
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 warehousing environments.

The appendices in this book describe:

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

Real Application Clusters Administration Deployment Guide

Richard Johnson



Real Application Clusters Administration Deployment Guide:

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 Oracle Real Application Cluster Field DBA Admin Handbook Flavia D'Souza, 2008-09-22 This book provides practical guidelines to administer the Oracle Oracle Real Application Cluster It s a field guide to administer RAC in real life situation This book will improve your efficiency as an Oracle database administrator and enable you to master more daunting difficult administrative tuning and troubleshooting tasks than you ever thought possible Topics covered include Oracle RAC Architecture Cluster Administration Storage Instance and Service administration Adding deleting Nodes Managing Backup and Recovery Performance monitoring and Workload Management and it also has useful Metalink note references This practical field guide also covers a section on useful Metalink Note References useful weblinks for easy reference and also the useful information search tips on Metalink **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 *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 *Pro Oracle Database 10g RAC on Linux* John Shaw, Julian Dyke, 2008-01-03 Real Application Clusters RAC and the Grid architecture are Oracle's strategy for scaling out enterprise systems to cope with bigger workloads and more users Many books limit themselves by conceptualizing and theorizing about RAC technology but this book is the first to portray implementing and administering an Oracle 10g RAC system in a Linux environment This book features basic concepts underlying Linux and Oracle RAC design strategies hardware procurement and configuration and many other topics The RAC specific technologies described include configuration of the interconnect OCFS ASM Cluster Ready Services and Grid Control The Oracle features RMAN and Data Guard are also discussed along with available hardware options The authors include practical examples and configuration information so that upon reading this book you'll be armed with the information you need to build an Oracle RAC database on Linux whether it is on a single laptop or a 64 node Itanium cluster *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 Virtualization and Forensics Greg Kipper, Diane Barrett, 2010-08-06 Virtualization and Forensics A Digital Forensic Investigators Guide to Virtual Environments offers an in depth view into the world of virtualized environments and the implications they have on forensic investigations Named a 2011 Best Digital Forensics Book by InfoSec Reviews this guide gives you the end to end knowledge needed to identify server desktop and portable virtual environments including VMware Parallels Microsoft and Sun It covers technological advances in virtualization tools methods and issues in digital forensic investigations and explores trends and emerging technologies surrounding virtualization technology This book consists of three parts Part I explains the process of virtualization and the different types of virtualized environments Part II details how virtualization interacts with the basic forensic process describing the methods used to find virtualization artifacts in dead and live environments as well as identifying the virtual activities that affect the examination process Part III addresses advanced virtualization issues such as the challenges of virtualized environments cloud computing and the future of virtualization This book will be a valuable resource for forensic investigators corporate and law enforcement and incident response professionals Named a 2011 Best Digital Forensics Book by InfoSec Reviews Gives you the end to end knowledge needed to identify server desktop and portable virtual environments including VMware Parallels Microsoft and Sun Covers technological advances in virtualization tools methods and issues in digital forensic investigations Explores trends and emerging technologies surrounding virtualization technology Cloud Computing Applications for Quality Health Care Delivery Moutzoglou, Anastasius, Kastania, Anastasia N., 2014-06-30 Software applications once held on local computers and servers are beginning to shift to the public Internet sphere and

private health information is no exception The likelihood of placing once restricted and private health records in the cloud is increasing Cloud Computing Applications for Quality Health Care Delivery focuses on cloud technologies that could affect quality in the healthcare field Leading experts in this area offer their knowledge and contribute to the demystification of healthcare in the Cloud This publication will prove to be a useful tool for undergraduate and graduate students of healthcare quality and management healthcare managers and industry professionals

Health Care Delivery and Clinical Science: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2017-12-01 The development of better processes to provide proper healthcare has enhanced contemporary society By implementing effective collaborative strategies this ensures proper quality and instruction for both the patient and medical practitioners Health Care Delivery and Clinical Science Concepts Methodologies Tools and Applications is a comprehensive reference source for the latest scholarly material on emerging strategies and methods for delivering optimal healthcare and examines the latest techniques and methods of clinical science Highlighting a range of pertinent topics such as medication management health literacy and patient engagement this multi volume book is ideally designed for professionals practitioners researchers academics and graduate students interested in healthcare delivery and clinical science

