MONOLITHS TO MICROSERVICES

Sam Newman

Introduction



O'REILLY"



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Day One

Day One

What & Why Of Microservices

Day One

What & Why Of Microservices

Planning A Transition

Day One

What & Why Of Microservices

Planning A Transition

Day One

What & Why Of Microservices

Planning A Transition

Day One

Day Two

What & Why Of Microservices

Planning A Transition

Day One

Day Two

What & Why Of Microservices

Migrating a running system

Planning A Transition

Day	One
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What & Why Of Microservices

Planning A Transition

Splitting stateless and stateful services

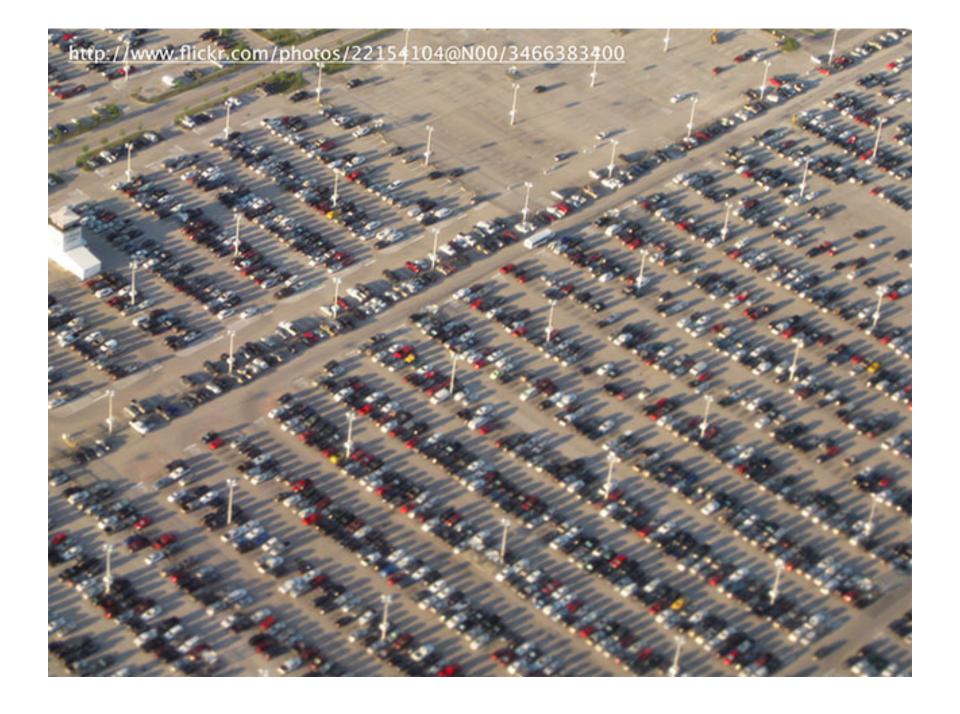
Day Two

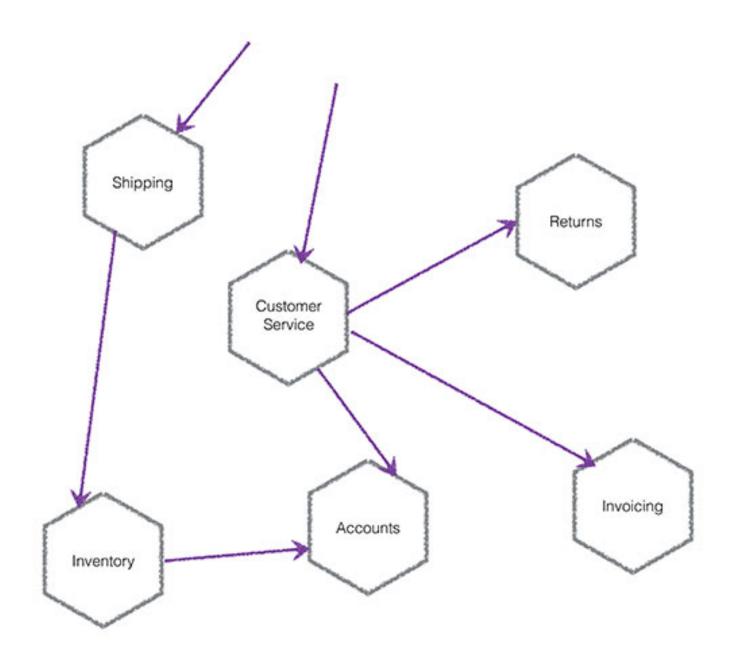
Migrating a running system

Build & Deployment

Day One	Day Two
What & Why Of Microservices	Migrating a running system
Planning A Transition	Build & Deployment
Splitting stateless and stateful services	Monitoring





