

Database Cloud Service Oracle

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

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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.

As the Web grows and expands into ever more remote parts of the world, the availability of resources over the Internet increases exponentially. Making use of this widely prevalent tool, organizations and individuals can share and store knowledge like never before. Cloud Technology: Concepts, Methodologies, Tools, and Applications investigates the latest research in the ubiquitous Web, exploring the use of applications and software that make use of the Internet's anytime, anywhere availability. By bringing together research and ideas from across the globe, this publication will be of use to computer engineers, software developers, and end users in business, education, medicine, and more.

Migrating to the Cloud: Oracle Client/Server Modernization is a reference guide for migrating client/server applications to the Oracle cloud. Organized into 14 chapters, the book offers tips on planning, determining effort and budget, designing the Oracle cloud infrastructure, implementing the migration, and moving the Oracle cloud environment into production. Aside from Oracle application and database cloud offerings, the book looks at various tools and technologies that can facilitate migration to the cloud. It includes useful code snippets and step-by-step instructions in database migration, along with four case studies that highlight service enablement of DOS-based applications, Sybase to Oracle, PowerBuilder to APEX, and Forms to Java EE. Finally, it considers current challenges and future trends in cloud computing and client/server migration. This book will be useful to IT professionals, such as developers, architects, database administrators, IT project managers, and executives, in developing migration strategies and best practices, as well as finding appropriate solutions. Focuses on Oracle architecture, Middleware and COTS business applications Explains the tools and technologies necessary for your legacy migration Gives useful information about various strategies, migration methodologies and efficient plans for executing migration projects

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

Learn how to define strategies for cloud adoption of your Oracle database landscape. Understand private cloud, public cloud, and hybrid cloud computing in order to successfully design and manage databases in the cloud. The Cloud DBA-Oracle provides an overview of Database-as-a-Service (DBaaS) that you can use in defining your cloud adoption strategy. In-depth details of various cloud service providers for Oracle database are given, including Oracle Cloud and Amazon Web Services (AWS). Database administration techniques relevant to hosting databases in the cloud are shown in the book as well as the technical details needed to perform all database administration tasks and activities, such as migration to the cloud, backup in the cloud, and new database setup in the cloud. You will learn from real-world business cases and practical examples of administration of Oracle database in the cloud, highlighting the challenges faced and solutions implemented. What you will learn: Cloud computing concepts from the DBA perspective, such as private cloud, public cloud, hybrid cloud Technical details of all aspects of cloud database administration Challenges faced during setup of databases in private cloud or database migration to public cloud Key points to be kept in mind during database administration in the cloud Practical examples of successful Oracle database cloud migration and support Who Is This Book For All levels of IT professionals, from executives responsible for determining database strategies to database

administrators and database architects who manage and design databases.

After a short description of the key concepts of big data the book explores on the secrecy and security threats posed especially by cloud based data storage. It delivers conceptual frameworks and models along with case studies of recent technology.

Implement a Centralized Cloud Storage Infrastructure with Oracle Automatic Storage Management Build and manage a scalable, highly available cloud storage solution. Filled with detailed examples and best practices, this Oracle Press guide explains how to set up a complete cloud-based storage system using Oracle Automatic Storage Management. Find out how to prepare hardware, build disk groups, efficiently allocate storage space, and handle security. Database Cloud Storage: The Essential Guide to Oracle Automatic Storage Management shows how to monitor your system, maximize throughput, and ensure consistency across servers and clusters. Set up and configure Oracle Automatic Storage Management Discover and manage disks and establish disk groups Create, clone, and administer Oracle databases Consolidate resources with Oracle Private Database Cloud Control access, encrypt files, and assign user privileges Integrate replication, file tagging, and automatic failover Employ pre-engineered private cloud database consolidation tools Check for data consistency and resync failed disks Code examples in the book are available for download

In clearly written chapters you will be guided through different aspects of Oracle Application Express. Varying from setting up your environment to maximizing SQL and PL/SQL. Examples are given based on a simple but appealing case. This book is filled with best practices on how to make the most of Oracle APEX. Developers beginning with application development as well as those who are experienced will benefit from this book. You will need to have basic knowledge of SQL and PL/SQL to follow the examples in this book.

