

Oracle Grid Infrastructure 11g: Administer and Deploy Clusterware - LVC

Duration: 2 Days

What you will learn

In this course you gain a deep understanding of Oracle Clusterware including the software stack, process families, and file structures. You also learn how to administer Oracle Clusterware. The course teaches you how to install Oracle Clusterware on a two-node system and then extend the installation to more nodes utilizing several techniques. The course also covers how to leverage Oracle Clusterware to make applications highly available and how to perform monitoring and failover. In addition, you learn how to troubleshoot Oracle Clusterware by examining log files, enabling debugging and tracing for various utilities. Finally, you learn how to apply a patch set to Oracle Clusterware using the rolling upgrade procedure.

Learn to:

Install Oracle Clusterware

Administer Oracle Clusterware

Troubleshoot Oracle Clusterware

Apply a patchset to Oracle Clusterware

This course is based on Oracle Database 11g Release 1.

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Audience

Administrator

Database Administrators

Support Engineer

Technical Administrator

Prerequisites

Required Prerequisites

Understanding of Unix or Linux operating systems

OS knowledge

Course Objectives

Describe the Oracle Clusterware architecture

Install the Oracle Clusterware software

Administer Oracle Clusterware

Extend the Oracle Clusterware to additional nodes

Make applications highly available using Oracle Clusterware

Troubleshoot Oracle Clusterware

Apply a patch using the rolling upgrade procedure

Course Topics

Oracle Clusterware Architecture

- What is Oracle Clusterware
- Complete Integrated Clusterware
- Hardware and Software Concepts
- Protected Applications with Oracle Clusterware
- Process Architecture
- File System Structures

Oracle Clusterware Installation

- Oracle Clusterware Version Compatibility
- Oracle RAC 11g Installation
- Windows and UNIX Installation Differences
- Hardware Requirements
- Network Requirements
- Package Requirements

Administering Oracle Clusterware

- Oracle Clusterware startup and shutdown
- Enabling and Disabling Clusterware Daemons
- Administering the Voting Disk file
- Administering the Oracle Cluster Registry Disk file
- Modifying Network Settings

Cloning Oracle Clusterware

- Preparing the CRS_HOME for cloning
- Cloning Oracle Clusterware to create a new cluster
- Cloning to Extend and existing cluster
- Cloning Script Variables
- Examining log files for cloning

Adding and Deleting Oracle Clusterware Homes

- Prerequisite Steps for Adding Oracle Clusterware
- Adding Oracle Clusterware Homes Using insert active and silent mode
- Deleting Oracle Clusterware Homes

Making Applications Highly Available Using Oracle Clusterware

- Overview of Using Oracle Clusterware to Enable HA
- Flow diagram of the HA lifecycle
- Application Placement Policies
- Optional Resources in Placement Decisions
- Creating Application Profiles
- Creating an Application VIP
- Managing Application Resources

Troubleshooting Oracle Clusterware

- Oracle Enterprise Manager monitoring capabilities
- Checking the health of the Clusterware

- Component Level Debugging
- Enabling Tracing for Java Based Tools
- Determining Software Versions and Active Versions
- Troubleshooting the OCR file
- Verifying Event Manager Communications

Patching Oracle Clusterware using Rolling Upgrade Procedure

- Metalink for latest patch set
- Downloading latest patch set
- Shutting down RAC resources
- Stopping all Oracle processes
- Running OUI to complete patch installation for 1st node
- Repeat process on remaining nodes