

Oracle Linux: System Administration on Oracle Cloud Infrastructure

Ed 3 LVC

Oracle Cloud Infrastructure

DURATION

3 Days

MODULES

6 Lectures

COURSE CODE

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Course Overview

Benefits to you Learn directly applicable skills for managing enterprise Linux systems in the cloud Automate OS updates and compliance using OS Management Hub Reduce downtime with Ksplice live patching Enable scalable and resilient storage solutions with iSCSI and OCFS2 Enhance your professional cloud and Linux system administration credentials

What You Will Learn

Module 1: Course Introduction

- Course Topics Overview
- Course Lessons Overview
- OCI Linux Administration Demo
- OCI Console Demo

Module 2: Foundations of OCI

- Objectives of OCI Foundation
- Complete Cloud Infrastructure Platform
- OCI Architecture Overview
- Availability Domains and Avoiding Single Points of Failure
- OCI Walk-Through Demo
- OCI Identity Concepts
- Cloud Resources and Compartments
- Resource Compartments, Access, and Interaction
- Movement of Resources Across Regions
- Nested Compartments
- Setting Quotas and Budgets
- Compartment Demo
- Compute in OCI

- Flexible Shapes and Processor Choices
- Identifying OCI Resources
- Example OCIDs
- Compute Shapes and OCID Demo
- Creating an Instance in OCI
- Storage Requirements and OCI Storage Services
- Create an Instance Demo
- Summary

Module 3: Introduction to Oracle Linux

- Objectives
- OCI Resources Demo
- Linux Architecture, Kernel, and OCI Cloud Shell
- Linux OS Architecture
- Oracle Cloud Shell Connection and Demo
- Linux File System Hierarchy
- Accessing Linux Hosts in OCI
- Direct Access via IP
- Indirect Access via Bastion Jump Host
- Connecting with SSH
- VIM Editor
- VIM Editor Overview and Workflow
- Steps to Create a Script
- Editing & Creating Scripts Demo
- Manage Users and Groups
- Command-Line Tools for User and Group Management
- Users and Groups Demo
- Summary

Module 4: Operating System Management

- Objectives
- Enabling and Configuring OCI Utilities
- Use Cases for OCI Utilities
- Demo: Enabling OCI Utilities
- OS Management Hub Overview
- Ease of Use and Accessing Functions
- Requirements and Root Compartment Resources
- User Compartment Policy
- Instance Details and Grouping Instances by OS/CPU Type
- Demo: OS Management Hub Prerequisites and Setup
- Managing Linux OS Compliance
- Checking OS Security and Compliance
- Viewing Compliance Information
- Verifying Compliance and Installing Updates
- Enabling and Using OSMH Agent

- Adding Instances to Groups and Managing Group Members
- Example Jobs and Logs
- Demo: Viewing Instance Compliance
- Summary

Module 5: Patching and GUI Configuration

- Objectives
- Ksplice for Zero Downtime Security Patching
- Dedicated OCI Ksplice Resources
- Using Ksplice Demo
- Enabling GUI and Configuring VNC Access
- Use Cases for GUI on OCI Linux Instances
- Install Linux Services for GUI
- Configure VNC for opc User and Server Properties
- Welcome to Linux Desktop!
- Optional: Enable Unsecure VNC Access (No Encryption)
- VNC Setup Demo
- Summary

Module 6: Managing iSCSI and OCFS Storage

- Objectives
- Storage Management Demo
- OCI Utilities for iSCSI Storage Management
- Managing iSCSI Volumes
- Preparing to Use iSCSI Utilities
- Sample iSCSI Commands
- Volume Management Demo
- Configuring iSCSI Target and Initiator
- Target and Initiator Demo and Topology
- Configuring Target Instance (targetcli Tool Setup)
- Complete iSCSI Target Configuration Demo
- Configuring Initiator Instance
- Connect and Use iSCSI Share
- iSCSI Initiator Demo
- Configuring and Testing OCFS Cluster
- OCFS Cluster Demo
- OCFS2 Topology and Setup
- Configure Cluster Members and Mount Shared Volume
- OCFS Cluster Setup Demo
- Summary