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## Introduction to Oracle Clusterware and RAC Administration and Deployment

This chapter provides an overview of administering Oracle Clusterware and Real Application Clusters (RAC) environments. This chapter includes the following topics:

- [Real Application Clusters Documentation Overview](#)
- [Introduction to Administering Real Application Clusters](#)
- [Administering Real Application Clusters](#)
- [Database Instance Management and Database Administration in RAC](#)

### Real Application Clusters Documentation Overview

This section describes the RAC documentation set. This book, the *Oracle Database Oracle Clusterware and Oracle Real Application Clusters Administration and Deployment Guide*, provides RAC-specific administration and application deployment information.

This book describes how to administer the Oracle Clusterware components such as the voting disks and the Oracle Cluster Registry (OCR). This book also explains how to administer storage and how to use RAC scalability features to add and delete instances and nodes. This book also discusses how to use Recovery Manager (RMAN) and how to perform backup and recovery in RAC.

The *Oracle Database Oracle Clusterware and Oracle Real Application Clusters Administration and Deployment Guide* describes RAC deployment topics by explaining how to deploy automatic workload management and take advantage of high availability by using [services](#). This book describes how the [Automatic Workload Repository \(AWR\)](#) tracks and reports service levels and how you can use service level thresholds and alerts to improve high availability in your RAC environment. This book also explains how to make your applications highly available by using Oracle Clusterware.

The *Oracle Database Oracle Clusterware and Oracle Real Application Clusters Administration and Deployment Guide* explains how to monitor and tune performance in RAC environments by using Oracle Enterprise Manager and by using information in AWR and Oracle performance views. This book also highlights application-specific deployment techniques for online transaction processing and data synchronizing environments.

The appendices in this book describe:

- Troubleshooting tips such as debugging and log file size and general information about installing and using the Cluster Verification Utility (CVU)

# Real Application Clusters Administration Deployment Guide

**Edward Whalen**



## **Real Application Clusters Administration Deployment Guide:**

*Oracle 11g R1/R2 Real Application Clusters Essentials* Ben Prusinski, Syed Jaffer Hussain, 2011-05-23 Annotation Oracle RAC or Real Application Clusters is a grid computing solution that allows multiple nodes servers in a clustered system to mount and open a single database that resides on shared disk storage Should a single system node fail the database service will still be available on the remaining nodes Oracle RAC is an integral part of the Oracle database setup You have one database with multiple users accessing it in real time This book will enable DBAs to get their finger on the pulse of the Oracle 11g RAC environment quickly and easily This book will cover all areas of the Oracle RAC environment and is indispensable if you are an Oracle DBA who is charged with configuring and implementing Oracle 11g R1 with bonus R2 information included This book presents a complete method for the configuration installation and design of Oracle 11g RAC ultimately enabling rapid administration of Oracle 11g RAC environments This practical handbook documents how to administer a complex Oracle 11g RAC environment Packed with real world examples expert tips and troubleshooting advice the book begins by introducing the concept of Oracle RAC and High Availability It then dives deep into the world of RAC configuration installation and design enabling you to support complex RAC environments for real world deployments Chapters cover Oracle RAC and High Availability Oracle 11g RAC Architecture Oracle 11g RAC Installation Automatic Storage Management Troubleshooting Workload Management and much more By following the practical examples in this book you will learn every concept of the RAC environment and how to successfully support complex Oracle 11g R1 and R2 RAC environments for various deployments within real world situations This book is the updated release of our previous Oracle 11g R1 R2 Real Application Clusters Handbook If you already own a copy of that Handbook there is no need to upgrade to this book

