

Oracle Rac Grid Tuning With Solid State Disk Expert Secrets For High Performance Clustered Grid Computing Oracle In Focus Series Volume 17

"Offers hundreds of hints, tips, and tricks of the trade that can be useful to any DBA wanting to achieve maximum performance of Oracle applications. No Oracle library would be complete without this book." --Ken (Dr. DBA) Jacobs, Vice President of Product Strategy for Server Technologies, Oracle Corporation "Rich is the first and last stop for Oracle Database technology and performance tuning. His knowledge is a vital tool that you need to successfully negotiate the waters of Oracle database development." --Mike Frey, Principal Architect, Navteq InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

Congratulations! on the successful completion of the Oracle DBA 11g Certified Master practicum. You are now a member of an elite group of Oracle professionals. Every Oracle DBA dreams to get this message from Oracle and one day become an Oracle Certified Master. But when it comes to the preparation, it seems to be hard as there is no book available in the market for OCM 11g exam. It took me 2 years to prepare this book. For every single topic of the exam I made a deep research of Oracle documentation, metalink notes, blog posts and books and prepared practical guidance that will help you to be prepared for the OCM tasks. This Study Guide contains the following information: In the beginning of each topic, a reference from Oracle documentation and metalink notes is provided to get more information on a specific subject. Each topic is explained in a practical examples using both graphic user and command line interfaces. At the end of each topic a reader is assigned to solve different pre-created tasks in a specified time limit. The book consists of 9 chapters and more than 200] practical OCM scenarios. Server Configuration chapter provides a detailed step-by-step guide on Oracle 11g Database Software setup and new database creation through GUI and silent mode likewise. Enterprise Manager Grid Control chapter starts by illustrating a detailed step by step installation of OEM Grid Control starting from the download methods of all OEM components till successful installation. In this chapter you will also see how to create Programs, automate Jobs, create Schedulers, Alerts and Notifications. Managing Database Availability chapter provides steps to create and manage the recovery catalog. A number of ways also introduced to create a backup of a database and detailed step by step explanation of database recovery from different failure cases through RMAN is provided. Data Management chapter provides detailed information about types of materialized view and materialized view log and how Oracle uses precomputed materialized view instead of querying a table with different aggregate functions and provides a quick result. Data Warehouse Management chapter provides information about main data warehouse topics such as partitioning and managing large objects. Next, we talk about large objects and show how to use various SecureFile LOB features such as compression, deduplication, encryption, caching and logging. Performance Tuning chapter provides a detailed information on SQL Tuning tools such as SQL Tuning Advisor, SQL Access Advisor and SQL Performance Advisor. Beside the tuning tools, it provides information about resource manager, result cache, multi-column statistics and implementing instance caging. Grid Infrastructure and ASM chapter covers more than enough material to get you started with step by step installation of Oracle Grid Infrastructure. This chapter also sheds light on general Oracle ASM technology and provides information on how to create ASM diskgroups, how to configure failure groups and how to practice disk crashes in ASM environment. Next, we introduce ACFS file system and provide steps to create and manage it. Real Application Clusters chapter explores steps to successfully create a RAC database on two nodes. With only few additional steps, you will successfully create a RAC database. Then you see the way how to create and configure ASM with command line interface. Once ASM is configured, silent RAC database creation steps are provided. Data Guard chapter starts by creating a data guard using command line interface, OEM and data guard broker. It also provides steps on performing switchover and failover using all mentioned tools.

Oracle 10g RAC Grid, Services and ClusteringElsevier

Provides informaton on enterprise grid computing in the Oracle environment.

"Geoff Ingram has met the challenge of presenting the complexprocess of managing Oracle performance. This book can support everytechnical person looking to resolve Oracle8i and Oracle9iperformance issues." -Aki Ratner, President, Precise Software Solutions Ensuring high-performance and continuous availability of Oraclesoftware is a key focus of database managers. At least a dozenbooks address the subject of "performance tuning"-- that is, how tofine-tune the Oracle database for its greatest processingefficiency. Geoff Ingram argues that this approach simply isn'tenough. He believes that performance needs to be addressed rightfrom the design stage, and it needs to cover the entire system--notjust the database. High-Performance Oracle is a hands-on book, loaded with tips andtechniques for ensuring that the entire Oracle database system runsefficiently and doesn't break down. Written for Oracle developersand DBAs, and covering both Oracle8i and Oracle9i, the book goesbeyond traditional performance-tuning books and covers the keytechniques for ensuring 24/7 performance and availability of thecomplete Oracle system. The book provides practical solutions for: * Choosing physical layout for ease of administration and efficientuse of space * Managing indexes, including detecting unused indexes andautomating rebuilds * SQL and system tuning using the powerful new features in Oracle9iRelease 2 * Improving SQL performance without modifying code * Running Oracle Real Application Clusters (RAC) for performanceand availability * Protecting data using Recover Manager (RMAN), and physical andlogical standby databases The companion Web site provides the complete source code forexamples in the book, updates on techniques, and additionaldocumentation for optimizing your Oracle system.

