

Oracle Exadata Database Machine X7 2 Data Sheet

"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

Use this fast-paced and comprehensive guide to build cloud-based solutions on Oracle Cloud Infrastructure. You will understand cloud infrastructure, and learn how to launch new applications and move existing applications to Oracle Cloud. Emerging trends in software architecture are covered such as autonomous platforms, infrastructure as code, containerized applications, cloud-based container orchestration with managed Kubernetes, and running serverless workloads using open-source tools. Practical examples are provided. This book teaches you how to self-provision the cloud resources you require to run and scale your custom cloud-based applications using a convenient web console and programmable APIs, and you will learn how to manage your infrastructure as code with Terraform. You will be able to plan, design, implement, deploy, run, and monitor your production-grade and fault-tolerant cloud software solutions in Oracle's data centers across the world, paying only for the resources you actually use. Oracle Cloud Infrastructure is part of Oracle's new generation cloud that delivers a complete and well-integrated set of Infrastructure as a Service (IaaS) capabilities (compute, storage, networking), edge services (DNS, web application firewall), and Platform as a Service (PaaS) capabilities (such as Oracle Autonomous Database which supports both transactional and analytical workloads, the certified and fully managed Oracle Kubernetes Engine, and a serverless platform based on an open-source Fn Project). Oracle Autonomous Database which supports both transactional and analytical workloads), and Oracle's certified and managed Container Engine for Kubernetes. What You Will Learn Build software solutions on Oracle Cloud Automate cloud infrastructure with CLI and Terraform Follow best practices for architecting on Oracle Cloud Employ Oracle Autonomous Database to obtain valuable data insights Run containerized applications on Oracle's Container Engine for Kubernetes Understand the emerging Cloud Native ecosystem Who This Book Is For Cloud architects, developers, DevOps engineers, and technology students and others who want to learn how to build cloud-based systems on Oracle Cloud Infrastructure (OCI) leveraging a broad range of OCI Infrastructure as a Service (IAAS) capabilities, Oracle Autonomous Database, and Oracle's Container Engine for Kubernetes. Readers should have a working knowledge of Linux, exposure to programming, and a basic understanding of networking concepts. All exercises in the book can be done at no cost with a 30-day Oracle Cloud trial.

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 Service TAG: For a complete list of Oracle Press titles, visit www.OraclePressBooks.com.

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

Oracle system performance inefficiencies often go undetected for months or even years--even under intense scrutiny--because traditional Oracle performance analysis methods and tools are fundamentally flawed. They're unreliable and inefficient. Oracle DBAs and developers are all too familiar with the outlay of time and resources, blown budgets, missed deadlines, and marginally effective performance fiddling that is commonplace with traditional methods of Oracle performance tuning. In this crucial book, Cary Millsap, former VP of Oracle's System Performance Group, clearly and concisely explains how to use Oracle's response time statistics to diagnose and repair performance problems. Cary also shows how "queueing theory" can be applied to

response time statistics to predict the impact of upgrades and other system changes. Optimizing Oracle Performance eliminates the time-consuming, trial-and-error guesswork inherent in most conventional approaches to tuning. You can determine exactly where a system's performance problem is, and with equal importance, where it is not, in just a few minutes--even if the problem is several years old. Optimizing Oracle Performance cuts a path through the complexity of current tuning methods, and streamlines an approach that focuses on optimization techniques that any DBA can use quickly and successfully to make noticeable--even dramatic--improvements. For example, the one thing database users care most about is response time. Naturally, DBAs focus much of their time and effort towards improving response time. But it is entirely too easy to spend hundreds of hours to improve important system metrics such as hit ratios, average latencies, and wait times, only to find users are unable to perceive the difference. And an expensive hardware upgrade may not help either. It doesn't have to be that way. Technological advances have added impact, efficiency, measurability, predictive capacity, reliability, speed, and practicality to the science of Oracle performance optimization. Optimizing Oracle Performance shows you how to slash the frustration and expense associated with unraveling the true root cause of any type of performance problem, and reliably predict future performance. The price of this essential book will be paid back in hours saved the first time its methods are used.

