

# Cloud Based Database Solutions

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High Availability for Database Systems in Geographically Distributed Cloud Computing Environments Packt Publishing Ltd

Cloud computing is an emerging technology which is adopted by various institutions and organizations. The new establishing companies might preferring this technology for their office automation and making logs and databases of their employees due to its variant features like pay per use, availability of the services. Cloud computing has become a great solution for providing a flexible, on-demand, and dynamically scalable computing infrastructure for many applications. Cloud computing also presents a significant technology trends, and it is already obvious that it is reshaping information technology processes and the IT marketplace

**Google Cloud Platform for Architects** Apress

"The promise of cloud computing is here. These pages provide the 'eyes wide open' insights you need to transform your business." --Christopher Crowhurst, Vice President, Strategic Technology, Thomson Reuters A Down-to-Earth Guide to Cloud Computing Cloud Computing: A Practical Approach provides a comprehensive look at the emerging paradigm of Internet-based enterprise applications and services. This accessible book offers a broad introduction to cloud computing, reviews a wide variety of currently available solutions, and discusses the cost savings and organizational and operational benefits. You'll find details on essential topics, such as hardware, platforms, standards,

migration, security, and storage. You'll also learn what other organizations are doing and where they're headed with cloud computing. If your company is considering the move from a traditional network infrastructure to a cutting-edge cloud solution, you need this strategic guide. Cloud Computing: A Practical Approach covers: Costs, benefits, security issues, regulatory concerns, and limitations Service providers, including Google, Microsoft, Amazon, Yahoo, IBM, EMC/VMware, Salesforce.com, and others Hardware, infrastructure, clients, platforms, applications, services, and storage Standards, including HTTP, HTML, DHTML, XMPP, SSL, and OpenID Web services, such as REST, SOAP, and JSON Platform as a Service (PaaS), Software as a Service (SaaS), and Software plus Services (S+S) Custom application development environments, frameworks, strategies, and solutions Local clouds, thin clients, and virtualization Migration, best practices, and emerging standards

**The Art of Network Architecture** Jones & Bartlett Learning

A comprehensive innovative product handbook for managers designing and deploying enterprise business solutions. KEY FEATURES ? Covers proven technical approaches in migrating your enterprise systems to Oracle Cloud Computing. ? A handbook for decision-makers on using Oracle Product Suite for digital transformation. ? Understand the Oracle product benefits and leveraging capital investment to avail great measurable ROI and TCO. DESCRIPTION The Oracle Enterprise Architecture Framework emerges from the on-site legacy to current cloud native and is called Modern Oracle Enterprise Architecture. It aims to clear the path for critical business application workloads in the field of database and the application architecture to hybrid and cloud applications. This is a very handy book for chief decision-makers and professional cloud solution engineers. As the current cloud computing services are agile and pay-as-you-go (PAYG)

based subscription including multi-year cost model thus a more agile approach is covered throughout the book. This book will help readers to achieve their database and application system solution architecture career objectives more quickly without spending years. The readers can prevent committing errors, recovering from them, and learning things the hard way. This book lists critical attributes and methods to develop, including improvement of business-friendly case formulation. It also includes the development of a solution approach in creative and innovative technological breakthroughs developed by product companies over the last three decades. WHAT YOU WILL LEARN ? 360-degree view of Oracle database and application products. ? Transition to hybrid cloud identity services via Oracle Identity Cloud platform. ? Understand and implement Oracle accessibility and architecture observability. ? Get to know the benefits of leveraging Oracle Autonomous Shared and dedicated services. ? Manage, automate, and upgrade the cloud databases using Oracle fleet management. ? Automate sitewide failover and switchover operations using Oracle siteguard. WHO THIS BOOK IS FOR This book is for decision-makers, business architects, system development teams, technological professionals and product teams who want to use the Oracle stack's hidden capabilities to develop, manage and keep enhancing enterprise systems. TABLE OF CONTENTS 01. Artificial Intelligence for Cloud Computing 02. Business? ?Benefits? ?of? ?Migrating? ?and ?Operating? on? ?Oracle? ?Cloud? 03. Move and Optimize the Cost for Oracle E-Business Suite on Cloud Compute 04. Contemplating? IaaS,? ?PaaS?, ?and ?SaaS? ?Migration? ? ?for? On-Premise? ? ?Legacy? ?Systems? 05. Oracle? ?Autonomous? ?Dedicated? ?for? ?Oracle? ?E-Business? ?Suite? ?Customers? 06. Benefits of Oracle PeopleSoft with Autonomous Database Dedicated and Shared 07. Oracle? ?Autonomous? ?Dedicated? ?for? ?Oracle? ?E-Business? ?Suite? ?Customers? 08. Oracle Agile Maximum-Security Architecture (AMSA) 09. Agile? ?Accessibility? and ?Observability? ?Architecture? ?Agile? ?AOA? ?(AAOA)? 10. Fleet Management for On-Premises and Cloud (DBaaS and IaaS) Database Stack 11. Identity transition from Identity Manager (IDM) to Universal Directory (OUD) and Identity Cloud Suite 12. Decision? ?Analysis? Resolution? ?(DAR)? ?for? ?Oracle? ?E-Business? ?Suite? on? ?Cloud? ?Compute? 13. Hidden Jewel on Oracle Crown. Oracle Enterprise Manager Site Guard Use Cases: 14. Case Study One Oracle E-Business Suite Migration to OCI with Business Continuity Site 15. Case Study Two. Oracle E-Business Suite Migration to OCI with Business Continuity Site 16. Case Study Three. Oracle Universal Directory Installation and Configuration

