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APPLICATION CLUSTERS*

Syed Jaffar Hussain, Tariq Farooq, Riyaj Shamsudeen, and Kai Yu

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Expert Oracle RAC 12c Riyaj Shamsudeen, Syed Jaffar Hussain, Kai Yu, Tariq Farooq, 2013-09-16 Expert Oracle RAC 12c is a hands on book helping you understand and implement Oracle Real Application Clusters RAC and to reduce the total cost of ownership TCO of a RAC database As a seasoned professional you are probably aware of the importance of understanding the technical details behind the RAC stack This book provides deep understanding of RAC concepts and implementation details that you can apply toward your day to day operational practices You ll be guided in troubleshooting and avoiding trouble in your installation Successful RAC operation hinges upon a fast performing network interconnect and this book dedicates a chapter solely to that very important and easily overlooked topic All four authors are experienced RAC engineers with a wealth of hard won experience encountering and surmounting the challenges of running a RAC environment that delivers on its promise In Expert Oracle RAC 12c they provide you a framework in which to avoid repeating their hard won lessons Their goal is for you to manage your own RAC environment with ease and expertise Provides a deep conceptual understanding of RAC Provides best practices to implement RAC properly and match application workload Enables readers to troubleshoot RAC with ease

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

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

Expert Oracle Exadata Martin Bach,Kristofferson Arao,Andy Colvin,Frits Hoogland,Kerry Osborne,Randy Johnson,Tanel Poder,2015-08-29 Expert Oracle Exadata 2nd Edition opens up the internals of Oracle s Exadata platform so that you can fully benefit from the most performant and scalable database hardware appliance capable of running Oracle Database This edition is fully updated to cover Exadata 5 2 and Oracle Database 12c If you re new to Exadata you ll soon learn that it embodies a change in how you think about and manage relational databases A key part of that change lies in the concept of offloading SQL processing to the storage layer In addition there is Oracle s engineering effort in creating a powerful platform for both consolidation and transaction processing The resulting value proposition in the form of Exadata has truly been a game changer Expert Oracle Exadata 2nd Edition provides a look at the internals and how the combination of hardware and software that comprise Exadata actually work Authors include Martin Bach Andy Colvin and Frits Hoogland with contributions from Karl Arao and built on the foundation laid by Kerry Osborne Randy Johnson and Tanel Poder in the first edition They share their real world experience gained through a great many Exadata implementations possibly more than any other group of experts today Always their goal is toward helping you advance your career through success with Exadata in your own environment This book is intended for readers who want to understand what makes the platform tick and for whom how it does what it is does is as important as what it does By being exposed to the features that are unique to Exadata you will gain an understanding of the mechanics that will allow you to fully benefit from the advantages that the platform provides This book changes how you think about managing SQL performance and processing It provides a roadmap to successful Exadata implementation And it removes the black box mystique You ll learn how Exadata actually works and be better able to manage your Exadata engineered systems in support of your business This book Changes the way you think about managing SQL performance and processing Provides a roadmap to successful Exadata implementation Removes the black box mystique showing how Exadata actually works

Expert Oracle Database Architecture Thomas Kyte,Darl Kuhn,2014-11-10 Now in its third edition this best selling book continues to bring you some of the best thinking on how to

apply Oracle Database to produce scalable applications that perform well and deliver correct results Tom Kyte and Darl Kuhn share a simple philosophy you can treat Oracle as a black box and just stick data into it or you can understand how it works and exploit it as a powerful computing environment If you choose the latter then you ll find that there are few information management problems that you cannot solve quickly and elegantly This fully revised third edition covers the developments up to Oracle Database 12c Significant new content is included surrounding Oracle s new cloud feature set and especially the use of pluggable databases Each feature is taught in a proof by example manner not only discussing what it is but also how it works how to implement software using it and the common pitfalls associated with it Don t treat Oracle Database as a black box Get this book Get under the hood Turbo charge your career Revised to cover Oracle Database 12c Proof by example approach Let the evidence be your guide Dives deeply into Oracle Database s most powerful features **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 Enterprise Manager 12c Command-Line Interface** Kellyn Pot'Vin, Seth Miller, Ray

Smith, 2014-11-03 Oracle Enterprise Manager 12c Command Line Interface shows how to use Enterprise Manager s powerful scripting language to automate your database administration work and save time by scripting routine tasks and then executing those scripts across collections of databases and instances in your environment This book is chock full of ready made scripting examples contributed by the authors and leading members of the community For example you ll find scripts and examples of commands to Remove an Enterprise Manager agent and its related targets Quickly create administrator

accounts that are fully configured with pre expired passwords and all needed roles Invoke batch files to execute sequences of related commands with consistency against multiple targets Batch create large groups of user logins with a single command and more The Enterprise Manager Command Line Interface EM CLI is the administrator s key to unlocking the power of Enterprise Manager 12c EM12c with scalability repeatability and confidence In previous versions most administrators ventured into the command line interface only with the assistance of Oracle Support But now there are many features in EM12c that are accessible only from the command line This is far from a disadvantage Enterprise Manager is now a powerful tool for automation in the hands of a skilled database administrator Enterprise Manager scripting offers potential for all administrators who manage Oracle s enterprise level products in their environment You can automate from the smallest single instance configuration all the way up to a broadly distributed enterprise level rollout having database instances strewn across broad geographical distributions The power of the EM CLI returns the administrator to the golden age where the entire environment from database to application to infrastructure can often be managed from this powerful command line tool secured by the robust Enterprise Manager framework Brings a golden age of automation to Oracle Database administrators Provides ready made scripts contributed by leading members of the community Covers advanced techniques involving Jython and Python

