- Explain concept and setup Web proxy service with SQUID
- Control access internet service by proxy authentication
- Understand Virtual Machine on Linux
- Deploy and Managing Linux Virtual Machine
- Problem and troubleshooting system
- Summary and Q&A