

**Oracle In-Focus**

# Oracle RAC Performance Tuning

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*Series Editor*

# Oracle Rac Performance Tuning Oracle In Focus Volume 50

**Murali Vallath**



## **Oracle Rac Performance Tuning Oracle In Focus Volume 50:**

*Oracle Rac Performance Tuning* Brian Peasland, 2015-01-25 This book is the first of its kind a book dedicated to tuning the Oracle high availability RAC architecture Oracle RAC databases are flexible and robust and along with this flexibility comes complexity making RAC tuning one of the most challenging areas of Oracle tuning Packed with incisive insights and examples from one of America's leading RAC experts guru Brian Peasland delivers an indispensable book for all RAC administrators who need to guarantee that their RAC systems run at optimal performance It's not enough for the DBA to maintain and control RAC database the RAC DBA must also have an arsenal of tools and scripts that will help them ensure that their RAC database run at optimal levels This book will be valuable to all Oracle professionals who must tune their Oracle RAC systems for peak performance Similar to tuning Oracle database systems in general Oracle RAC performance tuning covers a wide variety of focus areas Topics will include Oracle wait events specific to RAC deployments using Oracle Enterprise Manager Grid Control and AWR in diagnosing RAC problems and RAC utilities such as OS Watcher and ORAchK formerly RACcheck This book will also discuss architecture issues related RAC performance delving into the cluster interconnect physical disk layout and Oracle 12c new Flex Clusters Oracle RAC also allows the workload the spread among several low cost servers scale out rather than a large single server scale up and this book examines these approaches from a tuning perspective Many companies are working towards private cloud implementations using RAC and this book is perfect for the DBA's charged with Oracle 12c RAC raises the bar with its new multi tenant database implementation Think of multi tenant as virtualization at the database level As more companies start leveraging Oracle 12c RAC for their enterprise database architecture it is important that the system be designed and tuned properly to ensure the application has a well performing user experience This unique book provides a one stop location for any RAC DBA who must become a RAC performance tuning specialist Most Oracle RAC books on the market devote only one chapter to performance tuning The information in this book provides a solid foundation for one's first RAC deployment and provide you with the tools and methods needed to keep your complex RAC systems running optimally While this book is not for beginners the reader is given sufficient background throughout the chapters so that most Oracle DBAs even those with little Oracle RAC experience will be able to understand its contents Oracle RAC is inherently complex This explains the concepts before delving into highly technical areas Many in depth areas of RAC tuning are explored that help the DBA reveal hidden performance trends within even the most complex RAC database

Oracle Tuning Alexey B. Danchenkov, 2006-02-01 Oracle 10g has become the most complex database ever created and Oracle tuning has become increasingly complex This book provides a complete step by step approach for holistic Oracle tuning and it is the accumulated knowledge from tuning thousands of Oracle databases Incorporating the principles of artificial intelligence Oracle 10g has developed a sophisticated mechanism for capturing and tracking database performance over time periods This new complexity has introduced dozens of new v and DBA views plus

dozens of Automatic Workload Repository AWR tables The AWR and its interaction with the Automatic Database Diagnostic Monitor ADDM is a revolution in database tuning By understanding the internal workings of the AWR tables the senior DBA can develop time series tuning models to predict upcoming outages and dynamically change the instance to accommodate the impending resource changes This is not a book for beginners Targeted at the senior Oracle DBA this book dives deep into the internals of the v views the AWR table structures and the new DBA history views Packed with ready to run scripts you can quickly monitor and identify the most challenging performance issues

### **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

### **RAC Performance**

**Tuning Vol 1** Ammulya Tokala,2016-09-22 A DBA or the application developer is to provide efficient well performing applications with good response time In order for the application to provide a good response the system database and SQL queries should be welltuned Systems are tuned based on data collected during periods of poor performance the evidence and the data collected may provide an indication of where the actual problem resides

