



Oracle 11g R1/R2 Real Application Clusters Essentials

Design, implement, and support complex Oracle 11g RAC environments for real-world deployments

Ben Prusinski
Syed Jaffer Hussain

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Oracle 11g R1r2 Real Application Clusters Essentials

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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

Oracle 11g R1 / R2 Real Application Clusters Handbook Ben Prusinski, Guenadi Jilevski, Syed Jaffer Hussain, 2010-04

Expert Oracle RAC 12c Riyaj Shamsudeen, Syed Jaffer Hussain, Kai Yu, Tariq Farooq, 2013-08-13 Expert Oracle RAC 12c is a hands on book helping you understand and implement Oracle Real Application Clusters RAC and to reduce the total cost of ownership TCO of a RAC database As a seasoned professional you are probably aware of the importance of understanding the technical details behind the RAC stack This book provides deep understanding of RAC concepts and implementation details that you can apply toward your day to day operational practices You ll be guided in troubleshooting and avoiding trouble in your installation Successful RAC operation hinges upon a fast performing network interconnect and this book dedicates a chapter solely to that very important and easily overlooked topic All four authors are experienced RAC engineers with a wealth of hard won experience encountering and surmounting the challenges of running a RAC environment that delivers on its promise In Expert Oracle RAC 12c they provide you a framework in which to avoid repeating their hard won lessons Their goal is for you to manage your own RAC environment with ease and expertise Provides a deep conceptual understanding of RAC Provides best practices to implement RAC properly and match application workload Enables readers to

troubleshoot RAC with ease What you ll learn Know when to apply RAC and when not to Design applications to take advantage of RAC Troubleshoot and solve clusterware problems Manage database backup and recovery in RAC Stay on top of locking issues and deadlock detection Harness the performance from parallel processing in RAC Support your RAC environment with a healthy network interconnect Who this book is for Expert Oracle RAC 12c is for experienced Oracle Database Administrators DBAs who are ready to take the next step in their career by expanding their skill set to include building and managing Oracle Real Application Clusters RAC DBAs and architects who are in the process of implementing RAC can immensely benefit from this book It s an excellent choice for DBAs to learn RAC conceptually understand best practices and become experts in troubleshooting RAC problems Table of Contents Overview of Oracle RAC Clusterware Management and Troubleshooting RAC Operational Practices RAC New Features Storage and ASM Practices Application Design Issues Managing and Optimizing a Complex RAC Environment Backup and Recovery in RAC Network Practices in RAC RAC Database Optimization Locks and Deadlocks Parallel Query in RAC Clusterware and Database Upgrades Oracle RAC One Node

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Oracle Essentials Rick Greenwald,Robert Stackowiak,Jonathan Stern,2007-11-01 Oracle is an enormous system with myriad technologies options and releases Most users even experienced developers and database administrators find it difficult to get a handle on the full scope of the Oracle database And as each new Oracle version is released users find themselves under increasing pressure to learn about a whole range of new technologies The latest challenge is Oracle Database 11g This book distills an enormous amount of information about Oracle into a compact easy to read volume filled with focused text illustrations and helpful hints It contains chapters on Oracle products options data structures and overall architecture for Oracle Database 11g as well as earlier releases Oracle Database 10g Oracle9i and Oracle8i Installing running managing monitoring networking and tuning Oracle including Enterprise Manager EM and Oracle s self tuning and management capabilities and using Oracle security auditing and compliance a new chapter in this edition Multiuser concurrency data warehouses distributed databases online transaction processing OLTP high availability and hardware architectures e g SMP clusters NUMA and grid computing Features beyond the Oracle database Oracle Application Express Fusion Middleware including Oracle Application Server and database SOA support as a Web services provider The latest Oracle Database 11g features query result set caching Automatic Memory Management the Real Application Testing Advanced Compression Total Recall and Active Data Guard Option Options changes to the OLAP Option transparently accessed and managed as materialized views the Flashback transaction command transparent data encryption the Support Workbench and diagnosability infrastructure and partitioning enhancements including interval and new composite types For new Oracle users DBAs developers and managers Oracle Essentials provides an invaluable all in one introduction to the full range of Oracle features and technologies including the just released Oracle Database 11g features But even if you already have a library full of Oracle documentation you ll find that this compact book is the one you turn to again and again as your one stop truly essential reference Oracle Essentials gives a clear explanation of the key database concepts and architecture

