

# Cloud Computing And Databases

**Christian Tinnefeld**

Data Management in the Cloud Divyakant Agrawal, Sudipto Das, Amr El Abbadi, 2022-05-31 Cloud computing has emerged as a successful paradigm of service-oriented computing and has revolutionized the way computing infrastructure is used. This success has seen a proliferation in the number of applications that are being deployed in various cloud platforms. There has also been an increase in the scale of the data generated as well as consumed by such applications. Scalable database management systems form a critical part of the cloud infrastructure. The attempt to address the challenges posed by the management of big data has led to a plethora of systems. This book aims to clarify some of the important concepts in the design space of scalable data management in cloud computing infrastructures. Some of the questions that this book aims to answer are: the appropriate systems for a specific set of application requirements, the research challenges in data management for the cloud, and what is novel in the cloud for database researchers? We also aim to address one basic question: whether cloud computing poses new challenges in scalable data management or it is just a reincarnation of old problems? We provide a comprehensive background study of state-of-the-art systems for scalable data management and analysis. We also identify important aspects in the design of different systems and the applicability and scope of these systems. A thorough understanding of current solutions and a precise characterization of the design space are essential for clearing the cloudy skies of data management and ensuring the success of DBMSs in the cloud, thus emulating the success enjoyed by relational databases in traditional enterprise settings. Table of Contents: Introduction / Distributed Data Management / Cloud Data Management: Early Trends / Transactions on Co-located Data / Transactions on Distributed Data / Multi-tenant Database Systems / Concluding Remarks

**Big Data, Databases and "Ownership" Rights in the Cloud** Marcelo Corrales Compagnucci, 2019-11-02 Two of the most important developments of this new century are the emergence of cloud computing and big data. However, the uncertainties surrounding the failure of cloud service providers to clearly assert ownership rights over data and databases during cloud computing transactions and big data services have been perceived as imposing legal risks and transaction costs. This lack of clear ownership rights is also seen as slowing down the capacity of the Internet market to thrive. Click-through agreements drafted on a take-it-or-leave-it basis govern the current state of the art, and they do not allow much room for negotiation. The novel contribution of this book proffers a new contractual model advocating the extension of the negotiation

capabilities of cloud customers, thus enabling an automated and machine-readable framework, orchestrated by a cloud broker. Cloud computing and big data are constantly evolving and transforming into new paradigms where cloud brokers are predicted to play a vital role as innovation intermediaries adding extra value to the entire life cycle. This evolution will alleviate the legal uncertainties in society by means of embedding legal requirements in the user interface and related computer systems or its code. This book situates the theories of law and economics and behavioral law and economics in the context of cloud computing and takes database rights and ownership rights of data as prime examples to represent the problem of collecting, outsourcing, and sharing data and databases on a global scale. It does this by highlighting the legal constraints concerning ownership rights of data and databases and proposes finding a solution outside the boundaries and limitations of the law. By allowing cloud brokers to establish themselves in the market as entities coordinating and actively engaging in the negotiation of service-level agreements (SLAs), individual customers as well as small and medium-sized enterprises could efficiently and effortlessly choose a cloud provider that best suits their needs. This approach, which the author calls “plan-like architectures,” endeavors to create a more trustworthy cloud computing environment and to yield radical new results for the development of the cloud computing and big data markets.

Web-Scale Data Management for the Cloud Wolfgang Lehner,Kai-Uwe Sattler,2013-04-06 The efficient management of a consistent and integrated database is a central task in modern IT and highly relevant for science and industry. Hardly any critical enterprise solution comes without any functionality for managing data in its different forms. Web-Scale Data Management for the Cloud addresses fundamental challenges posed by the need and desire to provide database functionality in the context of the Database as a Service (DBaaS) paradigm for database outsourcing. This book also discusses the motivation of the new paradigm of cloud computing, and its impact to data outsourcing and service-oriented computing in data-intensive applications. Techniques with respect to the support in the current cloud environments, major challenges, and future trends are covered in the last section of this book. A survey addressing the techniques and special requirements for building database services are provided in this book as well.