**Installing Oracle 11gR2 RAC on Linux on System z** Terry Elliot, David Simpson, IBM Redbooks, 2011-11-22 This IBM Redpaper™ publication describes experiences gained while installing Oracle Database 11gR2 with Grid Infrastructure GI It covers the set up and installation process for these environments Setting up Red Hat Enterprise Linux 5 with DASD Setting up Red Hat Enterprise Linux 5 with FCP SCSI Setting up SLES11 with DASD Setting up SLES11 with FCP SCSI disks Examples include the installation of the Grid Infrastructure installation of a single instance database and installation of a two node Real Application Cluster RAC database In all cases we use UDEV rules for DASD and single path SCSI and multipathing for multi path SCSI to provide device persistency for ASM storage not ASMLib Interested readers would include database consultants installers administrators and system programmers This is not meant to replace Oracle documentation but to supplement it with our experiences while installing and using Oracle Database products We made extensive uses of My Oracle Support notes *Experiences with Oracle Database 12c Release 1 on Linux on System z* Arrell Kathryn, Mike Ebbers, Sam Amsavelu, Gaylan Braselton, Terry Elliott, Leon Rich, Barton Robinson, David Simpson, IBM Redbooks, 2014-05-13 Oracle Database 12c Release 1 is now supported on Linux on IBM System z This platform offers many advantages to

customers who rely upon the IBM mainframe systems to run their businesses Linux on System z takes advantage of the qualities of service in the System z hardware and in IBM z VM making it a robust industrial strength version of Linux This provides an excellent platform for hosting Oracle solutions that run in an enterprise This IBM Redbooks publication shares experiences that are gained while installing and testing Oracle Database 12c Release 1 Recommendations about how to set up an infrastructure Installing an Oracle Grid Infrastructure Installing Oracle 12C R1 Real Application Clusters RAC and creating a RAC Database including a multitenant database Using the Cloud Control Agent to manage Oracle Database 12c Release 1 Installing Oracle WebLogic Server 12c Upgrading from an Oracle Database from 11gR2 to 12c Release 1 The audience for this publication includes database consultants installers administrators and system programmers This publication is not meant to replace Oracle documentation but to supplement it with our experiences while installing and using Oracle products

**Oracle 19c on IBM LinuxONE** Wayne Martin,Sam Amsavelu,Armelle Cheve,Phillippe Deverge,David Simpson,IBM Redbooks,2024-05-15 This IBM Redbooks publication helps you install tailor and configure Oracle 19c on the IBM LinuxONE platform

**Experiences with Oracle® 10gR2 Solutions on Linux for IBM System z** Lydia Parziale,Kathryn Arrell,Dennis Dutcavich,Terry Elliott,Bruce Frank,Erik Kane,IBM Redbooks,2007-02-16 This IBM Redbooks publication describes experiences gained while installing and testing several Oracle solutions such as Single Instance of Oracle Database 10gR2 Including sharing ORACLE\_HOME and Cloning Oracle databases RAC Instance of Oracle Database 10gR2 using raw devices block devices or OCFS2 files Oracle E Business Suite 11.5.10.2 with a split configuration database on Linux on System z Oracle AS10g Interested readers include database consultants installers administrators and system programmers This book is not meant to replace Oracle documentation it documents our experiences installing Oracle products

**Oracle Database 11g Oracle Real Application Clusters Handbook, 2nd Edition** K Gopalakrishnan,2011-08-10 Master Oracle Real Application Clusters Maintain a dynamic enterprise computing infrastructure with expert instruction from an Oracle ACE Oracle Database 11g Oracle Real Application Clusters Handbook Second Edition has been fully revised and updated to cover the latest tools and features Find out how to prepare your hardware deploy Oracle Real Application Clusters optimize data integrity and integrate seamless failover protection Troubleshooting performance tuning and application development are also discussed in this comprehensive Oracle Press guide Install and configure Oracle Real Application Clusters Configure and manage diskgroups using Oracle Automatic Storage Management Work with services voting disks and Oracle Clusterware Repository Look under the hood of the Cache Fusion and Global Resource Directory operations in Oracle Real Applications Clusters Explore the internal workings of backup and recovery in Oracle Real Application Clusters Employ workload balancing and the Transparent Application Failover feature of an Oracle database Get complete coverage of Stretch Clusters also known as Metro Clusters Troubleshoot Oracle Clusterware using the most advanced diagnostics available Develop custom Oracle Real Application Clusters applications