underlying the Oracle database It s a great reference for anyone doing development or management of Oracle databases
Andrew Mendelsohn Senior Vice President Database Server Technologies Oracle Corporation *Oracle 11gR2 RAC For Beginners* Arun Kumar,2019-10-18 Oracle RAC technology is the advance level of database which is designed to provide high availability and scalability Oracle RAC is installed on multiple servers and it forms the foundation for database cloud Build a Strong Foundation in Oracle grid Clusterware Installation with this book for Beginners Introduction to clusterware technology Oracle cluster node setup Oracle 11g grid software installation Setup two node RAC Create first Oracle RAC database Oracle RAC and ASM administrationA strong RAC Beginners eBook for IT Professionals World Wide Oracle RAC allows multiple computers to run Oracle RDBMS software simultaneously while accessing a single database thus providing clustering The main aim of Oracle RAC online course is to implement a clustered database to provide performance scalability and resilience It s a clustered version of Oracle Database based on a comprehensive high availability stack The Oracle 11gR2 Real Application Clusters Administration eBook describes the Oracle RAC architecture hands on experience and Oracle Real Application Clusters multi node installations This eBook is for people who have prior knowledge on Oracle database administration and covers knowledge on topics like Oracle RAC Cluster Oracle AMS Oracle RAC administration Oracle RAC Installation Oracle RAC on VirtualBox and many more *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 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 **Learning Oracle 11g** Steve Hamilton,2013 In this Oracle 11g RAC training course expert trainer Steve Hamilton explains Oracle s Real Application Clusters RAC and provides a detailed look at installing and configuring Oracle s RAC environment This course is designed for an aspiring Oracle database administrator DBA or a currently practicing DBA This RAC training course starts out by teaching you the system Oracle and host requirements You then jump right into learning how to install ASM and Grid Infrastructure Software create disk groups and tuneing RAC Steve will take you through RAC diagnostics and how to identify potential RAC problems and troubleshoot He will teach you about the RAC and Cluster utilities RAC architecture and how to add and remove nodes By the completion of this video based training course you will have a fundamental understanding of how to install configure and maintain Oracle s RAC environment Working files are included allowing you to follow along with the author throughout the lessons Resource description page **Oracle Database 10g Real Application Clusters Handbook** K. Gopalakrishnan,2007 Pro Oracle Database 11g RAC on Linux Julian Dyke,Steve Shaw,Martin Bach,2011-01-11 Pro Oracle Database 11g RAC on Linux provides full life cycle guidance on implementing Oracle Real Application Clusters in a Linux environment Real Application Clusters commonly abbreviated as RAC is Oracle s industry leading architecture for scalable and fault tolerant databases RAC allows you to scale up and down by simply adding and subtracting inexpensive Linux servers Redundancy provided by those multiple inexpensive servers is the basis for the failover and other fault tolerance features that RAC provides Written by authors well known for their talent with RAC Pro Oracle Database 11g RAC on Linux gives you a rock solid and technically flawless foundation on which to build your RAC management skills Authors Julian Dyke and Steve Shaw share their hard won experience in building RAC clusters showing you how to build for success using the very latest Oracle technologies such as Automatic Storage Management ASM and Oracle Clusterware You ll learn to troubleshoot performance and other problems You ll even learn how to correctly deploy RAC in a virtual machine environment based upon Oracle VM which is the only virtualization solution supported by Oracle Corporation RAC is a complex and powerful technology It demands expertise in its deployment You can t just wing it in creating a RAC solution Julian and Steve have earned the right to term themselves expert in Pro Oracle Database 11g RAC on Linux they offer a rigorous and technically correct treatment of RAC that helps you build a solid foundation of expertise and achieve success Rigorous and technically accurate content Complete coverage of RAC from planning to implementation to rollout to ongoing maintenance and troubleshooting Up to date with the very latest RAC features *Oracle Database 10g Real Application Clusters Handbook* K. Gopalakrishnan,2006-12-13 Learn cutting edge technology from Oracle experts Written by Oracle insiders this comprehensive guide covers everything you need to know about Real Application Clusters low cost hardware platforms that can rival and exceed the quality of service availability and scalability of the most expensive mainframe systems Concepts covered are applicable to all previous versions of Oracle Tuning and troubleshooting tips