Expert guidance on administering the highly complex Oracle E-Business Suite Time-proven best practices Tried and tested scripts, notes, and references Covers all vital admin tasks, including configuration, monitoring, performance tuning, troubleshooting, and patching

"Easy-to-manage deployment and virtualization"--cover.

"The pursuit of happiness, according to the author Habib Mandzic, is in fact the pursuit of the meaning of life. The true life, that is. His narratives about birth, growing up, education, upbringing, work, safe and organised families, and stable communities are the foundation and meaning of life's existence." -- Foreword, p. xi.

In simple terms, the book is designed to give IT professionals an extensive idea of what cloud computing is all about, the basic fundamentals, what the different options of cloud computing are for an enterprise, and how the same can be adopted to their own enterprise. This book is exhaustive and covers almost all the top cloud computing technologies and to the lowest level of details, which will help even a junior-level IT professional to design and deploy cloud solutions based on the individual requirements. This book offers high level of details, which will help IT administrators to manage and maintain the corporate and SME IT infrastructure. This book can also be a part of an engineering curriculum, especially where information technology and computer science courses are offered.

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 This IBM® Redpaper™ publication describes the adapter-based virtualization capabilities that are being deployed in high-end IBM POWER7+™ processor-based servers. Peripheral Component Interconnect Express (PCIe) single root I/O virtualization (SR-IOV) is a virtualization technology on IBM Power Systems servers. SR-IOV allows multiple logical partitions (LPARs) to share a PCIe adapter with little or no run time involvement of a hypervisor or other virtualization intermediary. SR-IOV does not replace the existing virtualization capabilities that are offered as part of the IBM PowerVM® offerings. Rather, SR-IOV compliments them with additional capabilities. This paper describes many aspects of the SR-IOV technology, including: A comparison of SR-IOV with standard virtualization technology Overall benefits of SR-IOV Architectural overview of SR-IOV Planning requirements SR-IOV deployment models that use standard I/O virtualization Configuring the adapter for dedicated or shared modes Tips for maintaining and troubleshooting your system Scenarios for configuring your system This paper is directed to clients, IBM Business Partners, and system administrators who are involved with planning, deploying, configuring, and maintaining key virtualization technologies.

This Oracle 11g training course provides a step-by-step guide for configuring and using the Oracle Grid Infrastructure in a single server environment, and it forms the basis for expanding this infrastructure to a clustered server configuration. Advanced database and storage administration tasks are considered, including Oracle Restart and Automatic Storage Management (ASM). With this course you will learn about: Preparing a host system for the Grid Infrastructure and Oracle RDBMS installations and performing those installations; Preparing a host system for ASM storage management; Partitioning and configuration of storage devices for ASM storage on both Linux and MS Windows servers; Utilizing Oracle Restart for automatic sequencing and restarting of Oracle software components; Obtain an introduction to Oracle High-Availability Services including the Server Control and Clusterware Control utilities; Review the Oracle server stack architecture including operating system virtualization and storage subsystem virtualization layers; Using ASM for storage of some or all database files, thereby providing a database-centric and optimized storage and volume manager; Exploiting ASM storage from the Database Configuration Assistant (DBCA), Database Upgrade Assistant (DBUA) and the Enterprise Manager (EM) interface; Administration of an ASM instance and management of ASM disk groups; Implement advanced storage capabilities including Intelligent Data Placement, Highcapacity disk drives and access control privileges; Manage storage systems using the ASM Configuration Assistant (ASMCA) and the ASM command-line interface (ASMCMD); Migrate a database from traditional file system storage to ASM storage; Monitoring performance and throughput of ASM devices.

