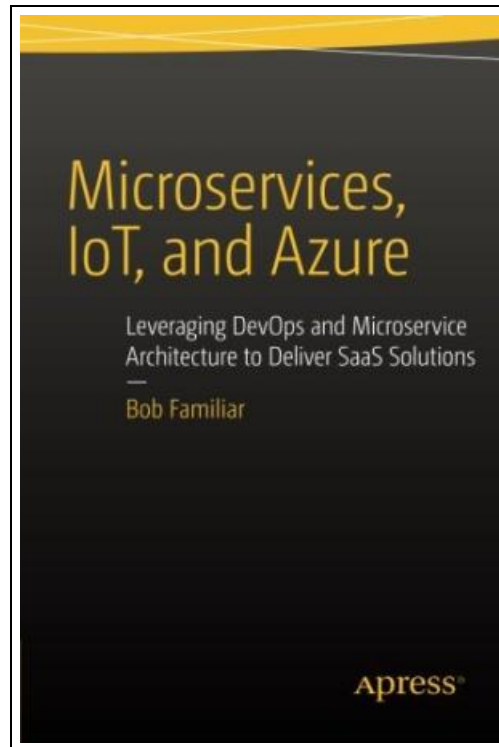# Microservices, IoT and Azure: Leveraging DevOps and Microservice Architecture to Deliver SaaS Solutions: 2015

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Springer-Verlag Berlin and Heidelberg GmbH & Co. KG. Paperback. Book Condition: new. BRAND NEW, Microservices, IoT and Azure: Leveraging DevOps and Microservice Architecture to Deliver SaaS Solutions: 2015, Bob Familiar, Microservices, IoT & Azure makes the case for adopting a high velocity, continuous delivery process to create reliable, scalable Software as a Service solutions that are designed and built using a microservice architecture, deployed to the Azure cloud and managed through automation. SaaS applications are software products that are available 24x7, work on any device, scale elastically and are resilient to change. This book provides software developers, architects and operations engineers' practical guidance on this approach to software development through code, script, exercises and a working reference implementation. A working definition of microservices will be presented and the approach will be contrasted with traditional monolithic Layered Architecture. A reference implementation for a fictitious home biomedical startup will be 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 will be 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 we will look to the future and examine Service Fabric to see how microservices are becoming the De facto approach to building reliable software in the cloud. *What are microservices 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, build and deployment *What is Service Fabric and how that is the future direction...

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