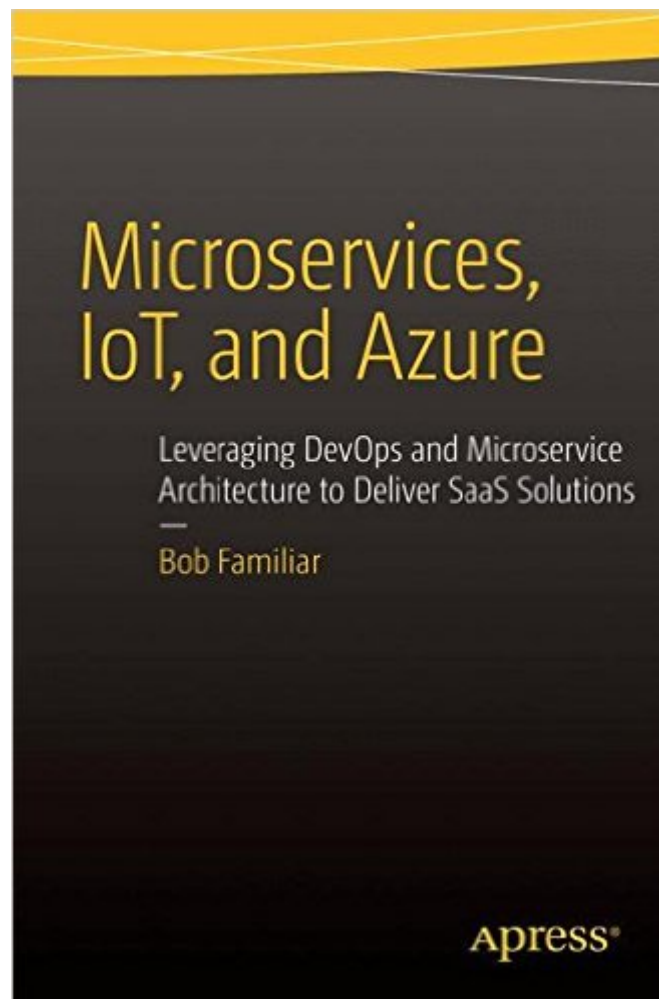# Microservices, IoT And Azure: Leveraging DevOps And Microservice Architecture To Deliver SaaS Solutions

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 engineersâ ™ step-by-step directions for building SaaS applicationsâ •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, youâ ™ll learn:What microservices are and why are theyâ ™re 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 capabilitiesMicroservice patterns for Internet of Things and big data analytics solutions using IoT Hub, Event Hub, and Stream AnalyticsTechniques for automating microservice provisioning, building, and deployment What Service Fabric is and how itâ ™s 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 starsÂ Â See all reviewsÂ (10 customer reviews)

Best Sellers Rank: #261,610 in Books (See Top 100 in Books)   #81 inÂ Books > Computers &

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 ConcernsChapter 4: Azure, a Microservice Platform - nice introduction on Azure I thinkChapter 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 saysChapter 7: IoT and Microservices - this is more in the IoT = app (MicroSoft) and how to setup a backend with analytics on AzureChapter 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 wellcovered. 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 introduktion to Azure

Extremely informative!!

Microservices, IoT and Azure: Leveraging DevOps and Microservice Architecture to deliver SaaS Solutions Exam Ref 70-533 Implementing Microsoft Azure Infrastructure Solutions Exam Ref 70-534 Architecting Microsoft Azure Solutions Enterprise IoT: Strategies and Best Practices for Connected Products and Services Cloud Computing: SaaS, PaaS, IaaS, Virtualization, Business Models, Mobile, Security and More Building Microservices Exam Ref 70-487 Developing Windows Azure and Web Services (MCSD) Mastering Cloud Development using Microsoft Azure Predictive Analytics with Microsoft Azure Machine Learning 2nd Edition Ansible for DevOps: Server and configuration management for humans Continuous Delivery and DevOps: A Quickstart Guide - Second Edition The Phoenix Project: A Novel About IT, DevOps, and Helping Your Business Win Leading the Transformation: Applying Agile and DevOps Principles at Scale The DevOps Handbook: How to Create World-Class Agility, Reliability, and Security in Technology Organizations Practical DevOps Agile Application Lifecycle Management: Using DevOps to Drive Process Improvement DevOps on the Microsoft Stack Data Analytics: Practical Data Analysis and Statistical Guide to Transform and Evolve Any Business. Leveraging the Power of Data Analytics, Data ... (Hacking Freedom and Data Driven) (Volume 2) Fanatical Prospecting: The Ultimate Guide for Starting Sales Conversations and Filling the Pipeline by Leveraging Social Selling, Telephone, E-Mail, and Cold Calling Fanatical Prospecting: The Ultimate Guide to Opening Sales Conversations and Filling the Pipeline by Leveraging Social Selling, Telephone, Email, Text, and Cold Calling