

# Course Objectives

In this course, you:

- Learn the principal concepts of RAC
- Install the RAC components
- Administer database instances in a RAC and ASM environment
- Manage services
- Back up and recover RAC databases
- Monitor and tune performance of a RAC database
- Administer Oracle Clusterware

# Oracle 11g Rac Administration Guide

**Flavia D'Souza**



## **Oracle 11g Rac Administration Guide:**

*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

**OCP: Oracle Database 11g Administrator Certified Professional Study Guide** Robert G. Freeman, Charles A. Pack, Doug Stuns, 2009-05-18 This updated study guide for the latest release of the most popular database software in the world Oracle Database 11g reviews using the RMAN recovery catalog handling Flashback technology managing memory and resources automating tasks diagnosing the database and much more Plus more than 100 pages of workbook exercises help prepare you to take the 1Z0 053 exam Note CD ROM DVD and other supplementary materials are not included as part of eBook file

**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 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      *OCA: Oracle Database 11g Administrator Certified Associate Study Guide* Biju Thomas,2011-01-31 Candidates for the Oracle Certified Associate in Oracle Database 11g need to pass Exams 1Z0 051 and 1Z0 052 to achieve their certification this guide prepares you for taking both those exams This two in one study guide covers the Oracle Certified Associate certification for Oracle database 11g and reviews exam topics such as restricting and sorting data using conversion functions and conditional expressions displaying data from multiple tables and exploring the Oracle database architecture Plus you'll learn how to create and maintain an Oracle database perform database backups and recovery move and manipulate data prepare the database environment and more Note CD ROM DVD and other supplementary materials are not included as part of eBook file For Instructors Teaching supplements are available for this title      *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 VM Implementation and Administration Guide Edward Whalen,2011-07-13 Master the Powerful Virtualization Tools in Oracle VM Set up and maintain a dynamic virtualization platform across your enterprise using the detailed information contained in this Oracle Press guide Oracle VM Implementation and Administration Guide contains key virtualization concepts practical instructions examples and best practices Find out how to design Oracle VM server farms build and deploy virtual machines handle provisioning and cloning and work with Oracle VM Manager Monitoring tuning and security techniques are also covered in this comprehensive volume Install configure and manage all Oracle VM components Plan size and set up Oracle VM server farms and server pools Control resources from Oracle Enterprise Manager Grid Control Oracle VM Manager and Oracle VM Command Line Interface Govern network drives and virtual storage using Oracle VM tools Create virtual machines manually or from Oracle library templates Convert existing virtual machines on other systems to Oracle VM virtual machines Generate virtual machine clones that run on multiple server pools Maintain guest operating systems and software using Oracle Enterprise Manager Grid Control s Oracle VM Management Pack      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      **Beginning Oracle Database 11g Administration** Ignatius Fernandez,2009-03-25 This book written by veteran Oracle database administrator Iggy Fernandez a regular on the Oracle conference circuit and the editor of NoCOUG Journal is a manageable introduction to key Oracle database administration topics including planning installation monitoring troubleshooting maintenance and backups to name just a few As is clear from the table of contents this book is not simply a recitation of Oracle Database features such as what you find in the reference guides available for free download on the Oracle web site For example the chapter on database monitoring explains how to monitor database availability database changes database security database backups database growth database workload database performance and database capacity The chapters of this book are logically organized into four parts that closely track the way your database

administration career will naturally evolve Part 1 gives you necessary background in relational database theory and Oracle Database concepts Part 2 teaches you how to implement an Oracle database correctly Part 3 exposes you to the daily routine of a database administrator and Part 4 introduces you to the fine art of performance tuning Each chapter has exercises designed to help you apply the lessons of the chapter Each chapter also includes a list of reference works that contain more information on the topic of the chapter In this book you ll find information that you won t find in other books on Oracle Database Here you ll discover not only technical information but also guidance on work practices that are as vital to your success as technical skills The author s favorite chapter is The Big Picture and the Ten Deliverables If you take the lessons in that chapter to heart you can quickly become a much better Oracle database administrator than you ever thought possible

*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

**Practical Oracle E-Business Suite** Syed Zaheer, Erman Arslan, 2016-09-30 Learn to build and implement a robust Oracle E Business Suite system using the new release EBS 12 2 This hands on real world guide explains the rationale for using an Oracle E Business Suite environment in a business enterprise and covers the major technology stack changes from EBS version 11i through R12 2 You will learn to build up an EBS environment from a simple single node installation to a complex multi node high available setup Practical Oracle E Business Suite focuses on release R12 2 but key areas in R12 1 are also covered wherever necessary Detailed instructions are provided for the installation of EBS R12 2 in single and multi node configurations the logic and methodology used in EBS patching and cloning of EBS single node and complex multi node environments configured with RAC This book also provides information on FMW used in EBS 12 2 as well as performance tuning and EBS 12 2 on engineered system implementations What You Will Learn bbr pdivp pulli Understand Oracle EBS software and the underlying technology stack componentsbr lili Install configure Oracle E Business Suite R12 2 in simple and HA complex setupsbr lili Manage Oracle EBS 12 2br lili Use online patching adop for Installation of Oracle EBS patchesbr lili Clone an EBS environment in simple and complex configurationsbr lili Perform and tune Oracle EBS in all layers Application DB OS NW br lili Secure E Business Suite R12 2br li ul divbrb Who This Book Is For bp pp pp pp pp pp p Developers data architects and data scientists looking to integrate the most successful big data open stack architecture and how to choose the correct technology in every layer

