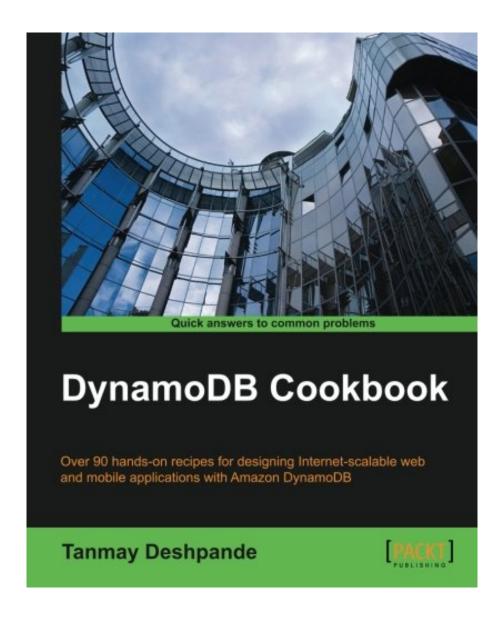


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# About the Author

# Tanmay Deshpande

Tanmay Deshpande is a Hadoop and big data evangelist. He currently works with Symantec Corporation as a senior software engineer in Pune, India. He has interests in a wide range of technologies, such as Hadoop, Hive, Pig, NoSQL databases, Mahout, Sqoop, Java, cloud computing, and so on. He has vast experience in application development in various domains, such as finance, telecom, manufacturing, security, and retail. He enjoys solving machine learning problems and likes to spend his time reading anything that he can get his hands on. He has a great interest in open source technologies and has been promoting them through his talks. He has been invited to various colleges to conduct brainstorming sessions with students on the latest technologies. Before Symantec Corporation, he worked with Infosys, where he worked as the lead Big Data/ Cloud developer. He was a core team member of the Infosys Big Data Edge platform. Through his innovative thinking and dynamic leadership, he successfully completed various projects. Before he wrote this book, he also authored two books, Mastering DynamoDB and Cloud Computing. He regularly blogs at http://hadooptutorials.co.in

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Over 90 hands-on recipes to design Internet scalable web and mobile applications with Amazon DynamoDB

## About This Book

- Construct top-notch mobile and web applications with the Internet scalable NoSQL database and host it on cloud
- Integrate your applications with other AWS services like AWS EMR, AWS S3, AWS Redshift, and AWS CloudSearch etc. in order to achieve a one-stop application stack
- Step-by-step implementation guide that provides real-world use with hands-on recipes

#### Who This Book Is For

This book is intended for those who have a basic understanding of AWS services and want to take their knowledge to the next level by getting their hands dirty with coding recipes in DynamoDB.

#### What You Will Learn

- Design DynamoDB tables to achieve high read and write throughput
- Discover best practices like caching, exponential back-offs and auto-retries, storing large items in AWS S3, storing compressed data etc.
- Effectively use DynamoDB Local in order to make your development smooth and cost effective
- Implement cost effective best practices to reduce the burden of DynamoDB charges
- Create and maintain secondary indexes to support improved data access
- Integrate various other AWS services like AWS EMR, AWS CloudSearch, AWS Pipeline etc. with DynamoDB

## In Detail

AWS DynamoDB is an excellent example of a production-ready NoSQL database. In recent years, DynamoDB has been able to attract many customers because of its features like high-availability, reliability and infinite scalability. DynamoDB can be easily integrated with massive data crunching tools like Hadoop /EMR, which is an essential part of this data-driven world and hence it is widely accepted. The cost and time-efficient design makes DynamoDB stand out amongst its peers. The design of DynamoDB is so neat and clean that it has inspired many NoSQL databases to simply follow it.

This book will get your hands on some engineering best practices DynamoDB engineers use, which can be used in your day-to-day life to build robust and scalable applications. You will start by operating with DynamoDB tables and learn to manipulate items and manage indexes. You will also discover how to easily integrate applications with other AWS services like EMR, S3, CloudSearch, RedShift etc. A couple of chapters talk in detail about how to use DynamoDB as a backend database and hosting it on AWS ElasticBean. This book will also focus on security measures of DynamoDB as well by providing techniques on data encryption, masking etc.

By the end of the book you'll be adroit in designing web and mobile applications using DynamoDB and host it on cloud.

# Style and approach

An easy-to-follow guide, full of real-world examples, which takes you through the world of DynamoDB following a step-by-step, problem-solution based approach.

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Very Useful Cookbook

By PJG

As with many cookbooks of this type, the entire thing rests on whether the recipes included are actually of practical use or not. In this case, they most definitely are, and follow a well-arranged and logical order that starts from the basics. The great thing about the recipes is that they really

do allow the reader to get to grips with a well-featured and highly-performant NoSQL database, and the book really hits the ground running. The chapters include relevant 'best practices' and a very useful later chapter on how to integrate DynamoSB with other AWS services.

As with many Packt titles, the book is succinct - just under 200 pages - but this style seems to work much better in cookbook format where very specific examples, that are relatively self-contained, are presented. Recommended for anyone looking to get acquainted with DynamoDB through practical examples.

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**Excellent Cookbook!** 

By Bill Jones

I have a MySQL / MSSQL / MongoDB background for all of my web applications and I wanted to branch out into DynamoDB for performance gains in highly available applications. The book covered everything clearly, how to achieve high read/write throughput while guiding you with best practices. While I just started with the NoSQL databases this one worked fine for my tests, and in a data-driven environment it will certainly out perform my slow MSSQL transactions. Not to mention the per core licence M\$ is doing, crazy! I highly recommend this book if you want to get serious about high availability for data demanding applications.

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Excellent book for programmers, engineers, and architects of all levels.

By Kenny Ha

I really wished that this book had came out a few years earlier. This excellent NoSQL DynamoDB Cookbook will allow you to gain insights into the next generation of high-availability, reliability and infinite scalability of developing internet & mobile applications. Whether you're a programmer or an architect, if you're looking to design scalable distributed systems, you must check out this book. This book provides a step-by-step instruction on how to create tables and manipulate items. There are examples of best practices and sample codes to help you manage primary key type, hash and range attributes along with global local and secondary indices. In addition, there are integration examples with other advanced AWS services. You can get this book at https://www.packtpub.com/big-data-and-business-intelligence/dynamodb-cookbook. For further technical reading, you can visit http://oneglobalonline.com.

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