



# Instant Apache ActiveMQ Messaging Application Development How-to

By Timothy Bish

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**Instant Apache ActiveMQ Messaging Application Development How-to** By Timothy Bish

Develop message-based applications using ActiveMQ and the JMS with this book and ebook

## Overview

- Learn something new in an Instant! A short, fast, focused guide delivering immediate results
- Learn how to use the JMS API
- Explore advanced messaging features in ActiveMQ
- Useful information on common pitfalls new developers often encounter

## In Detail

Apache ActiveMQ is a powerful and popular open source messaging and Integration Patterns server. ActiveMQ is a fully JMS 1.1 compliant Message Broker and supports many advanced features beyond the JMS specification.

Instant ActiveMQ Application Development How-to shows you how to get started with the ActiveMQ Message Broker. You will learn how to develop message-based applications using ActiveMQ and the JMS specification.

In this book you will learn all the basic skills you need to start writing Java Messaging applications with a firm grounding in the more advanced features of ActiveMQ, giving you the tools to continue to master application development using ActiveMQ.

Starting by applying the messaging features of the JMS specification to write basic messaging applications, you will develop a basic JMS application using topics and queues to broadcast events as well as perform Request and Response operations over the JMS.

Once you have mastered the simple tasks you will move onto using the advanced features in ActiveMQ to supercharge your messaging applications. You will get to grips with ActiveMQ's scheduler to delay messages. You will also learn how

to leverage ActiveMQ's fault-tolerant capabilities to create robust client applications.

### **What you will learn from this book**

- Install and run an ActiveMQ Broker
- Set up a basic application developer environment for ActiveMQ using Apache Maven
- Write basic JMS applications using topics and queue to broadcast events
- Perform Request and Response style operations over JMS
- Write applications that embed ActiveMQ brokers directly into their own JVM
- Utilize ActiveMQ's fault tolerant features to develop robust client applications
- How to delay message sending using ActiveMQ's built in scheduler

### **Approach**

Filled with practical, step-by-step instructions and clear explanations for the most important and useful tasks. This is a Packt Instant How-to guide, which provides concise and practical recipes to help you get started writing applications with ActiveMQ using practical examples.

### **Who this book is written for**

Instant ActiveMQ Application Development How-to is for the developers who are new to Java Message Service application development or new to JMS development using ActiveMQ. Readers will come away ready to solve complicated messaging related problems using the JMS API and ActiveMQ.

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### **Editorial Review**

#### **About the Author**

Timothy Bish is a senior software engineer currently working for RedHat Inc. He currently works out of his home in Alexandria, VA, actively contributing to the ActiveMQ Project. Timothy started his work in the open source world as a side project while working for a company in Syracuse NY. What started as something fun turned into a full time career and remains a passion for Timothy. Timothy started his career in software development in 1999 and has worked for several years in the private sector before moving into full time open source development. During that time Timothy earned his Masters of Computer Engineering from Syracuse University. Having worked on a number of home grown Messaging frameworks Timothy has seen firsthand how the world of open source software like ActiveMQ has transformed the development world. Besides working on new development projects Timothy also enjoys reading, skiing, scuba diving, and traveling to new and exotic places.

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