

## Oracle Linux System Administration II

Oracle Linux System Administration II teaches you how to automate the installation of the operating system and implement advanced software package management. How to configure advanced networking and authentication services.

### Learn To

This Oracle Linux System Administration II training is ideal for experienced administrators who need to learn more advanced skills for working with Oracle Linux.

You'll learn how to automate the installation of the operating system, configure advanced networking services and work in greater depth with authentication solutions and various internet services. You will become proficient at working with advanced storage solutions and implementing multiple directory and file sharing services.

#### Learn To:

- Configure DNS, DHCP, Samba, and other network services
- Build an Apache HTTP Server
- Configure authentication services with LDAP, PAM, Kerberos and IPA
- Automate installation using Kickstart and PXE
- Configure file sharing with SAMBA
- Use advanced package management features
- Configure network bonding, VLANs, and VPNs
- Create LVM storage and build XFS and Btrfs filesystems
- Explore and configure Udev

#### Benefits To You

After taking this course, you will be equipped to use the advanced features of Oracle Linux 7 to get the most out of your systems and applications. You'll learn how to automate Oracle Linux installations and implement networking and authentication services to facilitate the management of a large number of systems. You'll also learn how to use Kickstart with an HTTP server and PXE services to automate the installation of the operating system. Discover how to take advantage of XFS, which improves file system performance, and Btrfs with its data integrity, copy-on-write, and snapshot functionality.

#### Gain Hands-On Experience

Extensive hands-on practices will guide you through each concept. You will configure network services and authentication services, configure network storage and shared file system types. You will also configure different virtualization technologies to better utilize system resources such as CPU, memory, network and I/O bandwidth, and to allocate these system resources to critical processes.

## Prerequisites

Oracle Linux System Administration I

## Audience

- Linux Administrator
- Cloud Administrator
- System Integrator
- Data Center Manager
- Technical Consultant
- System Architect
- Application Developers
- Support Engineer
- System Analysts
- Technical Consultant
- Database Administrators
- Developer
- System Administrator
- Technical Administrator
- Web Administrator

## Course Objectives

- Describe DHCP, DNS, BIND and configure a DHCP server
- Discuss and configure LDAP, Winbind and Kerberos authentication
- Describe IPA Identity Management and SSSD services and domains
- Build an Apache HTTP Web Server and SMTP server
- Describe SMTP server and associated protocols
- Describe Kickstart and configure a Preboot Execution Environment (PXE)
- Configure SAMBA and NFS file sharing
- Implement advanced software package management with RPM and YUM
- Configure network bonding, link aggregation groups (LAG) and VLANs
- Build IPsec VPNs for secure site-to-site communications
- Work with Logical Volume Manager (LVM), thin provisioning, snapper, and RAID.
- Implement XFS and Btrfs file systems
- Perform advanced storage administration using disk quotas
- Configure Kerberos authentication and IPA Identity Management

## Course Topics

- Network Addressing and Name Services
- Authentication and Directory Services
- Pluggable Authentication Modules (PAM)
- Web and Email Services
- Installing Oracle Linux with Kickstart
- Samba Services
- Advanced Software Package Management
- Advanced Networking
- Implementing the XFS File System
- Implementing the Btrfs File System
- Storage Administration
- Advanced Storage Administration
- File Sharing
- Kerberos and IPA Services