Oracle Database Programming using Java and Web Services Kuassi Mensah,2011-04-08 The traditional division of labor between the database which only stores and manages SQL and XML data for fast easy data search and retrieval and the application server which runs application or business logic and presentation logic is obsolete Although the books primary focus is on programming the Oracle Database the concepts and techniques provided apply to most RDBMS that support Java including Oracle DB2 Sybase MySQL and PostgreSQL This is the first book to cover new Java JDBC SQLJ JPublisher and Web Services features in Oracle Database 10g Release 2 the coverage starts with Oracle 9i Release 2 This book is a must read for database developers audience DBAs database applications developers data architects Java developers JDBC SQLJ J2EE and OR Mapping frameworks and to the emerging Web Services assemblers Describes pragmatic solutions advanced database applications as well as provision of a wealth of code samples Addresses programming models which run within the database as well as programming models which run in middle tier or client tier against the database Discusses languages for stored procedures when to use proprietary languages such as PL SQL and when to use standard languages such as Java also running non Java scripting languages in the database Describes the Java runtime in the Oracle database 10g i e OracleJVM its architecture memory management security management threading Java execution the Native Compiler i e NCOMP how to make Java known to SQL and PL SQL data types mapping how to call out to external Web components EJB components ERP frameworks and external databases Describes JDBC programming and the new Oracle JDBC 10g features its advanced connection services pooling failover load balancing and the fast database event notification mechanism for clustered databases RAC in Grid environments Describes SQLJ programming and the latest Oracle SQLJ 10g features contrasting it with JDBC Describes

the latest Database Web services features Web services concepts and Services Oriented Architecture SOA for DBA the database as Web services provider and the database as Web services consumer Abridged coverage of JPublisher 10g a versatile complement to JDBC SQLJ and Database Web Services **Oracle Administration and Management** Michael R. Ault, 2002-10-23 Oracle is the leading database worldwide providing companies with fast access to critical business data Oracle Administration and Management shows database administrators and managers how to keep Oracle databases running reliably and at peak performance With the help of numerous real world examples and scenarios you ll gain valuable insight into all phases of Oracle database administration and management From the initial installation and daily maintenance to backup and recovery procedures you ll learn everything you need to know to become a successful Oracle DBA

Rocket.Chat Administration and Deployment Guide Richard Johnson, 2025-06-06 Rocket Chat Administration and Deployment Guide The Rocket Chat Administration and Deployment Guide is a comprehensive resource designed for IT professionals system architects and enterprise administrators seeking to master the intricacies of deploying and managing Rocket Chat at scale Beginning with a deep exploration of Rocket Chat s modular architecture and technology ecosystem this guide offers insight into core components diverse deployment topologies and seamless integration strategies with both legacy and modern IT infrastructures It situates Rocket Chat within the broader landscape of collaboration platforms providing readers with informed perspectives on open source licensing and competitive positioning Building on this foundation the guide delivers actionable strategies for enterprise grade deployments addressing the unique challenges of on premise cloud and hybrid environments Detailed coverage includes Kubernetes orchestration CI CD pipelines high availability fault tolerance and robust disaster recovery Readers will benefit from step by step instructions for installation across operating systems automation best practices using containers and scripts optimized database configurations and advanced security hardening techniques that meet stringent compliance requirements such as GDPR HIPAA and SOC 2 Recognizing the evolving demands of modern organizations the guide delves into advanced topics like identity federation RBAC single sign on and multi tenancy empowering administrators to manage diverse user bases with precision and control Comprehensive sections on monitoring telemetry scalability and performance engineering enable teams to build resilient high throughput systems capable of supporting global geo redundant deployments The final chapters address customization extensibility and the latest trends in AI automation and interoperability making this guide an essential reference for anyone tasked with ensuring the reliability security and innovation of their Rocket Chat collaboration environment **Oracle 10g Grid and Real Application Clusters** Mike Ault, Madhu Tuma, Ranko Masic, 2004-08 Revealing the secrets for quickly implementing and tuning Oracle RAC database systems this book covers all areas of Oracle Real Application Clusters including Oracle 10g new features Oracle DBAs who are charged with configuring and implementing a RAC clusters database will benefit from this complete guide to the installation as well as configuration and design of Oracle Real Application

