

Achieving Extreme Performance with Oracle Exadata

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EXADATA

Best Practices for Deployments in Enterprise Datacenters

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Achieving Extreme Performance With Oracle Exadata Oracle Press

Geoff Ingram



Achieving Extreme Performance With Oracle Exadata Oracle Press:

Achieving Extreme Performance with Oracle Exadata Rick Greenwald, Robert Stackowiak, Maqsood Alam, Mans Bhuller, 2011-03-08 Maximize Oracle Exadata Capabilities Leverage all of the powerful features available in the Oracle Exadata Database Machine using the proven techniques inside this Oracle Press guide Written by Oracle experts Achieving Extreme Performance with Oracle Exadata shows you how to take full advantage of this complete optimized package of software servers and storage Best practices for enterprise deployments high availability administration backup and recovery data warehousing online transaction processing consolidation and migration are included in this authoritative resource Take advantage of the tightly integrated hardware and software in the Oracle Exadata Database Machine Work with Oracle Exadata software features including Smart Scans Oracle Exadata Hybrid Columnar Compression storage indexes Oracle Exadata Smart Flash Cache and I O Resource Manager Understand Oracle Exadata Database Machine balanced hardware architecture Architect administer and monitor Oracle Exadata Storage Servers Deploy data warehouses on the Oracle Exadata Database Machine Run online transaction processing OLTP workloads on the Oracle Exadata Database Machine Consolidate databases with and migrate databases to the Oracle Exadata Database Machine

Oracle Essentials Rick Greenwald, Robert Stackowiak, Associate Fellow Sustainable Development Programme Royal Institute of International Affairs Jonathan Stern, Jonathan Stern, 2013-09-06 Written by Oracle insiders this indispensable guide distills an enormous amount of information about the Oracle Database into one compact volume Ideal for novice and experienced DBAs developers managers and users Oracle Essentials walks you through technologies and features in Oracle s product line including its architecture data structures networking concurrency and tuning Complete with illustrations and helpful hints this fifth edition provides a valuable one stop overview of Oracle Database 12c including an introduction to Oracle and cloud computing Oracle Essentials provides the conceptual background you need to understand how Oracle truly works Topics include A complete overview of Oracle databases and data stores and Fusion Middleware products and features Core concepts and structures in Oracle s architecture including pluggable databases Oracle objects and the various datatypes Oracle supports System and database management including Oracle Enterprise Manager 12c Security options basic auditing capabilities and options for meeting compliance needs Performance characteristics of disk memory and CPU tuning Basic principles of multiuser concurrency Oracle s online transaction processing OLTP Data warehouses Big Data and Oracle s business intelligence tools Backup and recovery and high availability and failover solutions

Oracle Big Data Handbook Tom Plunkett, Brian Macdonald, Bruce Nelson, Mark Hornick, Helen Sun, Khader Mohiuddin, Debra Harding, Gokula Mishra, Robert Stackowiak, Keith Laker, David Segleau, 2013-10-06 Transform Big Data into Insight In this book some of Oracle s best engineers and architects explain how you can make use of big data They ll tell you how you can integrate your existing Oracle solutions with big data systems using each where appropriate and moving data between them as needed Doug Cutting

co creator of Apache Hadoop Cowritten by members of Oracle s big data team Oracle Big Data Handbook provides complete coverage of Oracle s comprehensive integrated set of products for acquiring organizing analyzing and leveraging unstructured data The book discusses the strategies and technologies essential for a successful big data implementation including Apache Hadoop Oracle Big Data Appliance Oracle Big Data Connectors Oracle NoSQL Database Oracle Endeca Oracle Advanced Analytics and Oracle s open source R offerings Best practices for migrating from legacy systems and integrating existing data warehousing and analytics solutions into an enterprise big data infrastructure are also included in this Oracle Press guide Understand the value of a comprehensive big data strategy Maximize the distributed processing power of the Apache Hadoop platform Discover the advantages of using Oracle Big Data Appliance as an engineered system for Hadoop and Oracle NoSQL Database Configure deploy and monitor Hadoop and Oracle NoSQL Database using Oracle Big Data Appliance Integrate your existing data warehousing and analytics infrastructure into a big data architecture Share data among Hadoop and relational databases using Oracle Big Data Connectors Understand how Oracle NoSQL Database integrates into the Oracle Big Data architecture Deliver faster time to value using in database analytics Analyze data with Oracle Advanced Analytics Oracle R Enterprise and Oracle Data Mining Oracle R Distribution ROracle and Oracle R Connector for Hadoop Analyze disparate data with Oracle Endeca Information Discovery Plan and implement a big data governance strategy and develop an architecture and roadmap