The traditional division of labor between the database (which only stores and manages SQL and XML data for fast, easy data search and retrieval) and the application server (which runs application or business logic, and presentation logic) is obsolete. Although the books primary focus is on programming the Oracle Database, the concepts and techniques provided apply to most RDBMS that support Java including Oracle, DB2, Sybase, MySQL, and PostgreSQL. This is the first book to cover new Java, JDBC, SQLJ, JPublisher and Web Services features in Oracle Database 10g Release 2 (the coverage starts with Oracle 9i Release 2). This book is a must-read for database developers audience (DBAs, database applications developers, data architects), Java developers (JDBC, SQLJ, J2EE, and OR Mapping frameworks), and to the emerging Web Services assemblers. Describes pragmatic solutions, advanced database applications, as well as provision of a wealth of code samples. Addresses programming models which run within the database as well as programming models which run in middle-tier or client-tier against the database. Discusses languages for stored procedures: when to use proprietary languages such as PL/SQL and when to use standard languages such as Java; also running non-Java scripting languages in the database. Describes the Java runtime in the Oracle database 10g (i.e., OracleJVM), its architecture, memory management, security management, threading, Java execution, the Native Compiler (i.e., NCOMP), how to make Java known to SQL and PL/SQL, data types mapping, how to call-out to external Web components, EJB components, ERP frameworks, and external databases. Describes JDBC programming and the new Oracle JDBC 10g features, its advanced connection services (pooling, failover, load-balancing, and the fast database event notification mechanism) for clustered databases (RAC) in Grid environments. Describes SQLJ programming and the latest Oracle SQLJ 10g features , contrasting it with JDBC. Describes the latest Database Web services features, Web services concepts and Services Oriented Architecture (SOA) for DBA, the database as Web services provider and the database as Web services consumer. Abridged coverage of JPublisher 10g, a versatile complement to JDBC, SQLJ and Database Web Services.

Master Cloud Computing with Oracle Enterprise Manager 12c Gain organizational agility, foster innovation, and lower TCO by adopting a service-oriented, cloud-based IT solution. Building and Managing a Cloud Using Oracle Enterprise Manager 12c thoroughly explains how to architect, configure, and manage components of a public or private cloud lifecycle. Discover how to choose the right architecture, deploy applications, govern self-service provisioning, monitor users, and implement security. This Oracle Press guide features best practices and case studies from the authors' experiences as Oracle product managers. Plan and deploy a flexible cloud infrastructure Configure Oracle Enterprise Manager 12c Self Service Portal Bundle applications using Oracle Virtual Assembly Builder Set up, manage, and monitor IaaS, PaaS, and DBaaS Meter usage and establish chargeback policies Work with large-scale clouds and enforce compliance Manage cloud service levels Diagnose and repair bottlenecks and faults

Implementing Oracle API Platform Cloud Service moves from theory to practice using the newest Oracle API management platform. This critical new platform for Oracle developers allows you to interface the complex array of services your clients expect in the modern world.

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

Use this comprehensive guide to get started with the Oracle Cloud Free Tier. Reading this book and creating your own application in the Free Tier is an excellent way to build familiarity with and expertise in Oracle Cloud Infrastructure. Even better is that the Free Tier by itself is capable enough and provides all the ingredients needed for you to create secure and robust, multi-tiered web