Expert Oracle Database Architecture Thomas Kyte,2006-11-07 This is a defining book on the Oracle database for any developer or database administrator who works with Oracle driven database applications Tom Kyte has a simple philosophy you can treat Oracle as a black box and just stick data into it or you can understand how it works and exploit it as a powerful computing environment If you choose the latter then you will find that there are few information management problems that you cannot solve quickly and elegantly Expert Oracle Database Architecture is the first of a three book series that completely explores and defines the Oracle database It covers all of the most important Oracle architecture features including Files memory structures and processes Locking and latching Transactions concurrency and multi versioning Tables and Indexes Datatypes Partitioning and parallelism Each feature is taught in a proof by example manner not only discussing what it is but also how it works how to implement software using it and the common pitfalls associated with it This fully revised edition covers both the 9i and 10g versions It also comes with a CD containing a searchable PDF of the 8i version of the book Tom has fully revised and expanded the architecture related sections from Expert One on One Oracle a searchable PDF of which is included on the CD accompanying this book and added substantial new material He focuses solely on 9i and 10g architecture in this book and refers to the CD for 8i specific details The number of changes will surprise you In summary this book provides a one stop resource containing deep wisdom on the design development and administration of Oracle applications written by one of the world s foremost Oracle experts Thomas Kyte

Building Database Clouds in Oracle 12c Tariq Farooq,Sridhar Avantsa,Pete Sharman,2016-06-06 An Expert Guide to Building Oracle Database Cloud Infrastructures This is the first complete practical guide to architecting designing and

building Database Clouds with Oracle 12c Written by a veteran author team of Oracle gurus and ACE Directors Building Database Clouds in Oracle 12c combines a real world hands on operations guide with an expert handbook on Oracle Database As A Service DBaaS and Oracle Real Application Clusters RAC Writing for Oracle DBAs DMAs cloud administrators and other Oracle professionals the authors present authoritative technical information for database cloud build out management monitoring and day to day administration The authors first explain the key concepts underlying DBaaS describe cloud computing implementations related to it and outline the business and technology benefits Next they show how the Oracle DBA s approach changes in cloud environments Then building on this foundation they offer insider advice on all key facets of database cloud deployment and operation with Oracle Enterprise Manager 12c and Oracle RAC 12c This guide helps you Make the business case for cloud computing with DBaaS Organize DBA responsibilities in cloud environments Plan design and deploy Database Clouds with Oracle s latest components Consolidate schema and databases with Oracle Enterprise Manager 12c Use best practices for management administration metering and chargeback Clone databases quickly and reliably Set up grid infrastructure on Oracle VM for x86 or Oracle VM VirtualBox Expert Oracle Thomas Kyte,2005 Pro Oracle Database 12c RAC on Linux Murali Vallath,Martin Bach,Julian Dyke,Steve Shaw,2015-11-01 Pro Oracle Database 12c RAC on Linux provides full life cycle guidance toward managing and optimizing 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 Pro Oracle Database 12c RAC on Linux gives a rock solid and technically flawless foundation on which to build your RAC management skills The authors dissect the principles behind clustering and the Oracle RAC architecture providing you the deep understanding needed for success in a RAC environment Learn to manage the grid infrastructure including the clusterware and ASM storage and of course the RAC instances themselves Learn to troubleshoot performance and other problems You ll even learn 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 All the authors on this book are seasoned experts They offer in this book 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 administration and optimization Up to date with the very latest RAC features Expert Oracle Database Architecture: 9i & 10g Programming Techniques & Solutions Thomas Kyte,2006-03-27 This is a defining book on the Oracle database for any developer or DBA who works with Oracle driven database applications Tom has a simple philosophy you can treat Oracle as a black box and just stick data into it or you can understand how it works and exploit it as a powerful computing

environment If you choose the latter then you will find that there are few information management problems that you cannot solve quickly and elegantly In summary this book provides a one stop resource containing deep wisdom on the design development and administration of Oracle applications written by one of the world s foremost Oracle experts Thomas Kyte

