



# Oracle Database 11gR2 Performance Tuning Cookbook

Over 80 recipes to help beginners achieve better performance from Oracle Database applications



Ciro Fiorillo

**[PACKT]** enterprise  
publishing

# Oracle 11gr2 Performance Tuning Guide

**Martin Bach**



## Oracle 11gr2 Performance Tuning Guide:

**Oracle Database XE 11gR2 Jump Start Guide** Asif Momen, 2012-07-10 Build and manage your Oracle Database XE environment with this fast paced practical guide

**Oracle Database 11gR2 Performance Tuning Cookbook** Ciro Fiorillo, 2012-01-01 In this book you will find both examples and theoretical concepts covered Every recipe is based on a script procedure explained step by step with screenshots while theoretical concepts are explained in the context of the recipe to explain why a solution performs better than another This book is aimed at software developers software and data architects and DBAs who are using or are planning to use the Oracle Database who have some experience and want to solve performance problems faster and in a rigorous way If you are an architect who wants to design better applications a DBA who is keen to dig into the causes of performance issues or a developer who wants to learn why and where the application is running slow this is the book for you Basic knowledge of SQL language is required and general knowledge of the Oracle Database architecture is preferable

*Advanced Oracle PL/SQL Developer's Guide* Saurabh K. Gupta, 2016-02-15 Master the advanced concepts of PL SQL for professional level certification and learn the new capabilities of Oracle Database 12c About This Book Learn advanced application development features of Oracle Database 12c and prepare for the 1Z0 146 examination Build robust and secure applications in Oracle PL SQL using the best practices Packed with feature demonstrations and illustrations that will help you learn and understand the enhanced capabilities of Oracle Database 12c Who This Book Is For This book is for Oracle developers responsible for database management Readers are expected to have basic knowledge of Oracle Database and the fundamentals of PL SQL programming Certification aspirants can use this book to prepare for 1Z0 146 examination in order to be an Oracle Certified Professional in Advanced PL SQL What You Will Learn Learn and understand the key SQL and PL SQL features of Oracle Database 12c Understand the new Multitenant architecture and Database In Memory option of Oracle Database 12c Know more about the advanced concepts of the Oracle PL SQL language such as external procedures securing data using Virtual Private Database VPD SecureFiles and PL SQL code tracing and profiling Implement Virtual Private Databases to prevent unauthorized data access Trace analyze profile and debug PL SQL code while developing database applications Integrate the new application development features of Oracle Database 12c with the current concepts Discover techniques to analyze and maintain PL SQL code Get acquainted with the best practices of writing PL SQL code and develop secure applications In Detail Oracle Database is one of the most popular databases and allows users to make efficient use of their resources and to enhance service levels while reducing the IT costs incurred Oracle Database is sometimes compared with Microsoft SQL Server however Oracle Database clearly supersedes SQL server in terms of high availability and addressing planned and unplanned downtime Oracle PL SQL provides a rich platform for application developers to code and build scalable database applications and introduces multiple new features and enhancements to improve development experience *Advanced Oracle PL SQL Developer's Guide* Second

Edition is a handy technical reference for seasoned professionals in the database development space This book starts with a refresher of fundamental concepts of PL SQL such as anonymous block subprograms and exceptions and prepares you for the upcoming advanced concepts The next chapter introduces you to the new features of Oracle Database 12c not limited to PL SQL In this chapter you will understand some of the most talked about features such as Multitenant and Database In Memory Moving forward each chapter introduces advanced concepts with the help of demonstrations and provides you with the latest update from Oracle Database 12c context This helps you to visualize the pre and post applications of a feature over the database releases By the end of this book you will have become an expert in PL SQL programming and will be able to implement advanced concepts of PL SQL for efficient management of Oracle Database Style and approach The book follows the structure of the Oracle Certification examination but doesn't restrict itself to the exam objectives Advanced concepts have been explained in an easy to understand style supported with feature demonstrations and case illustrations **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 **POWER7 and POWER7+ Optimization and Tuning Guide** Brian Hall,Mala Anand,Bill Buros,Miso Cilimdzc,Hong Hua,Judy Liu,John MacMillan,Sudhir Maddali,K Madhusudanan,Bruce Mealey,Steve Munroe,Francis P O'Connell,Sergio Reyes,Raul Silvera,Randy Swanberg,Brian Twichell,Brian F Veale,Julian Wang,Yaakov Yaari,IBM Redbooks,2013-03-04 This IBM Redbooks publication provides advice and technical information about optimizing and tuning application code to run on systems that are based on the IBM POWER7 and POWER7 TM processors This advice is drawn from application optimization efforts across many different types of code that runs under the IBM AIX and Linux operating systems focusing on the more pervasive performance opportunities that are identified and how to capitalize on them The technical information was

