Cloud Data Management

Liang Zhao, Sherif Sakr, Anna Liu, Athman Bouguettaya

Cloud Data Management

Liang Zhao, Sherif Sakr, Anna Liu, Athman Bouguettaya

Cloud Data Management Liang Zhao, Sherif Sakr, Anna Liu, Athman Bouguettaya

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.

Download Cloud Data Management ...pdf

Read Online Cloud Data Management ...pdf

Download and Read Free Online Cloud Data Management Liang Zhao, Sherif Sakr, Anna Liu, Athman Bouguettaya

From reader reviews:

Maryanna Kuhns:

In this 21st century, people become competitive in every single way. By being competitive now, people have do something to make these individuals survives, being in the middle of typically the crowded place and notice simply by surrounding. One thing that occasionally many people have underestimated the idea for a while is reading. Sure, by reading a publication your ability to survive increase then having chance to stand up than other is high. In your case who want to start reading the book, we give you this particular Cloud Data Management book as basic and daily reading e-book. Why, because this book is usually more than just a book.

Judith Tate:

The book with title Cloud Data Management includes a lot of information that you can learn it. You can get a lot of benefit after read this book. This book exist new understanding the information that exist in this book represented the condition of the world at this point. That is important to yo7u to learn how the improvement of the world. This specific book will bring you with new era of the syndication. You can read the e-book on your smart phone, so you can read this anywhere you want.

Jamie Treat:

Your reading sixth sense will not betray a person, why because this Cloud Data Management reserve written by well-known writer who really knows well how to make book that can be understand by anyone who all read the book. Written inside good manner for you, dripping every ideas and creating skill only for eliminate your current hunger then you still doubt Cloud Data Management as good book but not only by the cover but also with the content. This is one guide that can break don't evaluate book by its cover, so do you still needing an additional sixth sense to pick this particular!? Oh come on your looking at sixth sense already told you so why you have to listening to one more sixth sense.

Anthony Brown:

This Cloud Data Management is great book for you because the content which is full of information for you who always deal with world and also have to make decision every minute. This kind of book reveal it details accurately using great manage word or we can point out no rambling sentences inside it. So if you are read that hurriedly you can have whole info in it. Doesn't mean it only offers you straight forward sentences but tricky core information with attractive delivering sentences. Having Cloud Data Management in your hand like finding the world in your arm, facts in it is not ridiculous one particular. We can say that no e-book that offer you world inside ten or fifteen moment right but this book already do that. So , this can be good reading book. Hey there Mr. and Mrs. occupied do you still doubt in which?

Download and Read Online Cloud Data Management Liang Zhao, Sherif Sakr, Anna Liu, Athman Bouguettaya #W2PMUGY9LR6

Read Cloud Data Management by Liang Zhao, Sherif Sakr, Anna Liu, Athman Bouguettaya for online ebook

Cloud Data Management by Liang Zhao, Sherif Sakr, Anna Liu, Athman Bouguettaya Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Cloud Data Management by Liang Zhao, Sherif Sakr, Anna Liu, Athman Bouguettaya books to read online.

Online Cloud Data Management by Liang Zhao, Sherif Sakr, Anna Liu, Athman Bouguettaya ebook PDF download

Cloud Data Management by Liang Zhao, Sherif Sakr, Anna Liu, Athman Bouguettaya Doc

Cloud Data Management by Liang Zhao, Sherif Sakr, Anna Liu, Athman Bouguettaya Mobipocket

Cloud Data Management by Liang Zhao, Sherif Sakr, Anna Liu, Athman Bouguettaya EPub