

**OD-19c-CAW: Oracle Database 19c:  
Clusterware Administration Workshop**

Course Code: OD-19c-CAW

Duration: 4 days

Instructor-led Training (ILT) | Virtual Instructor-  
led Training (VILT)**OVERVIEW**

This course teaches you general cluster concepts and Oracle Clusterware architecture. In this course you will learn in-depth understanding of installing, configuring, patching and maintaining Oracle Clusterware 19c.

**SKILLS COVERED**

After completing this course, you will be able to:

- Configure a Standalone Flex Cluster
- Add a New Hub Node to the Cluster
- Create an additional ASM disk group
- Install RAC Database Software
- Create a RAC Database
- Start and Stop Oracle Clusterware
- Add and Remove Oracle Clusterware Configuration Files
- Perform Backup of the OCR and OLR
- Configure Network Interfaces Using oifcfg
- Work with SCANs, SCAN Listeners, and GNS
- Recover from Voting Disk Corruptions
- Configure and Use Policy-Based Cluster Management
- Work with CLUVFY
- Work with Cluster Health Monitor and Cluster Health Advisor
- Create and Manage Clusterware Resources and Resource Groups

**WHO SHOULD ATTEND?**

This course intended for Database Administrators and Implementer.

**PREREQUISITES**

- Oracle Database 19C: Administration Workshop

**COURSE CONTENTS**

## Lesson 01: Oracle Clusterware Architecture

- Oracle Clusterware Architecture
- Voting Disk Considerations
- Clusterware Startup Details: OHASD oraagent

## Lesson 02: Introduction to Clusterware

- Introduction to Clusterware
- Oracle Clusterware Networking

## Lesson 03: Cluster Configuration Options

- Cluster Configuration Options
- Oracle Member Cluster for Applications

## Lesson 04: Grid Infrastructure: Preinstallation Tasks

- Grid Infrastructure: Preinstallation Tasks
- Enabling the Name Service Cache Daemon (nscd)
- Private Interconnect Network Requirements
- Oracle Linux with the Unbreakable Enterprise Kernel

## Lesson 05: Grid Infrastructure Installation

- Grid Infrastructure Installation
- Specify Installation Location

#### Lesson 06: Managing Cluster Nodes

- Managing Cluster Nodes
- Deleting a Node from the Cluster

#### Lesson 07: Traditional Clusterware Management

- Traditional Clusterware Management
- Checking the Integrity of Oracle Clusterware Configuration Files
- Restoring the OCR on Linux or UNIX Systems
- Oracle Local Registry
- SCAN Listeners and Valid Node Checking

#### Lesson 08: Policy-Based Cluster and Capacity Management

- Policy-Based Cluster and Capacity Management
- Moving Servers Between Server Pools
- Policy-Based Cluster Management and QoS Management

#### Lesson 09: Upgrading and Patching Grid Infrastructure

- Upgrading and Patching Grid Infrastructure
- Completing a Clusterware Upgrade When Nodes Become Unreachable
- OPatch: Overview

#### Lesson 10: Monitoring and Troubleshooting Oracle Clusterware

- Monitoring and Troubleshooting Oracle Clusterware
- oclumon Utility
- CHA Key Performance and Workload Indicators
- Cluster Resource Activity Log (CALOG)
- Rebootless Node Eviction

#### Lesson 11: Making Applications Highly Available with Oracle Clusterware

- Making Applications Highly Available with Oracle Clusterware
- Using Clusterware to Enable High Availability
- Deciding on a Deployment Scheme
- Resource Group: Overview

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