applications of modest size. Examples in this book introduce the broad suite of Always Free options that are available from Oracle Cloud Infrastructure. You will learn how to provision autonomous databases and autonomous Linux compute nodes. And you will see how to use Terraform to manage infrastructure as code. You also will learn about networking options and application deployment, including how to create and deploy public-facing Application Express solutions and three-tier web applications on a foundation of Oracle REST Data Services. The book also includes a solid introduction to predictive analytics through Oracle Machine Learning Notebooks and Apache Zeppelin. Cloud computing is a strong industry trend. Mastering the content in this book leaves you well-positioned to make the transition into providing and supporting cloud-based applications and databases. You will have the knowledge and skills that you need to deploy modest applications along with a growing understanding of Oracle's Cloud platform that will serve you well as you go beyond the limits of the Always Free options and take full advantage of all that Oracle Cloud Infrastructure can offer. What You Will Learn Know which resources are available for free forever from Oracle Cloud Infrastructure Host, manage, and monitor web applications using the freely available components Provision and manage Autonomous Databases and Autonomous Linux Compute Nodes Perform rudimentary predictive analytics using Oracle Machine Learning Notebooks Automate and manage your infrastructure as code using Terraform Monitor and manage costs when you grow beyond the Always Free platform Who This Book Is For Database administrators and application developers who want to learn about Oracle's cloud offerings, application developers seeking a robust platform on which to build and deploy modest applications at zero cost, and developers and administrators interested in exploring Oracle Application Express running on a self-managing, self-tuning Oracle Database

Develop enterprise architect skills by building secure, highly available, and cost-effective solutions with Oracle Functions, Terraform, and the Oracle Cloud VMware Solution Key Features Explore Oracle's Gen 2.0 Cloud infrastructure and its high-performance computing capabilities Understand hybrid cloud capabilities and learn to migrate apps from on-premises VMware clusters to OCI Learn to create Kubernetes clusters and run containerized applications on Oracle's Container Engine Book Description Oracle Cloud Infrastructure (OCI) is a set of complementary cloud services that enables you to build and run a wide range of applications and services in a highly available hosted environment. This book is a fast-paced practical guide that will help you develop the capabilities to leverage OCI services and effectively manage your cloud infrastructure. Oracle Cloud Infrastructure for Solutions Architects begins by helping you get to grips with the fundamentals of Oracle Cloud Infrastructure, and moves on to cover the building blocks of the layers of Infrastructure as a Service (IaaS), such as Identity and Access Management (IAM), compute, storage, network, and database. As you advance, you'll delve into the development aspects of OCI, where you'll learn to build cloud-native applications and perform operations on OCI resources as well as use the CLI, API, and SDK. Finally, you'll explore the capabilities of building an Oracle hybrid cloud infrastructure. By the end of this book, you'll have learned how to leverage the OCI and gained a solid understanding of the persona of an architect as well as a developer's perspective. What you will learn Become well-versed with the building blocks of OCI Gen 2.0 Cloud Control access to your cloud resources using IAM components Manage and operate various compute instances Tune and configure various storage options for your apps Develop applications on OCI using OCI Registry (OCIR), Cloud Shell, OCI Container Engine for Kubernetes (OKE), and Service Mesh Discover ways to use object-relational mapping (ORM) to create infrastructure blocks using Terraform code Who this book is for This book is for cloud architects, cloud developers, and DevSecOps engineers who want to learn how to architect and develop on Oracle Cloud Infrastructure by leveraging a wide range of OCI IAAS capabilities. Working knowledge of Linux, exposure to basic programming, and a basic understanding of networking concepts are needed to get the most out of this book.

This practical Oracle Press guide teaches cutting-edge techniques for building, configuring, and managing a secure private database cloud with Oracle Enterprise Manager 13c This hands-on volume lays out ready-to-deploy roadmaps for the design and maintenance of high-performance private database clouds using Oracle Enterprise Manager 13c. Learn best practices for a wide variety of different approaches—Database as a Service, Snap Clone as a Service, Schema as a Service, and Pluggable Database as a Service. Oracle Private Cloud Cookbook with Enterprise Manager 13c thoroughly explains how to architect, configure, and manage every component in a private database cloud lifecycle. You will get an insider's solutions for securing your cloud-based infrastructure, generating reliable RMAN backups, and protecting your mission-critical enterprise information using Oracle Data Guard. This comprehensive volume from Oracle Press features detailed, step-by-step instructions with multiple screen shots and diagrams that illustrate each technique along the way. Real-world examples and case studies illustrate applications in various industries Offers essential skills for cloud administrators and DBAs Author is an Oracle Certified Master, previous ACE director, and experienced computing writer

