DynamoDB Applied Design Patterns

Uchit Vyas, Prabhakaran Kuppusamy

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DynamoDB Applied Design Patterns 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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