*Advancing Cloud Database Systems and Capacity Planning With Dynamic Applications* Kamila, Narendra Kumar,2017-01-05 Continuous improvements in data analysis and cloud computing have allowed more opportunities to develop systems with user-focused designs. This not only leads to higher success in day-to-day usage, but it increases the overall probability of technology adoption. Advancing Cloud Database Systems and Capacity Planning With Dynamic Applications is a key resource on the latest innovations in cloud database systems and their impact on the daily lives of people in modern society. Highlighting multidisciplinary studies on information storage and retrieval, big data architectures, and artificial intelligence, this publication is an ideal reference source for academicians, researchers, scientists, advanced level students, technology developers and IT officials.

*Grid and Cloud Database Management* Sandro Fiore, Giovanni Aloisio, 2011-07-28 Since the 1990s Grid Computing has emerged as a paradigm for accessing and managing distributed, heterogeneous and geographically spread resources, promising that we will be able to access computer power as easily as we can access the electric power grid. Later on, Cloud Computing brought the promise of providing easy and inexpensive access to remote hardware and storage resources. Exploiting pay-per-use models and virtualization for resource provisioning, cloud computing has been rapidly accepted and used by researchers, scientists and industries. In this volume, contributions from internationally recognized experts describe the latest findings on challenging topics related to grid and cloud database management. By exploring current and future developments, they provide a thorough understanding of the principles and techniques involved in these fields. The presented topics are well balanced and complementary, and they range from well-known research projects and real case studies to standards and specifications, and non-functional aspects such as security, performance and scalability. Following an initial introduction by the editors, the contributions are organized into four sections: Open Standards and Specifications, Research Efforts in Grid Database Management, Cloud Data Management, and Scientific Case Studies. With this presentation, the book serves mostly researchers and graduate students, both as an introduction to and as a technical reference for grid and cloud database management. The detailed descriptions of research prototypes dealing with spatiotemporal or genomic data will also be useful for application engineers in these fields.

**NoSQL** Ganesh Chandra Deka, 2017-05-19 This book discusses the advanced databases for the cloud-based application known as NoSQL. It will explore the recent advancements in NoSQL database technology. Chapters on structured, unstructured and hybrid databases will be included to explore bigdata analytics, bigdata storage and processing. The book is likely to cover a wide range of topics such as cloud computing, social computing, bigdata and advanced databases processing techniques.

*Cloud Database Development and Management* Lee Chao, 2013-07-26 Although today's job market requires IT professionals to understand cloud computing theories and have hands-on skills for developing real-world database systems, there are few books available that integrate coverage of both. Filling this void, *Cloud Database Development and Management* explains how readers can take advantage of the cloud environment

**The Cloud DBA-Oracle** Abhinivesh Jain, Niraj Mahajan, 2017-02-23 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.

**Cloud Native Database** Feifei Li,Xuan Zhou,Peng Cai,Rong Zhang,Gui Huang,XiangWen Liu,2025-02-24 This book analyzes in detail the technological evolution process of databases in the era of cloud computing and explains how traditional database technology has gradually developed to cloud-native form from multiple perspectives such as architecture design, implementation mechanism, and system optimization. This book emphasizes the full combination of theory and practice and also analyzes the SQL optimization and execution, transaction processing, caching and indexing principles of databases implemented by MySQL, PostgreSQL and other systems, what trade-offs and compromises are made in the face of actual application requirements, how to optimize in the face of complex application scenarios, and the reasons behind making various choices. At the same time, combined with Alibaba Cloud's R&D experience in the database field, this book focuses on a series of core technical principles of modern database evolution from system to service, such as the use of cloud computing resource pooling technology and distributed technology to achieve high availability, elastic expansion, and on-demand use of databases. The book is informative, combines theoretical depth and implementation details, and openly explores the new development direction of the database, which can inspire readers to think further.

