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*Comprehensive, End-to-End Insight into  
Oracle's Flagship Database Machine*

# Oracle Exadata

## EXPERT'S HANDBOOK

Tariq Farooq | Charles Kim | Nitin Vengurlekar  
Sridhar Avantsa | Guy Harrison | Syed Jaffar Hussain

Covers  
versions **11g**  
and **12c**

# Oracle Exadata Experts Handbook

**Brendan Tierney**



## **Oracle Exadata Experts Handbook:**

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 Expert's Handbook** Tariq Farooq, 2015 Oracle Database 11g Oracle Real Application Clusters Handbook, 2nd Edition K.

Gopalakrishnan, 2011-08-22 Master Oracle Real Application Clusters Maintain a dynamic enterprise computing infrastructure with expert instruction from an Oracle ACE Oracle Database 11g Oracle Real Application Clusters Handbook Second Edition has been fully revised and updated to cover the latest tools and features Find out how to prepare your hardware deploy Oracle Real Application Clusters optimize data integrity and integrate seamless failover protection Troubleshooting performance tuning and application development are also discussed in this comprehensive Oracle Press guide Install and configure Oracle Real Application Clusters Configure and manage diskgroups using Oracle Automatic Storage Management Work with services voting disks and Oracle Clusterware Repository Look under the hood of the Cache Fusion and Global Resource Directory operations in Oracle Real Applications Clusters Explore the internal workings of backup and recovery in Oracle Real Application Clusters Employ workload balancing and the Transparent Application Failover feature of an Oracle database Get complete coverage of Stretch Clusters also known as Metro Clusters Troubleshoot Oracle Clusterware using the most advanced diagnostics available Develop custom Oracle Real Application Clusters applications *Oracle 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.

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*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 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 Poder 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 Database 12c Release 2 Real Application Clusters Handbook: Concepts, Administration, Tuning & Troubleshooting** K. Gopalakrishnan,Sam R. Alapati,2018-02-22 This comprehensive guide has been fully updated to cover the latest features and tools of Oracle Real Application Clusters 12c Through clear instruction and detailed examples Oracle Database 12c Real Application Clusters Handbook Concepts Administration Tuning and Troubleshooting teaches how to build configure and maintain a dynamic enterprise computing infrastructure This thoroughly revised edition covers best uses for the latest tools and features all from the practical standpoint of a working DBA You will discover how to prepare hardware configure the software optimize data integrity and integrate seamless failover protection Brand new flex and large cluster technologies are explained in full detail and readers will get complete solutions for securing data and continuing business operations in the event of hardware failure Presents all the new information needed to effectively use Oracle Real Application Clusters 12c considered the most radical overhaul ever Offers detailed coverage of troubleshooting performance tuning and application development

**Expert Oracle Exadata** Martin Bach,Kristofferson Arao,Andy Colvin,Frits Hoogland,Kerry Osborne,Randy Johnson,Tanel Poder,2015 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

*Oracle Exadata Survival Guide* David Fitzjarrell,Mary Spence,2013-11-29 Oracle Exadata Survival Guide is a hands on guide for busy Oracle database administrators who are migrating their skill sets to Oracle s Exadata database appliance The book covers the concepts behind Exadata and the available configurations for features such as smart scans storage indexes Smart Flash Cache hybrid columnar compression and more You ll learn about performance metrics and execution plans and how to optimize SQL running in Oracle s powerful new environment The authors also cover migration from other servers Oracle Exadata is fast becoming the standard for large installations such as those running data warehouse business intelligence and large scale OLTP systems Exadata is like no other platform and is new ground even for experienced Oracle database administrators The Oracle Exadata Survival Guide helps you navigate the ins and outs of this new platform de mystifying this amazing appliance and its exceptional performance The book takes a highly practical approach not diving too deeply into the details but giving you just the right depth of information to quickly transfer your skills to Oracle s important new platform Helps transfer your skills to the platform of the future Covers the important ground without going too deep Takes a practical and hands on approach to everyday tasks

**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

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**Oracle Database Problem Solving and Troubleshooting Handbook** Tariq Farooq, Mike Ault, Paulo Portugal, Mohamed Hour, Syed Jaffar Hussain, Jim Czuprynski, Guy Harrison, 2016-04-04 An Expert Guide for Solving Complex Oracle Database Problems Oracle Database Problem Solving and Troubleshooting Handbook delivers comprehensive practical and up to date advice for running the Oracle Database reliably and efficiently in complex production environments Seven leading Oracle experts have brought together an unmatched collection of proven solutions hands on examples and step by step tips for Oracle Database 12c 11g and other recent versions of Oracle Database Every solution is crafted to help experienced Oracle DBAs and DMAs understand and fix serious problems as rapidly as possible The authors cover LOB segments UNDO tablespaces high GC buffer wait events poor query response times latch contention indexing XA distributed transactions RMAN backup recovery and much more They also offer in depth coverage of a wide range of topics including DDL optimization VLDB tuning database forensics adaptive cursor sharing data pumps data migration SSDs indexes and how to go about fixing Oracle RAC problems Learn how to Choose the quickest path to solve high impact problems Use modern best practices to make your day more efficient and predictable Construct your Call 9 1 1 plan for future database emergencies Proactively perform maintenance to improve your environment s stability Save time with industry standard tools and scripts Register your product at [informit.com/register](http://informit.com/register) for convenient access to downloads updates and corrections as they become available [Oracle Recovery Appliance Handbook](#) Ramesh Raghav, 2016-04-28 The Zero Data Loss Recovery Appliance ZDLRA also called the Recovery Appliance is a brand new engineered system from Oracle Corporation which takes a fundamentally different approach to data

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