**Oracle Database**

## **12c Release 2 Real Application Clusters Handbook: Concepts, Administration, Tuning & Troubleshooting K.**

Gopalakrishnan, Sam R. Alapati, 2018-02-22 This comprehensive guide has been fully updated to cover the latest features and tools of Oracle Real Application Clusters 12c Through clear instruction and detailed examples Oracle Database 12c Real Application Clusters Handbook Concepts Administration Tuning and Troubleshooting teaches how to build configure and maintain a dynamic enterprise computing infrastructure This thoroughly revised edition covers best uses for the latest tools and features all from the practical standpoint of a working DBA You will discover how to prepare hardware configure the software optimize data integrity and integrate seamless failover protection Brand new flex and large cluster technologies are explained in full detail and readers will get complete solutions for securing data and continuing business operations in the event of hardware failure Presents all the new information needed to effectively use Oracle Real Application Clusters 12c considered the most radical overhaul ever Offers detailed coverage of troubleshooting performance tuning and application development

Oracle Database 10g Linux Administration Edward Whalen, 2005-10-06 Install and configure Oracle Database 10g on a Linux enterprise platform This book explains how to set up administer monitor and tune Oracle Database 10g on Linux You will also learn how to implement High Availability solutions as well as handle backup recovery and replication This exclusive Oracle Press guide is the ideal resource for all Oracle DBAs working in a Linux environment

**Oracle VM Implementation and Administration Guide** Edward Whalen, 2011-07-13 Master the Powerful Virtualization Tools in Oracle VM Set up and maintain a dynamic virtualization platform across your enterprise using the detailed information contained in this Oracle Press guide Oracle VM Implementation and Administration Guide contains key virtualization concepts practical instructions examples and best practices Find out how to design Oracle VM server farms build and deploy virtual machines handle provisioning and cloning and work with Oracle VM Manager Monitoring tuning and security techniques are also covered in this comprehensive volume Install configure and manage all Oracle VM components Plan size and set up Oracle VM server farms and server pools Control resources from Oracle Enterprise Manager Grid Control Oracle VM Manager and Oracle VM Command Line Interface Govern network drives and virtual storage using Oracle VM tools Create virtual machines manually or from Oracle library templates Convert existing virtual machines on other systems to Oracle VM virtual machines Generate virtual machine clones that run on multiple server pools Maintain guest operating systems and software using Oracle Enterprise Manager Grid Control s Oracle VM Management Pack

*Oracle VM 3 Cloud Implementation and Administration Guide, Second Edition* Edward Whalen, Erik Benner, Nic Ventura, 2017-09-22 Master Cloud building with Oracle VM 3 installation configuration and maintenance Set up configure and manage a dynamic virtualization platform across your enterprise using the detailed information contained in this Oracle Press guide The book shows step by step how to size servers for Oracle VM choose and deploy virtualization hardware and manage the environment as the foundation for a private cloud infrastructure Real world examples and valuable best practices are

featured throughout Oracle VM 3 Cloud Implementation and Administration Guide lays out key virtualization concepts and clearly explains every aspect of Oracle VM architecture From there you will learn how design server farms build and maintain virtual machines handle provisioning and cloning work with Oracle VM Manager and incorporate solid security procedures Advanced topics such as Disaster Recovery design and implementation Cloud management with Oracle Enterprise Manager Cloud Control and advanced storage and network integration aspects are fully covered Features tips techniques and tools for optimizing Oracle products on Oracle VM Contains expert hands on advice on tackling the most common challenges Written by a team of Oracle professionals with extensive VM experience

**Oracle Database 10g High Availability with RAC, Flashback & Data Guard** Matthew Hart,Scott Jesse,2004-05-10 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Attain real solutions for current availability challenges Based on a DBA centric approach to High Availability Oracle Database 10g High Availability concentrates on explaining Oracle Database 10g technologies and practices to database administrators covering general availability real application clusters RAC disaster planning and recovery and distributed database solutions Hardware and application needs are also taken into account While Oracle Database 10g is the main focus many of the options discussed are available in earlier database releases Organized to provide conceptual understanding of High Availability included are HA Workshops step by step instructions to get you through certain implementations plus real world inspired case studies