Work with Oracle database's high-availability and disaster-management technologies. This book covers all the Oracle high-availability technologies in one place and also discusses how

you configure them in engineered systems and cloud services. You will see that when you say your database is healthy, it is not limited to whether the database is performing well on day-to-day operations; rather it should also be robust and free from disasters. As a result, your database will be capable of handling unforeseen incidents and recovering from disaster with very minimal or zero downtime. Oracle High Availability, Disaster Recovery, and Cloud Services explores all the high-availability features of Oracle database, how to configure them, and best practices. After you have read this book you will have mastered database high-availability concepts such as RAC, Data Guard, OEM 13c, and engineered systems (Oracle Exadata x6/x7 and Oracle Database Appliance). What You Will Learn Master the best practices and features of Exadata and ODA Implement and monitor high availability with OEM 13c Clone databases using various methods in Oracle 12c R2 Work with the Oracle sharding features of Oracle 12c R2 Who This Book Is For Oracle database administrators

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. This study guide covers 100% of the objectives for the Oracle Cloud Infrastructure Architect Associate exam Pass the new Oracle Cloud Infrastructure Architect Associate exam with ease using the detailed information contained in this effective self-study system. Written by an Oracle expert and respected author, Oracle Cloud Infrastructure Architect Associate All-in-One Exam Guide (Exam 1Z0-1072) offers complete coverage of every subject on the challenging exam. Hands-on exercises, practice exam questions with in-depth explanations, "Notes," "Exam Tips," and "Cautions" throughout provide professional insight and call out potentially harmful situations. Beyond exam preparation, this guide also serves as a valuable on-the-job reference. Covers all exam topics, including: • Oracle Cloud Infrastructure concepts • OCI identity and access management • OCI networking • Compute instances • Storage • Database • Automation tools • OCI best practice architectures Online content includes: • 140 practice questions • Fully-customizable online test engine

Oracle High Availability, Disaster Recovery, and Cloud Services Explore RAC, Data Guard, and Cloud Technology Apress

Proactively plan and manage innovation in your business while keeping operations safe and secure. This book provides a framework and practices to help you safeguard customer information, prevent unauthorized access, and protect your brand and assets. Securing company operations is a board-level discussion. Across all industries, companies are pouring millions of dollars into taming cybercrime and other related security crime. Achieving and Sustaining Secured Business Operations presents a holistic approach looking top down, bottom up, and sideways. The end goal is to achieve and sustain a safe environment to conduct secured business operations while continuously innovating for competitive advantage. What You'll Learn Discover why security, specifically secured business operations, needs to be part of business planning and oversight by design and not left to technologists to make the business case Determine what you can do in your role and in your organization to drive and implement integration and improvements in planning and managing secured business operations in conjunction with other business planning and management activities Choose ways in which progress toward achieving and sustaining secured business operations can be measured Understand best practices for organizing, planning, architecting, governing, monitoring, and managing secured business operations Create a framework, including methods and tools for operationalizing assessment, planning, and ongoing management of secured business operations Use cases and potential case studies for various industries and business models Who This Book Is For Chief executive officers and their leadership team; chief operations officers; chief information officers and their leadership team; chief information security officers; business functional middle managers; and enterprise, solution, and information technology architects

DocBook is a system for writing structured documents using SGML and XML. DocBook provides all the elements you'll need for technical documents of all kinds. A number of computer companies use DocBook for their documentation, as do several Open Source documentation groups, including the Linux Documentation Project (LDP). With the consistent use of DocBook, these groups can readily share and exchange information. With an XML-enabled browser, DocBook documents are as accessible on the Web as in print. DocBook : The Definitive Guide is the complete and official documentation of the DocBook Document Type Definition (DTD) and many of its associated tools. In this book, you'll find : A brief introduction to SGML and XML ; a guide to creating documents with the DocBook DTD and associated stylesheets. Information about using SGML and XML tools like jade and DSSSL ; a guide to customizing DocBook ; a complete SGML and XML reference, including examples, for every DocBook element. In addition, the CD-ROM contains the complete source text of this book, in both SGML and HTML ; all the examples from the book ; DSSSL stylesheets that let you convert DocBook documents to RTF, LaTeX, or HTML ; The DocBook DTD for SGML, version 3*1 ; The DocBk DTD for XML, version 3*1*5. In an era of collaborative creation of technology, when information is needed online as often as in print, DocBook is the essential. documentation environment. "DocBook : The Definitive Guide" is the one essential source of information about that environment.