developed by a set of domain experts at IBM The focus of this book is to gather the right technical information and lay out simple guidance for optimizing code performance on the IBM POWER7 and POWER7 systems that run the AIX or Linux operating systems This book contains a large amount of straightforward performance optimization that can be performed with minimal effort and without previous experience or in depth knowledge This optimization work can Improve the performance of the application that is being optimized for the POWER7 system Carry over improvements to systems that are based on related processor chips Improve performance on other platforms The audience of this book is those personnel who are responsible for performing migration and implementation activities on IBM POWER7 based servers which includes system administrators system architects network administrators information architects and database administrators DBAs

**Oracle Database Performance and Scalability** Henry H. Liu,2011-10-24 The innovative performance and scalability features with each newer edition of the Oracle database system can present challenges for users This book teaches software developers and students how to effectively deal with Oracle performance and scalability issues throughout the entire life cycle of developing Oracle based applications Using real world case studies to deliver key theories and concepts the book introduces highly dependable and ready to apply performance and scalability optimization techniques augmented with Top 10 Oracle Performance and Scalability Features as well as a supplementary support website

**Oracle GoldenGate 12c Implementer's Guide** John P Jeffries,2015-07-27 GoldenGate exchanges data among systems in a timely manner and meets the demand for real time access to information regardless of volume The new release 12c includes an optimized database intelligent and integrated delivery capabilities expanded heterogeneity and tighter security Perform zero downtime data migration to on premise or public cloud with GoldenGate s feature rich portfolio Start with the installation and learn the design concepts and enhanced configuration of GoldenGate 12c Exploit new 12c features to successfully implement GoldenGate on your enterprise Dive deep into configuring GoldenGate for high availability DDL support and reverse processing Build fast secure robust scalable technical solutions by tuning data delivery and networks Finally enrich your data replication knowledge by learning the troubleshooting tips

*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 11g Release 2 Performance Tuning Tips & Techniques** Richard Niemiec,2012-03-19 Best practices for optimizing database performance Cover      **Data Mining and Big Data** Ying Tan,Yuhui Shi,Qirong Tang,2018-06-09 This book constitutes the refereed proceedings of the Third International Conference on Data Mining and Big Data DMBD 2018 held in Shanghai China in June 2018 The 74 papers presented in this volume were carefully reviewed and selected from 126 submissions They are organized in topical sections named database data preprocessing matrix factorization data analysis visualization visibility analysis clustering prediction classification pattern discovery text mining and knowledge management recommendation system in social media deep learning big data Industry 4 0 practical applications      **SONAS Implementation and Best Practices Guide** Mary Lovelace,Jichan Chong,Marcos Figueiredo Jr,Curtis Neal,Gabor Penzes,Naren Rajasingam,Joe Roa,Alexander Saupp,John Sing,Shradha Nayak Thakare,Mladen Vukoje,IBM Redbooks,2012-07-27 IBM Scale Out Network Attached Storage SONAS is a Scale Out NAS offering designed to manage vast repositories of information in enterprise environments requiring very large capacities high levels of performance and high availability The IBM SONAS appliance provides a range of reliable scalable storage solutions for a variety of storage requirements These capabilities are achieved by using network access protocols such as NFS CIFS HTTPS FTP and SCP Using built in RAID technologies all data is well protected with options to add additional protection through mirroring replication snapshots and backup These storage systems are also characterized by simple management interfaces that make their installation administration and troubleshooting uncomplicated and straightforward This IBM Redbooks publication is the companion to the IBM Redbooks publication SONAS Concepts Architecture and Planning Guide SG24 7963 It is intended for storage administrators who have ordered their SONAS solution and are ready to install customize and use it A quick start scenario takes you through common SONAS administration tasks to familiarize you with the SONAS system through the GUI and CLI Backup and availability scenarios as well as best practices for setting up and troubleshooting hints and tips are included      **Oracle Data Guard 11gR2 Administration Beginner's Guide** Emre Baransel,2013-01-01 Using real world examples and hands on tasks Oracle Data Guard 11gR2 Administration Beginner s Guide will give you a solid foundation in Oracle Data Guard It has been designed to teach you everything you need to know to successfully create and operate Data Guard environments with