Oracle Analytics Cloud is a full Business Intelligence platform that allows companies to store and calculate data and display it in beautiful visualizations. OAC provides intuitive visual interactions, self-service data discovery, and powerful analytic capabilities. This Cloud solution will reduce your analytics and administration time, increase the timeliness of information, draw out key information elements important to your organization, and improve business decisions. You will learn: Steps to setup your Oracle Analytics Cloud instance How to build Essbase Cloud cubes from start to finish: Creating cubes with unstructured formats and Application Workbook Excel templates in both the Cube Designer and web interface Maintaining dimensions and loading data Creating calculation scripts and calculating data Assigning security Performing ad hoc analysis in Excel How to create insightful data visualizations Administration and automation Migration steps to and from on-premises

Database developers and administrators will use this book to learn how to deploy machine learning models in Oracle Database and in Oracle's Autonomous Database cloud offering. The book covers the technologies that make up the Oracle Machine Learning (OML) platform, including OML4SQL, OML Notebooks, OML4R, and OML4Py. The book focuses on Oracle Machine Learning as part of the Oracle Autonomous Database collaborative environment. Also covered are advanced topics such as delivery and automation pipelines. Throughout the book you will find practical details and hand-on examples showing you how to implement machine learning and automate deployment of machine learning. Discussion around the examples helps you gain a conceptual understanding of machine learning. Important concepts discussed include the methods involved, the algorithms to choose from, and mechanisms for process and deployment. Seasoned database professionals looking to make the leap into machine learning as a growth path will find much to like in this book as it helps you step up and use your current knowledge of Oracle Database to transition into providing machine learning solutions. What You Will Learn Use the Oracle Machine Learning (OML) Notebooks for data visualization and machine learning model building and evaluation Understand Oracle offerings for machine learning Develop machine learning with Oracle database using the built-in machine[[YK1](#)] learning packages Develop and

deploy machine learning models using OML4SQL and OML4R Leverage the Oracle Autonomous Database and its collaborative environment for Oracle Machine Learning Develop and deploy machine learning projects in Oracle Autonomous Database Build an automated pipeline that can detect and handle changes in data/model performance Who This Book Is For Database developers and administrators who want to learn about machine learning, developers who want to build models and applications using Oracle Database's built-in machine learning feature set, and administrators tasked with supporting applications on Oracle Database that make use of the Oracle Machine Learning feature set

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

Get the domain knowledge you need to develop real-world business apps for and in the cloud. You'll see how Oracle APEX has made the life of web developers much easier and how it helps you create web-based data-centric applications easily and instantly without writing screeds of code. In Cloud Computing Using Oracle Application Express, you will develop a complete general ledger accounting system named the Cloud Accountant which will be accessible through a variety of devices including desktops, laptops, and the latest smartphones. This new edition also incorporates the new application page creation process, which differs from the previous version. You'll cover other new areas, such as the updated UI elements and properties, and the interactive grid. Besides the development of a full application that you can deploy in your organization, the book teaches many new techniques to further enhance your APEX development skills. What You Will Learn Discover new development techniques for APEX developers Develop cloud-based ERP applications Build a cloud-based application on Oracle APEX Integrate the free JasperReports server and report designing tool with Oracle APEX Who This Book Is For Web developers who possess some working knowledge of Oracle Application Express, and developers who have been using Oracle Forms and now wish to use their existing SQL and PL/SQL expertise.