This book constitutes the thoroughly refereed short papers, workshops and doctoral consortium papers of the 23rd European Conference on Advances in Databases and Information Systems, ADBIS 2019, held in Bled, Slovenia, in September 2019. The 19 short research papers and the 5 doctoral consortium papers were carefully reviewed and selected from 103 submissions, and the 31 workshop papers were selected out of 67 submitted papers. The papers are organized in the following sections: Short Papers; Workshops Papers; Doctoral Consortium Papers; and cover a wide spectrum of topics related to database and information systems technologies for advanced applications.

After leaving the Service, ex SAS Sergeant Ben Nash took up a Ski Instructors' Position at a Victorian Ski Resort mainly for fun but also because of his love of the mountains .The story starts during his service in Afghanistan and that sets the scene for a chain of events that will follow him to his home in the Gold Coast Hinterland and beyond... He is approached by executives from an electronics company to locate their CEO who has gone missing on a trade mission to Moscow. Ben's experience in the SAS, and a previous mission within Russia, makes him the ideal candidate for the task. However, friends are not always who they seem to be and the past soon begins to catch up with him. Eventually Ben finds out who his real friends are.

Master the Big Data Capabilities of Oracle R Enterprise Effectively manage your enterprise's big data and keep complex processes running smoothly using the hands-on information contained in this Oracle Press guide. Oracle R Enterprise:

Harnessing the Power of R in Oracle Database shows, step-by-step, how to create and execute large-scale predictive analytics and maintain superior performance. Discover how to explore and prepare your data, accurately model business processes, generate sophisticated graphics, and write and deploy powerful scripts. You will also find out how to effectively incorporate Oracle R Enterprise features in APEX applications, OBIEE dashboards, and Apache Hadoop systems. Learn to:

- Install, configure, and administer Oracle R Enterprise
- Establish connections and move data to the database
- Create Oracle R Enterprise packages and functions
- Use the R language to work with data in Oracle Database
- Build models using ODM, ORE, and other algorithms
- Develop and deploy R scripts and use the R script repository
- Execute embedded R scripts and employ ORE SQL API functions
- Map and manipulate data using Oracle R Advanced Analytics for Hadoop
- Use ORE in Oracle Data Miner, OBIEE, and other applications

Learn to build and implement a robust Oracle E-Business Suite system using the new release, EBS 12.2. This hands-on, real-world guide explains the rationale for using an Oracle E-Business Suite environment in a business enterprise and covers the major technology stack changes from EBS version 11i through R12.2. You will learn to build up an EBS environment from a simple single-node installation to a complex multi-node high available setup. Practical Oracle E-Business Suite focuses on release R12.2, but key areas in R12.1 are also covered wherever necessary. Detailed instructions are provided for the installation of EBS R12.2 in single and multi-node configurations, the logic and methodology used in EBS patching, and cloning of EBS single-node and complex multi-node environments configured with RAC. This book also provides information on FMW used in EBS 12.2, as well as performance tuning and EBS 12.2 on engineered system implementations. What You Will

Learn:

- Understand Oracle EBS software and the underlying technology stack components
- Install/configure Oracle E-Business Suite R12.2 in simple and HA complex setups
- Manage Oracle EBS 12.2
- Use online patching (adop) for Installation of Oracle EBS patches
- Clone an EBS environment in simple and complex configurations
- Perform and tune Oracle EBS in all layers (Application/DB/OS/NW)
- Secure E-Business Suite R12.2

Who This Book Is For: Developers, data architects, and data scientists looking to integrate the most successful big data open stack architecture and how to choose the correct technology in every layer

