

Linux System Administration Level 2

Course Duration: 1 month

- 1. Automating Installation with Kickstart
 - Defining the Anaconda Kickstart System
 - Practice: Kickstart File Syntax and Modification
 - Deploying a New Virtual System with Kickstart
 - Practice: Installing a System Using Kickstart
 - Chapter Test: Automating Installation with Kickstart
- 2. Using Regular Expressions with grep
 - Regular Expressions Fundamentals
 - Practice: Match the Regular Expression
 - Matching Text withgrep
 - Practice: Using grepwith Logs
 - Lab: Using Regular Expressions with grep
- 3. Creating and Editing Text Files with vim $S P \vee T$. LT
 - Lab: Edit a System File with vim
 - Practice: Edit a File with vim
 - Editing with vim
 - Practice: Basic vim Workflow
 - Basic vim Workf low
 - Practice: vim Modes
 - The vim Text Editor
- 4. Scheduling Future Linux Tasks
 - Scheduling One-Time Tasks with at
 - Practice: Scheduling One-Ti me Tasks with at
 - Scheduling Recurring Jobs with cron
 - Practice: Scheduling Recurring Jobs with cron

- Scheduling System cron Jobs
- Practice: Scheduling System cron Jobs
- Managing Temporary Files
- Practice: Managing Temporary Files
- Chapter Test: Scheduling Future Linux Tasks
- 5. Managing Priority of Linux Processes
 - Process Priority and "nice" Concepts
 - Practice: Process Priority and "nice" Concepts
 - Using nice and renice to Influence Process Priority
 - Practice: Discovering Process Priorities
 - Lab: Managing Priority of Linux Processes
- 6. Controlling Access to Files with Access Control Lists (ACLs)
 - POSIX Access Control Lists (ACLs)
 - Practice: Interpret ACLs
 - SecuringFiles with ACLs
 - Practice: Using ACLs to Grant and Limit Access
 - Lab: Controlling Access to Files with Access Control Lists (ACLs)
- 7. Managing SELinux Security
 - Enabling and Monitoring Security Enhanced Linux(SELinux)
 - Practice: SELinux Concepts IONS PVT. LTD.
 - Changing SELinux Modes
 - Practice: Changing SELinux Modes
 - Changing SELinux Contexts
 - Practice: Changing SELinux Contexts
 - Changing SELinux Booleans
 - Practice: Changing SELinux Booleans
 - Troubleshooting SELinux
 - Practice: Troubleshooting SELinux
 - Lab: Managing SELinux Security
- 8. Connecting to Network-defined Users and Groups
 - Using Identity Management Services
 - Practice: Connecting to a Central LDAP and Kerberos Server
 - Lab: Connecting to Network-defined Users and Groups

- 9. Adding Disks, Partitions, and File Systems to a Linux System
 - Adding Partitions, File Systems, and Persistent Mounts
 - Practice: Adding Partitions, File Systems, and Persistent Mounts
 - Managing Swap Space
 - Practice: Adding and Enabling Swap Space
 - Lab: Adding Disks, Partitions, and File Systems to a Linux System

10. Managing Logical Volume Management (LVM) Storage

- Logical Volume Management Concepts
- Practice: Logical Volume Management Concepts
- Managing Logical Volumes
- Extending Logical Volumes
- Practice: Adding a Logical Volume
- Practice: Extending a Logical Volume
- Lab: Managing Logical Volume Management (LVM) Storage
- 11. Accessing Network Storage with Network File System (NFS)
 - Mounting Network Storage with NFS
 - Practice: Mounting and UnmountingNFS
 - Automounting Network Storage with NFS
 - Practice: Automounting NFS
 - Lab: Accessing Network Storage with Network File System (NFS)
- 12. Accessing Network Storage with SMB
 - Accessing Network storage with SMB
 - Practice: Mounting a SMP File System
 - Lab: Accessing Network Storage with SMB

13. Controlling and Troubleshooting the Red Hat Enterprise Linux Boot Process

- The Red Hat Enterprise Linux Boot Process
- Practice: Selecting a Boot Target
- Repairing Common Boot Issues
- Practice: Resetting a Lost root Password
- Repairing File System Issues at Boot
- Practice: Repairing Boot Problems
- Repairing Boot Loader Issues

- Practice: Repairing a Boot Loader Problem
- Chapter Test: Controlling and Troubleshooting the Red Hat Enterprise Linux Boot Process

14. Limiting Network Communication with firewalld

- Limiting Network Communication
- Practice: Limiting Network Communication
- Lab: Limiting Network Communication