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

Linux Recipes for Oracle DBAs is an example-based book on managing Oracle Database in a Linux environment. Covering commonly used distributions such as Red Hat Enterprise Linux and Oracle Enterprise Linux, the book is written for database administrators who need to get work done and lack the luxury of curling up fireside with a stack of Linux documentation. The book is task-oriented: Look up the task to perform. See the solution. Read up on the details. Get the job done. Takes you directly from problem to solution Covers the "right" mix of Linux user and administration tasks for database administrators Respects your time by being succinct and to-the-point What you'll learn Execute Linux commands applicable to Oracle Database administration. Write shell scripts to automate critical DBA tasks. Monitor, tune, and optimize a Linux server to run Oracle Database. Perform Linux system administration tasks relevant to Oracle Database. Implement Oracle real application clusters on Linux. Implement Oracle automatic storage management on Linux. Remotely (and securely!) manage Oracle on Linux. Who this book is for Linux Recipes for Oracle DBAs is a book for Oracle database administrators who want to expertly operate Oracle databases on the Linux operating system. If you're new to Linux, or are migrating from a Unix platform, or just want detailed solutions for tasks that Oracle DBAs perform on Linux servers, this book is for you.

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

* A detailed tutorial that takes you from no knowledge of Oracle programming to mastery, teaching you how to write correct, production quality code right from the start. * A clear, step-by-step guide to every aspect of programming the Oracle database, with practical programming techniques and troubleshooting advice from Oracle experts. * Provides an extensive SQL toolkit to tackle common day-to-day database tasks

Succeed in managing Oracle Application Express (APEX) environments. This book focuses on creating the right combination of scalability, high-availability, backup and recovery, integrity, and resource control. The book covers everything from simple to enterprise-class

deployments, with emphasis on enterprise-level requirements and coverage of cloud and hybrid-cloud scenarios. Many books cover how to develop applications in Oracle APEX. It's a tool with a fast-growing user-base as developers come to know how quick and easy it is to create new applications that run in a browser. However, just getting an application off the ground is only a small part of a bigger picture. Applications must be supported. They must be available when users need them. They must be robust against disaster and secure against malicious attack. These are the issues addressed in Oracle Application Express Administration. These are the issues that when tackled successfully lead to long term success in using Oracle APEX as a rapid application-development toolset. Readers of this book learn how to install the Oracle APEX engine in support of small-scale projects such as at the departmental level, and in support of enterprise-level projects accessed by thousands of users across dozens of time zones. Readers learn to take advantage of Oracle Database's underlying feature set in regards to application scalability and performance, integrity, security, high-availability, and robustness against failure and data loss. Oracle Application Express Administration also describes different cloud solutions, integration with Oracle E-Business Suite, and helps in taking advantage of multitenancy in Oracle Database 12c and beyond. Covers important enterprise considerations such as scalability, robustness, high-availability. Describes cloud-based application deployment scenarios Focuses on creating the right deployment environment for long-term success What You Will Learn Install, upgrade, and configure robust APEX environments Back up and recover APEX applications and their data Monitor and tune the APEX engine and its applications Benefit from new administration features in APEX 5.0 Run under multi-tenant architecture in Oracle Database 12c Manage the use of scarce resources with Resource Manager Secure your data with advanced security features Build high-availability into your APEX deployments Integrate APEX with Oracle E-Business Suite Who This Book Is For Architects, administrators, and developers who want to better understand how APEX works in a corporate environment. Readers will use this book to design deployment architectures around Oracle Database strengths like multi-tenancy, resource management, and high availability. The book is also useful to administrators responsible for installation and upgrade, backup and recovery, and the ongoing monitoring of the APEX engine and the applications built upon it.