**Cloud Computing Solutions** Souvik Pal,Dac-Nhuong Le,Prasant Kumar Pattnaik,2022-05-11 CLOUD COMPUTING SOLUTIONS The main purpose of this book is to include all the cloud-related technologies in a single platform, so that researchers, academicians, postgraduate students, and those in the industry can easily understand the cloud-based ecosystems. This book discusses the evolution of cloud computing through grid computing and cluster computing. It will help researchers and practitioners to understand grid and distributed computing cloud infrastructure, virtual machines, virtualization, live migration, scheduling techniques, auditing concept, security and privacy, business models, and case studies through the state-of-the-art cloud computing countermeasures. This book covers the spectrum of cloud computing-related technologies and the wide-ranging contents will differentiate this book from others. The topics treated in the book include: The evolution of cloud computing from grid computing, cluster computing, and distributed systems; Covers cloud computing and virtualization environments; Discusses live migration, database, auditing, and applications as part of the

materials related to cloud computing; Provides concepts of cloud storage, cloud strategy planning, and management, cloud security, and privacy issues; Explains complex concepts clearly and covers information for advanced users and beginners. Audience The primary audience for the book includes IT, computer science specialists, researchers, graduate students, designers, experts, and engineers who are occupied with research.

*Fast and Scalable Cloud Data Management* Felix Gessert, Wolfram Wingerath, Norbert Ritter, 2020-05-15 The unprecedented scale at which data is both produced and consumed today has generated a large demand for scalable data management solutions facilitating fast access from all over the world. As one consequence, a plethora of non-relational, distributed NoSQL database systems have risen in recent years and today's data management system landscape has thus become somewhat hard to overlook. As another consequence, complex polyglot designs and elaborate schemes for data distribution and delivery have become the norm for building applications that connect users and organizations across the globe - but choosing the right combination of systems for a given use case has become increasingly difficult as well. To help practitioners stay on top of that challenge, this book presents a comprehensive overview and classification of the current system landscape in cloud data management as well as a survey of the state-of-the-art approaches for efficient data distribution and delivery to end-user devices. The topics covered thus range from NoSQL storage systems and polyglot architectures (backend) over distributed transactions and Web caching (network) to data access and rendering performance in the client (end-user). By distinguishing popular data management systems by data model, consistency guarantees, and other dimensions of interest, this book provides an abstract framework for reasoning about the overall design space and the individual positions claimed by each of the systems therein. Building on this classification, this book further presents an application-driven decision guidance tool that breaks the process of choosing a set of viable system candidates for a given application scenario down into a straightforward decision tree.

**Cloud Computing** Kris Jamsa, 2012-03-22 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.

*Cloud Computing Made Simple* Williams Sebastian, 2025-10-15 Unlock the Power of the Cloud, No Technical Degree Required Have you ever felt like the world of technology is moving on without you? Terms like AWS, Azure, GCP, and the cloud dominate conversations, but they often sound complex and intimidating. You know that understanding cloud computing is essential for your career, yet every technical manual you pick up feels like it is written in a foreign language. *Cloud Computing Made Simple* is the answer. This practical, beginner-friendly guide is written for anyone eager to understand the technology that powers our digital world. Whether you are an absolute beginner, an IT professional looking to transition, a business manager making informed decisions, or a student exploring the future of tech, this book will guide you step by step toward clarity and confidence. Forget the dense jargon and confusing acronyms. Using real-world analogies and simple explanations, this guide takes you on a structured journey from the fundamentals to practical applications, helping you understand how the cloud works, why it matters, and how to use it effectively. Inside, you will discover:

- A plain-language explanation of what cloud computing is and why it has revolutionized modern technology.
- The key differences between traditional IT and cloud infrastructure.
- Clear breakdowns of essential service models (IaaS, PaaS, SaaS) and deployment models (Public, Private, Hybrid).
- A practical introduction to the three major cloud providers: Amazon Web Services (AWS), Microsoft Azure, and Google Cloud Platform (GCP).
- The fundamentals of cloud security, data protection, compliance, and cost management.
- How organizations migrate to the cloud, optimize costs, and leverage new technologies such as serverless computing, big data analytics, and artificial intelligence.
- Real-world examples showing how the cloud powers everyday business applications and modern DevOps practices.