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

Grid architecture is Oracle's strategy for high-end computing and RAC is the stepping stone into this arena. This book focuses on current technology including all valid RAC features up through Oracle Database 10g Release 2, with a primary focus on deploying it in a high-end grid environment. The book discusses this technology at length which users will find beneficial when researching, implementing or monitoring a RAC environment. The author covers workshop implementation of services and the distribution of workload across instances, with threshold definitions and the new load balancing algorithms. In addition it includes detailed discussions on ASM that complements the implementation of RAC in Oracle Grid strategy. The book also includes discussions on new Oracle Clusterware, its components and its integration with RAC. Oracle 10g RAC focuses on RAC-specific topics including ASM, operating system configuration, installation and configuration of RAC and much more. Coverage includes network configuration for high availability, FAN, TAF, ONS, implementation of maximum availability architecture (MAA), EM Grid Control, AWR, ADDM and other performance-related tools. The author includes several scripts for performance

tuning and implementation that the reader can use to configure a RAC environment either on a 2, 4, 8, 60 or 99 node configuration. Focuses on implementing, testing and tuning features of Real Application Clusters (RAC) database version 10g Release 2 Provides extensive coverage of usage, day-to-day functions and operations Includes tips and techniques such as script samples to illustrate various features of RAC A jumpstart into all the key features of 10g R2 RAC

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

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

A thorough overview of the the features and product enhancements of Oracle Database 10G provides a close-up look at server manageability, performance tuning, security, availability, application development, business intelligence improvements, and other important topics. Original. (Intermediate)

Oracle is an enormous system, with myriad technologies, options, and releases. Most users--even experienced developers and database administrators--find it difficult to get a handle on the full scope of the Oracle database. And, as each new Oracle version is released, users find themselves under increasing pressure to learn about a whole range of new technologies. The latest challenge is Oracle Database 11g. This book distills an enormous amount of information about Oracle into a compact, easy-to-read volume filled with focused text, illustrations, and helpful hints. It contains chapters on: Oracle products, options, data structures, and overall architecture for Oracle Database 11g, as well as earlier releases (Oracle Database 10g, Oracle9i, and Oracle8i) Installing, running, managing, monitoring, networking, and tuning Oracle, including Enterprise Manager (EM) and Oracle's self-tuning and management capabilities; and using Oracle security, auditing, and compliance (a new chapter in this edition) Multiuser concurrency, data warehouses, distributed databases, online transaction processing (OLTP), high availability, and hardware architectures (e.g., SMP, clusters, NUMA, and grid computing) Features beyond the Oracle database: Oracle Application Express, Fusion Middleware (including Oracle Application Server), and database SOA support as a Web services provider The latest Oracle Database 11g features: query result set caching, Automatic Memory Management, the Real Application Testing, Advanced Compression, Total Recall, and Active Data Guard Option Options, changes to the OLAP Option (transparently accessed and managed as materialized views), the Flashback transaction command, transparent data encryption, the Support Workbench (and diagnosability infrastructure), and partitioning enhancements (including interval and new composite types) For new Oracle users, DBAs, developers, and managers, Oracle Essentials provides an invaluable, all-in-one introduction to the full range of Oracle features and technologies, including the just-released Oracle Database 11g features. But even if you already have a library full of Oracle documentation, you'll find that this compact book is the one you turn to, again and again, as your one-stop, truly essential reference. "Oracle Essentials gives a clear explanation of the key database concepts and architecture underlying the Oracle database. It's a great reference for anyone doing development or management of Oracle databases." --Andrew Mendelsohn, Senior Vice President, Database Server Technologies, Oracle Corporation

Get a Solid Foundation in Oracle Database Technology Master Oracle Database 11g fundamentals quickly and easily. Using self-paced tutorials, this book covers core database essentials, the role of the administrator, high availability, and large database features. Oracle Database 11g: A Beginner's Guide walks you, step by step, through database setup, administration, programming, backup, and recovery. In-depth introductions to SQL and PL/SQL are included. Designed for easy learning, this exclusive Oracle Press guide offers: Core Concepts--Oracle Database 11g topics presented in logically organized chapters Critical Skills--Lists of specific skills covered in each chapter Projects--Practical exercises that show how to apply the critical skills learned in each chapter Progress Checks--Quick self-assessment sections to check your progress Notes--Extra information related to the topic being covered Mastery Checks--Chapter-ending quizzes to test your knowledge