Private clouds allow for managing multiple databases under one roof, avoiding unnecessary resource management. Private cloud solutions can be applied in sectors such as healthcare, retail, and software. The Introduction to Private Cloud using Oracle Exadata and Oracle Database will explore the general architecture of private cloud databases with a focus on Oracle's Exadata database machine. The book describes the private cloud using fundamental-level Exadata and database. Exadata has been Oracle's pioneer product for almost a

decade. In the last few years, Oracle has positioned Exadata for customers to consume as a cloud service. This book will provide a timely introduction to Exadata for current and potential Oracle customers and other IT professionals. Master Oracle SOA Suite 12c Design, implement, manage, and maintain a highly flexible service-oriented computing infrastructure across your enterprise using the detailed information in this Oracle Press guide. Written by an Oracle ACE director, Oracle SOA Suite 12c Handbook uses a start-to-finish case study to illustrate each concept and technique. Learn expert techniques for designing and implementing components, assembling composite applications, integrating Java, handling complex business logic, and maximizing code reuse. Runtime administration, governance, and security are covered in this practical resource. Get started with the Oracle SOA Suite 12c development and run time environment Deploy and manage SOA composite applications Expose SOAP/XML REST/JSON through Oracle Service Bus Establish interactions through adapters for Database, JMS, File/FTP, UMS, LDAP, and Coherence Embed custom logic using Java and the Spring component Perform fast data analysis in real time with Oracle Event Processor Implement Event Drive Architecture based on the Event Delivery Network (EDN) Use Oracle Business Rules to encapsulate logic and automate decisions Model complex processes using BPEL, BPMN, and human task components Establish KPIs and evaluate performance using Oracle Business Activity Monitoring Control traffic, audit system activity, and encrypt sensitive data

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

Finally, a book that takes a simple approach to improving relationships. In straightforward language this book introduces the reader to the 'Relationship Banking' concept, which has the power to change forever the way people look and conduct at all their relationships. This book contains all the information required to teach readers exactly what they need to do to rekindle, repair or rescue their relationship and for a lot less than the cost of one professional counselling session. This book is an easy to read 105 pages, written by a psychologist. It contains all the information needed to dramatically improve our most important relationship - the one with our life partner.

The unthinkable happened: On the 24th of May 2003, the heater inside Sally Tebble's house exploded, trapping her inside. She received 30% burns all over her body and lost her fingers. However she survived, but spent seven months in a hospital Intensive Care Unit. This book is an inspirational story of determination and the will to live. Though many people would use these setbacks as a reason to quit, Sally didn't. Instead, she drew from her intense personal power, along with the love of her mother and two children, to find the will to walk again. Tebble's life as a burn survivor brings her constant challenges and pain, but she doesn't let it bring her down. Instead, she transfers her pain into Feeling Ugly to help inspire others suffering from the same fate to continue on the path to happiness, no matter how impossible it seems.

Achieve Extreme Application Performance for a Private Cloud with Oracle Exalogic Elastic Cloud Transition to a private cloud computing infrastructure and achieve unmatched levels of performance with help from this Oracle Press guide. Oracle Exalogic Elastic Cloud Handbook shows you how to plan, implement, and maintain a private cloud. Find out how to set up components, deploy Java applications, maximize redundancy and throughput, and migrate legacy workloads. Examples, screenshots, and diagrams are included throughout this comprehensive resource. Configure Oracle Exalogic Elastic Cloud nodes and racks Optimize Java EE application performance on Oracle WebLogic Server Provision and administer a highly scalable private cloud Build, debug, and manage custom Java applications Secure, monitor, and tune using Oracle Enterprise Manager Leverage capabilities from Oracle Fusion Middleware Consolidate Oracle and third-party application workloads

