

RAC DBA Course Content

Oracle RAC DBA Syllabus

- ASM Instance
- ASM Disks
- ASM Disk Groups
- ASM Redundancy

- Using ASMLib to Mark the Shared Disks as Candidate Disks

Oracle 11g R2 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
- Administering Oracle Clusterware
- Troubleshooting Oracle Clusterware

Cluster installation Prerequisite for Oracle 11g R2 RAC

- Linux OS Software Installation
- Create OS Group and User Accounts
- Networking
- Synchronizing the Time on ALL Nodes
- Configuring Kernel Parameters
- Set shell limits for the oracle & grid user
- Create the Oracle Inventory Directory
- Creating the Oracle Grid Infrastructure Home Directory
- Creating the Oracle Base Directory
- Creating the Oracle RDBMS Home Directory
- Stage the Oracle Software
- Check OS Software Requirements
- Cluster Verification Utility

Oracle 11g Grid Infrastructure Installation

- Basic/Advanced Grid Infrastructure Install (without GNS and IPMI)...
- Grid Infrastructure Home Patching
- RDBMS Software Install
- Run ASMCA to create diskgroups

Oracle 11g R2 RAC Database Software Installation

- Installing The Oracle Database Software
- Creating A Cluster Database
- Post database Creation Tasks

Grid Infrastructure Installation and Configuration

- Hardware Requirements
- Network Requirements
- Software 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

Oracle Automatic Storage Management concepts

Shared Storage Configuration

- Types of Shared Storage
- Partition the Shared Disks
- Installing and Configuring ASMLib
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RAC DBA Course Content

- Managing Network Settings
- Managing Oracle Clusterware

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
- Viewing ASM Disk Statistics

Prerequisite Steps for Extending a Cluster

- Using addNode.sh to add a Node to a Cluster
- Rolling Patches and Rolling Upgrades
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- Installing a Patchset with the OUI Utility
- Installing a Patch With The opatch Utility

Cluster Node Management

- Add/Deleting the instance
- Add the Node
- Remove the Node
- Single-Instance Conversion Using rconfig
- Single-Instance Conversion Using DBCA

Troubleshooting Oracle Clusterware

- Oracle Clusterware Log Files
- Gathering Log Files Using diagcollection.pl
- Component-level Debugging
- RAC-Specific Wait Events, Global Enqueues, and System Statistic
- Implementing the Most Common RAC Tuning Tips
- Using the Cluster Database Performance Pages
- Using the Automatic Workload Repository in RAC
- Using Automatic Database Diagnostic Monitor in RAC