maximum flexibility compatibility and effectiveness If you are an Oracle database administrator who wants to configure and administer Data Guard configurations then Oracle Data Guard 11gR2 Administration Beginner's Guide is for you With a basic understanding of Oracle database administration you'll be able to easily follow the book **Oracle ADF 11gR2**

**Development Beginner's Guide** Vinod Krishnan,2013-04-25 Oracle ADF 11gR2 Development Beginner's Guide will cover the basics of Oracle ADF 11g development and will then work through more complex topics as the reader gains more skills This book will follow a tutorial approach with the content and tasks getting more advanced throughout This book is intended for beginners who know a little about Java programming and would like to learn how to develop rich web applications using the Oracle Application Development Framework *Oracle DBA Startup-Guide* Chanchal Wankhade,2014-07-17 Book for Oracle DBA's *Oracle 19c AutoUpgrade Best Practices* Sambaiah Sammeta,Sukumar Chillakuru,2021-11-30 Master Oracle's AutoUpgrade tool effectively to upgrade Oracle databases from lower versions to 19c **KEY FEATURES** In depth practical demonstration of Oracle database upgrades with various real time scenarios Step by step illustration of each Oracle database upgrade and downgrade method Fastest ever multiple Oracle databases upgrade **DESCRIPTION** Oracle 19c AutoUpgrade Best Practices is a simple cookbook for database professionals to upgrade from lower versions to 19c or downgrade from 19c to lower versions This book is dedicated solely to demonstrate upgrading Oracle Databases to 19c by using AutoUpgrade tool It has a very good explanation about different AutoUpgrade processing modes Analyze Fixup Deploy and Upgrade and various stages that the AutoUpgrade job runs while performing database upgrade Multiple chapters in this book covers various scenarios with detailed steps for upgrading Oracle database from versions 11g 12c 18c to version 19c and Downgrading from 19c to 11g 12c 18c By the end of this book every Oracle DBA can gain real time experience and become a master in upgrading and downgrading oracle databases Standalone RAC Standby using AutoUpgrade Utility **WHAT YOU WILL LEARN** Learn to use the Oracle database upgrade tool AutoUpgrade for various DB challenges Understand how to convert a non container database to a 19c pluggable database Get to know how to upgrade multiple databases of different versions to 19c in a single operation **WHO THIS BOOK IS FOR** This book is intended for Oracle DBA students Database administrators Database Architects and anyone else who want to improve their database upgrade or downgrade skills in a concise and understandable manner **TABLE OF CONTENTS** 1 Introduction to DB Upgrades 2 Upgrading Oracle Database from 11 2 0 4 to 19 9 0 Using dbupgrade Manual 3 Upgrading Oracle Database from 11 2 0 4 to 19 9 0 Using AutoUpgrade 4 Upgrading and Converting 12c non CDB as 19c PDB 5 Upgrading Oracle Multitenant Database from 12c 18c to 19c 6 Upgrading and Converting 12c non CDB as 19c PDB using AutoUpgrade 7 Upgrading Multiple Database Versions 11g 12c 18c to 19c Using the Single AutoUpgrade Command [Oracle Database 12c Release 2 Performance Tuning Tips & Techniques](#) Richard Niemiec,2017-03-22 Proven Database Optimization Solutions Fully Updated for Oracle Database 12c Release 2 Systematically identify and eliminate database performance problems with help from Oracle Certified Master