Each chapter builds on the previous one, offering relatable examples, helpful glossaries, and curated resources to support continued learning. By the end, you will not only understand the key concepts but also gain the confidence to discuss, plan, and participate in cloud-based projects. Whether you are starting a new career, advancing in your current role, or simply aiming to become a more tech-literate professional, *Cloud Computing Made Simple* provides the clarity and foundation you need to succeed. Stop feeling left behind. Take the first step on your cloud journey and grab your copy today.

*Building a Columnar Database on RAMCloud* Christian Tinnefeld, 2015-07-07 This book examines the field of parallel database management systems and illustrates the great variety of solutions based on a shared-storage or a shared-nothing architecture. Constantly dropping memory prices and the desire to operate with low-latency responses on large sets of data paved the way for main memory-based parallel database management systems. However, this area is currently dominated by the shared-nothing approach in order to preserve the in-memory performance advantage by processing data locally on each

server. The main argument this book makes is that such an unilateral development will cease due to the combination of the following three trends: a) Today's network technology features remote direct memory access (RDMA) and narrows the performance gap between accessing main memory on a server and of a remote server to and even below a single order of magnitude. b) Modern storage systems scale gracefully, are elastic and provide high-availability. c) A modern storage system such as Stanford's RAM Cloud even keeps all data resident in the main memory. Exploiting these characteristics in the context of a main memory-based parallel database management system is desirable. The book demonstrates that the advent of RDMA-enabled network technology makes the creation of a parallel main memory DBMS based on a shared-storage approach feasible.

Designing Cloud Data Platforms Danil Zburivsky, Lynda Partner, 2021-04-20 1. Introducing the data platform -- 2. Why a data platform and not just a data warehouse -- 3. Getting bigger and leveraging the big 3: Amazon, Microsoft Azure, and Google -- 4. Getting data into the platform -- 5. Organizing and processing data -- 6. Real-time data processing and analytics -- 7. Metadata layer architecture -- 8. Schema management -- 9. Data access and security -- 10. Fueling business value with data platforms.

**Cloud Data Management** Liang Zhao, Sherif Sakr, Anna Liu, Athman Bouguettaya, 2014-07-08 In practice, the design and architecture of a cloud varies among cloud providers. We present a generic evaluation framework for the performance, availability and reliability characteristics of various cloud platforms. We describe a generic benchmark architecture for cloud databases, specifically NoSQL database as a service. It measures the performance of replication delay and monetary cost. Service Level Agreements (SLA) represent the contract which captures the agreed upon guarantees between a service provider and its customers. The specifications of existing service level agreements (SLA) for cloud services are not designed to flexibly handle even relatively straightforward performance and technical requirements of consumer applications. We present a novel approach for SLA-based management of cloud-hosted databases from the consumer perspective and an end-to-end framework for consumer-centric SLA management of cloud-hosted databases. The framework facilitates adaptive and dynamic provisioning of the database tier of the software applications based on application-defined policies for satisfying their own SLA performance requirements, avoiding the cost of any SLA violation and controlling the monetary cost of the allocated computing resources. In this framework, the SLA of the consumer applications are declaratively defined in terms of goals which are subjected to a number of constraints that are specific to the application requirements. The framework continuously monitors the application-defined SLA and automatically triggers the execution of necessary corrective actions (scaling out/in the database tier) when required. The framework is database platform-agnostic, uses virtualization-based database replication mechanisms and requires zero source code changes of the cloud-hosted software applications.

Guide to Cloud Computing Richard Hill, Laurie Hirsch, Peter Lake, Siavash Moshiri, 2012-11-28 This book describes the

landscape of cloud computing from first principles, leading the reader step-by-step through the process of building and configuring a cloud environment. The book not only considers the technologies for designing and creating cloud computing platforms, but also the business models and frameworks in real-world implementation of cloud platforms. Emphasis is placed on “learning by doing,” and readers are encouraged to experiment with a range of different tools and approaches. Topics and features: includes review questions, hands-on exercises, study activities and discussion topics throughout the text; demonstrates the approaches used to build cloud computing infrastructures; reviews the social, economic, and political aspects of the on-going growth in cloud computing use; discusses legal and security concerns in cloud computing; examines techniques for the appraisal of financial investment into cloud computing; identifies areas for further research within this rapidly-moving field.