Remaining Relevant in Your Tech Career Robert Stackowiak,2018-08-10 Remain relevant in the face of constant change during your career in technology This book shows you how to proactively plan in anticipation of future changes Many people find technology careers enticing because of the number of job opportunities the high compensation or simply because of fascination with technology itself Once in those careers however there are many challenges to remaining relevant and at one s peak in the face of constantly shifting competitive and technology landscapes Incumbents face a constant stream of new skills to learn that are often already known by more recent graduates entering the market at lower compensation rates There also are time to market challenges and the need to keep up with the introduction of automation This book was written based on the author s experience gained over 40 years working with and in technology related fields and companies It provides practical guidance on remaining relevant as changes are expected to occur in technology at ever faster rates in coming decades What You ll Learn Know what companies really want Realize the importance of alignment with company culture Understand the political landscape and how to use it to advantage Discover why creating maintaining and operating in a diverse environment is beneficial Master strategies for skills development Future proof your career Who This Book Is For Technology professionals who want to remain relevant and happy while navigating their current career and university students who are pursuing a STEM career and actively planning their future

Big Data and The Internet of Things Robert Stackowiak,Art Licht,Venu Mantha,Louis Nagode,2015-05-07 Enterprise Information Architecture for a New Age Big Data and The Internet of Things provides guidance in designing an

information architecture to accommodate increasingly large amounts of data massively large amounts of data not only from traditional sources but also from novel sources such everyday objects that are fast becoming wired into global Internet No business can afford to be caught out by missing the value to be mined from the increasingly large amounts of available data generated by everyday devices The text provides background as to how analytical solutions and enterprise architecture methodologies and concepts have evolved including the roles of data warehouses business intelligence tools predictive analytics data discovery Big Data and the impact of the Internet of Things Then you re taken through a series of steps by which to define a future state architecture and create a plan for how to reach that future state Enterprise Information Architecture for a New Age Big Data and The Internet of Things helps you gain an understanding of the following Implications of Big Data from a variety of new data sources including data from sensors that are part of the Internet of Things upon an information architecture How establishing a vision for data usage by defining a roadmap that aligns IT with line of business needs is a key early step The importance and details of taking a step by step approach when dealing with shifting business challenges and changing technology capabilities How to mitigate risk when evaluating existing infrastructure and designing and deploying new infrastructure Enterprise Information Architecture for a New Age Big Data and The Internet of Things combines practical advice with technical considerations Author Robert Stackowiak and his team are recognized worldwide for their expertise in large data solutions including analytics Don t miss your chance to read this book and gain the benefit of their advice as you look forward in thinking through your own choices and designing your own architecture to accommodate the burgeoning explosion in data that can be analyzed and converted into valuable information to drive your business forward toward success **Architecting the Industrial Internet** Shyam Nath,Robert

Stackowiak,Carla Romano,2017-09-22 Learn the ins and outs of the Industrial Internet of Things through subjects ranging from its history and evolution right up to what the future holds About This Book Define solutions that can connect existing systems and newer cloud based solutions to thousands of thousands of edge devices and industrial machines Identify define and justify Industrial Internet of Things IIoT projects and design an application that can connect to and control thousands of machines Leverage the power and features of a platform to monitor perform analytics and maintain the Industrial Internet Who This Book Is For Architects who are interested in learning how to define solutions for the Industrial Internet will benefit immensely from this book Relevant architect roles include enterprise architects business architects information architects cloud solution architects software architects and others The content is also relevant for technically inclined line of business leaders investing in these solutions What You Will Learn Learn the history of the Industrial Internet and why an architectural approach is needed Define solutions that can connect to and control thousands of edge devices and machines Understand the significance of working with line of business leadership and key metrics to be gathered Connect business requirements to the functional architecture Gain the right expectation as to the capabilities of Industrial Internet applications and how to assess

them Understand what data and analytics components should be included in your architecture solution Understand deployment trade offs management and security considerations and the impact of emerging technologies In Detail The Industrial Internet or the IIoT has gained a lot of traction Many leading companies are driving this revolution by connecting smart edge devices to cloud based analysis platforms and solving their business challenges in new ways To ensure a smooth integration of such machines and devices sound architecture strategies based on accepted principles best practices and lessons learned must be applied This book begins by providing a bird s eye view of what the IIoT is and how the industrial revolution has evolved into embracing this technology It then describes architectural approaches for success gathering business requirements and mapping requirements into functional solutions In a later chapter many other potential use cases are introduced including those in manufacturing and specific examples in predictive maintenance asset tracking and handling and environmental impact and abatement The book concludes by exploring evolving technologies that will impact IIoT architecture in the future and discusses possible societal implications of the Industrial Internet and perceptions regarding these projects By the end of this book you will be better equipped to embrace the benefits of the burgeoning IIoT Style and approach This book takes a comprehensive approach to the Industrial Internet thoroughly acquainting the reader with the concepts and philosophy of the IIoT It provides a basis for defining an IIoT solution in a thoughtful manner and creating what will be viewed as a successful project