Richard Niemiec Filled with real world case studies and best practices Oracle Database 12c Release 2 Performance Tuning Tips and Techniques details the latest monitoring troubleshooting and optimization methods Find out how to identify and fix bottlenecks on premises and in the cloud configure storage devices execute effective queries and develop bug free SQL and PL SQL code Testing reporting and security enhancements are also covered in this Oracle Press guide Properly index and partition Oracle Database 12c Release 2 Work effectively with Oracle Cloud Oracle Exadata and Oracle Enterprise Manager Efficiently manage disk drives ASM RAID arrays and memory Tune queries with Oracle SQL hints and the Trace utility Troubleshoot databases using V views and X tables Create your first cloud database service and prepare for hybrid cloud Generate reports using Oracle s Statspack and Automatic Workload Repository tools Use sar vmstat and iostat to monitor operating system statistics

Expert Oracle Practices Pete Finnigan,Alex Gorbachev,Tim Gorman,Charles Hooper,Jonathan Lewis,Niall Litchfield,Robyn Sands,Joze Senegacnik,Riyaj Shamsudeen,Jeremiah Wilton,Graham Wood,Connie Green,Karen Morton,Randolf Geist,Uri Shaft,Melanie Caffrey,Andrew Morton,Tom Green,Paul Wilton,Joe Lewis,2010-03-24 This book is an anthology of effective database management techniques representing the collective wisdom of the OakTable Network With an emphasis upon performance but also branching into security national language and other issues the book helps you deliver the most value for your company s investment in Oracle Database technologies You ll learn to effectively plan for and monitor performance to troubleshoot systematically when things go wrong and to manage your database rather than letting it manage you

*Experiences with Oracle 11gR2 on Linux on System z* Ivan Dobos,Sam Amsavelu,Kathryn Arrell,Gaylan Braselton,Armelle Cheve,Damian Gallagher,Hel ne Grosch,Michael MacIsaac,Romain Pochard,Barton Robinson,David Simpson,Richard Smrcina,IBM Redbooks,2013-11-22 Linux on System z offers many advantages to customers who rely on the IBM mainframe systems to run their businesses Linux on System z makes use of the qualities of service in the System z hardware and in z VM making it a robust industrial strength Linux This provides an excellent platform for hosting Oracle solutions that run in your enterprise This IBM Redbooks publication is divided into several sections to share the following experiences that are gained while Oracle Database 11gR2 is installed and tested Setting up Red Hat Enterprise Linux 6 for Oracle Managing an Oracle on Linux on System z environment Provisioning Linux guests using several tools It also includes many general hints and tips for running Oracle products on IBM System z with Linux and z VM Interested readers include database consultants installers administrators and system programmers This book is not meant to replace Oracle documentation but to supplement it with our experiences while Oracle products are installed and used

**Experiences with Oracle Database 12c Release 1 on Linux on System z** Arrell Kathryn,Mike Ebberts,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     *Expert Consolidation in Oracle Database 12c* Martin Bach,2014-01-23 *Expert Consolidation in Oracle Database 12c* is your key to reducing data management costs and increasing data center efficiency Consolidation and cloud computing are converging trends sweeping the industry The same technologies enabling cloud computing enable consolidation as well leading to savings on all fronts from the amount of power used for servers to the amount of floor space consumed to the number of administrators needed to manage an installation Yet the consolidation process can be a long and winding road Success requires planning and consideration to the impacts on supporting infrastructure *Expert Consolidation in Oracle Database 12c* guides you through planning and implementing a consolidated Oracle Database installation using the many new features built into the latest release of Oracle s database management system You ll learn to identify candidates for consolidation and to recognize instances that are best left stand alone The book guides in working with clustered systems and ASM storage in the consolidated environment Focus is given to Oracle Enterprise Manager 12c Cloud Control as a monitoring and management dashboard Always the goal is to drive towards a cost effective environment that is efficient both in technology and people Focuses on the new consolidation features in Oracle Database 12c Helps you evaluate and correctly decide when to consolidate Leads to cost savings and improved data center efficiency

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