

Oracle Linux 7: What's New for Administrators

Course Introduction

- Course Goals
- Course Schedule
- Virtualization with Oracle VM Server for x86
- Classroom System Configuration

Installing Oracle Linux 7

- Obtain Oracle Linux
- Anaconda installer
- Install Oracle Linux 7
- Upgrade from Oracle Linux 6

Oracle Linux 7 Boot Process

- GRUB 2 Bootloader
- systemd System and Service Manager
- systemd Service Units
- systemd Target Units
- systemctl Utility

Network Configuration

- Network Interface Configuration Files
- NetworkManager
- nmcli Utility
- ip Utility

System Configuration

- Configuring System Date and Time
- timedatectl Utility
- Network Time Protocol (NTP)
- Configuring NTP by using Chrony

Advanced Software Package Management

- Popular Yum Plug-Ins
- Managing Errata
- PackageKit Software Update
- The Enhanced Ksplice Client

Storage Administration

- LVM thin provisioning
- Snapper
- System Storage Manager (SSM)
- iSCSI
- Udev

Security Administration

- Packet-Filtering Firewalls
- firewalld Service
- firewall-cmd Utility

System Logging

- Oracle Linux 7 system logging options
- journald Service
- journalctl Utility

OpenLDAP

- Configuring an OpenLDAP server
- Implementing OpenLDAP authentication
- Authenticating from an OpenLDAP client

Control Groups (Cgroups)

- Cgroup Integration into systemd
- systemd slice units and scope units
- Controlling Access to System Resources

Docker

- Introduction to Docker
- Docker Images and Docker Containers
- Docker Hub Registry
- Docker Command-Line Interface

Advanced Networking

- Network Bonding
- Virtual Local Area Networks (VLANs)
- Virtual Private Networks (VPNs)