Oracle Essentials Rick Greenwald,Robert Stackowiak,Jonathan Stern,2013-09-06 Written by Oracle insiders this indispensable guide distills an enormous amount of information about the Oracle Database into one compact volume Ideal for novice and experienced DBAs developers managers and users Oracle Essentials walks you through technologies and features in Oracle s product line including its architecture data structures networking concurrency and tuning Complete with illustrations and helpful hints this fifth edition provides a valuable one stop overview of Oracle Database 12c including an introduction to Oracle and cloud computing Oracle Essentials provides the conceptual background you need to understand how Oracle truly works Topics include A complete overview of Oracle databases and data stores and Fusion Middleware products and features Core concepts and structures in Oracle s architecture including pluggable databases Oracle objects and the various datatypes Oracle supports System and database management including Oracle Enterprise Manager 12c Security options basic auditing capabilities and options for meeting compliance needs Performance characteristics of disk memory and CPU tuning Basic principles of multiuser concurrency Oracle s online transaction processing OLTP Data warehouses Big Data and Oracle s business intelligence tools Backup and recovery and high availability and failover solutions

Oracle Essentials Rick Greenwald,Robert Stackowiak,Jonathan Stern,2013-05-15 Written by experienced Oracle insiders this essential guide distills a vast amount of information into an easy to read volume that covers every aspect of the Oracle database Readers of all technical levels will learn about Oracle s features and technologies including the product line architecture data structures networking concurrency tuning and much

more Augmented with illustrations and helpful hints the fifth edition of Oracle Essentials offers a valuable one stop overview of Oracle Database 12c Oracle s newest database release More comprehensible than huge complete references and more detailed than most primers this book gives current Oracle users the conceptual background they need to understand how the Oracle database truly works For those new to Oracle this all in one guide provides an essential introduction that will get them up to speed

Oracle Essentials Rick Greenwald,Robert Stackowiak,Jonathan Stern,1999 This concise guide explains what s important about Oracle8 the object relational database and Oracle8i the Internet database The text also covers all system products architecture and data structures installation management security backup and recovery and tuning issues and specific Oracle technologies such as data warehouses online transaction processing and the system s interfaces to the Web

Oracle Exadata Expert's Handbook Tariq Farooq,Charles Kim,Nitin Vengurlekar,Sridhar Avantsa,Guy Harrison,Syed Jaffar Hussain,2015-06-12 The Practical Authoritative 360 Degree Technical Guide to Oracle Exadata From Setup to Administration Optimization Tuning and Troubleshooting The blazingly fast Oracle Exadata Database Machine is being embraced by thousands of large scale users worldwide by governments the military enterprise organizations cloud service providers and anyone who needs extreme performance Now Oracle Exadata Expert s Handbook provides authoritative guidance to running Oracle Exadata with maximum reliability effectiveness performance and efficiency Six renowned Oracle technology experts have brought together core technical information experience best practices and insider tips in a concise reference Covering both 11g and 12c versions of Oracle Exadata software they deliver hands on coverage of best practices setup migration monitoring administration performance tuning and troubleshooting Whether you re an Oracle Exadata DBA DMA architect or manager you need these insights Get a 360 degree overview of the Oracle Exadata Database Machine Efficiently deploy RAC within the Oracle Exadata ecosystem Fully leverage Storage Cell s extraordinary performance via Offloading Smart Scans and Hybrid Columnar Compression Manage Exadata with OEM 12c perform setup configuration asset target discovery and day to day administration Tune Oracle Exadata for even better performance Perform Exadata Backup Recovery DR with RMAN and Data Guard Migrate to Oracle Exadata from other platforms Use Oracle Exadata with the ZFS Storage Appliance Consolidate within the Exadata Database Cloud