Pro SQL Database for Windows Azure IGI Global  
Mobile Cloud Computing: Models, Implementation, and Security provides a comprehensive introduction to mobile cloud computing, including key concepts, models, and relevant applications. The book focuses on novel and advanced algorithms, as well as mobile app development. The book begins with an overview of mobile cloud computing concepts, models, and service deployments, as well as specific cloud service models. It continues with the basic mechanisms and principles of mobile computing, as well as virtualization techniques. The book also introduces mobile cloud computing architecture, design, key techniques, and challenges. The second part of the book covers optimizations of data processing and storage in mobile clouds, including performance and green clouds. The crucial optimization algorithm in mobile cloud computing is also explored, along with big data and service computing. Security issues in mobile cloud computing are covered in-depth, including a brief introduction to security and privacy issues and threats, as well as privacy protection techniques in mobile systems. The last part of the book features the integration of service-oriented architecture with mobile cloud computing. It discusses web service specifications related to implementations of mobile cloud computing. The book not only presents critical concepts in mobile cloud systems, but also drives readers to deeper research, through open discussion questions. Practical case studies are also included. Suitable for graduate students and professionals, this book provides a detailed and timely overview of mobile cloud computing for a broad range of readers.  
Beginning ASP.NET 4.5 Databases Pearson IT Certification

This book constitutes the refereed proceedings of the 12th International Conference entitled Beyond Databases, Architectures and Structures, BDAS 2016, held in Ustroń, Poland, in May/June 2016. It consists of 57 carefully reviewed papers selected from 152 submissions. The papers are organized in topical sections, namely artificial intelligence, data mining and knowledge discovery; architectures, structures and algorithms for efficient data processing; data warehousing and OLAP; natural language processing, ontologies and semantic Web; bioinformatics and biomedical data analysis; data processing tools; novel applications of database systems.

The Connectivity of Innovation in the Construction Industry Springer

This book constitutes the refereed proceedings of the 6th IFIP WG 5.5/SOCOLNET Doctoral Conference on Computing, Electrical and Industrial Systems, DoCEIS 2015, held in Costa de Caparica, Portugal, in April 2015. The 54 revised full papers were carefully reviewed and selected from 119 submissions. The papers present selected results produced in engineering doctoral programs and focus on development and application of cloud-based engineering systems. Research results and ongoing work are presented, illustrated and discussed in the following areas: collaborative networks; cloud-based manufacturing; reconfigurable manufacturing; distributed computing and embedded systems; perception and signal processing; healthcare; smart monitoring systems; and renewable energy and energy-related management, decision support, simulation and power conversion.

Administering Relational Databases on Microsoft Azure Jones & Bartlett Learning  
"This book clarifies the present fast-advancing literature of the current state of art and knowledge in the areas of the development and reuse of reusable assets in emerging software systems and applications"--Provided by publisher.

Professional SharePoint 2010 Cloud-Based Solutions IGI Global

Cloud technologies have revolutionized the way we store information and perform various computing tasks. With the rise of this new technology, the ability to secure information stored on the cloud becomes a concern. The Handbook of Research on Securing Cloud-Based Databases with Biometric Applications explores the latest innovations in promoting cloud security through human authentication techniques. Exploring methods of access by identification, including the analysis of facial features, fingerprints, DNA, dental characteristics, and voice patterns, this publication is designed especially for IT professionals, academicians, and upper-level students seeking current research surrounding cloud security.

