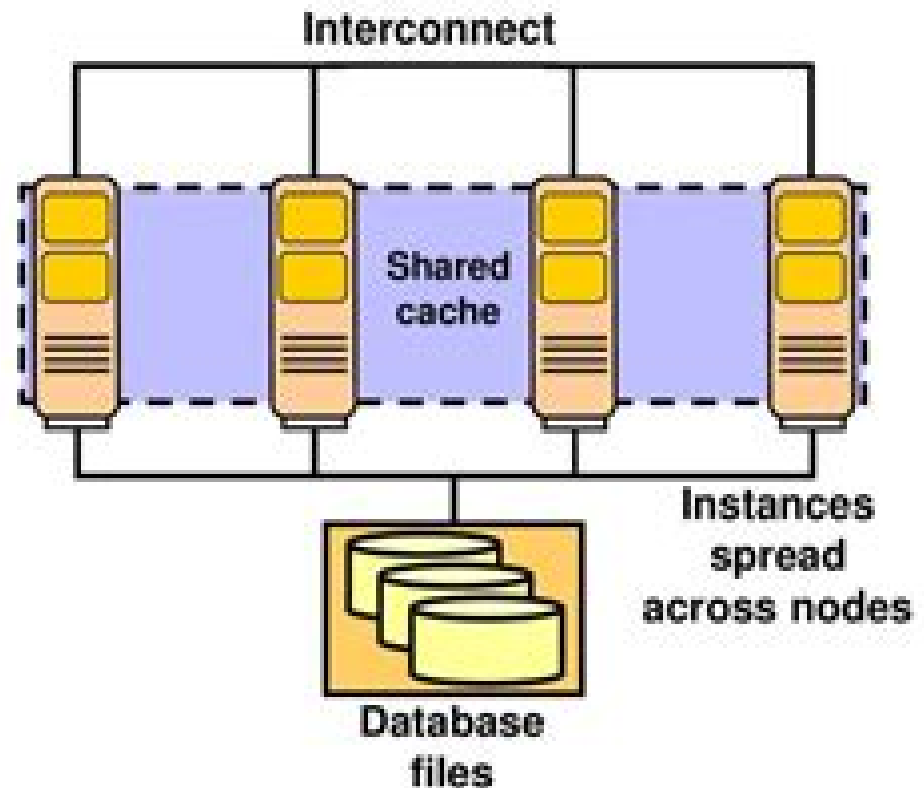


Oracle Real Application Clusters

- Multiple instances accessing the same database
- One instance per node
- Physical or logical access to each database file
- Software-controlled data access



Oracle Real Application Clusters

Murali Vallath



Oracle Real Application Clusters:

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, 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 has 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. **Expert Oracle RAC 12c** Riyaj Shamsudeen, Syed Jaffar 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 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 10g Grid and Real Application Clusters** Mike Ault, Madhu Tumma, Ranko Mosaic, 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 Oracle10g 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 *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 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 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 11gR2 RAC For Beginners** Arun Kumar, 2019-10-18

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

[Personal Oracle Real Application Clusters](#) Edward Stoeber,2006 A guide for Oracle DBAs who are too busy to build a clustered server environment to learn about Oracle s Real Application Cluster technology this book allows DBAs to build and configure a Real Application Cluster quickly and inexpensively Covers how to find the right hardware to build an at home RAC where to get Linux and how to set it up how to install the Oracle Cluster Manager and how to create the RAC database

ORACLE REAL APPLICATION CLUSTERS TESTING AND TUNING Murali Vallath,2014-06 The Oracle Press guide to tuning

Oracle Real Application Clusters RAC Written by an Oracle RAC expert and president of the Oracle RAC Special Interest Group Oracle Real Application Clusters Testing and Tuning provides comprehensive coverage of the features technology and principles of testing and tuning an Oracle RAC database by dissecting the various tiers of its implementation These include the operating system network application instance database and clusterware This book provides step by step advice for removing bottlenecks minimizing downtime and increasing overall system performance Oracle Real Application Clusters Testing and Tuning Includes practical step by step scenarios Contains real world examples and illustrations Outlines an effective analysis and approach to tuning the database Provides script samples that illustrate various Oracle RAC features This Oracle Press Guide covers Testing Methodology Testing Hardware for Scalability Testing Hardware for Availability Testing Application for Scalability Tuning Tools and Utilities Cost Based Optimizer SQL Tuning Parallel Query Tuning Tuning the Database Tuning Recovery Tuning Oracle Net Tuning Storage Subsystem Block Size Optimization Tuning the Cluster Interconnect Tuning the Global Cache Management Optimization of Distributed Workload Tuning the Oracle Clusterware Tuning Third party Applications for RAC Creating Highly Available Database Solutions Kristien Hens,Michael Loebmann,2004 This book explains how to architect and deploy high availability HA solutions with Oracle Real Application Clusters Oracle RAC in a Sun tm Cluster 3 x environment It presents information to help you decide when an Oracle RAC and Sun Cluster software solution is appropriate to satisfy the availability requirements of your business In addition this book explains the technology behind these products describes successful customer deployments and provides technical tips and preferred practice recommendations This book features detailed case studies including A large German bank that has implemented an Oracle RAC and Sun Cluster software solution to meet the ever increasing business demands of the banking industry One of the largest companies in Europe for alpine skiing that has implemented Oracle RAC and Sun Cluster software to support HA requirements in a consolidated environment A benchmark case that describes the use of Oracle RAC with Sun s Remote Shared Memory RSM technology to improve the performance of single instance databases A large financial institution that uses Sun Cluster s HA Oracle agent to provide the necessary level of HA required for their database

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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

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