Oracle Exadata Recipes John Clarke,2013-01-28 Oracle Exadata Recipes takes an example based problem solution approach in showing how to size install configure manage monitor optimize and migrate Oracle database workloads on and to the Oracle Exadata Database Machine Whether you re an Oracle Database administrator Unix Linux administrator storage administrator network administrator or Oracle developer Oracle Exadata Recipes provides effective and proven solutions to accomplish a wide variety of tasks on the Exadata Database Machine You can feel confident using the reliable solutions that are demonstrated in this book in your enterprise Exadata environment Managing Oracle Exadata is unlike managing a traditional Oracle database Oracle s Exadata Database Machine is a pre configured engineered system comprised of hardware and

software built to deliver extreme performance for Oracle Database workloads Exadata delivers extreme performance by offering an optimally balanced hardware infrastructure with fast components at each layer of the engineered technology stack as well as a unique set of Oracle software features designed to leverage the high performing hardware infrastructure by reducing I O demands Let Oracle Exadata Recipes help you translate your existing Oracle Database knowledge into the exciting new growth area that is Oracle Exadata Helps extend your Oracle Database skillset to the fast growing Exadata platform Presents information on managing Exadata in a helpful example based format Clearly explains unique Exadata software and hardware features What you ll learn Install and configure Exadata Manage your Exadata hardware infrastructure Monitor and troubleshoot performance issues Manage smart scan and cell offload processing Take advantage of Hybrid Columnar Compression Deploy Smart Flash Cache and Smart Flash Logging Ensure the health of your Exadata environment Who this book is for Oracle Exadata Recipes is for Oracle Database administrators Unix Linux administrators storage administrators backup administrators network administrators and Oracle developers who want to quickly learn to develop effective and proven solutions without reading through a lengthy manual scrubbing for techniques Readers in a hurry will appreciate the recipe format that sets up solutions to common tasks as the centerpiece of the book Table of Contents Exadata Hardware Exadata Software How Oracle Works on Exadata Workload Qualification Sizing Exadata Preparing for Exadata Administration and Diagnostics Utilities Backup and Recovery Storage Administration Network Administration Patching and Upgrades Security Monitoring Exadata Storage Cells Host and Database Performance Monitoring Smart Scan and Cell Offload Hybrid Columnar Compression I O Resource Management and Instance Caging Smart Flash Cache and Smart Flash Logging Storage Indexes Post Installation Monitoring Tasks Post Install Database Tasks

Oracle NoSQL Database Maqsood Alam,Aalok Muley,Chaitanya Kadaru,Ashok Joshi,2013-12-06 Master Oracle NoSQL Database Enable highly reliable scalable and available data Oracle NoSQL Database Real Time Big Data Management for the Enterprise shows you how to take full advantage of this cost effective solution for storing retrieving and updating high volume unstructured data The book covers installation configuration application development capacity planning and sizing and integration with other enterprise data center products Real world examples illustrate the concepts presented in this Oracle Press guide Understand Oracle NoSQL Database architecture and the underlying data storage engine Oracle Berkeley DB Install and configure Oracle NoSQL Database for optimal performance Develop complex distributed applications using a rich set of APIs Read and write data into the Oracle NoSQL Database key value store Apply an Avro schema to the value portion of the key value pair using Avro bindings Learn best practices for capacity planning and sizing an enterpriselevel Oracle NoSQL Database deployment Integrate Oracle NoSQL Database with Oracle Database Oracle Event Processing and Hadoop Code examples from the book are available for download at www.OraclePressBooks.com Running Applications on Oracle Exadata Joyjeet Banerjee,2015-01-05 Maximize Application Performance on Oracle Exadata Written by an enterprise

architect specializing in applications on Oracle's engineered systems Running Applications on Oracle Exadata Tuning Tips Techniques reveals proven methods for configuring and tuning Oracle Exadata to achieve peak results from applications You'll get complete details on application migration consolidation and administration Deliver unparalleled enterprise application performance on Oracle Exadata using the best practices provided in this Oracle Press guide Understand Oracle Exadata architecture hardware components and software features Achieve peak performance from online transaction processing OLTP systems Size Oracle Exadata for applications using comparative and predictive methods Migrate and consolidate applications to Oracle Exadata Monitor manage and administer all Oracle Exadata components to ensure high availability and performance Develop and implement a backup and recovery strategy Learn best practices for running applications on Oracle Exadata Code examples in the book are available for download at OraclePressBooks.com