**Oracle9i for Windows Handbook** Anand Adkoli,Rama Velpuri,2002 Oracle 8i is a database for the Windows NT 2000 platform This book begins with looking at the fundamentals of the operating system and installation of Oracle 8i products on Windows NT 2000 and then goes on to cover intermediate and advanced topics such as architecture migration clustering parallel server performance monitoring and troubleshooting and using Oracle Enterprise Manager

**CITRIX ACCESS SUITE 4 ADVANCED CONCEPTS: THE OFFICIAL GUIDE, 2/E** Steve Kaplan,Andy Jones,2006-02-10 Provides detailed and advanced configuration information for all Access Suite components Covers every installation option and provides in depth technical information on custom installations Covers the implementation of all four database options IBM SQL Server Oracle and Access

**Oracle Database 10g DBA Handbook** Kevin Loney,Bob Bryla,2005-04-14 Everything a DBA needs to know in one volume this is the must have reference for anyone working with the Oracle database and it s been fully revised and updated for Oracle Database 10g Co author Kevin Loney is the all time best selling Oracle Press author

**Oracle Database 12c The Complete Reference** Bob Bryla,Kevin Loney,2013-10-02 Maintain a scalable highly available enterprise platform and reduce complexity by leveraging the powerful new tools and cloud enhancements of Oracle Database 12c This authoritative Oracle Press guide offers complete coverage of installation configuration tuning and administration Find out how to build and populate Oracle databases perform effective queries design applications and secure your enterprise data Oracle Database

12c The Complete Reference also contains a comprehensive appendix covering commands keywords features and functions

*Oracle Automatic Storage Management: Under-the-Hood & Practical Deployment Guide* Nitin Vengurlekar, Murali Vallath, Rich Long, 2007-11-05 Build and manage a scalable storage infrastructure with Oracle Automatic Storage Management Streamline data management and provisioning using Oracle Automatic Storage Management Oracle ASM and the detailed information contained in this exclusive Oracle Press resource Written by a team of database experts Oracle Automatic Storage Management Under the Hood Practical Deployment Guide explains how to build and maintain a dynamic highly available Oracle database storage environment Inside you ll learn how to configure storage for Oracle ASM build disk groups use data striping and mirroring and optimize performance You ll also learn how to ensure consistency across server and storage platforms maximize data redundancy and administer Oracle ASM from the command line Manage Oracle ASM Instances and configure Oracle RDBMS instances to leverage Oracle ASM Define discover and manage disk storage under Oracle ASM Create external normal redundancy and high redundancy disk groups Add and remove Oracle ASM storage without affecting RDMS instance availability Learn how Oracle ASM provides even I O distribution Work with Oracle ASM directories files templates and aliases Improve storage performance and integrity using the ASMLIB API Simplify system administration with the Oracle ASM command line interface Understand key internal Oracle ASM structures and algorithms

**PC Magazine** ,2004 Proceedings of the Fifteenth Systems Administration Conference (LISA XV) ,2001 The Indian Journal of Commerce ,1988 *Oracle Database 12c Release 2 Real Application Clusters Handbook: Concepts, Administration, Tuning & Troubleshooting* K. Gopalakrishnan, Sam R. Alapati, 2018-02-27 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Master Oracle Database 12c Release 2 Real Application Clusters with this comprehensive fully updated guide Now you can maintain a dynamic enterprise computing infrastructure with expert instruction from an Oracle ACE Oracle Database 12c Release 2 Real Application Clusters Handbook Concepts Administration Tuning and Troubleshooting has been thoroughly revised and updated to cover the latest tools and features Find out how to prepare your hardware deploy Oracle Real Application Clusters and integrate seamless failover protection Troubleshooting performance tuning and application development are also discussed in this comprehensive Oracle Press guide Install and configure Oracle Database 12c Release 2 Real Application Clusters Configure and manage disk groups using Oracle Automatic Storage Management Work with services voting disks and Oracle Clusterware repository Diagnose performance problems with Oracle Wait Interface Look under the hood of Cache Fusion and Global Resource Directory operations Explore the internal workings of backup and recovery in Oracle Real Application Clusters Employ workload balancing and Transparent Application Failover Troubleshoot Oracle Clusterware using advanced diagnostics Develop custom Oracle Real Application Clusters applications

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