Understand everything you need to know about Oracle's Integration Cloud Service and how to utilize it optimally for your business About This Book The only guide to Integration Cloud Service in the market Focused on practical action to deliver business value A professional's guide to an expensive product, providing comprehensive training, and showing how to extract real business value from the product Who This Book Is For This book is ideal for any IT professional working with ICS, any Oracle application or cloud solution developer or analyst who wants to work with ICS to deliver business value. What You Will Learn Use ICS to integrate different systems together without needing to be a developer Gain understanding of what a number of technologies and standards provide – without needing to understand the fine details of those standards and technologies Understand the use of connectors that Oracle provide from technology based connections such as file and database connections to SaaS solutions ranging from Salesforce to Twitter Enrich data and extend SaaS integration to route to different instances Utilize a number of tools to help develop and check that your integrations work before connecting to live systems Introduce and explain integration concepts so that the integrations created are maintainable and sustainable for the longer term Provide details on how to keep up to date with the features that Oracle and partners provide in the future Get special connections developed to work with ICS In Detail Businesses are built on data, and applications that access that data. In modern businesses the same cloud-based data stores and applications might be accessed by hundreds of different applications from thousands of different devices via APIs. To make this happen, APIs must be wired together i.e. integrated. Oracle Integration Cloud Service provides a complete method for integrating enterprise applications in the cloud. Integration Cloud Service (ICS) provides a cloud hosted means to integrate systems together using a graphical means to define and represent integrations. This book will be a comprehensive, hands-on guide to building successful, high-availability integrations on ICS. This book sets out to demonstrate how ICS can be used to effectively implement integrations that work both in the cloud and on premise. It starts with a fast, practical introduction to what ICS can do for your business and then shows how ICS allows you to develop integrations not only quickly but in a way that means they are maintainable and extensible. Gradually it moves into more advanced integrations, showing how to achieve sophisticated results with ICS and work with external applications. Finally the book shows you how to monitor cloud apps and go beyond ICS to build even more powerful integrated applications. By the end of the book, you will the knowledge on how to use ICS to solve your own integration needs and harness the technologies in a maintainable and sustainable manner. Style and approach This book will take a pragmatic approach and will be a business-focused guide to delivering business value with ICS.

Oracle ASM continues to be the best practice to implementing Oracle Databases. Whether you are leveraging a single instance database or a clustered database with RAC, you can benefit from the real-life examples to administering and maintaining ASM from this book.

Consolidated by Charles Kim and Nitin Vengurlekar, this pocket reference guide is loaded with command line interface syntax for Oracle ASM 11g Release 2 or Oracle ASM 12c. It does not matter if you are a newbie to ASM or a long time veteran, this pocket reference guide is packed with relevant tidbits. Both Charles and Nitin have combined experiences of over 48 years of Oracle experience and are authors of many Oracle books. Charles is the Founder and President of Viscosity North America and Nitin is the Chief Technology Officer. They are subject matter experts of RAC/ASM/Exadata technologies.

Server bottlenecks and failures are a fact of life in any database deployment, but they don't have to bring everything to a halt. This practical book explains replication, cluster, and monitoring features that can help protect your MySQL system from outages, whether it's running on hardware, virtual machines, or in the cloud. Written by engineers who designed many of the tools covered, this book reveals undocumented or hard-to-find aspects of MySQL reliability and high availability—knowledge that's essential for any organization using this database system. This second edition describes extensive changes to MySQL tools. Versions up to 5.5 are covered, along with several 5.6 features. Learn replication fundamentals, including use of the binary log and MySQL Replicant Library Handle failing components through redundancy Scale out to manage read-load increases, and use data sharding to handle large databases and write-load increases Store and replicate data on individual nodes with MySQL Cluster Monitor database activity and performance, and major operating system parameters Keep track of masters and slaves, and deal with failures and restarts, corruption, and other incidents Examine tools including MySQL Enterprise Monitor, MySQL Utilities, and GTIDs

This brilliant new book gives readers the lowdown on the most important new features in the latest release of Oracle's flagship database product. Authors Sam Alapati and Charles Kim are experienced database administrators who go beyond regurgitating Oracle's new feature documentation to report on "what's new that really matters." Readers whose careers are bound up in Oracle's database system need to know what's new. Sam and Charles deliver with a rigor and candor that will help readers choose the best of the new features to apply in their own environments.

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.

