



# Building Microservices: Designing Fine-Grained Systems

By Sam Newman

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Distributed systems have become more fine-grained in the past 10 years, shifting from code-heavy monolithic applications to smaller, self-contained microservices. But developing these systems brings its own set of headaches. With lots of examples and practical advice, this book takes a holistic view of the topics that system architects and administrators must consider when building, managing, and evolving microservice architectures.

Microservice technologies are moving quickly. Author Sam Newman provides you with a firm grounding in the concepts while diving into current solutions for modeling, integrating, testing, deploying, and monitoring your own autonomous services. You'll follow a fictional company throughout the book to learn how building a microservice architecture affects a single domain.

- Discover how microservices allow you to align your system design with your organization's goals
- Learn options for integrating a service with the rest of your system
- Take an incremental approach when splitting monolithic codebases
- Deploy individual microservices through continuous integration
- Examine the complexities of testing and monitoring distributed services
- Manage security with user-to-service and service-to-service models
- Understand the challenges of scaling microservice architectures

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### Editorial Review

#### About the Author

Sam Newman is a technologist at ThoughtWorks, where he currently splits his time between encouraging and sharing Innovation globally and helping design and build their internal systems. He has worked with a variety of companies in multiple domains around the world, often with one foot in the developer world, and another in the IT operations space. If you asked him what he does, he'd say 'I work with people to build better software systems'. He has written articles, presented at conferences, and sporadically commits to open source projects. He is currently writing a book, *Building Microservices*, which should be available in the Autumn of this year from O'Reilly.

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