Oracle 12c Administration I

Course Overview

View Course Dates & Register Today

This is a 5-day class

In this course, students will focus on configuration on supported systems. Also how the database fits in with other systems.

Course Objectives

Upon successful completion of this course, students will be able to understand configuration for installation, configuration of a host system, using Oracle Restart framework, troubleshooting tips, how the database fits with other systems, internals of the database, database failures and other topics.

Course Outline

1 ORACLE DATABASE ARCHITERCTURE OVERVIEW

The Database Instance
Database Memory Structures
Database Process Structures
Database Storage Architecture
Oracle Clusterware

2 CONFIGURING THE HOST FOR STANDALONE INSTALLATION

Host Configuration Overview
Choosing a Database Host
Choosing an Operating System
Proprietary Unix vs Open-Source Linux
Making the OS Selection
Prepare an Oracle LINUX Installation
Perform Oracle LINUX Installation
Configure the LINUX Host
Step 1 - Confirm General System Requirements
Step 2 - Confirm The Operating System Platform
Step 3 - Confirm LINUX Package Requirements
Step 4 - Confirm Network Configuration
Configure Host for Virtualization
VM Technologies
Configure Oracle Linux for Virtualization
Step 1 - Download Linux Updates
Step 2 - Check Linux Kernel
Step 3 - Download Latest yum Configuration File
Step 4 - Enable Oracle Linux Add-ons
Step 5 - Install VirtualBox
Oracle Optimal Flexible Architecture
OFA Goals
ORACLE_BASE
ORACLE_HOME
Database Files
Multiple ORACLE_HOMEs
Database Software Upgrades
Multiple Oracle Software Installations

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3 GRID INFRASTRUCTURE CONFIGURATION

Configure the Linux Installation
About ASM Devices
Configure Linux Devices for ASM
Partitioning a Device
Oracle ASMLib
Configure MS Windows Devices

4 GRID INFRASTRUCTURE CONFIGURATION

Perform the Installation
Download
Unpack the Installation Package
Launch the Installation Session
The Installation Dialog
Verify the Installation
Operating System Confirmation
Oracle Utilities Setup
SQL*Plus Confirmation
Using EM Cloud Control
Troubleshooting Problems

5 DATABASE INSTALLATION CONFIGURATION

Configure a Linux Installation
System Groups & Users
Configure Kernel Parameters
Create the Physical Directories
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Prerequisite Checks & Fixup Utility

6 DATABASE INSTALLATION

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The Installation Tools
About The Installation Dialog
The Installation Session Log
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Unpack The Installation Files
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More About The Global Database Name
About Enterprise Manager Cloud Control
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Defining The Environment Variables
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VERIFY THE INSTALLATION
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7 CREATING DATABSES USING DBCA

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DBCA Templates
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ADVANCED MODE DATABASE
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Database Vault and Label Security
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8 USING ORACLE RESTART

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What Oracle Restart Does
Is Oracle Restart Deprecated?
Registering With Oracle Restart
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Grid Infrastructure Status
Oracle Home Status
CONFIGURATION USING SRVCTL
Examining A Database Configuration
Examining The Listener Configuration
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9 PREPARING FOR A DATABASE UPGRADE

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Pre-Upgrade Information Tool Files
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10 UPGRADE TO ORACLE DATABSE 12C

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