Technological Innovation for Cloud-Based Engineering Systems Springer Nature  
Cloud storage service is currently becoming a very popular solution for medium-sized and startup companies. However, there are still few suitable solutions being offered to deploy transactional databases in a cloud platform. The maintenance of ACID (Atomicity, Consistency, Isolation and Durability) properties is the primary obstacle to the implementation of transactional cloud databases. The main features of cloud computing: scalability, availability and reliability are achieved by sacrificing consistency. The cost of consistency is one of the key issues in cloud transactional databases that must be addressed. While different forms of consistent states have been introduced, they do not address the needs of many database applications. In this dissertation we propose a tree-based consistency approach, called TBC, that reduces interdependency among replica servers to minimize the response time of cloud databases and to maximize the performance of those applications. We compare different techniques of maintaining consistency, including the classic approach, the quorum approach and our tree-based consistency approach. We identify the key controlling parameters of consistency maintenance in cloud databases and study the behavior of the different techniques with respect to those

parameters. Experimental results indicate that our TBC approach reduces interdependency between data replicas and has good performance. We also implement a transaction management system using TBC as the consistency approach. We have designed a hierarchical lock manager that is able to work at a variable granularity level and allow much more concurrent access to the data items than regular lock managers. The TBC transaction management system ensures serializability and guarantees the ACID properties. The common isolation problems in transaction management are prevented, and we prove that the scenarios of dirty read, unrepeatable read and dirty write or lost update will never occur in concurrent execution of the transactions. We also present an efficient auto-scaling feature for the proposed transaction manager. Our experimental results shows that TBC has better response time than other approaches regardless of the arrival rate, read-write ratio, variation in data selection preference or database size. The Tree-Based Consistency approach is a viable solution for ACID transactional database management in a cloud.  
OpenStack Trove Essentials McGraw Hill Professional  
Discover how you can migrate a traditional on-premise SQL server database to a cloud-based solution with Microsoft Azure. Built with database administrators in mind, this book emulates different scenarios you might come across while working with large, complex SQL database migrations and provides solutions for effectively managing the migrated databases. Key Features Implement backup, restore, and recovery of Azure SQL databases Create shards and elastic pools to scale Azure SQL databases Automate common management tasks with PowerShell Implement over 40 practical activities and exercises across 24 topics to reinforce your learning Book Description As the cloud version of SQL Server, Azure SQL Database differs in key ways when it comes to management, maintenance, and administration. It's important to know how to administer SQL Database to fully benefit from all of the features and functionality that it provides. This book addresses important aspects of an Azure SQL Database instance such as migration, backup restorations, pricing policies, security, scalability, monitoring, performance optimization, high availability, and disaster recovery. It is a complete guide for database administrators, and ideal for those who are planning to migrate from on premise SQL Server database to an Azure SQL Server database. What you will learn Learn how to provision a new database or migrate an existing on-premise solution Understand how to backup, restore, secure, and scale your own

Azure SQL Database Optimize the performance by monitoring and tuning your cloud-based SQL instance Implement high availability and disaster recovery procedures with SQL Database Develop a roadmap for your own scalable cloud solution with Azure SQL Database Who this book is for This book is ideal for database administrators, database developers, or application developers who are interested in developing or migrating existing applications with Azure SQL Database. Prior experience of working with an on-premise SQL Server deployment and brief knowledge of PowerShell and C# are recommended prerequisites.

Professional Azure SQL Database Administration Apress

Get acquainted with GCP and manage robust, highly available, and dynamic solutions to drive business objective Key Features Identify the strengths, weaknesses and ideal use-cases for individual services offered on the Google Cloud Platform Make intelligent choices about which cloud technology works best for your use-case Leverage Google Cloud Platform to analyze and optimize technical and business processes Book Description Using a public cloud platform was considered risky a decade ago, and unconventional even just a few years ago. Today, however, use of the public cloud is completely mainstream - the norm, rather than the exception. Several leading technology firms, including Google, have built sophisticated cloud platforms, and are locked in a fierce competition for market share. The main goal of this book is to enable you to get the best out of the GCP, and to use it with confidence and competence. You will learn why cloud architectures take the forms that they do, and this will help you become a skilled high-level cloud architect. You will also learn how individual cloud services are configured and used, so that you are never intimidated at having to build it yourself. You will also learn the right way and the right situation in which to use the important GCP services. By the end of this book, you will be able to make the most out of Google Cloud Platform design. What you will learn Set up GCP account and utilize GCP services using the cloud shell, web console, and client APIs Harness the power of App Engine, Compute Engine, Containers on the Kubernetes Engine, and Cloud Functions Pick the right managed service for your data needs, choosing intelligently between Datastore, BigTable, and BigQuery Migrate existing Hadoop, Spark, and Pig workloads with minimal disruption to your existing data