Build and deploy an attractive, user-friendly web or mobile application in one day or less using Oracle's new, low-code development tool: Visual Builder Cloud Service. Today's IT world is fast-paced, and the ability to rapidly deliver running code is the most crucial and sought-after skill a developer can have. Oracle has brought together their enterprise experience, advanced usability knowledge, and their best cloud engineering to produce an innovative platform giving developers unprecedented productivity. You will learn how to use all aspects of Oracle Visual Builder Cloud Service to build web or mobile applications. Using the fully browser-based development environment, you'll gain experience with all the modern user-interface components that the tool offers for a visual, user-interface-driven, development approach. You'll also see how to use the integrated data management capabilities and existing REST data services to store your data, and learn how to easily transfer applications to a test/staging environment and later to production, while continuing to develop the next version in the development environment. What You'll Learn Build great-looking web and mobile applications in a browser-based, visual design environment Define custom business logic in the visual logic editor or with JavaScript Manage multiple concurrent application versions from development through staging and production Define business objects with validation logic for application-specific data Communicate with, and draw data from, existing REST web services Use Visual Builder Cloud Service to expand Oracle SaaS solutions Who This Book Is For Developers at all expertise levels as well as business professionals and UX designers with an interest in using IT to quickly solve simple business problems. Because this tool is based on a modern low-code approach, no prior programming experience is necessary to benefit from the book.

Demystifying the power of the Oracle 12c database The Oracle database is the industry-leading relational database management system (RDMS) used from small companies to the world's largest enterprises alike for their most critical business and analytical processing. Oracle 12c includes industry leading enhancements to enable cloud computing and empowers users to manage both Big Data and traditional data structures faster and cheaper than ever before. Oracle 12c For Dummies is the perfect guide for a novice database administrator or an Oracle DBA who is new to Oracle 12c. The book covers what you need to know about Oracle 12c architecture, software tools, and how to successfully manage Oracle databases in the real world. Highlights the important features of Oracle 12c Explains how to create, populate, protect, tune, and troubleshoot a new Oracle database Covers advanced Oracle 12c technologies including Oracle Multitenant—the "pluggable database" concept—as well as several other key changes in this release Make the most of Oracle 12c's improved efficiency, stronger security, and simplified management capabilities with Oracle 12c For Dummies.

Administer Configure Oracle Database in 'The Cloud' Step by Step Approach Cloud adoption in the database world is growing very rapidly. Various research and studies forecast the DBaaS and cloud database service market to grow at a compound annual growth rate (CAGR) of more than 65% by 2019. Currently available books cover either cloud computing or database administration, but not both. This book bridges the gap. The book is divided into two parts. Part I covers the cloud computing concepts and database as a service overview, whereas Part II covers everything that is required for you to become a cloud DBA. Part II starts from your first database provisioning in the cloud and then moves to setting up Oracle RAC and DataGuard in the cloud. The chapter on database migration to the cloud gives you in-depth details around how to plan and execute DB migration. The chapter on DB security touches on the key security aspects that you should take care for your cloud-based database. The backup and recovery chapter covers various backup and recovery options in Oracle cloud and AWS. The manage and monitor chapter covers details on all the tools that are useful for performing day-to-day monitoring and administration. Part II covers DB administration aspects from the two most prominent cloud providers—Oracle Cloud and Amazon Web Services (AWS). This book has the right balance of theory and practical examples, along with the best practices in each given area. Database administrators, DB architects, and DB operations managers can use this book to learn and understand the process of running Oracle database in the cloud. As Cloud Computing has evolved and matured, it has sparked growing interest from the enterprise market where economic pressures are challenging traditional IT operations. Many companies and government agencies are being faced with growing IT costs that originate from multiple sources such as legacy systems, software licensing, power consumption, and operating overhead. Cloud Computing, either through Private or Public cloud initiatives, is focused on addressing these issues by reducing costs through better standardization, higher utilization, greater agility, and faster responsiveness of IT services. Oracle is heavily invested in cloud initiatives and is looking to be one of the leaders in the magic quadrant. Oracle is aiming at contending for the AWS market share just like Microsoft Azure was able to obtain. Oracle has planted data centers in strategic locations all over the world for their cloud infrastructure. Oracle has strong offerings in SaaS, PaaS and IaaS. In the SaaS space, Oracle already had a strong presence. Even though Oracle continues to invest in their SaaS environment, Oracle has invested significantly in the past couple of years to capture more of the market in the PaaS and IaaS space. This book will address Oracle Cloud fundamentals, Storage Cloud, Database Cloud, and Oracle Database Backup Cloud, as a quick go-to reference guide, as seen by industry experts If you have mastered the fundamentals of the PL/SQL language and are now looking for an in-depth, practical guide to solving real problems with PL/SQL stored procedures, then this is the book for you.

