Reactive Messaging Patterns with the Actor Model: Applications and Integration in Scala and Akka

By Vaughn Vernon

Reactive Messaging Patterns with the Actor Model: Applications and Integration in Scala and Akka By Vaughn Vernon

USE THE ACTOR MODEL TO BUILD SIMPLER SYSTEMS WITH BETTER PERFORMANCE AND SCALABILITY

Enterprise software development has been much more difficult and failure-prone than it needs to be. Now, veteran software engineer and author Vaughn Vernon offers an easier and more rewarding method to succeeding with Actor model. *Reactive Messaging Patterns with the Actor Model* shows how the reactive enterprise approach, Actor model, Scala, and Akka can help you overcome previous limits of performance and scalability, and skillfully address even the most challenging non-functional requirements.

Reflecting his own cutting-edge work, Vernon shows architects and developers how to translate the longtime promises of Actor model into practical reality. First, he introduces the tenets of reactive software, and shows how the message-driven Actor model addresses all of them–making it possible to build systems that are more responsive, resilient, and elastic. Next, he presents a practical Scala bootstrap tutorial, a thorough introduction to Akka and Akka Cluster, and a full chapter on maximizing performance and scalability with Scala and Akka.

Building on this foundation, you'll learn to apply enterprise application and integration patterns to establish message channels and endpoints; efficiently construct, route, and transform messages; and build robust systems that are simpler and far more successful.

Coverage Includes

- How reactive architecture replaces complexity with simplicity throughout the core, middle, and edges
- The characteristics of actors and actor systems, and how Akka makes them more powerful
- Building systems that perform at scale on one or many computing nodes

- Establishing channel mechanisms, and choosing appropriate channels for each application and integration challenge
- Constructing messages to clearly convey a sender's intent in communicating with a receiver
- Implementing a Process Manager for your Domain-Driven Designs
- Decoupling a message's source and destination, and integrating appropriate business logic into its router
- Understanding the transformations a message may experience in applications and integrations
- Implementing persistent actors using Event Sourcing and reactive views using CQRS

Find unique online training on Domain-Driven Design, Scala, Akka, and other software craftsmanship topics using the for{comprehension} website at forcomprehension.com.

⬇ **Download** Reactive Messaging Patterns with the Actor Model: ...pdf

📄 **Read Online** Reactive Messaging Patterns with the Actor Model ...pdf

Reactive Messaging Patterns with the Actor Model: Applications and Integration in Scala and Akka

By Vaughn Vernon

Reactive Messaging Patterns with the Actor Model: Applications and Integration in Scala and Akka
By Vaughn Vernon

USE THE ACTOR MODEL TO BUILD SIMPLER SYSTEMS WITH BETTER PERFORMANCE AND SCALABILITY

Enterprise software development has been much more difficult and failure-prone than it needs to be. Now, veteran software engineer and author Vaughn Vernon offers an easier and more rewarding method to succeeding with Actor model. ***Reactive Messaging Patterns with the Actor Model*** shows how the reactive enterprise approach, Actor model, Scala, and Akka can help you overcome previous limits of performance and scalability, and skillfully address even the most challenging non-functional requirements.

Reflecting his own cutting-edge work, Vernon shows architects and developers how to translate the longtime promises of Actor model into practical reality. First, he introduces the tenets of reactive software, and shows how the message-driven Actor model addresses all of them–making it possible to build systems that are more responsive, resilient, and elastic. Next, he presents a practical Scala bootstrap tutorial, a thorough introduction to Akka and Akka Cluster, and a full chapter on maximizing performance and scalability with Scala and Akka.

Building on this foundation, you'll learn to apply enterprise application and integration patterns to establish message channels and endpoints; efficiently construct, route, and transform messages; and build robust systems that are simpler and far more successful.

Coverage Includes

- How reactive architecture replaces complexity with simplicity throughout the core, middle, and edges
- The characteristics of actors and actor systems, and how Akka makes them more powerful
- Building systems that perform at scale on one or many computing nodes
- Establishing channel mechanisms, and choosing appropriate channels for each application and integration challenge
- Constructing messages to clearly convey a sender's intent in communicating with a receiver
- Implementing a Process Manager for your Domain-Driven Designs
- Decoupling a message's source and destination, and integrating appropriate business logic into its router
- Understanding the transformations a message may experience in applications and integrations
- Implementing persistent actors using Event Sourcing and reactive views using CQRS

Find unique online training on Domain-Driven Design, Scala, Akka, and other software craftsmanship topics using the for{comprehension} website at forcomprehension.com.

