



# Production-Ready Microservices: Building Standardized Systems Across an Engineering Organization

*Susan J. Fowler*

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## **Production-Ready Microservices: Building Standardized Systems Across an Engineering Organization**

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One of the biggest challenges for organizations that have adopted microservice architecture is the lack of architectural, operational, and organizational standardization. After splitting a monolithic application or building a microservice ecosystem from scratch, many engineers are left wondering what's next. In this practical book, author Susan Fowler presents a set of microservice standards in depth, drawing from her experience standardizing over a thousand microservices at Uber. You'll learn how to design microservices that are stable, reliable, scalable, fault tolerant, performant, monitored, documented, and prepared for any catastrophe.

Explore production-readiness standards, including:

- **Stability and Reliability:** develop, deploy, introduce, and deprecate microservices; protect against dependency failures
- **Scalability and Performance:** learn essential components for achieving greater microservice efficiency
- **Fault Tolerance and Catastrophe Preparedness:** ensure availability by actively pushing microservices to fail in real time
- **Monitoring:** learn how to monitor, log, and display key metrics; establish alerting and on-call procedures
- **Documentation and Understanding:** mitigate tradeoffs that come with microservice adoption, including organizational sprawl and technical debt

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