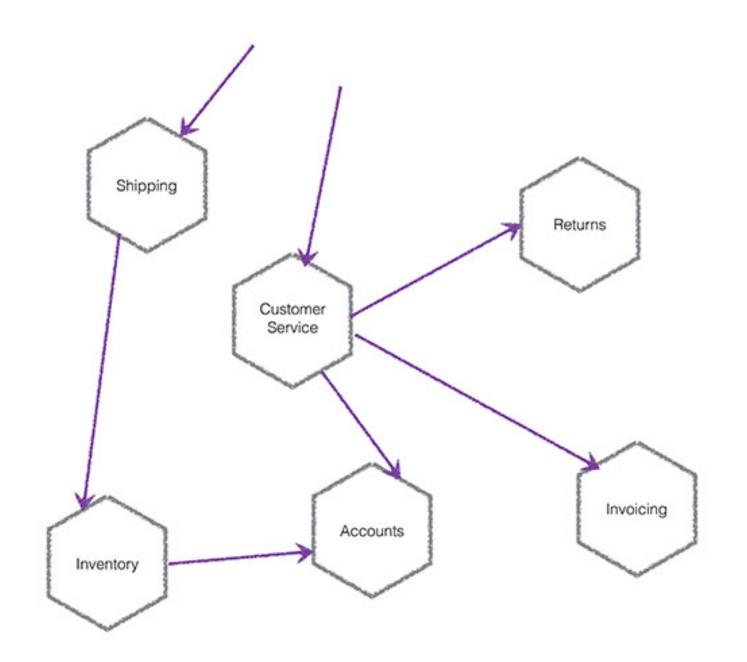




Small?

Independently Deployable?

Business Domain?



Technology?

And SOA?

Manifesto for Agile Software Development

We are uncovering better ways of developing software by doing it and helping others do it. Through this work we have come to value:

Individuals and interactions over processes and tools
Working software over comprehensive documentation
Customer collaboration over contract negotiation
Responding to change over following a plan

That is, while there is value in the items on the right, we value the items on the left more.

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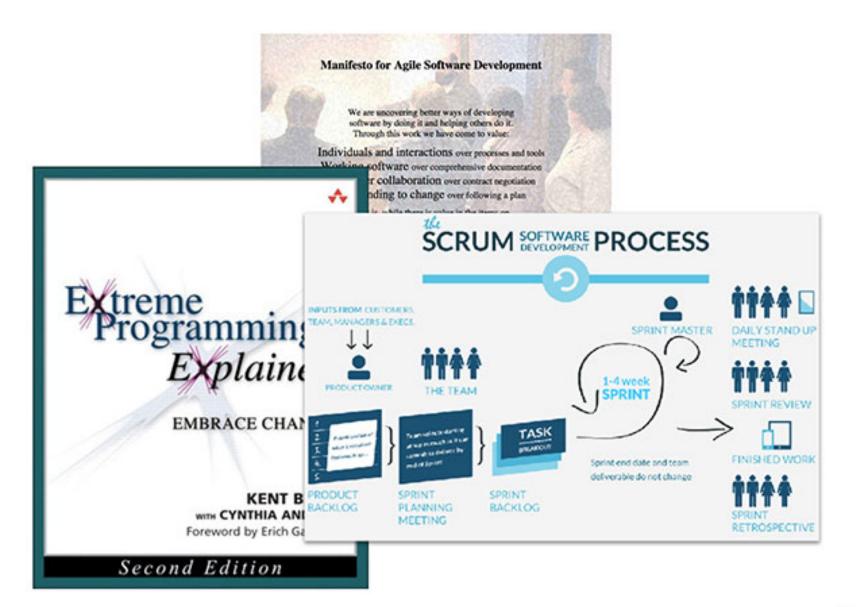


EMBRACE CHANGE

KENT BECK WITH CYNTHIA ANDRES

Foreword by Erich Gamma

Second Edition



Why Use Them?