Oracle Performance Survival Guide Guy Harrison,2009-10-09 Oracle Performance Survival Guide A Systematic Approach to Database Optimization The fast complete start to finish guide to optimizing Oracle performance Oracle Performance Survival Guide offers a structured systematic start to finish methodology for optimizing Oracle performance as efficiently as possible Leading Oracle expert Guy Harrison shows how to maximize your tuning investment by focusing on causes rather than symptoms and by quickly identifying the areas that deliver the greatest bang for the buck Writing for DBAs and developers with all levels of experience Harrison covers every area of Oracle performance management from application design through SQL tuning contention management through memory and physical IO management He also presents up to the minute guidance for optimizing the performance of the

Oracle 11g Release 2 You'll start by mastering Oracle structured performance tuning principles and tools including techniques for tracing and monitoring Oracle execution Harrison illuminates the interaction between applications and databases guides you through choosing tuning tools and introduces upfront design techniques that lead to higher performance applications He also presents a collection of downloadable scripts for reporting on all aspects of database performance Coverage includes Tuning by layers the most effective highest value approach to Oracle performance optimization Making the most of Oracle's core tools for tracing monitoring and diagnosing performance Highly efficient database logical and physical design indexing transaction design and API use SQL and PL SQL tuning including the use of parallel SQL techniques Minimizing contention for locks latches shared memory and other database resources Optimizing memory and physical disk IO Tuning Real Application Cluster RAC databases [guyharrison.net/informit.com/ph](http://guyharrison.net/informit.com/ph) Oracle Real Application Clusters Murali Vallath,2004 Practical guide to RAC architecture for database managers to manage Oracle9i clusters

**Oracle 10g RAC Grid, Services and Clustering** Murali Vallath,2006-07-04 Grid architecture is Oracle's strategy for high end computing and RAC is the stepping stone into this arena This book focuses on current technology including all valid RAC features up through Oracle Database 10g Release 2 with a primary focus on deploying it in a high end grid environment The book discusses this technology at length which users will find beneficial when researching implementing or monitoring a RAC environment The author covers workshop implementation of services and the distribution of workload across instances with threshold definitions and the new load balancing algorithms In addition it includes detailed discussions on ASM that complements the implementation of RAC in Oracle Grid strategy The book also includes discussions on new Oracle Clusterware its components and its integration with RAC Oracle 10g RAC focuses on RAC specific topics including ASM operating system configuration installation and configuration of RAC and much more Coverage includes network configuration for high availability FAN TAF ONS implementation of maximum availability architecture MAA EM Grid Control AWR ADDM and other performance related tools The author includes several scripts for performance tuning and implementation that the reader can use to configure a RAC environment either on a 2 4 8 60 or 99 node configuration Focuses on implementing testing and tuning features of Real Application Clusters RAC database version 10g Release 2 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 A jumpstart into all the key features of 10g R2 RAC

**High-Performance Oracle** Geoff Ingram,2002-10-01 Geoff Ingram has met the challenge of presenting the complex process of managing Oracle performance This book can support every technical person looking to resolve Oracle8i and Oracle9i performance issues Aki Ratner President Precise Software Solutions Ensuring high performance and continuous availability of Oracle software is a key focus of database managers At least a dozen books address the subject of performance tuning that is how to fine tune the Oracle database for its greatest processing efficiency Geoff Ingram argues that this approach simply isn't enough He believes

that performance needs to be addressed right from the design stage and it needs to cover the entire system not just the database High Performance Oracle is a hands on book loaded with tips and techniques for ensuring that the entire Oracle database system runs efficiently and doesn't break down Written for Oracle developers and DBAs and covering both Oracle8i and Oracle9i the book goes beyond traditional performance tuning books and covers the key techniques for ensuring 24/7 performance and availability of the complete Oracle system The book provides practical solutions for Choosing physical layout for ease of administration and efficient use of space Managing indexes including detecting unused indexes and automating rebuilds SQL and system tuning using the powerful new features in Oracle9i Release 2 Improving SQL performance without modifying code Running Oracle Real Application Clusters RAC for performance and availability Protecting data using Recover Manager RMAN and physical and logical standby databases The companion Web site provides the complete source code for examples in the book updates on techniques and additional documentation for optimizing your Oracle system