Sam Alapati's Expert Oracle Database 11g Administration is a comprehensive handbook for Oracle database administrators (DBAs) using the 11g release of the Oracle Database. All key aspects of database administration are covered, including backup and recovery, day-to-day administration and monitoring, performance tuning, and more. This is the one book to have on your desk as a continual reference. Refer to it frequently. It'll help you get the job done. Comprehensive handbook for Oracle Database administrators. Covers all major aspects of database administration. Tests and explains in detail key DBA commands. Offers primers on Linux/Unix, data modeling, SQL, and PL/SQL. A Complete Study System for OCA Exam 1Z0-062 Prepare for the Oracle Certified Associate Oracle Database 12c Installation and Administration exam with this exclusive Oracle Press guide. Each chapter features challenging exercises, a certification summary, a two-minute drill, and a self-test to reinforce the topics presented. This authoritative resource helps you pass the exam and also serves as an essential, on-the-job reference. Get complete coverage of all OCA objectives for exam 1Z0-062, including: Installing and upgrading Oracle Database software Managing the database instance Configuring the Oracle network environment Managing database storage structures Administering user security Managing undo data and data concurrency Implementing Oracle Database auditing Performing database maintenance Managing performance and tuning SQL Managing resources using Oracle Database Resource Manager Automating tasks Moving data Performing backup and recovery Installing Oracle Grid Infrastructure for a standalone server Electronic content includes: 185+ practice exam questions with detailed answers and explanations Test engine that provides custom exams by chapter or by domain 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

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

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

A high-level handbook on how to develop auditing mechanisms for HIPAA compliant Oracle systems focuses on the security access and auditing requirements of the Health/Insurance Portability and Accountability Act of 1996 and discusses Oracle auditing features such as redo logs, system-level triggers, Oracle9i and the retrieval of sensitive data, and other key topics. Original. (Advanced)

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.

For Oracle tuning professionals wishing to add more tools to their Oracle tuning toolbox, this guidebook introduces the various tuning analytical tools and helpful strategies to make the database easier to use. Details describe how to extract information from the database and use it to determine and increase efficiency. It also provides specific steps with detailed information on how to congeal large amounts of database performance information into one pool from which the DBA can carefully choose tuning options based on what is predicted, all to give them the biggest improvement in performance for the least time and money investment. Sample code, sample code results, and guidelines on how to interpret the results help users manipulate code in an effective way. With countless hints, tips, and tools, the guide fully explains how to work with the Oracle system on order to achieve database performance excellence.

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

This guide to leveraging RAM-SAN technology shows Oracle DBAs how to create fast Oracle9i RAC databases. Techniques for leveraging RAM disk in an Oracle RAC and Grid environment are demonstrated including changes to initialization parameters and the selective use of SSD in large database environments (UNDO, REDO, and TEMP tablespaces on solid-state disk).

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 & 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 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.

The Definitive Guide to Oracle Database 11g Get full details on the powerful features of Oracle Database 11g from this thoroughly updated Oracle Press guide. Oracle Database 11g: The Complete Reference explains how to use all the new features and tools, execute powerful SQL queries, construct PL/SQL and SQL*Plus statements, and work with large objects and object-relational databases. Learn how to implement the latest security measures, tune database performance, and deploy grid computing techniques. An invaluable cross-referenced appendix containing Oracle commands, keywords, features, and functions is also included. Install Oracle Database 11g or upgrade from an earlier version Create database tables, sequences, indexes, views, and user accounts Construct SQL statements, procedures, queries, and subqueries Optimize security using virtual private databases and transparent data encryption Import and export data using SQL*Loader and Oracle Data Pump Use SQL replay, change management, and result caching Avoid human errors using flashback and automatic undo management Build and tune PL/SQL triggers, functions, and packages Develop database applications using Java, JDBC, and XML Optimize availability and scalability with Oracle Real Application Clusters

*One-stop reference for administration and management of Oracle 10g Database *9i predecessor was a best seller; this edition covers all new features, with fully field-tested examples—not just "showcase" examples *Contains essential primers on Unix, Linux and Windows NT management and on SQL and PL/SQL programming; ideal for new/aspiring DBAs

This Oracle Press guide shows how to implement a cloud-based management system and maintain on-demand access to critical services with Oracle Enterprise Manager Cloud Control 12c.

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.

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

* Only book on the market to actually show you how to build an Oracle RAC cluster on Linux. * Author expertise & quality: Steve Shaw's Hammerora project is one of the most visited sites in SourceForge.net. Julian Dyke is Chair of UK Oracle User Group RAC SIG and a member of the Oak Table Network. * Based on latest Oracle release (10g R2) which we anticipate being the release where the largest number of customers migrate from existing single instance databases to RAC clusters. * Linux is highest growth sector in relational database market and Oracle has 69% of that market (Gartner).

