

## Oracle Linux System Administration I

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### Learn To

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This course teaches you how to handle common tasks faced by administrators. You learn to understand the kernel development model and learn about Linux distributions. You hear about Oracle's comprehensive solution and Oracle's contributions to the Linux community.

#### Learn to:

- Enable kernel features
- Set up users and groups
- Configure system logging, the boot process, the network, and storage
- Install additional software packages
- Keep the kernel and select user space libraries up to date by using Oracle Ksplice
- Configure services such as NTP, OpenSSH, firewalld, and iptables

#### Benefits To You:

Oracle Linux brings you the latest Linux innovations, delivering extreme performance, advanced scalability, and reliability for enterprise applications and systems. Implementing Ksplice provides you zero down time kernel updates.

### Prerequisites

UNIX and Linux Essentials Ed 2

### Audience

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

- System Analyst
- Developer
- Technical Administrator
- Web Administrator

## Course Objectives

- Install Oracle Linux 7
- Load and configure the Unbreakable Enterprise Kernel
- Install software packages from Unbreakable Linux Network and other repositories
- Use Ksplice to update the kernel on a running system
- Load kernel modules and configure kernel module parameters
- Perform user and group administration
- Create Ext file systems
- Manage swap space
- Configure networking
- Utilize OpenSSH tools (ssh, scp, sftp, ssh-keygen)
- Perform security administration (firewalld, iptables, chroot, TCP wrappers)
- Prepare Oracle Linux system for Oracle Database
- Utilize Linux monitoring tools
- Configure system logging
- Troubleshoot problems and perform corrective action

## Course Topics

- Introduction to Oracle Linux
- Oracle Cloud Computing
- Installing Oracle Linux 7
- Oracle Linux 7 Boot Process
- System Configuration
- Package Management
- Automating Tasks
- Kernel Module Configuration
- Oracle Ksplice
- User and Group Administration
- Partitions, File Systems, and Swap
- Network Configuration
- IPv6
- OpenSSH
- Security Administration
- Oracle on Oracle
- System Monitoring and Management
- System Logging
- Troubleshooting