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Introduction to Oracle Clusterware and RAC Administration and Deployment

This chapter provides an overview of administering Oracle Clusterware and Real Application Clusters (RAC) environments. This chapter includes the following topics:

- Real Application Clusters Documentation Overview
- Introduction to Administering Real Application Clusters
- Administering Real Application Clusters
- Database Instance Management and Database Administration in RAC

Real Application Clusters Documentation Overview

This section describes the RAC documentation set. This book, the *Oracle Database Oracle Clusterware and Oracle Real Application Clusters Administration and Deployment Guide*, provides RAC-specific administration and application deployment information.

This book describes how to administer the Oracle Clusterware components such as the voting disks and the Oracle Cluster Registry (OCR). This book also explains how to administer storage and how to use RAC scalability features to add and delete instances and nodes. This book also discusses how to use Recovery Manager (RMAN), and how to perform backup and recovery in RAC.

The *Oracle Database Oracle Clusterware and Oracle Real Application Clusters Administration and Deployment Guide* describes RAC deployment topics by explaining how to deploy automatic workload management and take advantage of high availability by using **services**. This book describes how the **Automatic Workload Repository (AWR)** tracks and reports service levels and how you can use service level thresholds and alerts to improve high availability in your RAC environment. This book also explains how to make your applications highly available by using Oracle Clusterware.

The *Oracle Database Oracle Clusterware and Oracle Real Application Clusters Administration and Deployment Guide* explains how to monitor and tune performance in RAC environments by using Oracle Enterprise Manager and by using information in AWR and Oracle performance views. This book also highlights application-specific deployment techniques for online transaction processing and data warehousing environments.

The appendices in this book describe:

- Troubleshooting tips such as debugging and log file use and general information about installing and using the Cluster Verification Utility (CVU)

Oracle Clusterware And Real Application Clusters Administration Deployment Guide 11g

Ben Prusinski,Syed Jaffer Hussain

Oracle Clusterware And Real Application Clusters Administration Deployment Guide 11g:

Installing Oracle 11gR2 RAC on Linux on System z Terry Elliot,David Simpson,IBM Redbooks,2011-11-22 This IBM RedpaperTM 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 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 Oracle11g 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 11g Oracle Real Application Clusters Handbook, 2nd Edition** K Gopalakrishnan,2011-08-10 Master Oracle Real Application Clusters Maintain a dynamic enterprise computing infrastructure with expert instruction from an Oracle ACE Oracle Database 11g Oracle Real Application Clusters Handbook

Second Edition has been fully revised and updated to cover the latest tools and features Find out how to prepare your hardware deploy Oracle Real Application Clusters optimize data integrity and integrate seamless failover protection Troubleshooting performance tuning and application development are also discussed in this comprehensive Oracle Press guide Install and configure Oracle Real Application Clusters Configure and manage diskgroups using Oracle Automatic Storage Management Work with services voting disks and Oracle Clusterware Repository Look under the hood of the Cache Fusion and Global Resource Directory operations in Oracle Real Applications Clusters Explore the internal workings of backup and recovery in Oracle Real Application Clusters Employ workload balancing and the Transparent Application Failover feature of an Oracle database Get complete coverage of Stretch Clusters also known as Metro Clusters Troubleshoot Oracle Clusterware using the most advanced diagnostics available Develop custom Oracle Real Application Clusters applications *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 11g R2 Step-By-Step Installation Guide* Sideris Courseware Corp,2014-05-14 A major prerequisite for the usage and deployment of Oracle database technology is a successful installation The purpose of this Oracle 11g training course module is to offer a step by step guide for the configuration of a Linux or Microsoft Windows server to host an Oracle database Enterprise Edition installation Especially in a Linux environment installation of the database requires careful preparation configuration and sometimes troubleshooting in order to succeed This course includes practical tips learned from many real world installations which can assist you to achieve a successful installation in your environment We will explore both a standalone database installation and also a grid infrastructure installation Major objectives covered within this guide book include Configuration of the Linux and Microsoft Windows operating systems in anticipation of a database installation Performing a Desktop Class installation of the Oracle 11g R2 Enterprise Edition database Performing a Server Class installation of the Oracle 11g R2 Enterprise Edition database Addressing configuration and setup issues using the FixUp utility Verification of a valid database installation Database administrator and technical support interface options including the use of Enterprise Manager command line SQL Plus and terminal console SSH Preparing a host system for the Grid Infrastructure and Oracle RDBMS installations and performing those installations Preparing a host system for ASM storage management Partitioning and configuration of storage devices

