DynamoDB Applied Design Patterns

By Uchit Vyas, Prabhakaran Kuppusamy

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DynamoDB Applied Design Patterns By Uchit Vyas, Prabhakaran Kuppusamy

Apply efficient DynamoDB design patterns for high performance of applications

About This Book

- Create, design, and manage databases in DynamoDB
- Immerse yourself in DynamoDB design examples and user cases, be it for new users or expert ones
- Perform sharding and modeling, to give your applications the low cost NoSQL edge

Who This Book Is For

If you are an intermediate to advanced DynamoDB developer looking to learn the best practices associated with efficient data modeling, this book is for you.

What You Will Learn

- Understand the concepts of data modeling including tables, items, attributes, primary keys, indexes, and design patterns
- Access DynamoDB in the management console, command line, and the Eclipse plugin
- Get acquainted with DynamoDB Local and CLI commands and use them from a developer/DBA perspective
- Discover what global and local secondary indexes are and their importance in DynamoDB
- Automatically shard your NoSQL databases based on SLA
- Conduct query and scan operations on DynamoDB tables to get efficient results
- Call APIs from applications to DynamoDB and retrieve data in appropriate formats for other applications
- Work closely with AWS services such as Redshift, S3, and MapReduce so they collaborate with DynamoDB efficiently

In Detail

DynamoDB provides fast and predictable performance with seamless scalability. If you are a developer, you can use DynamoDB to create a database table that can store and retrieve any amount of data, and serve any level of request traffic. As a database administrator, you can create and scale up or down your request capacity for your DynamoDB table without downtime or performance degradation.

Designed as a complete solutions guide for AWS DynamoDB, this book is a fully managed proprietary NoSQL database service pattern. The book begins with a description of the concepts of data modeling including tables, items, attributes, primary keys, indexes, and design patterns. You will learn how to access DynamoDB in the management console, command line, and the Eclipse plugin. You will also gain insights into DynamoDB Local and CLI commands. By the end of the book, you will have all that it takes to efficiently use DynamoDB to its utmost capabilities.

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Editorial Review

About the Author

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Uchit Vyas is an open source specialist and a hands-on Lead DevOps of Clogeny Technologies. He is responsible for the delivery of solutions, services, and product development. He explores new open source technologies and defines architecture, roadmaps, and best practices for enterprises. He has consulted and provided training on various open source technologies, including Cloud computing (AWS Cloud, Rackspace, Azure, CloudStack, OpenStack, and Eucalyptus), Mule ESB, Chef, Puppet, Liferay Portal, Alfresco ECM, and JBoss to corporations around the world. He has an engineering degree in Computer Science from Gujarat University. He was in the Education & Research Team as a senior associate at Infosys Limited, during which time he worked on SaaS, Private Clouds, Cloud Security, and Virtualization. He is now working on Cloud Automation. He has also published a book on Mule ESB and is writing various books with Packt Publishing on open source technologies and AWS (Mastering AWS Development Guide, Packt Publishing). He hosts a blog named Cloud Magic World (cloudbyuchit.blogspot.com), where he posts tips and phenomena about open source technologies, mostly relating to Cloud. He can also be found on twitter as @uchit_vyas.

Prabhakaran Kuppusamy

Prabhakaran Kuppusamy is a Hadoop ecosystem specialist and Cloud enthusiast who is currently working as Senior Systems Engineer and developer, Cloud & Infrastructure Services unit, at Infosys Limited. He has been with Infosys for nearly 4 years now. He has a Bachelor of Engineering degree in Instrumentation and Control Engineering from Anna University. He joined Education & Research at Global Education Centre, Infosys, where he trained and evaluated thousands of freshers in Java, Big Data, and Cloud technologies. During his tenure in Education & Research, he provided training to students from Coventry University and to professionals from Costa Rica on Big Data and Cloud technologies, such as Hadoop, MapReduce, Hive, Elastic MapReduce, Google App Engine, DynamoDB, and CloudStack. It was during one of those training sessions that he met Uchit Vyas, and the idea of this book was born. After spending 2 years at the Global Education Centre, he moved to Cloud project management, where he started working on MarkLogic, Storm, and XQuery for a project on the banking domain. He can be found on Twitter at @prabhakar28dec. Prabhakaran is currently working on the book AWS Development Essentials, Packt Publishing.

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