Clusters Information is supplied on expert internals of shared disk technology raw devices and RAID with RAC the internal concurrency resource coordination and the locking mechanism within RAC Also explained are Transparent Application Failover TAF and monitoring and tuning Oracle10g RAC applications [KubeSphere Administration and Deployment Guide](#) William Smith,2025-08-19 KubeSphere Administration and Deployment Guide The KubeSphere Administration and Deployment Guide is an authoritative comprehensive reference for architects administrators and DevOps professionals seeking to master cloud native application delivery using KubeSphere This guide meticulously unpacks platform architecture including the modular core multi tenancy and ecosystem integrations while showcasing KubeSphere s ability to extend native Kubernetes with sophisticated CRDs controllers and seamless enterprise connectivity With dedicated chapters on high availability scalability and integrated service mesh observability readers will build a deep understanding of robust production grade cluster design and operations Through clear practical examples the book delivers actionable insights on cluster planning installation strategies and infrastructure scaling for both development and large scale enterprise environments It explores network models multi tenant policies and persistent storage lifecycles providing granular instruction on deploying and securing stateful workloads Essential DevOps workflows are demystified including CI CD pipeline orchestration application delivery via Helm and App Store and advanced deployment patterns empowering teams to implement automated resilient and compliant software delivery pipelines Security and compliance are at the core of this guide with detailed treatments of authentication RBAC enterprise identity integration hardening practices network segmentation and encryption Extensive coverage of observability encompassing logging metrics tracing and customized dashboards ensures platform health and operational transparency Advanced operational chapters address upgrade management cross cluster federation disaster recovery and troubleshooting equipping administrators with best practices for managing scaling and supporting KubeSphere in even the most demanding infrastructure landscapes [Oracle Database 12C Administrator Certified Professional Certification Prep Guide : 350 Questions & Answers](#) CloudRoar Consulting Services,2025-08-15 Ace the Oracle Database 12C Administrator Certified Professional exam with 350 questions and answers covering database architecture installation backup recovery performance tuning security and administration best practices Each question includes practical examples and explanations to ensure exam readiness Ideal for Oracle DBAs and IT professionals Oracle12C DBA DatabaseAdministration BackupAndRecovery PerformanceTuning Security Architecture ExamPreparation TechCertifications ITCertifications CareerGrowth ProfessionalDevelopment OracleDB DatabaseSkills ITSkills **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

Expert Oracle RAC Performance Diagnostics and Tuning Murali Vallath,2014-10-13 Expert Oracle RAC Performance Diagnostics and Tuning provides comprehensive coverage of the features technology and principles for testing and tuning RAC databases The book takes a deep look at optimizing RAC databases by following a methodical approach based on scientific analysis rather than using a speculative approach twisting and turning knobs and gambling on the system The book starts with the basic concepts of tuning methodology capacity planning and architecture Author Murali Vallath then dissects the various tiers of the testing implementation including the operating system the network the application the storage the instance the database and the grid infrastructure He also introduces tools for performance optimization and thoroughly covers each aspect of the tuning process using many real world examples analyses and solutions from the field that provide you with a solid practical and replicable approach to tuning a RAC environment The book concludes with troubleshooting guidance and quick reference of all the scripts used in the book Expert Oracle RAC Performance Diagnostics and Tuning covers scenarios and details never discussed before in any other performance tuning books If you have a RAC database this book is a requirement Get your copy today Takes you through optimizing the various tiers of the RAC environment Provides real life case studies analysis and solutions from the field Maps a methodical approach to testing tuning and diagnosing the cluster

Oracle9i RAC Michael R. Ault,Mike Ault,Madhu Tumma,2003 Combining the expertise of two world renowned RAC experts Oracle9i RAC is the first of its kind reference for RAC and TAF technology

Oracle Real Application Clusters Murali Vallath,2004 Practical guide to RAC architecture for data base managers to manage Oracle9i clusters

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