Pro Oracle Database 10g RAC on Linux John Shaw, Julian Dyke, 2008-01-03 Real Application Clusters RAC and the Grid architecture are Oracle s strategy for scaling out enterprise systems to cope with bigger workloads and more users Many books limit themselves by conceptualizing and theorizing about RAC technology but this book is the first to portray implementing and administering an Oracle 10g RAC system in a Linux environment This book features basic concepts underlying Linux and Oracle RAC design strategies hardware procurement and configuration and many other topics The RAC specific technologies described include configuration of the interconnect OCFS ASM Cluster Ready Services and Grid Control The Oracle features RMAN and Data Guard are also discussed along with available hardware options The authors include practical examples and configuration information so that upon reading this book you ll be armed with the information you need to build an Oracle RAC database on Linux whether it is on a single laptop or a 64 node Itanium cluster *The Expert's Voice in Oracle* ,200? **Oracle Database Upgrade and Migration Methods** Y V Ravikumar, K M Krishnakumar, Nassyam Basha, 2017-03-01 Learn all of the available upgrade and migration methods in detail to move to Oracle Database version 12c You will become familiar with database upgrade best practices to complete the upgrade in an effective manner and understand the Oracle Database 12c patching process So it s time to upgrade Oracle Database to version 12c and you need to choose the appropriate method while considering issues such as downtime This book explains all of the available upgrade and migration methods so you can choose the one that suits your environment You will be aware of the practical issues and proactive measures to take to upgrade successfully and reduce unexpected issues With every release of Oracle Database there are new features and fixes to bugs identified in previous versions As each release becomes obsolete existing databases need to be upgraded Oracle Database Upgrade and Migration Methods explains each method along with its strategy requirements steps and known issues that have been seen so far This book also compares the methods to help you choose the proper method according to your constraints Also included in this book Pre requisite patches and pre upgrade steps Patching to perform changes at the binary and database level to apply bug fixes What You Will Learn Understand the need and importance of database upgrading and migration Be aware of the challenges associated with database upgrade decision making Compare all upgrade migration methods Become familiar with database upgrade best practices and recommendations Understand database upgrade concepts in high availability and multi tenant environments Know the database downgrade steps in case the upgraded database isn t compatible with the environment Discover the features and benefits to the organization when it moves from the old database version to the latest database version Understand Oracle 12c patching concepts Who This Book Is For Core database administrators solution architects business consultants and

database architects Expert Oracle Database Architecture Thomas Kyte, 2010-11-03 Now in its second edition this best selling book by Tom Kyte of Ask Tom fame continues to bring you some of the best thinking on how to apply Oracle Database to produce scalable applications that perform well and deliver correct results Tom has a simple philosophy you can treat Oracle as a black box and just stick data into it or you can understand how it works and exploit it as a powerful computing environment If you choose the latter then you ll find that there are few information management problems that you cannot solve quickly and elegantly This fully revised second edition covers the developments up to Oracle Database 11g Each feature is taught in a proof by example manner not only discussing what it is but also how it works how to implement software using it and the common pitfalls associated with it Don t treat Oracle Database as a black box Get this book Get under the hood Turbo charge your career Fully revised to cover Oracle Database 11g Proof by example approach Let the evidence be your guide Dives deeply into Oracle Database s most powerful features *Oracle Database 12c: RAC and Grid Infrastructure Administration Exam Practice Questions & Dumps* Pascal Books, The Oracle Certified Expert Oracle Database 12c RAC and Grid Infrastructure Administrator certification is for Database production Systems Administrators and Database Administrators who have 12 18 months experience using RAC and Grid Infrastructure Knowledge of high availability concepts and clustering is also recommended Earning this certification gives you the skills to install maintain monitor tune and recover RAC databases Clusterware and ASM environments Preparing for the required exam gives you thorough knowledge of Clusterware ASM and Oracle RAC Database architectures Preparing for the Oracle Database 12c RAC and Grid Infrastructure Administration Study Guide by Oracle Here we ve brought perfect exam questions for you so that you can prepare well for this Exam number 1Z0 068 Unlike other online simulation practice tests you get an eBook version that is easy to read remember these questions You can simply rely on these questions for successfully certifying this exam

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 Database 12c New Features Robert G. Freeman, 2013-12-13 Maximize the New and Improved Features of Oracle Database 12c Written by Master Principle Database Expert Oracle and Oracle ACE Robert G Freeman this Oracle Press guide describes the myriad new and enhanced capabilities available in the latest Oracle Database release Inside you ll find everything you need to know to get up and running quickly on Oracle Database 12c Supported by running commentary from world renowned Oracle expert Tom Kyte and with additional contributions by Oracle experts Eric Yen and Scott Black Oracle Database 12c New Features offers detailed coverage of Installing Oracle Database 12c Architectural changes such as Oracle Multitenant The most current information on upgrading and migrating to Oracle Database 12c The pre upgrade information tool and parallel processing for database upgrades Oracle Real Application Clusters new features such as Oracle Flex Cluster Oracle Flex Automatic Storage Management and Oracle Automatic Storage Management Cluster File System Oracle RMAN enhancements including cross platform backup and recovery Oracle Data Guard improvements such as Fast Sync and Oracle Active Data Guard new features such as Far Sync SQL PL SQL DML and DDL new features Improvements to partitioning manageability performance and availability Advanced business intelligence and data warehousing capabilities Security enhancements including privileges analysis data redaction and new administrative level privileges Manageability performance and optimization improvements

Pro Oracle Database 11g RAC on Linux Julian Dyke, Steve Shaw, Martin Bach, 2010-09-30 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

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