infrastructure, by using Dataproc intelligently Derive insights about the health, performance, and availability of cloud-powered applications with the help of monitoring, logging, and diagnostic tools in Stackdriver Who this book is for If you are a Cloud architect who is responsible to design and manage robust cloud solutions with Google Cloud Platform, then this book is for you. System engineers and Enterprise architects will also find this book useful. A basic understanding of distributed applications would be helpful, although not strictly necessary. Some working experience on other public cloud platforms would help too.

AWS Certified Database - Specialty (DBS-C01) Certification Guide Packt Publishing Ltd Beginning Database Design Solutions Wiley Modern Oracle Enterprise Architecture Springer

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.

Database Consistency in Cloud Databases ASAP Systems

Cloud computing has experienced explosive growth and is expected to continue to rise in popularity as new services and applications become available. As with any new technology, security issues continue to be a concern, and developing effective methods to protect sensitive

information and data on the cloud is imperative. Cloud Security: Concepts, Methodologies, Tools, and Applications explores the difficulties and challenges of securing user data and information on cloud platforms. It also examines the current approaches to cloud-based technologies and assesses the possibilities for future advancements in this field. Highlighting a range of topics such as cloud forensics, information privacy, and standardization and security in the cloud, this multi-volume book is ideally designed for IT specialists, web designers, computer engineers, software developers, academicians, researchers, and graduate-level students interested in cloud computing concepts and security.

AWS MasterClass IGI Global

An authoritative guide to extending SharePoint's power with cloud-based services If you want to be part of the next major shift in the IT industry, you'll want this book. Melding two of the hottest trends in the industry—the widespread popularity of the SharePoint collaboration platform and the rapid rise of cloud computing—this practical guide shows developers how to extend their SharePoint solutions with the cloud's almost limitless capabilities. See how to get started, discover smart ways to leverage cloud data and services through Azure, start incorporating Twitter or LinkedIn into your solutions, find the best ways to secure everything, and much more. Shows developers how to use Microsoft SharePoint 2010 to create scalable, cloud-based solutions Melds the hottest new trend in the industry—developing, hosting, managing, or storing code in the cloud—with what SharePoint developers need to know to weave these technologies into their solutions Provides developer patterns, real-world examples, and invaluable walkthroughs Topics include SQL Azure for data management and BI, building an Azure-based corporate tax service, connecting Linked In and SharePoint profile data, creating a filterable Twitter dashboard, leveraging Bing Maps Geo services, maintaining security, and more SharePoint developers, discover exciting new ways to extend SharePoint's functionality with this practical and content-rich guide.

Cloud Computing: A Practical Approach McGraw Hill Professional

The development of Reliability and Maintenance theory and applications has become major concerns of engineers and managers engaged in order to design and product systems that are highly reliable. This book aims to cover the ongoing research topics in computer system, reliability analysis, reliability applications and maintenance policies, so as to provide awareness for those who engage systems design, being students, technicians, or research engineers, as a reference guidebook.

The Cloud DBA-Oracle "O'Reilly Media, Inc."

Build your own cloud based Database as a Service using OpenStack Trove About This Book Familiarize yourself with the concept of Database as a Service and make your existing system scalable and efficient with OpenStack Trove Minimize the administrative tasks and complexities of managing your cloud infrastructure This is a fast-paced guide to datastore management on the OpenStack platform using OpenStack Trove Who This Book Is For If you are a DBA / system administrator / architect, or a student who wants to build a Database as a Service based on OpenStack, this book is for you. You should have a basic knowledge of OpenStack components, RDBMS/NoSQL, IaaS, and cloud computing. What You Will Learn Get to grips with the basics of OpenStack and the prerequisites to install Trove Understand the expectations of DBaaS and how Trove can help you achieve them Set up a basic installation of DevStack (Development Stack) in a virtual box Install Trove and utilize its configuration groups to manage and tune databases Use Image builder to create guest images for Trove Utilize Trove to provision your first database instance Back up and restore your databases with the help of Trove In Detail OpenStack has become an extremely popular solution to build public and private clouds with. Database as a Service (DBaaS) enables the delivery of more agile database services at lower costs. Some other benefits of DBaaS are secure database deployments and compliance to standards and best practices. Trove is a DBaaS built on OpenStack and is becoming more popular by the day. Since Trove is one of the most recent projects of OpenStack, DBAs and system administrators can find it difficult to set up and run a DBaaS using OpenStack Trove. This book helps DBAs make that step. We start by introducing you to the concepts of DBaaS and how is it implemented using OpenStack Trove. Following this, we look at implementing OpenStack and deploying Trove. Moving on, you will learn to create guest images to be used with Trove. We then look at how to provision databases in self-service mode, and how to perform administration tasks such as backup and recovery, and fine-tuning databases. At the end of the book, we will examine some advanced features of Trove such as replication. Style and approach This fast-paced, step-by-step guide introduces you to DBaaS, OpenStack Trove, and its components, leading you through building your own Cloud-based DBaaS. Using the DevStack deployment method, you will