Reactive Messaging Patterns with the Actor Model: Applications and Integration in Scala and Akka By Vaughn Vernon Bibliography

- Sales Rank: #439309 in Books
- Brand: imusti
- Published on: 2015-08-17
- Original language: English
- Number of items: 1
- Dimensions: 9.00" h x 1.20" w x 7.10" l, .0 pounds
- Binding: Hardcover
- 496 pages

Download and Read Free Online Reactive Messaging Patterns with the Actor Model: Applications and Integration in Scala and Akka By Vaughn Vernon

Editorial Review

About the Author

Vaughn Vernon is a veteran software craftsman and thought leader in simplifying software design and implementation. The author of the best-selling *Implementing Domain-Driven Design* (Addison-Wesley, 2013), he has taught his IDDD Workshop to hundreds of software developers worldwide, consults, and speaks frequently at industry conferences. Vaughn's interests include distributed computing, messaging, and Actor model. He first used Akka in 2012 on a GIS system and has specialized in applying Actor model with Domain-Driven Design ever since. He discusses his latest work at VaughnVernon.co and on Twitter at @VaughnVernon.

Users Review

From reader reviews:

James Robbins:

In other case, little persons like to read book Reactive Messaging Patterns with the Actor Model: Applications and Integration in Scala and Akka. You can choose the best book if you love reading a book. So long as we know about how is important some sort of book Reactive Messaging Patterns with the Actor Model: Applications and Integration in Scala and Akka. You can add knowledge and of course you can around the world by the book. Absolutely right, because from book you can learn everything! From your country until eventually foreign or abroad you may be known. About simple issue until wonderful thing you could know that. In this era, we are able to open a book as well as searching by internet system. It is called e-book. You can use it when you feel bored stiff to go to the library. Let's study.

Mary McDonald:

Hey guys, do you wishes to finds a new book to read? May be the book with the headline Reactive Messaging Patterns with the Actor Model: Applications and Integration in Scala and Akka suitable to you? The actual book was written by well-known writer in this era. The actual book untitled Reactive Messaging Patterns with the Actor Model: Applications and Integration in Scala and Akkais one of several books this everyone read now. That book was inspired lots of people in the world. When you read this guide you will enter the new shape that you ever know before. The author explained their idea in the simple way, so all of people can easily to know the core of this guide. This book will give you a lots of information about this world now. To help you to see the represented of the world within this book.

Marietta Allred:

Playing with family inside a park, coming to see the sea world or hanging out with good friends is thing that usually you have done when you have spare time, subsequently why you don't try factor that really opposite from that. Just one activity that make you not feeling tired but still relaxing, trilling like on roller coaster you

already been ride on and with addition details. Even you love Reactive Messaging Patterns with the Actor Model: Applications and Integration in Scala and Akka, it is possible to enjoy both. It is very good combination right, you still would like to miss it? What kind of hangout type is it? Oh come on its mind hangout guys. What? Still don't have it, oh come on its known as reading friends.

Ilene Bixler:

Reading a book being new life style in this season; every people loves to learn a book. When you study a book you can get a large amount of benefit. When you read textbooks, you can improve your knowledge, since book has a lot of information on it. The information that you will get depend on what types of book that you have read. If you wish to get information about your examine, you can read education books, but if you act like you want to entertain yourself you can read a fiction books, these us novel, comics, along with soon. The Reactive Messaging Patterns with the Actor Model: Applications and Integration in Scala and Akka provide you with new experience in studying a book.

Download and Read Online Reactive Messaging Patterns with the Actor Model: Applications and Integration in Scala and Akka By Vaughn Vernon #8RQXAZ2TD4N

Read Reactive Messaging Patterns with the Actor Model: Applications and Integration in Scala and Akka By Vaughn Vernon for online ebook

Reactive Messaging Patterns with the Actor Model: Applications and Integration in Scala and Akka By Vaughn Vernon Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Reactive Messaging Patterns with the Actor Model: Applications and Integration in Scala and Akka By Vaughn Vernon books to read online.

Online Reactive Messaging Patterns with the Actor Model: Applications and Integration in Scala and Akka By Vaughn Vernon ebook PDF download

Reactive Messaging Patterns with the Actor Model: Applications and Integration in Scala and Akka By Vaughn Vernon Doc

Reactive Messaging Patterns with the Actor Model: Applications and Integration in Scala and Akka By Vaughn Vernon Mobipocket

Reactive Messaging Patterns with the Actor Model: Applications and Integration in Scala and Akka By Vaughn Vernon EPub

8RQXAZ2TD4N: Reactive Messaging Patterns with the Actor Model: Applications and Integration in Scala and Akka By Vaughn Vernon