

Cassandra 3.x High Availability - Second Edition

By Robbie Strickland

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Key Features

- See how to get 100 percent uptime with your Cassandra applications using this easy-follow guide
- Learn how to avoid common and not-so-common mistakes while working with Cassandra using this highly practical guide
- Get familiar with the intricacies of working with Cassandra for high availability in your work environment with this go-to-guide

Book Description

Apache Cassandra is a massively scalable, peer-to-peer database designed for 100 percent uptime, with deployments in the tens of thousands of nodes, all supporting petabytes of data. This book offers a practical insight into building highly available, real-world applications using Apache Cassandra.

The book starts with the fundamentals, helping you to understand how Apache Cassandra's architecture allows it to achieve 100 percent uptime when other systems struggle to do so. You'll get an excellent understanding of data distribution, replication, and Cassandra's highly tunable consistency model. Then we take an in-depth look at Cassandra's robust support for multiple data centers, and you'll see how to scale out a cluster. Next, the book explores the domain of application design, with chapters discussing the native driver and data modeling. Lastly, you'll find out how to steer clear of common anti-patterns and take advantage of Cassandra's ability to fail gracefully.

What you will learn

- Understand how the core architecture of Cassandra enables highly available applications
- Use replication and tunable consistency levels to balance consistency, availability, and performance
- Set up multiple data centers to enable failover, load balancing, and geographic distribution

- Add capacity to your cluster with zero downtime
- Take advantage of high availability features in the native driver
- Create data models that scale well and maximize availability
- Understand common anti-patterns so you can avoid them
- Keep your system working well even during failure scenarios

About the Author

Robbie Strickland has been involved in the Apache Cassandra project since 2010, and he initially went to production with the 0.5 release. He has made numerous contributions over the years, including work on drivers for C# and Scala and multiple contributions to the core Cassandra codebase. In 2013 he became the very first certified Cassandra developer, and in 2014 DataStax selected him as an Apache Cassandra MVP.

Robbie has been an active speaker and writer in the Cassandra community and is the founder of the Atlanta Cassandra Users Group. Other examples of his writing can be found on the DataStax blog, and he has presented numerous webinars and conference talks over the years.

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Editorial Review

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