

Oracle Linux 8: System Administration III

Duration: 5 Days

Course Outlines:

Practices for Lesson 1: Course Introduction

- Course Practice Environment: Security Credentials
- Practices for Lesson 1: Overview
- Practice 1-1: Exploring the Gateway Environment
- Practice 1-2: Exploring the host01 VM
- Practice 1-3: Exploring the host02 VM
- Practice 1-4: Exploring the host03 VM
- Practice 1-5: Exploring the host04 VM
- Practice 1-6: Exploring the host05 VM

Practices for Lesson 2: OCFS2 and Oracle Clusterware

- Practices for Lesson 2
- Practice 2-1: Preparing for an OCFS2 Configuration
- Practice 2-2: Configuring the Cluster Layout
- Practice 2-3: Configuring and Starting the O2CB Cluster Stack Service
- Practice 2-4: Creating an OCFS2 Volume
- Practice 2-5: Mounting an OCFS2 Volume
- Practice 2-6: Tuning and Debugging OCFS2

Practices for Lesson 3: iSCSI and Multipathing

- Practices for Lesson 3: Overview
- Practice 3-1: Configuring an iSCSI Server (Target)
- Practice 3-2: Configuring an iSCSI Client (Initiator)
- Practice 3-3: Configuring iSCSI Multipathing
- Practice 3-4: Clean Up for Use in Subsequent Practices

Practices for Lesson 4: Managing Resources with Control Groups

- Practices for Lesson 4: Overview
- Practice 4-1: Exploring cgroup Integration into systemd
- Practice 4-2: Exploring cgroup Hierarchies and cgroup Subsystem Parameters
- Practice 4-3: Controlling Access to System Resources

Practices for Lesson 5: Virtualization with Linux

- Practices for Lesson 5: Overview

Practices for Lesson 6: Open Container Initiative & Podman

- Practices for Lesson 6: Overview
- Practice 6-1: Installing and Configuring Docker
- Practice 6-2: Using Registries: Docker Hub and Oracle Container Registry
- Practice 6-3: Working with Docker Containers and Images
- Practice 6-4: Running Podman Containers with systemd

Practices for Lesson 7: Oracle Linux Cloud Native Environment - Kubernetes

- Practices for Lesson 7: Overview

Practices for Lesson 8: Security Enhanced Linux (SELinux)

- Practices for Lesson 8: Overview
- Practice 8-1: Exploring SELinux
- Practice 8-2: Configuring SELinux Context

Practices for Lesson 9: OpenSCAP

- Practices for Lesson 9: Overview
- Practice 9-1: Using the oscap Command-Line Interface
- Practice 9-2: Auditing the System by Using an OVAL Definition File

Practices for Lesson 10: OpenSSL

- Practices for Lesson 10: Overview
- Practice 10-1: Encrypt and Decrypt By Using Symmetric Algorithms
- Practice 10-2: Encrypt and Decrypt a File by Using RSA Encryption
- Practice 10-3: Generate a Self-Signed Root Certificate

Practices for Lesson 11: Introduction to Linux Internals

- Practices for Lesson 11: Overview
- Practice 11-1: Install the Oracle Linux Kernel Source Code
- Practice 11-2: Explore the Oracle Linux Kernel Source Tree
- Practice 11-3: Compile C Programs
- Practice 11-4: Create a Shared Library

Practices for Lesson 12: Linux Auditing System

- Practices for Lesson 12: Overview
- Practice 12-1: Using the Linux Auditing System
- Practice 12-2: Configure Linux Auditing System Call Rules
- Practice 12-3: Audit Log File Analysis and Reporting

Practices for Lesson 13: Core Dump Analysis

- Practices for Lesson 13: Overview
- Practice 13-1: Configure Kdump
- Practice 13-2: Prepare Your System to Analyze vmcore
- Practice 13-3: Using the crash Utility

Practices for Lesson 14: Performance Management with Tuned

- Practices for Lesson 14: Overview
- Practice 14-1: Explore Tuned
- Practice 14-2: Add and Customize Tuned Profiles

Practices for Lesson 15: Using Gluster Storage

- Practices for Lesson 15: Overview
- Practice 15-1: Install and Configure a Gluster Server
- Practice 15-2: Create a Gluster-Trusted Storage Pool
- Practice 15-3: Configure the Gluster Native Client

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