

Oracle Linux 8: System Administration I

Duration: 5 days – 30 hours

Description:

This course is first in a series of three Oracle Linux 8 System Administration courses that covers the system administration tasks. The lab environment is validated against the latest Oracle Linux 8 release.

The course covers the following topics:

- Install and complete initial setup of Oracle Linux
- Configure the Unbreakable Enterprise Kernel for Oracle Linux
- Oracle Ksplice for updates without rebooting
- Configure users, storage, and network interfaces on Oracle Linux
- Preparation of the Oracle Linux server for the installation of Oracle Database
- Monitor and troubleshoot Oracle Linux

Course Objectives:

Learn how to:

- Configure Passwordless authentication
- Configure Date, Time, and Chrony
- Automate Tasks with cron and systemd

- Use Loadable Kernel Modules
- Use systemctl, rpm and dnf
- Create a Local Yum Repository
- Install the Ksplice Offline Client
- Administer User and Group Accounts
- Restrict the Use of the su Command
- Allow the Use of the sudo Command
- Partition Storage Device, create ext4 File Systems, and Increase Swap Space
- Configure Network Interface
- Use nmcli, nmtui, and ip
- Configure firewalld and nftables
- Install and Run Oracle Database Preinstall
- Prepare Disks for ASM Use
- Use sosreport to Collect System Information
- Use Standard Linux Performance Monitoring Tools
- Use OSWatcher and OSWatcher Analyzer
- Use rsyslog Templates, logwatch, and systemd-journald

Course Content:

- 1 Course Introduction
- 2 Introduction to Oracle Linux
- 3 Installing Oracle Linux 8
- 4 OpenSSH
- 5 The GRUB Bootloader
- 6 Introduction to systemd
- 7 Managing Time
- 8 Kernel and Device Configuration
- 9 Package Management
- 10 Oracle Ksplice
- 11 User and Group Administration
- 12 Partitions, File Systems, and Swap

- 13 Network Configuration
- 14 Network Security
- 15 Oracle on Oracle
- 16 System Monitoring and Management
- 17 System Logging
- 18 Troubleshooting