Go Faster

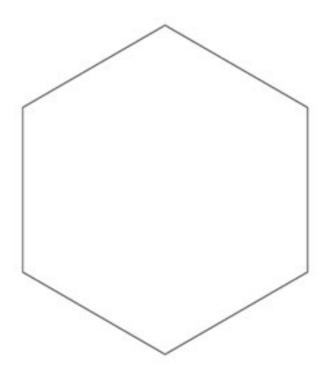
Go Faster

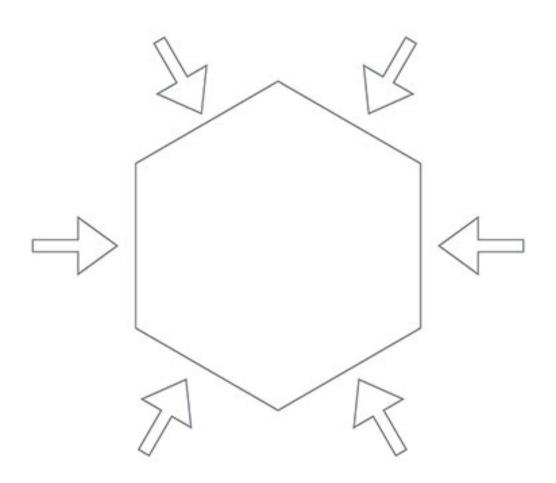
Scale Teams

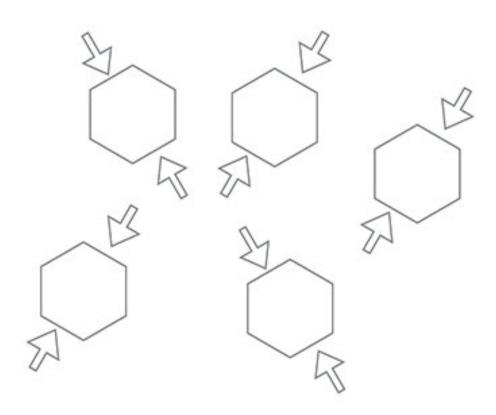
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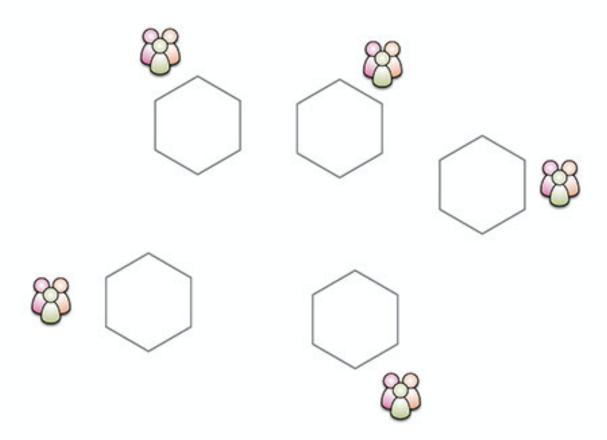
Scale Teams

Empowerment









New Technology

New Technology

Security

New Technology

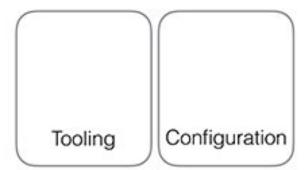
Security

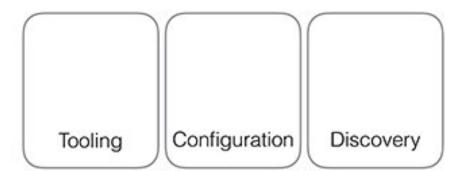
Scale Application

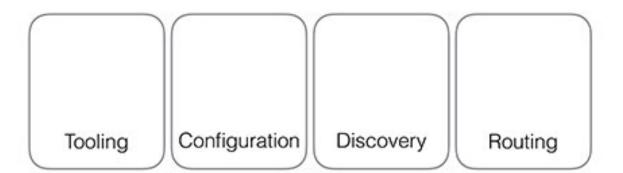
What Are The Problems?