for ASM storage on both Linux and MS Windows servers While this course module applies specifically to the installation of the Enterprise Edition of the Oracle database it covers basic topics which apply to any Oracle software installation Therefore this material is also useful for the installation of other Oracle products such as the Oracle Database Client specialized options for a database server installation and so on **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 **Expert Oracle Enterprise Manager 12c** Kellyn Pot'Vin,Niall Litchfield,Alex Gorbachev,Anand Akela,Pete Sharman,Gokhan Atil,Leighton Nelson,Bobby Curtis,2013-08-13 Enterprise Manager 12c EM12c Oracle s newest and fully integrated enterprise management product now provides a complete cloud lifecycle management solution and enterprise environment management interface Expert Oracle Enterprise Manager 12c opens up the secrets of this incredible management tool saving you time while enhancing your visibility as someone management can rely upon to deliver reliable database service in today s increasingly chaotic and change driven IT environment Expert Oracle Enterprise Manager 12c covers all the topics you demand and need to function effectively from basic monitoring and configuration to advanced metric extensions and plugins Real life scenarios and demonstrations place you in the comfort zone of using the EM12c console and the experienced author team provides deep understanding of the inner workings of this new Enterprise Manager Database administrators and system administrators are expected to offer increasing levels of service for 24X7 systems and newer cloud environments Em12c offers robust end to end intelligent management of the complete environment It includes direct real time integration with Oracle s online knowledgebase Expert Oracle Enterprise Manager 12c helps you master this important tool and manage any challenge that comes your way Provides example solutions to everyday problems through EM12c features Explains the changes in EM12c included trusted extensions Focuses on advanced aspects of the EM12c interface

Oca Oracle Database 11g Database Administration I Steve Ries,2013-02-22 Developed as a practical book Oracle Database 11g Administration I Certification Guide will show you all you need to know to effectively excel at being an Oracle DBA for both examinations and the real world This book is for anyone who needs the essential skills to become an Oracle DBA pass the Oracle Database Administration I exam and use those skills in the real world to manage secure high performance and highly available Oracle databases **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 Automatic Storage Management: Under-the-Hood & Practical Deployment Guide** Nitin Vengurlekar,Murali Vallath,Rich Long,2007-11-26 Build and manage a scalable storage infrastructure with Oracle Automatic Storage Management Streamline data management and provisioning using Oracle Automatic Storage Management Oracle ASM and the detailed information contained in this exclusive Oracle Press resource Written by a team of database experts Oracle Automatic Storage Management Under the Hood Practical Deployment Guide explains how to build and maintain a dynamic highly available Oracle database storage environment Inside you ll learn how to configure storage for Oracle ASM build disk groups use data striping and mirroring and optimize performance You ll also learn how to ensure consistency across server and storage platforms maximize data redundancy and administer Oracle ASM from the command line Manage Oracle ASM Instances and configure Oracle RDBMS instances to leverage Oracle ASM Define discover and manage disk storage under Oracle ASM Create external normal redundancy and high redundancy disk groups Add and remove Oracle ASM storage without affecting RDMS instance availability Learn how Oracle ASM provides even I O distribution Work with Oracle ASM directories files templates and aliases Improve storage performance and integrity using the ASMLIB API Simplify system administration with the Oracle ASM command line interface Understand key internal Oracle ASM structures and algorithms *IBM Storage Networking c-type FICON Implementation Guide* William White,Aubrey Applewhaite,Mike Blair,Gary Fisher,Gavin O'Reilly,Lyle