An enormous system comprising myriad technologies, options, and releases, Oracle's complexities have spawned numerous areas of specialization. For each area of specialization there are equally specialized how-to books and manuals. O'Reilly's Oracle Essentials claims a unique place among these books. Rather than focusing on one area, the book explains the foundational concepts of the Oracle technology and the core technical and business aspects of using it. The new edition of this classic book, Oracle Essentials, 3rd Edition: Oracle Database 10g, distills a vast amount of knowledge into an easy-to-read volume covering every aspect of the Oracle database. Readers of all levels will learn about Oracle's features and technologies, including the product line, architecture, data structures, networking, concurrency, tuning, and much more. Featuring focused text, abundant illustrations, and helpful hints, the new edition offers a valuable overview of Oracle's Database 10g--the industry's first database to support grid computing. Recent releases such as Oracle 9i and 8i are also covered. The book contains chapters on: Oracle products, options, and overall architecture for Oracle 10g and prior recent releases Installing and running Oracle: how to configure, start up, and shut down the database, and various networking issues Oracle data structures, datatypes, and ways of extending datatypes, with an introduction to Oracle objects (e.g., tables, views, indexes) Managing Oracle: security, the Oracle Enterprise Manager, fragmentation and reorganization, and backup and recovery Oracle performance: characteristics of disk, memory, and CPU tuning Multi-user concurrency, online transaction processing (OLTP), and high availability Hardware architectures (e.g., SMP, MPP, NUMA) and their impact

on Oracle Data warehousing and distributed databases Network deployment: using Oracle as an Internet computing platform and for grid computing What's new in Oracle 10g: a summary of the database changes described in the book Oracle Essentials, 3rd Edition: Oracle Database 10g was written for anyone whose job involves managing or building systems using Oracle DBMS technology or working with staff that uses Oracle technology. This book is the perfect all-in-one source for understanding the complexities and capabilities of Oracle. This book addresses the web services arena with a specific agenda of providing information right from covering the fundamental aspects to its deployment and implementation issues. The content is introductory in nature, and covers not only the technology aspects, but also highlights the application scenarios across the industry. In order to illustrate the potential of web services, a case study exemplifying the Financial and Banking Services industry has been chosen for presentation the book.

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

Master Oracle Enterprise Manager Cloud Control 12c Achieve peak database efficiency and derive unprecedented value from your corporate assets by implementing an end-to-end cloud computing solution. Oracle Enterprise Manager Cloud Control 12c Deep Dive thoroughly explains best practices for deployment, administration, and monitoring. Learn how to prepare and install Oracle Enterprise Manager Cloud Control 12c, use agents, apply system-wide patches, perform real-time diagnostics, and discover, monitor, and administer hosts, databases, and middleware. Security and select plug-ins are also fully covered in this Oracle Press guide. Install and configure Oracle Enterprise Manager Cloud Control 12c Deploy management agents in one of six available ways Handle security with Cloud Control administrators, roles, and credentials Track performance with SQL monitoring and Active Session History (ASH) analytics Dynamically provision middleware and enterprise applications Work with Oracle Exadata and Oracle Exalogic Elastic Cloud Force policy compliance and employ global change detection Manage and monitor hosts, virtual machines, and server pools

Install and Configure Grid Control to Manage Your Oracle Landscape Build a robust grid computing infrastructure with guidance from an Oracle expert who developed and taught the Grid Control Deep Dive class to Oracle Consulting. Featuring real-world examples and best practices, Oracle Enterprise Manager 10g Grid Control Implementation Guide explains how to reliably and cost-effectively deploy a dynamic Grid Control environment. Learn how to lay the preinstallation groundwork, configure targets for monitoring, create services, implement security, and fine-tune performance. You'll also get full coverage of backup and recovery strategies and high-availability techniques. Prepare infrastructure hosts for Grid Control rollout Install the Oracle management repository, service, and agents Select the Grid Control installation options that fit your needs Discover and manage host, database, and application server targets Set target metrics and policies according to best practices Optimize performance and availability of your Grid Control framework Secure the Grid Control framework to protect data transmitted between components A Fully Integrated Study System for OCP Exam 1Z0-050 Prepare for the Oracle Certified Professional Oracle Database 11g New Features for Administrators 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 1Z0-050, including: Installation and upgrades Partitioning and storage Intelligent infrastructure Diagnostics and fault management Performance Oracle Recovery Manager and Oracle Flashback Security Oracle SQL Performance Analyzer SQL plan management Automatic SQL tuning 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

A guide to the installation and configuration of Oracle9i RAC covers such topics as the design of RAC clusters, configuration of TAF, and monitoring and tuning RAC applications.

The most trusted name in performance tuning updates his bestselling guide for the challenges of Oracle Database 11"g" + 11"g"R2, leaving no stone unturned in his pursuit of optimal tuning.

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