Using real-world examples and hands-on tasks, Oracle Data Guard 11gR2 Administration Beginner's Guide will give you a solid foundation in Oracle Data Guard. It has been designed to teach you everything you need to know to successfully create and operate Data Guard environments with maximum flexibility, compatibility, and effectiveness. If you are an Oracle database administrator who wants to configure and administer Data Guard configurations, then "Oracle Data Guard 11gR2 Administration Beginner's Guide" is for you. With a basic understanding of Oracle database administration,

you'll be able to easily follow the book.

Follow this guide that explains Oracle's Infrastructure as a Service (IaaS) cloud solution and the tools and capabilities that can help you increase business value, productivity, and performance. You will learn about economic advantages as well as elasticity, unlimited storage, and on-demand capacity computing. Oracle IaaS: Quick Reference Guide to Cloud Solutions covers Oracle's service structure as well as its cloud service offerings and cloud models. It provides detailed guidance regarding the advantages of the specific models, as well as how to create and manage each service. This book contains many real-world case studies, including how to build and configure compute resources to fit the needs of your specific organization. IaaS product offerings covered in this book include: Oracle Compute Cloud Oracle Storage Cloud Oracle Ravello Cloud Oracle Container Cloud What You'll Learn Understand Oracle IaaS products and Oracle Cloud Compare existing Oracle cloud products Discover IaaS new features Master Oracle Cloud Architecture Who This Book Is For Oracle database administrators, Oracle developers, and other developers looking to build cloud-based applications. Chaos Engineering teaches you to design and execute controlled experiments that uncover hidden problems. Summary Auto engineers test the safety of a car by intentionally crashing it and carefully observing the results. Chaos engineering applies the same principles to software systems. In Chaos Engineering: Site reliability through controlled disruption, you'll learn to run your applications and infrastructure through a series of tests that simulate real-life failures. You'll maximize the benefits of chaos engineering by learning to think like a chaos engineer, and how to design the proper experiments to ensure the reliability of your software. With examples that cover a whole spectrum of software, you'll be ready to run an intensive testing regime on anything from a simple WordPress site to a massive distributed system running on Kubernetes. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Can your network survive a devastating failure? Could an accident bring your day-to-day operations to a halt? Chaos engineering simulates infrastructure outages, component crashes, and other calamities to show how systems and staff respond. Testing systems in distress is the best way to ensure their future resilience, which is especially important for complex, large-scale applications with little room for downtime. About the book Chaos Engineering teaches you to design and execute controlled experiments that uncover hidden problems. Learn to inject system-shaking failures that disrupt system calls, networking, APIs, and Kubernetes-based microservices infrastructures. To help you practice, the book includes a downloadable Linux VM image with a suite of preconfigured tools so you can experiment quickly—without risk. What's inside Inject failure into processes, applications, and virtual machines Test software running on Kubernetes Work with both open source and legacy software Simulate database connection latency Test and improve your team's failure response About the reader Assumes Linux servers. Basic scripting skills required. About the author Mikolaj Pawlikowski is a recognized authority on chaos engineering. He is the creator of the Kubernetes chaos engineering tool PowerfulSeal, and the networking visibility tool Goldpinger. Table of Contents 1 Into the world of chaos engineering PART 1 - CHAOS ENGINEERING FUNDAMENTALS 2 First cup of chaos and blast radius 3 Observability 4 Database trouble and testing in production PART 2 - CHAOS ENGINEERING IN ACTION 5 Poking Docker 6 Who you gonna call? Syscall-busters! 7 Injecting failure into the JVM 8 Application-level fault injection 9 There's a monkey in my browser! PART 3 - CHAOS ENGINEERING IN KUBERNETES 10 Chaos in Kubernetes 11 Automating Kubernetes experiments 12 Under the hood of Kubernetes 13 Chaos engineering (for) people [Copyright: 649206a6469374a71742317cf64f88d7](#)