Ramsey,Fausto Vaninetti,IBM Redbooks,2022-01-11 The next generation IBM c type Directors and switches for IBM Storage Networking provides high speed Fibre Channel FC and IBM Fibre Connection IBM FICON connectivity from the IBM Z platform to the storage area network SAN core It enables enterprises to rapidly deploy high density virtualized servers with the dual benefit of higher bandwidth and consolidation This IBM Redpaper Redbooks publication helps administrators understand how to implement or migrate to an IBM c type SAN environment It provides an overview of the key hardware and software products and it explains how to install configure monitor tune and troubleshoot your SAN environment *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 *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 SOA Governance 11g Implementation** Luis Augusto Weir,Andrew Bell,2013-09-18 The book uses a concise and practical approach to take you through all the steps necessary to create run and analyze your own Network Simulations This book is ideal for anyone wishing to quickly get to grips with Network Simulation whether you re an expert in networks or just a beginner It is perfect for all network engineers and administrators who wish to emulate networks using OMNet as a preparation for building the actual network *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 **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 pulliUnderstand Oracle EBS software and the underlying technology stack componentsbr liliInstall configure Oracle E Business Suite R12 2 in simple and HA complex setupsbr liliManage Oracle EBS 12 2br liliUse online patching adop for Installation of Oracle EBS patchesbr liliClone an EBS environment in simple and complex configurationsbr liliPerform and tune Oracle EBS in all layers Application DB OS NW br liliSecure E Business Suite R12 2br li ul divbrbWho 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 　　　　　　　　 , 　　　　 , 　　　　 　　 , 　　　　 　　　 , 　　　 　　 ,

⬜,2017-03-10 DB DB 100 6 DB 100 DB 11g SPM SQL PLAN Management Oracle 8 9i DBA Oracle 11g DB *OCP Oracle Database 11g Administration II Exam Guide* Bob Bryla,2008-08-31 A Fully Integrated Study System for OCP Exam 1Z0 053 Prepare for the Oracle Certified Professional Oracle Database 11g Administration II 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 OCP objectives for exam 1Z0 053 including Database structure and Oracle Automatic Storage Management Configuring database recoverability Oracle Recovery Manager RMAN Oracle Flashback Memory management techniques Database tuning advisors Disk space and resource management Configuring database diagnostics Administering the Oracle Scheduler Database globalization On the CD ROM One full practice exam that simulates the actual OCP exam Detailed answers and explanations Score report performance assessment tool Complete electronic book Bonus exam available free with online registration *Oracle Enterprise Manager Grid Control 11g R1* Ashwin Kumar Karkala,Govinda Raj Sambamurthy,2011-05-18 A Hands on guide to modeling and managing business services using Oracle Enterprise Manager 11g R1 using this book and eBook **Oracle E-Business Suite: the little r12.2.7 upgrade essentials for managers and team members** Mike Swing,2018-05-02 Putting together the right team to tackle the Oracle E Business Suite R12 2 7 upgrade and understanding the issues that the team needs to consider to be successful can be quite a challenge the little r12 2 7 upgrade essentials for managers and team members describes the big picture of what you need to consider before tackling the Release 12 2 7 upgrade Based on TruTek s popular R11i to R12 Technical Upgrade training classes this book describes what managers functional and technical team members need to know to prepare to upgrade from Release 11i to Release 12 2 7 of Oracle s E Business Suite of Applications Enhanced topics with this edition include Online Patching the ADOP Patching Cycle Materialized Views Customizations Development Standards for Edition Based Redefinition How Cross Edition Triggers Work and Understanding the Release 12 2 Architecture

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