A step-by-step guide to practising Oracle GoldenGate High Availability (HA) options, Microservices, and Real-Time downstream techniques ?DESCRIPTION The book starts with a brief introduction about Oracle GoldenGate with Microservices and how to configure high availability using various methods. Oracle GoldenGate Microservices Architecture (MA) is a similar architecture based on REST APIs which enable us to configure, monitor, and manage Oracle GoldenGate services using a web-based user interface. Each module supports a specific business goal and uses a simple, lightweight, and well-defined interface to communicate with other sets of services. Oracle GoldenGate can interact with custom conflict-resolution routines that customers write to satisfy their business rules. KEY FEATURES - Understand how and when they're used classic Vs. Microservices - Learn how to use real-time downstream methods based on the environment - Learn how to solve Oracle GoldenGate (OGG) Conflict Detection and Resolution (CDR) in bi-directional, active replication - Learn how

to implement high availability for mission-critical systems using Oracle GoldenGate – XAG components - Learn how to set up bi-directional replication between pluggable databases (PDBs) in a multi-tenant environment - Learn how to use differently typed of replicates in pluggable databases (PDBs) in a multi-tenant environment

WHAT WILL YOU LEARN By the end of the book, you will come across a few case studies about how to use Microservices, Kubernetes, REST APIs in Oracle GoldenGate, and How to monitor Oracle GoldenGate processes in real-time environments. This book also helps how to use various file systems like ACFS, DBFS, and NFS in high availability for Oracle GoldenGate.

WHO THIS BOOK IS FOR This book is intended for anyone looking for how to set up and configure Uni-directional, Bi-directional replication in mission-critical environments either using classic Oracle GoldenGate OR Oracle GoldenGate with Microservices. This book also helps various methods to implement real-time downstream techniques.

Table of Contents

1. Introduction to Oracle GoldenGate HA - XAG Components
2. Extract and Replicat in Multitenant Environment
3. Consolidated and Cascaded Oracle GoldenGate
4. Introduction to Oracle GoldenGate Methodologies
5. Introduction to Oracle GoldenGate Utilities
6. Bi-Directional Replication with Conflict Detection and Resolution (CDR)
7. Bi-directional Replication with Pluggable Databases (PDBs) in Multitenant Environment
8. Real-Time Downstream Database with Multiple Scenarios
9. Oracle GoldenGate Microservices Architecture overview
10. Managing Oracle GoldenGate and Kubernetes
11. Automation Recipes Via Rest APIs
12. Oracle GoldenGate Tuning and Troubleshooting

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

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 What you'll learn Know when to apply RAC, and when not to Design applications to take advantage of RAC Troubleshoot and solve clusterware problems Manage database backup and recovery in RAC Stay on top of locking issues and deadlock detection Harness the performance from parallel processing in RAC Support your RAC environment with a healthy network interconnect Who this book is for Expert Oracle RAC 12c is for experienced Oracle Database Administrators (DBAs) who are ready to take the next step in their career by expanding their skill set to include building and managing Oracle Real Application Clusters (RAC). DBAs and architects who are in the process of implementing RAC can immensely benefit from this book. It's an excellent choice for DBAs to learn RAC conceptually, understand best practices, and become experts in troubleshooting RAC problems. Table of Contents Overview of Oracle RAC Clusterware Management and Troubleshooting RAC Operational Practices RAC New Features Storage and ASM Practices Application Design Issues Managing and Optimizing a Complex RAC Environment Backup and Recovery in RAC Network Practices in RAC RAC Database Optimization Locks and Deadlocks Parallel Query in RAC Clusterware and Database Upgrades Oracle RAC One Node The novelist and critic Christine Brooke-Rose investigates those difficult border zones between the 'invented' and the 'real' in fiction.

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 Write Powerful SQL Statements and PL/SQL Programs Learn how to access Oracle databases through SQL statements and construct PL/SQL programs. Oracle Database 12c SQL offers complete coverage of the latest database features and techniques. Find out how to write SQL statements to retrieve and modify database information, use SQL*Plus and SQL Developer, work with database objects, write PL/SQL programs, use performance optimization techniques, incorporate XML, and more. This Oracle Press guide contains everything you need to know to master SQL. Use SQL statements to access an Oracle database Work with SQL*Plus and SQL Developer Write PL/SQL

programs Create tables, sequences, indexes, views, and triggers Design advanced queries containing complex calculations Create database objects to handle abstract data Use date, time stamp, and time interval data types Establish user roles and privileges Handle multimedia files using large objects Tune SQL statements to make them execute faster Generate, process, and store XML data Master the very latest Oracle Database 12c features Code examples in the book are available for download. Architecture of a Database System presents an architectural discussion of DBMS design principles, including process models, parallel architecture, storage system design, transaction system implementation, query processor and optimizer architectures, and typical shared components and utilities.