**Building Database Clouds in Oracle 12c** Tariq Farooq, Sridhar Avantsa, Pete Sharman, 2016-06-06 An Expert Guide to Building Oracle Database Cloud Infrastructures This is the first complete, practical guide to architecting, designing, and building Database Clouds with Oracle 12c. Written by a veteran author team of Oracle gurus and ACE Directors, Building Database Clouds in Oracle 12c combines a real-world, hands-on operations guide with an expert handbook on Oracle Database-As-A-Service (DBaaS) and Oracle Real Application Clusters (RAC). Writing for Oracle DBAs, DMAs, cloud administrators, and other Oracle professionals, the authors present authoritative technical information for database cloud build-out, management, monitoring, and day-to-day administration. The authors first explain the key concepts underlying DBaaS, describe cloud computing implementations related to it, and outline the business and technology benefits. Next, they show how the Oracle DBA’s approach changes in cloud environments. Then, building on this foundation, they offer insider advice on all key facets of database cloud deployment and operation with Oracle Enterprise Manager 12c and Oracle RAC 12c. This guide helps you Make the business case for cloud computing with DBaaS Organize DBA responsibilities in cloud environments Plan, design, and deploy Database Clouds with Oracle’s latest components Consolidate schema and databases with Oracle Enterprise Manager 12c Use best practices for management, administration metering, and chargeback Clone databases quickly and reliably Set up grid infrastructure on Oracle VM for x86 or Oracle VM VirtualBox

**Successful Management of Cloud Computing and DevOps** Alka Jarvis, Jose Johnson, Prakash Ananad, 2022-05-20 The rapid pace of technology often catches organizations unprepared and unable to take advantage of every leading-edge benefit. Cloud technology allows forward-thinking companies to launch products and services rapidly, control costs, streamline processes, and mitigate risks—when done correctly. This book addresses technological basics, as well as practical steps for implementing and fitting the cloud into your overall business strategy—which ultimately benefits your bottom line in delivering the best possible product and services to customers quickly. Capitalizing on their collective years of experience working in Silicon Valley, authors Jarvis, Anand, and Jose share best practices for adopting the cloud, including: ■



Calculating cloud usage and crafting a cost management strategy ■ Breaking down the total cost of ownership (TCO) ■ Optimizing DevOps practices for the cloud ■ Understanding the challenges and risks involved with cloud migration and security Armed with step-by-step guidance, you can generate a plan of action to meet and exceed your cloud management goals.

*Pro SQL Database for Windows Azure* Scott Klein, Herve Roggero, 2013-01-25 *Pro SQL Database for Windows Azure*, 2nd Edition shows how to create enterprise-level database deployments without the usual investment in datacenter and other infrastructure. Take advantage instead of Microsoft's worldwide backbone for cloud computing that delivers all the power of SQL Server in the form of the cloud-based SQL Database for Windows Azure. You can create and deploy a database in mere minutes that is accessible worldwide and takes advantage of SQL Database's high-availability features to protect your data while ensuring 99.9% uptime. SQL Azure is ideally suited for startups, who can benefit from instant access to a robust and secure web-accessible database platform for use in rapidly deploying new products to market. SQL Azure is also ideal for small and mid-sized businesses, giving them the same ability to deploy SQL Server as any large enterprise, but without the management overhead. Even large enterprises find SQL Azure useful in creating failover environments, development environments, extra capacity to handle surges in demand, and more. *Pro SQL Database for Windows Azure* covers the very latest in Microsoft's fast-moving, cloud platform, showing how to program and administer it in a variety of cloud computing scenarios. You'll learn to program SQL Azure from ASP.NET, from WinForms, and from SQL Reporting Services. You'll learn to manage the platform by planning for scalability, troubleshooting performance issues, and implementing strong security. You'll learn the unique aspects of SQL Azure such as sharding and federation support that combine to place SQL Azure a step above and ahead of the competition. Shows how to use SQL Azure from classic Windows applications, ASP.NET and Windows Communication Foundation Covers management, performance, scalability, and troubleshooting Addresses the all-important issue of securing your data Helps you properly design for high-performance in a cloud environment Helps you adopt the new Federations feature in SQL Azure

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