Learning RabbitMQ

Martin Toshev

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Key Features

- Learn to administer, configure, and manage RabbitMQ instances
- Discover ways to secure and troubleshoot RabbitMQ instances
- This book is fully up-to-date with all the latest changes to version 3.5

Book Description

RabbitMQ is Open Source Message Queuing software based on the Advanced Message Queue Protocol Standard written in the Erlang Language. RabbitMQ is an ideal candidate for large-scale projects ranging from e-commerce and finance to Big Data and social networking because of its ease of use and high performance. Managing RabbitMQ in such a dynamic environment can be a challenging task that requires a good understanding not only of how to work properly with the message broker but also of its best practices and pitfalls.

Learning RabbitMQ starts with a concise description of messaging solutions and patterns, then moves on to concrete practical scenarios for publishing and subscribing to the broker along with basic administration. This knowledge is further expanded by exploring how to establish clustering and high availability at the level of the message broker and how to integrate RabbitMQ with a number of technologies such as Spring, and enterprise service bus solutions such as MuleESB and WSO2. We will look at advanced topics such as performance tuning, secure messaging, and the internals of RabbitMQ. Finally we will work through case-studies so that we can see RabbitMQ in action and, if something goes wrong, we'll learn to resolve it in the Troubleshooting section.

What you will learn

- Apply messaging patterns using the message broker
- Administer RabbitMQ using the command line, management Web console, or management REST services
- Create a cluster of scalable, and highly-available, RabbitMQ instances
- Use RabbitMQ with the Spring Framework, MuleESB, WSO2, and Oracle databases
- Deploy RabbitMQ using Puppet, Vagrant, or Docker
- Fine-tune the performance of RabbitMQ
- Monitor RabbitMQ using Nagios, Munin, or Monit
- Secure, troubleshoot, and extend RabbitMQ

About the Author

Martin Toshev is a software developer and Java enthusiast with more than eight years of experience and vast expertise originating from projects in areas such as enterprise Java, social networking, source code analysis, Internet of Things, and investment banking in companies such as Cisco and Deutsche Telekom. He is a graduate of computer science from the University of Sofia. He is also a certified Java professional (SCJP6) and a certified IBM cloud computing solution advisor. His areas of interest include a wide range of Java-related technologies (Servlets, JSP, JAXB, JAXP, JMS, JMX, JAX-RS, JAX-WS, Hibernate, Spring

Framework, Liferay Portal, and Eclipse RCP), cloud computing technologies, cloud-based software architectures, enterprise application integration, and relational and NoSQL databases. Martin is one of the leaders of the Bulgarian Java Users group (BGJUG), a regular speaker at Java conferences, and one of the organizers behind the jPrime conference in Bulgaria (http://jprime.io/).

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