*Oracle Advanced PL/SQL Developer*

*Professional Guide* Saurabh K. Gupta, 2012-01-01 This book is packed with real world examples that cover all the advanced features of PL SQL In turn each major certification topic is covered in a separate chapter that makes understanding concepts easier At the end of each chapter you will find plenty of practice questions to strengthen and test your learning If you are a PL SQL developer looking for deeper insight and a move from mid level programmer to professional database developer then this is the best guide for you This book is also an ideal guide for all the Associate level PL SQL programmers who are preparing for the Professional 1Z0 146 certification This book assumes you have prior knowledge of PL SQL programming

POWER7 and POWER7+ Optimization and Tuning Guide Brian Hall, Mala Anand, Bill Buros, Miso Cilindzic, 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

**IBM Real Time Compression Appliance Application Integration Guide** Roland Tretau, Misa Miletic, Steven Pemberton, Tom Provost, Teddy Setiawan, IBM Redbooks, 2012-07-18 Continuing its commitment to developing and delivering industry leading storage technologies IBM is introducing the IBM Real time Compression Appliances for NAS an innovative new storage offering that delivers essential storage efficiency technologies combined with exceptional ease of use and performance In an era when the amount of information particularly in unstructured files is exploding but budgets for storing that information are stagnant IBM Real time Compression technology offers a powerful tool for better information management protection and access IBM Real time Compression can help slow the growth of storage acquisition reducing storage costs while simplifying both operations and management It also enables organizations to keep more data available for use rather than storing it offsite or on harder to access tape so they can support improved analytics and decision making

IBM Real time Compression Appliances provide online storage optimization through real time data compression delivering dramatic cost reduction without performance degradation This IBM Redbooks publication is an easy to follow guide that describes how to design solutions successfully using IBM Real time Compression Appliances IBM RTCAs It explains best practices for RTCA solution design application integration and practical RTCA use cases This is a companion book to Introduction to IBM Real time Compression Appliances SG24 7953

**OCA Oracle Database 11g SQL Fundamentals I Exam Guide** John Watson, Roopesh Ramklass, 2008-06-20 A Fully Integrated Study System for OCA Exam 1Z0 051 Prepare for the Oracle Certified Associate Oracle Database 11g SQL Fundamentals I exam with help from this exclusive Oracle Press guide In each chapter you ll find challenging exercises practice questions a two minute drill and a chapter summary to highlight what you ve learned This authoritative guide will help you pass the test and serve as your essential on the job reference Get complete coverage of all OCA objectives for exam 1Z0 051 including SQL SELECT statements Restricting and sorting data Single row functions Conversion functions and conditional expressions Group functions Displaying data from multiple tables Subqueries Set operators DML and DDL statements Schema objects On the CD ROM One full practice exam that simulates the actual OCA exam Detailed answers and explanations Score report performance assessment tool Complete electronic book Bonus exam available free with online registration

**Oracle 11g For Dummies** Chris Zeis, Chris Ruel, Michael Wessler, 2009-01-14 Are you a seasoned system administrator charged with setting up an Oracle database Or did you suddenly become a DBA by default If database administration with Oracle is part of your job you ll be glad to have Oracle 11g For Dummies in your cubicle This nuts and bolts guide walks you through the mysteries of Oracle and database administration You ll learn how to understand Oracle database architecture set up and manage an Oracle database and keep it running in tiptop form Oracle 11g For Dummies covers The building blocks behind the database engine as well as Oracle s physical and logical structures Hardware software system and storage requirements for implementation How to recognize and accommodate the differences between Oracle installations on Windows and on Linux UNIX Daily and intermittent tasks necessary to keep your database running properly How to assess potential threats to your database configure Oracle Recovery Manager and set up backup and recovery procedures When to use online offline controlfile and archive log backups Troubleshooting methodology and how to use Oracle database logs and other diagnostic utilities Different ways to manage your database How to automate jobs with the Oracle Scheduler Using SQL in Oracle and a great deal more Completely up to date for the newest release of Oracle Oracle 11g For Dummies will give you both the information and the confidence to set up and maintain an Oracle database for your organization

**Oracle Data Guard 11g Handbook** Larry Carpenter, Joseph Meeks, Charles Kim, Bill Burke, Sonya Carothers, Joydip Kundu, Michael Smith, Nitin Vengurlekar, 2009-07-22 Master Oracle Data Guard 11g Provide superior data protection availability and disaster recovery using the tested techniques in this Oracle Press guide Cowritten by a team of Oracle experts Oracle Data Guard 11g Handbook provides a sound architectural



foundation along with best practices for configuration monitoring maintenance and troubleshooting You will get full details on implementing deployment architectures to address requirements that extend beyond disaster recovery This invaluable resource also includes a complete set of monitoring scripts available for download Develop a disaster recovery plan for your Oracle database to meet your organization s requirements Configure and deploy Oracle Data Guard for your environment Tune and troubleshoot your physical and logical standby databases Implement the Oracle Data Guard Broker management framework Integrate with Oracle Grid Control Monitor your Oracle Data Guard environment Enable read only services and disaster recovery with Oracle Active Data Guard Configure seamless database and application failover Minimize planned downtime using Oracle Data Guard switchover Handle backup and recovery with Oracle Recovery Manager

*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

*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      **Oracle Database 10g High Availability with RAC, Flashback & Data Guard** Matthew Hart, Scott Jesse, 2004-05-10 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Attain real solutions for current availability challenges Based on a DBA centric approach to High Availability Oracle Database 10g High Availability concentrates on explaining Oracle Database 10g technologies and practices to database administrators covering general availability real application clusters RAC disaster planning and recovery and distributed database solutions Hardware and application needs are also taken into account While Oracle Database 10g is the main focus many of the options discussed are available in earlier database releases Organized to provide conceptual understanding of High Availability included are HA Workshops step by step instructions to get you through certain implementations plus real world inspired case studies

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