

ORACLE APPLICATIONS

ORACLE-RAC TRAINING COURSE CONTENT

ORACLE- RAC ONLINE TRAINING COURSE INTRODUCTION

- Oracle RAC is the abbreviated version of Oracle Real Application Clusters. Based on ORACLE DB, this clustered version is a high availability comprehensive stack that can be used as foundation of database cloud system. ORACLE-RAC can be used for agility, high availability, & scalability for an application. Flexible workload management is one of the advantages of using Oracle RAC.
- Global Online Trainings offers industry allied and comprehensive Oracle RAC online trainings for students and professionals, already working in DataBase management segment. ORACLE RAC classes are conducted by best tutelage & flexi-learning hour module. Global Online Trainings conducted course of Oracle RAC covers:

- **RAC INTRODUCTION & CONCEPTS**

- □ Database storage options (Core & Cluster)
- □ Non RAC DB Versace RAC DB
- □ Storage options Core DB vs. RAC DB
- □ Files system files / RAW Partition / ASM
- □ What is ASM?
- □ ASM Architecture
- □ Benefits of ASM
- □ What is Cluster?
- □ What is Cluster ware?
- □ Software requirements & download locations

- **ASM CLUSTER FILE SYSTEM**

- □ ASM & ASM cluster file system
- □ ASM Key features & benefits
- □ ASM Instance design
- □ ASM component
- □ ASM disk groups & fail groups
- □ ASM Scalability
- □ Creating disk groups using asmca
- □ Managing disk groups
- □ Listing the disks using asmcmd
- □ Creating raw partitions

Address

No. 115/48, Eastend 'C' Main Road

9th Block, Near jayadeva Hospital, Jayanagar, Bangalore - 560 069

Mobile: +91 953895 4232 / 8792160688

ORACLE APPLICATIONS

- □ Creating Disk groups using asmca
- □ Create database using dbca in RAC environment

➤ INFRASTRUCTURE CONCEPTS

- □ Quick review
- □ What is GRID Infrastructure (ASM & Clusterware)
- □ Clusterware Concepts & Architecture
- □ Clusterware startup sequence
- □ Clusterware startup process
- □ Oracle Clusterware stack
- □ Cluster ready service stack
- □ Oracle High availability services stack
- □ Grid Plug & Play architecture
- □ CSS & Voting Disk Functionality
- □ CRS & OCR
- □ Node eviction (Inter connect ,VD)
- □ Networking in RAC concept
- □ Networking in RAC configuration topology

➤ RAC BACKUP AND RECOVERY

- □ RAC Specific Database Parameters
- □ Identical & Unique parameters
- □ Enabling Archive log mode in RAC Env
- □ Manual Log switch for a local instance vs. global
- □ Terminating sessions in the RAC environment
- □ Administering Oracle Clusterware
- □ Controlling Clusterware
- □ Finding OCR & VD file locations
- □ Backup & Recovery of OCR,VD
- □ Migrating VD & OCR files to different diskgroup
- □ Managing Oracle Clusterware using crsctl & srvctl
- □ OLR purpose & location
- □ OCR & VD auto & manual backups
- □ crsctl & srvctl commands
- □ Difference between srvctl & crsctl
- □ Disabling & enabling clusterware startup

Address

No. 115/48, Eastend 'C' Main Road
9th Block, Near jayadeva Hospital, Jayanagar, Bangalore - 560 069
Mobile: +91 953895 4232 / 8792160688

ORACLE APPLICATIONS

➤ PREPATION OF RAC MACHINE & ASM INSTALLATION

- □ ORACLE VM Box setups
- □ OS Installation for the RAC Node1
- □ OS Configuration (rpms, config)
- □ Creating the Users and Groups
- □ Creating Virtual Disks
- □ Adding the disks to Virtual Node1
- □ Network configuration Public & Interconnect
- □ Configuring the oracleasm
- □ Cloning Virtual Disk
- □ Prepare Virtual Node2 from Node1
- □ Configuring Node2

➤ MIGRATION OF NON RAC DB TO RAC DB

- □ Non RAC DB to RAC DB
- □ Using the RMAN DB Duplication to RAC env
- □ Enabling Single RAC DB to Multi Instance RAC DB
- □ Configuring Migrated RAC DB as Cluster Aware DB
- □ Create spfile using pfile for RAC DB

➤ INSTALLATION OF GRID INFRASTRUCTURE & RAC SOFTWARE

- □ Verification of Pre Installation
- □ Network verification (Private & Public)
- □ Grid Installation
- □ Completing Grid
- □ Installation
- □ Verifying services with crsctl
- □ Clusterware proc. stop/stop on single / all node(s)
- □ High availability services stop & start
- □ Installation of Oracle SW on Cluster
- □ Log files on RAC Environment

➤ ADDING NODES TO CLUSTER

- □ Add Node to existing Cluster
- □ New node preparing & configuration
- □ SSH configuration for password less connectivity

Address

No. 115/48, Eastend 'C' Main Road
9th Block, Near jayadeva Hospital, Jayanagar, Bangalore - 560 069
Mobile: +91 953895 4232 / 8792160688

ORACLE APPLICATIONS

- ☐ Cluvfy to check the state of new node
- ☐ Performing Add Node script

➤ CACHE FUSION CONCEPTS

- ☐ Cache Fusion Concepts
- ☐ Read / Read Contentions
- ☐ Read / Write Contentions
- ☐ Write / Write Contentions
- ☐ GCS & GES Concepts
- ☐ Global Resource Directory (GRD)
- ☐ What is Past Image? And concepts
- ☐ Past Image vs. CR Image
- ☐ Scan Listener concepts & Architecture

➤ CREATING SERVICES

- ☐ Creating Services
- ☐ Configuring tnsnames.ora for TAF
- ☐ Perform TAF
- ☐ RMAN Configuration for the RAC DB
- ☐ Backup RAC DB Using RMAN

Address

No. 115/48, Eastend 'C' Main Road
9th Block, Near jayadeva Hospital, Jayanagar, Bangalore - 560 069
Mobile: +91 953895 4232 / 8792160688