

Oracle Grid Infrastructure 11g - Manage Clusterware and ASM Release 2



4 jours - 28 heures

Code formation : log-

www.adhara.fr

Objectifs

Understand Oracle Clusterware architecture Describe how Grid Plug and Play affects Clusterware Describe Automatic Storage Management (ASM) architecture Perform Grid Infrastructure installation and create RAC database Demonstrate Clusterware management proficiency Manage application resources Troubleshoot Oracle Clusterware Administer ASM Instances and disk groups Administer ASM Cluster File Systems

Participants

Data Warehouse Administrator Database Administrators Database Designers Support Engineer Technical Administrator

Prérequis

Cours pré-requis obligatoire(s) Oracle Database Administration experience Cours pré-requis conseillé(s) Oracle Database: Introduction to SQL NEW Oracle Database 11g: Administration Workshop II Release 2 Oracle Database 11g: Administration Workshop I Release 2

Pédagogie

La pédagogie est basée sur le principe de la dynamique de groupe avec alternance d'apports théoriques, de phases de réflexion collectives et individuelles, d'exercices, d'études de cas et de mises en situations observées. Formation / Action participative et interactive : les participants sont acteurs de leur formation notamment lors des mises en situation car ils s'appuient sur leurs connaissances, les expériences et mettront en oeuvre les nouveaux outils présentés au cours de la session.

Profil de l'intervenant

Consultant-formateur expert sur cette thématique. Suivi des compétences techniques et pédagogiques assurée par nos services.

Moyens techniques

Encadrement complet des stagiaires durant la formation. Espace d'accueil, configuration technique des salles et matériel pédagogique dédié pour les formations en centre. Remise d'une documentation pédagogique papier ou numérique à échéance de la formation.

Méthodes d'évaluation des acquis

Exercices individuels et collectifs durant la formation. Evaluation des acquis et attestation de fin de stage adressés avec la facture.

Programme

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Pédagogie

In this course, students will learn about the Oracle Grid Infrastructure products. This includes Oracle Automatic Storage Manager (ASM), ASM Cluster File System and Oracle Clusterware. Students will also learn to administer the Oracle Clusterware and storage products using both command line utilities and graphical tools. Administration of ASM and ACFS will be done using both command line and graphical user interface clients. Students will learn how to leverage the Oracle Clusterware to make applications highly available, supporting monitoring and failover to other nodes. Students will learn to troubleshoot the Oracle Clusterware by examining log files, enabling debugging, and enabling tracing for various utilities. This course is based on Oracle Database 11g Release 2. Learn To: Describe the Oracle Database 11g Grid Infrastructure Configure and manage ASM and ACFS Install and configure Grid Infrastructure Use Oracle Clusterware to make applications highly available Describe Grid Plug and Play Troubleshooting Grid Infrastructure

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Programme

Grid Infrastructure Concepts

What is a Cluster

Grid Foundation Components

Oracle Clusterware Architecture

Oracle Clusterware Software and Storage

Describe ASM Architecture

Creating and Managing ASM Disk Groups

Creating and Managing ASM Cluster File systems

Job Role Separation

Administering ASM Cluster File Systems

ASM Dynamic Volume Manager

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Managing ASM Volumes

Implementing ASM Cluster File System

Managing ASM Cluster File System (ACFS)

ACFS Snapshots

Using Command Line Tools To Manage ACFS

Grid Infrastructure Installation and Configuration

Hardware Requirements

Network Requirements

DNS and DHCP Configuration

Grid Plug and Play Considerations

Single Client Access Names

Post installation tasks

Administering Oracle Clusterware

Managing Clusterware with Enterprise Manager

Determining the Location of the Oracle Clusterware Configuration Files

Backing Up and Recovering the Voting Disk

Adding, Deleting, or Migrating Voting Disks

Locating the OCR Automatic Backups

Oracle Local Registry

Migrating OCR Locations to ASM

Managing Network Settings

Managing Oracle Clusterware

Prerequisite Steps for Extending a Cluster

Using addNode.sh to Add a Node to a Cluster

Rolling Patches, And Rolling Upgrades

Comparing Software Versions With the Active Version

Installing A Patchset With the OUI Utility

Installing A Patch With The opatch Utility

Oracle Clusterware High Availability

Oracle Clusterware high availability components

Contrasting policy-managed and administration managed databases

Server pool functionality

The Generic and Free Server Pools

Application placement policies

Application Virtual Ips

Managing application resources

High availability events

Troubleshooting Oracle Clusterware

Oracle Clusterware Log Files

Gathering Log Files Using diagcollection.pl

Resource Debugging

Component-level Debugging

Tracing For Java-based Tools

Troubleshooting the Oracle Cluster Registry

Administering ASM Instances

ASM Initialization Parameters

Adjusting ASM Instance Parameters in SPFILES

Starting and Stopping ASM Instances Using srvctl

Starting and Stopping ASM Instances Using ASMCA and ASMCMD

Starting and Stopping ASM Instances Containing Cluster Files

Starting and Stopping the ASM Listener

Administering ASM Disk Groups

Creating And Deleting ASM Disk Groups

ASM Disk Group Attributes

ASM Disk Group Maintenance Tasks

Preferred Read Failure Groups

Viewing ASM Disk Statistics

Performance And Scalability Considerations For ASM Disk Groups

ASM Files, Directories, and Templates

Using Different Client Tools to Access ASM Files

Fully Qualified ASM File Name Format

Creating and Managing ASM files, Directories and Aliases

Managing Disk Group Templates

Managing ASM ACL With Command Line Utilities

Managing ASM ACL with Enterprise Manager

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