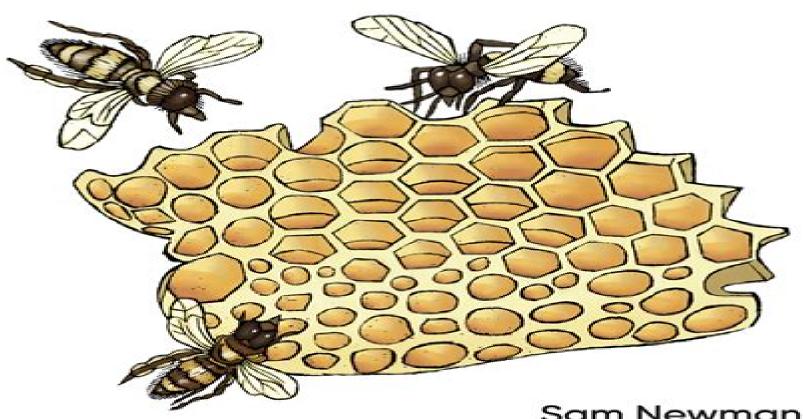
# Building Microservices

**Designing Fine-Grained Systems** 



Sam Newman

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application and database decomposition You ll learn several tried and tested patterns and techniques that you can use as you migrate your existing architecture Ideal for organizations looking to transition to microservices rather than rebuild Helps companies determine whether to migrate when to migrate and where to begin Addresses communication integration and the migration of legacy systems Discusses multiple migration patterns and where they apply Provides database migration examples along with synchronization strategies Explores application decomposition including several architectural refactoring patterns Delves into details of database decomposition including the impact of breaking referential and transactional integrity new failure modes and more Microservices Sam Newman, 2015-07-06 Feingranulare Systeme mit Microservices aufbauen Design Entwicklung Deployment Testen und Monitoring Sicherheitsaspekte Authentifizierung und Autorisierung Verteilte Systeme haben sich in den letzten Jahren stark ver ndert Gro e monolithische Architekturen werden zunehmend in viele kleine eigenst ndige Microservices aufgespalten Aber die Entwicklung solcher Systeme bringt Herausforderungen ganz eigener Art mit sich Dieses Buch richtet sich an Softwareentwickler die sich ber die zielf hrenden Aspekte von Microservice Systemen wie Design Entwicklung Testen Deployment und Monitoring informieren m chten Sam Newman veranschaulicht und konkretisiert seine ganzheitliche Betrachtung der grundlegenden Konzepte von Microservice Architekturen anhand zahlreicher praktischer Beispiele und Ratschl ge Er geht auf die Themen ein mit denen sich Systemarchitekten und Administratoren bei der Einrichtung Verwaltung und Entwicklung dieser Architekturen in jedem Fall auseinandersetzen m ssen Aus dem Inhalt Vorteile von Microservices Gestaltung von Services Ausrichtung der Systemarchitektur an der Organisationsstruktur M glichkeiten zur Integration von Services Schrittweise Aufspaltung einer monolithischen Codebasis Deployment einzelner Microservices mittels Continuous Integration Testen und Monitoring verteilter Systeme Sicherheitsaspekte Authentifizierung und Autorisierung zwischen Benutzer und Service bzw zwischen Services untereinander Skalierung von Microservice Architekturen Microservice Architekturen besitzen viele interessante Eigenschaften allerdings sind bei der Umstellung so einige Fallstricke zu beachten Dieses Buch wird Ihnen helfen herauszufinden ob Microservices fr Ihre Zwecke geeignet sind und zeigt Ihnen wie Sie die Fallstricke umgehen k nnen Martin Fowler Chief Scientist ThoughtWorks Building Microservices, 2nd Edition Sam Newman, 2021 Distributed systems have become more fine grained as organizations shift from code heavy monolithic applications to smaller self contained microservices But developing these systems brings its own set of problems With lots of examples and practical advice this expanded second edition takes a holistic view of the topics system architects and administrators must consider when building managing and evolving microservices architectures Author Sam Newman provides you with a firm grounding in the concepts while diving into the latest solutions for modeling integrating testing deploying and monitoring your own autonomous services Through real world examples you ll learn how organizations worldwide are getting the most out of these architectures Microservices technologies are moving quickly This book brings you up to speed Get new information on user

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