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 RAC and Grid Tuning with Solid-State Disk* Mike Ault, Donald K. Burleson, 2005-09-01 This guide to leveraging RAM SAN technology shows Oracle DBAs how to create fast Oracle9i RAC databases Techniques for leveraging RAM disk in an Oracle RAC and Grid environment are demonstrated including changes to initialization parameters and the selective use of SSD in large database environments UNDO REDO and TEMP tablespaces on solid state disk

Advanced Oracle SQL Tuning Donald K. Burleson, 2014-03 It's impossible to tune an Oracle database without understanding SQL tuning Oracle is a SQL processing engine and the execution speed of any SQL query is influenced by many factors both internal and external As a declarative data access method SQL relies on the Oracle cost based optimizer to always choose the best execution plan for every SQL query However Oracle's SQL is among the most flexible and robust in the world and along with this great power comes complexity Tuning Oracle SQL is the single most important skill of any Oracle professional and Oracle professionals are challenged to create SQL statements that will support thousands of concurrent executions with sub second response time Advanced Oracle SQL Tuning is a pragmatic treatment of Oracle SQL tuning short on theory and big on real world techniques and tips This book is the culmination of the author's 25 years of full time DBA experience and he shares expert tips and secrets for hyper charging SQL execution speed This book covers advanced topics and it is not appropriate for beginners dilettantes or neophytes

**ORACLE High-Performance SQL Tuning** DONALD K. BURLESON, **Oracle Tuning Power Scripts** Harry Conway, Michael R. Ault, Donald Burleson, 2005 Targeted at Oracle professionals who need fast and accurate working examples of complex issues Oracle In focus books target specific areas of Oracle technology in a concise manner Plenty of working code is provided without a lot of theory allowing database managers to solve their problems quickly without reviewing data that they already know All code scripts are available for instant download from a

companion web site      **Oracle and UNIX Performance Tuning** Ahmed Alomari,1997 Alomari makes in depth recommendations for tuning both decision support and transaction applications each of which impact the Oracle kernel in significantly different ways No other tuning book covers specific OLAP and OLTP issues in comparable detail      **Oracle High Performance Tuning With Statspack** Donald K. Burleson,2002      **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 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 Performance Tuning for 10gR2** Gavin JT Powell,2011-04-08 Tuning of SQL code is generally cheaper than changing the data model Physical and configuration tuning involves a search for bottlenecks that often points to SQL code or data model issues Building an appropriate data model and writing properly performing SQL code can give 100% performance improvement Physical and configuration tuning often gives at most a 25% performance increase Gavin Powell shows that the central theme of Oracle10gR2 Performance Tuning is four fold denormalize data models to fit applications tune SQL code according to both the data model and the application in relation to scalability create a well proportioned physical architecture at the time of initial Oracle installation and most important mix skill sets to obtain the best results Fully updated for version 10gR2 and provides all necessary transition material from version 9i Includes all three aspects of Oracle database tuning data model tuning SQL PL SQL code tuning physical plus configuration tuning Contains experienced guidance and real world examples using large datasets Emphasizes development as opposed to operating system perspective      Creating a Self-Tuning Oracle Database Don Burleson,2003-08-01 Explores how to monitor the behavior of the Oracle System Global Area and includes techniques to develop scripts correct SGA performance problems and collect historical data to use in memory areas      Troubleshooting Oracle Performance Christian Antognini,2014-06-14 Troubleshooting Oracle Performance 2nd Edition is your systematic guide to diagnosing and resolving performance problems in database backed applications involving Oracle s database engine Christian Antognini brings a decade and a half experience to his topic His first edition is one of the most well respected books in its field This second edition has been rigorously updated to cover the latest developments in Oracle Database 11g Release 2 through Oracle Database 12c What do you do when your database application isn t running fast enough You troubleshoot of course Finding the slow part of an application is often the easy part of the battle It s finding a solution that s difficult Troubleshooting Oracle Performance 2nd Edition helps by providing a systematic approach to addressing the underlying causes of poor database application

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