spend less time on installing OpenStack so you can devote more time to learning how to provision and manage databases in a DBaaS environment. Cloud-Based Solutions for Healthcare IT BPB Publications In Beginning Database Design Solutions: Understanding and Implementing Cloud Database Design Concepts, Second Edition, veteran author and award-winning instructor Rod Stephens focuses on helping DBAs and novice database developers understand and implement cloud database design requirements. A cloud database is a database service built and accessed through a cloud platform. It serves many of the same functions as a traditional database with the added flexibility of cloud computing. Users install software on a cloud infrastructure to implement the database. Benefits include: Can be managed by the user or offered as a database as a service (DBaaS) and managed by a provider Can support relational databases (including MySQL and PostgreSQL) and NoSQL databases (including MongoDB and Apache CouchDB) Access through a web interface or vendor-provided API Digital transformation is driving the need for well-designed cloud databases. One of the biggest transformational challenges facing enterprises today is the movement from on-premises computing to cloud computing, enabling people to access data quickly and reliably. Cloud databases need to be designed and developed to include several critical characteristics: global scale, cloud-readiness; mainframe-class consistency and reliability; operational simplicity; flexible development, and uncompromising security. This book provides IT professionals with thorough coverage of database concepts and also clear examples they can apply to their designs for cloud databases. As a bonus, all of the source code used in this book is available for download. As you work through the examples in this book, you may choose either to type in all the code manually or to use the source code files that accompany the book. Java Database Best Practices CRC Press Cloud computing is changing the way businesses and users interact with computers and mobile devices. Gone are the days of expensive data centers, racks of disk drives, and large IT support teams. In their place are software applications delivered to users on demand from the cloud, high-capacity, auto-replicated, secure cloud-based disk-storage and databases, virtualized-server and desktop environments, and cloud-based collaboration tools which support on-premise-, remote-, and hybrid-team success. Within the pages of Cloud Computing, readers will find a hands-on introduction to the cloud, which will have

them using cloud-based data storage to store personal documents and to share photos and other digital media with other users and their own various devices, performing cloud-based automated backups, and using other cloud-based applications by the end of Chapter 1! Readers will learn specifics about software as a service (SaaS), platform as a service (PaaS), infrastructure as a service (IaaS), server and desktop virtualization, and much more. Each chapter of the book presents a cloud topic, examines the underlying business case, and then takes the reader on a test drive. The chapters are filled with real-world case studies. The book's content is ideal for users wanting to migrate to the cloud, IT professionals seeking knowledge on cloud fundamentals, developers who will build the cloud solutions of the future, and CIOs wanting insights on the most recent cloud solutions. [Reliability Modeling With Computer And Maintenance Applications](#) John Wiley & Sons Updates the premier textbook for students and librarians needing to know the landscape of current databases and how to search them. Librarians need to know of existing databases, and they must be able to teach search capabilities and strategies to library users. This practical guide introduces librarians to a broad spectrum of fee-based and freely available databases and explains how to teach them. The updated 6th edition of this well-regarded text covers new databases on the market as well as updates to older databases. It also explains underlying information structures and demonstrates how to search most effectively. It introduces readers to several recent changes, such as the move away from metadata-based indexing to full text indexing by vendors covering newspaper content. Business databases receive greater emphasis. As in the previous editions, this book takes a real-world approach, covering topics from basic and advanced search tools to online subject databases. Each chapter includes a thorough discussion, a recap, concrete examples, exercises, and points to consider, making it an ideal text for courses in database searching as well as a trustworthy professional resource. Helps librarians and students understand the latest developments in library databases Looks not only at textual databases but also numerical, image, video, and social media resources Includes changes and trends in database functionality since the 5th edition