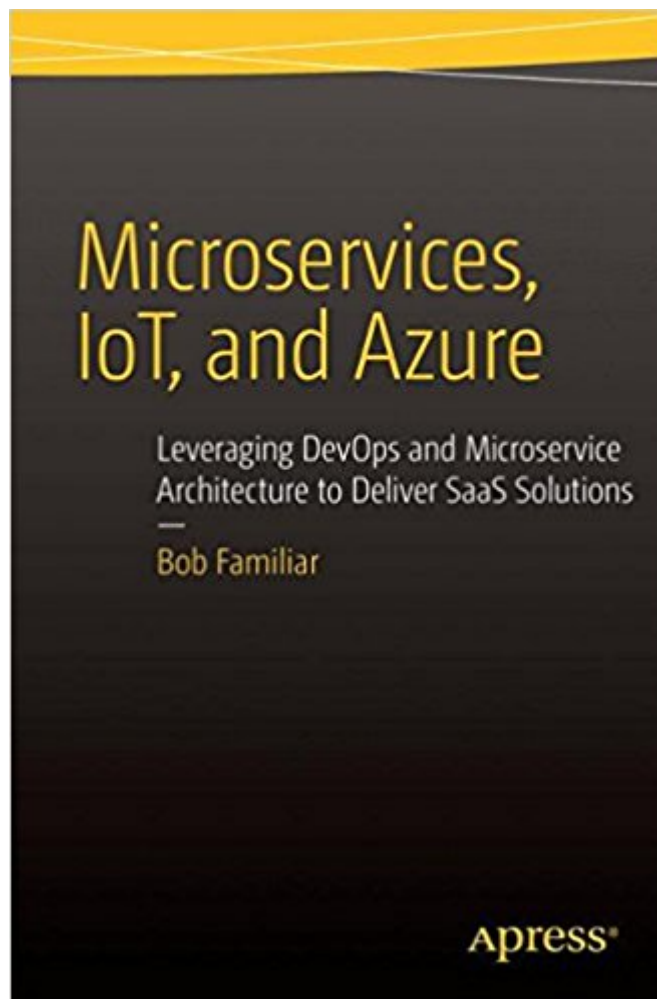


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# Microservices, IoT And Azure: Leveraging DevOps And Microservice Architecture To Deliver SaaS Solutions



## Synopsis

This book provides practical guidance for adopting a high velocity, continuous delivery process to create reliable, scalable, Software-as-a-Service (SaaS) solutions that are designed and built using a microservice architecture, deployed to the Azure cloud, and managed through automation.

Microservices, IoT, and Azure offers software developers, architects, and operations engineers a step-by-step directions for building SaaS applications that are available 24x7, work on any device, scale elastically, and are resilient to change--through code, script, exercises, and a working reference implementation. The book provides a working definition of microservices and contrasts this approach with traditional monolithic Layered Architecture. A fictitious, homebiomedical startup is used to demonstrate microservice architecture and automation capabilities for cross-cutting and business services as well as connected device scenarios for Internet of Things (IoT). Several Azure PaaS services are detailed including Storage, SQL Database, DocumentDb, Redis Cache, Cloud Services, Web API's, API Management, IoT Hub, IoT Suite, Event Hub, and Stream Analytics. Finally the book looks to the future and examines Service Fabric to see how microservices are becoming the de facto approach to building reliable software in the cloud. In this book, you will learn: What microservices are and why are they a compelling architecture pattern for SaaS applications How to design, develop, and deploy microservices using Visual Studio, PowerShell, and Azure Microservice patterns for cross-cutting concerns and business capabilities Microservice patterns for Internet of Things and big data analytics solutions using IoT Hub, Event Hub, and Stream Analytics Techniques for automating microservice provisioning, building, and deployment What Service Fabric is and how it is the future direction for microservices on Microsoft Azure

## Book Information

Paperback: 188 pages

Publisher: Apress; 1st ed. edition (October 20, 2015)

Language: English

ISBN-10: 1484212762

ISBN-13: 978-1484212769

Product Dimensions: 6.1 x 0.5 x 9.2 inches

Shipping Weight: 12 ounces (View shipping rates and policies)

Average Customer Review: 4.5 out of 5 stars See all reviews (10 customer reviews)

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## Customer Reviews

It is a great resource for planning out a Microservice Architecture. The reference implementation is a great example for building these solutions and can easily be built using other cloud platforms besides Azure.

From a generalists perspective this is not deep enough on Microservices or IoT - but quite likely very good if you want to build something running on Azure. Chapter 1: From Monolithic to Microservice - more or less states that you have to be able to do what is expected of an agile team deploying microservices, that is really lacking depth. Chapter 2: What is a Microservice - seems to have a common understanding of the definition, less on the "How to make (a good) one" Chapter 3: Microservice Architecture - again this seems to land in the common understanding. Focus on Separation of Concerns Chapter 4: Azure, a Microservice Platform - nice introduction on Azure I think Chapter 5: Automation - or perhaps better named "Automation with Azure" as it is a very thorough walk through of how, why, and what with regards to automation using Azure. Chapter 6: Microservice Reference Implementation - exactly what it says Chapter 7: IoT and Microservices - this is more in the IoT = app (MicroSoft) and how to setup a backend with analytics on Azure Chapter 8:: Service Fabric - another MicroSoft product

This is good book to understand the various Microsoft AWS services and how to build applications around it. The microservices is very well covered. However, I felt the IoT use cases and implementation was too thin. Good book to get overview on Microservices and AWS services.

This is pretty much what I was looking for in terms of getting Microservices on Azure. The sample code and explanation in the book is just perfect!

Beginners overview on Azure services. Some important topics on scaling and production deployment is not much covered.

Great book, super helpful for how to create apps in Azure.

Great introduction to Azure

Extremely informative!!

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