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 10g has become the most complex database ever created and Oracle tuning has become increasingly complex. This book provides a complete step-by-step approach for holistic Oracle tuning and it is the accumulated knowledge from tuning thousands of Oracle databases. Incorporating the principles of artificial intelligence, Oracle10g has developed a sophisticated mechanism for capturing and tracking database performance over time periods. This new complexity has introduced dozens of new v\$ and DBA views, plus dozens of Automatic Workload Repository (AWR) tables. The AWR and its interaction with the Automatic Database Diagnostic Monitor (ADDM) is a revolution in database tuning. By understanding the internal workings of the AWR tables, the senior DBA can develop time-series tuning models to predict upcoming outages and dynamically change the instance to accommodate the impending resource changes. This is not a book for beginners. Targeted at the senior Oracle DBA, this book dives deep into the internals of the v\$ views, the AWR table structures and the new DBA history views. Packed with ready-to-run scripts, you can quickly monitor and identify the most challenging performance issues.

The AI revolution is moving at a breakneck speed. Organizations are beginning to invest in innovative ways to monetize their data through the use of artificial intelligence. Businesses need to understand the reality of AI. To be successful, it is imperative that organizations understand that augmented intelligence is the secret to success.

Augmented Intelligence: The Business Power of Human–Machine Collaboration is about the process of combining human and machine intelligence. This book provides business leaders and AI data experts with an understanding of the value of augmented intelligence and its ability to help win competitive markets. This book focuses on the requirement to clearly manage the foundational data used for augmented intelligence. It focuses on the risks of improper data use and delves into the ethics and governance of data in the era of augmented intelligence. In this book, we explore the difference between weak augmentation that is based on automating well understood processes and strong augmentation that is designed to rethink business processes through the inclusion of data, AI and machine learning. What experts are saying about Augmented Intelligence "The book you are about to read is of great importance because we increasingly rely on machine learning and AI. Therefore, it is critical that we understand the ability to create an environment in which businesses can have the tools to understand data from a holistic perspective. What is imperative is to be able to make better decisions based on an understanding of the behavior and thinking of our customers so that we can take the best next action. This book provides a clear understanding of the impact of augmented intelligence on both society and business."—Tsvi Gal, Managing Director, Enterprise Technology and Services, Morgan Stanley "Our mission has always been to help clients apply AI to better predict and shape future outcomes, empower higher value work, and automate how work gets done. I have always said, 'AI will not replace managers, but managers who use AI will replace managers who don't.' This book delves into the real value that AI promises, to augment existing human intelligence, and in the process, dispels some of the myths around AI and its intended purpose."—Rob Thomas, General Manager, Data and AI, IBM

Master Oracle Data Guard 11g Provide superior data protection, availability, and disaster recovery using the tested techniques in this Oracle Press guide. Cowritten by a

team of Oracle experts, Oracle Data Guard 11g Handbook provides a sound architectural foundation along with best practices for configuration, monitoring, maintenance, and troubleshooting. You will get full details on implementing deployment architectures to address requirements that extend beyond disaster recovery. This invaluable resource also includes a complete set of monitoring scripts available for download. Develop a disaster recovery plan for your Oracle database to meet your organization's requirements Configure and deploy Oracle Data Guard for your environment Tune and troubleshoot your physical and logical standby databases Implement the Oracle Data Guard Broker management framework Integrate with Oracle Grid Control Monitor your Oracle Data Guard environment Enable read-only services and disaster recovery with Oracle Active Data Guard Configure seamless database and application failover Minimize planned downtime using Oracle Data Guard switchover Handle backup and recovery with Oracle Recovery Manager

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