High-Performance Oracle Geoff Ingram, 2002-10-01 Geoff Ingram has met the challenge of presenting the complex process of managing Oracle performance This book can support every technical person looking to resolve Oracle8i and Oracle9i performance issues Aki Ratner President Precise Software Solutions Ensuring high performance and continuous availability of Oracle software is a key focus of database managers At least a dozen books address the subject of performance tuning that is how to fine tune the Oracle database for its greatest processing efficiency Geoff Ingram argues that this approach simply isn't enough He believes that performance needs to be addressed right from the design stage and it needs to cover the entire system not just the database High Performance Oracle is a hands on book loaded with tips and techniques for ensuring that the entire Oracle database system runs efficiently and doesn't break down Written for Oracle developers and DBAs and covering both Oracle8i and Oracle9i the book goes beyond traditional performance tuning books and covers the key techniques for ensuring 24/7 performance and availability of the complete Oracle system The book provides practical solutions for Choosing physical layout for ease of administration and efficient use of space Managing indexes including detecting unused indexes and automating rebuilds SQL and system tuning using the powerful new features in Oracle9i Release 2 Improving SQL performance without modifying code Running Oracle Real Application Clusters RAC for performance and availability Protecting data using Recover Manager RMAN and physical and logical standby databases The companion Web site provides the complete source code for examples in the book updates on techniques and additional documentation for optimizing your Oracle system

Oracle Exadata Expert's Handbook Tariq Farooq, 2015

Oracle Database Exadata Cloud Service: A Beginner's Guide Brian Spendolini, 2018-11-09 Quickly Get Up and Running on Oracle Database Exadata Cloud Service Quickly install configure and start using Oracle Database Exadata Cloud Service with the hands on information contained in this comprehensive Oracle Press guide Designed for easy learning the book features real world examples detailed illustrations and step by step instructions Oracle Database Exadata Cloud Service A Beginner's Guide walks you through the basics and shows you how to provision create and deploy databases Basic system administration tasks including

data backup and recovery software patching and system updating are clearly explained Advanced monitoring and data compression techniques are also covered Inside you ll discover how to Set up and configure Oracle Database Exadata Cloud Service Navigate the user interface Work with tooling and CLIs Deploy smart scans and storage indexes Employ the latest compression techniques Handle Oracle Exadata resource management Administer Oracle Exadata Smart Flash Cache Manage and monitor your Oracle Exadata Cloud Service Migrate to Oracle Exadata Cloud ServiceTAG For a complete list of Oracle Press titles visit www.OraclePressBooks.com

Oracle High-performance Tuning with STATSPACK Donald K. Burleson,2001 In today s Internet centric economy quick and consistent response time is incredibly important Statspack allows the collection automation storage and viewing of performance data Plus it makes the collection of performance data easy to set up This tuning utility is becoming very popular Administrators that run Statspack need detailed techniques for using the information to tune their Oracle databases This book combines important tuning techniques with ready to use Statspack utility scripts

[Oracle Exadata Survival Guide](#) David Fitzjarrell,Mary Mikell Spence,2013-11-11 Describes what Exadata is and its available configurations for such features as smart scans storage indexes hybrid columnar compression and Smart Flash Cache

Expert Oracle Exadata Kerry Osborne,Randy Johnson,Tanel Poder,2011-10-15 Throughout history advances in technology have come in spurts A single great idea can often spur rapid change as the idea takes hold and is propagated often in totally unexpected directions Exadata embodies such a change in how we think about and manage relational databases The key change lies in the concept of offloading SQL processing to the storage layer That concept is a huge win and its implementation in the form of Exadata is truly a game changer Expert Oracle Exadata will give you a look under the covers at how the combination of hardware and software that comprise Exadata actually work Authors Kerry Osborne Randy Johnson and Tanel P der share their real world experience gained through multiple Exadata implementations with the goal of opening up the internals of the Exadata platform 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 Changes the way you think about managing SQL performance and processing Provides a roadmap to laying out the Exadata platform to best support your existing systems Dives deeply into the internals removing the black box mystique and showing how Exadata actually works

Oracle High Performance Tuning for 9i and 10g Gavin JT Powell,2003-12-29 There are three parts to tuning an Oracle database data modeling SQL code tuning and physical database configuration A data model contains tables and relationships between tables Tuning a data model involves normalization and de normalization Different approaches are required depending on the application such as OLTP or a Data Warehouse Inappropriate database design can make SQL code impossible to tune Poor data modeling can have a most profound effect on database performance since all SQL code is constructed from the data model Poorly written SQL code is

often a culprit of performance problems and is expensive to rectify However tuning of SQL code is generally cheaper than changing the data model SQL code tends to be contained inside independent blocks within applications or stored procedures Physical database tuning involves hardware resource usage networking and various other Oracle things such as configuration and file distribution Physical configuration is often a culprit of poor performance where Oracle is installed with defaults and never altered by an expert Includes all three aspects of Oracle database tuning data model tuning SQL PL SQL code tuning physical plus configuration tuning Contains experienced guidance and real world examples using large datasets Emphasizes development as opposed to operating system perspective

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