providing insight on the most advanced diagnostics available Detailed coverage of advanced RAC concepts Working code for all examples available online Oracle Database 11g Release 2 High Availability: Maximize Your Availability with Grid Infrastructure, RAC and Data Guard Scott Jesse,Bill Burton,Bryan Vongray,2011-04-22 Leverage Oracle Database 11g Release 2 High Availability Features Protect your critical business assets and achieve maximum database uptime using the detailed information in this Oracle Press guide Oracle Database 11g Release 2 High Availability Maximize Your Availability with Grid Infrastructure Oracle Real Application Clusters and Oracle Data Guard Second Edition provides cost effective solutions to current availability challenges Discover how to grid enable your IT framework roll out Oracle Real Application Clusters maintain standby databases and deploy Oracle Flashback Monitoring tuning and disaster recovery techniques are also covered in this comprehensive resource Install Oracle Clusterware as part of Oracle s grid infrastructure or upgrade from an earlier version Build test clusters and hosts using Oracle VM Work with Oracle Automatic Storage Management and Oracle Automatic Storage Management Cluster File System Create synchronized standby databases using Oracle Data Guard Reliably archive and restore data with Oracle Recovery Manager Use Oracle Flashback to identify and undo user errors Configure Oracle Enterprise Manager Grid Control for management of an Oracle maximum availability architecture environment

Oracle Real Application Clusters Murali Vallath,2003-11-14 Clustered configuration first hit the scene nearly 20 years ago when Digital Equipment Corporation DEC introduced the VaxCluster Until now the topic of Real Application Clusters RAC implementation had never been fully explored For the first time Murali Vallath dissects RAC mysteries in his book Oracle Real Application Clusters to enlighten and educate readers on the internals of RAC operations cache fusion fusion recovery processes and the fast reconfiguration of RAC This book provides comprehensive coverage of the features technology and principles of RAC that is part of the Oracle9i release of Oracle s RDBMS product It is divided into three main parts application database design development and maintenance life cycles Compared to its predecessor OPS the architecture behind RAC implementation have changed significantly Vallath discusses Oracle9i features in a RAC implementation with respect to usage and design considerations as well as those parameters that are and are not applicable Areas covered include partitioning indexes tablespace management transaction management backup and recovery principles Performance tuning with examples troubleshooting and problem solving scenarios are covered in detail as well as discussions on the migration process from a single instance database to RAC and migration from an OPS implementation to RAC Oracle Real Application Clusters takes readers through a logical flow from RAC concepts to operations covering each facet with a fine tooth comb Vallath s skilled writing style makes each chapter entertaining and informative as only a true RAC connoisseur can provide New and experienced users of RAC as well as those seeking to expand their knowledge of this dynamic technology will find this book to be a necessity for both home and office reference libraries Focuses on implementing testing and tuning features of Real Application Clusters RAC Provides extensive coverage of usage day to day

functions and operations Includes tips and techniques such as script samples to illustrate various features of RAC Unravels the internals of RAC architecture Oracle9i RAC Michael R. Ault, Mike Ault, Madhu Tamma, 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 Database 10g Real Application Clusters Handbook** K. Gopalakrishnan ((Kandhasamy)), 2007 Oracle Database 11g DBA Handbook Bob Bryla, Kevin Loney, 2007-12-27 The Essential Resource for Oracle DBAs Fully Updated and Expanded Manage a flexible highly available Oracle database with help from the expert information contained in this exclusive Oracle Press guide Fully revised to cover every new feature and utility Oracle Database 11g DBA Handbook shows how to perform a new installation upgrade from previous versions configure hardware and software for maximum efficiency and employ bulletproof security You will learn to automate the backup and recovery process provide transparent failover capability audit and tune performance and distribute your enterprise databases with Oracle Net Plan and deploy permanent temporary and bigfile tablespaces Optimize disk allocation CPU usage I O throughput and SQL queries Develop powerful database management applications Guard against human errors using Oracle Flashback and Oracle Automatic Undo Management Diagnose and tune system performance using Oracle Automatic Workload Repository and SQL Tuning Sets Implement robust security using authentication authorization fine grained auditing and fine grained access control Maintain high availability using Oracle Real Application Clusters and Oracle Active Data Guard Respond more efficiently to failure scenarios by leveraging the Oracle Automatic Diagnostic Repository and the Oracle Repair Advisor Back up and restore tables tablespaces and databases with Oracle Recovery Manager and Oracle Data Pump Export and Import Work with networked databases data warehouses and VLDBs Put the latest Oracle Database 11g tools to work Oracle Total Recall Oracle Flashback Data Archive and more

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