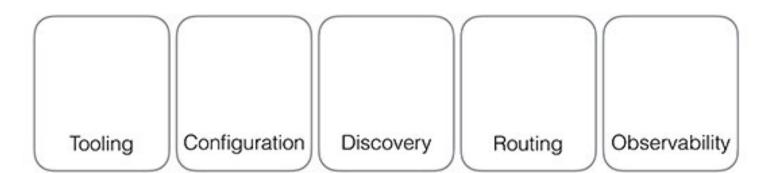


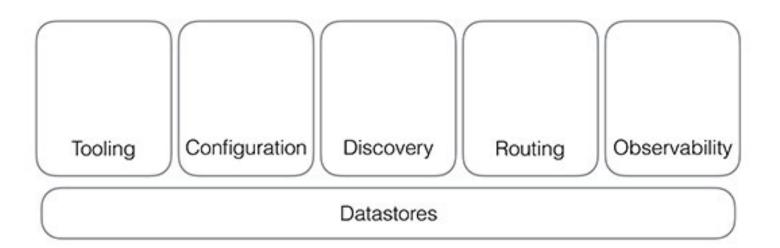
Tooling

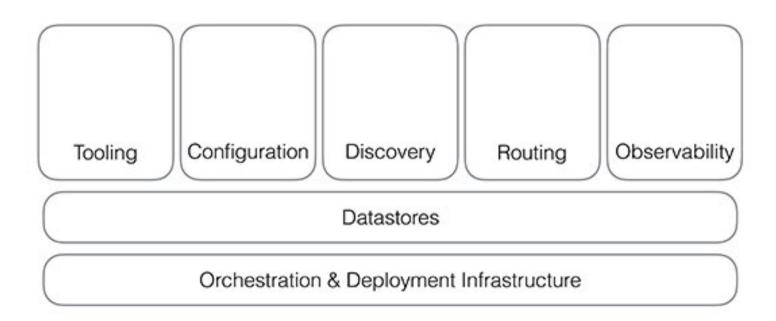


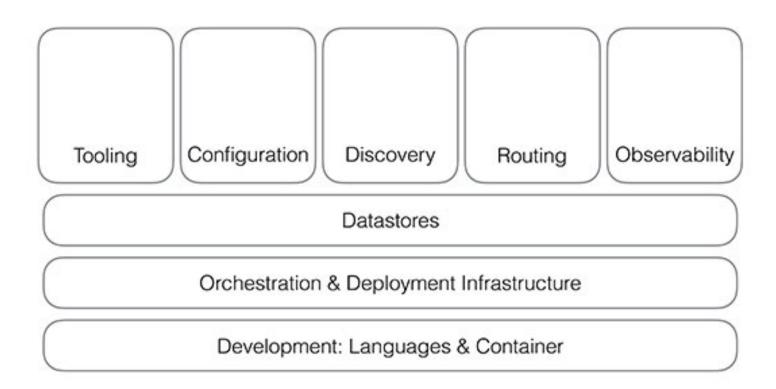


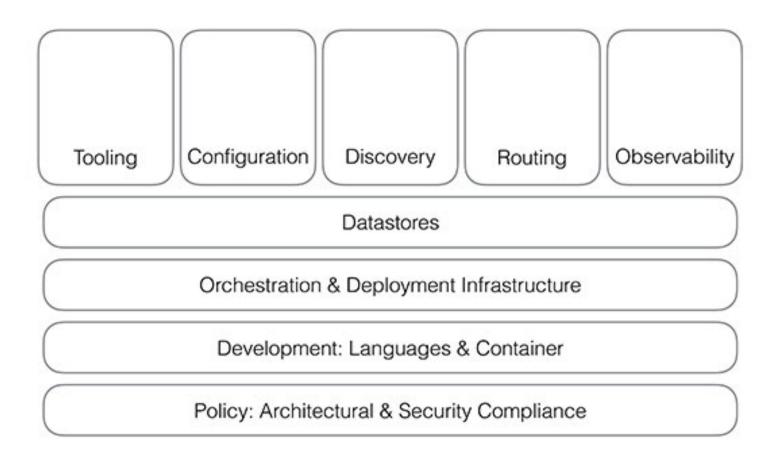












Based on a model from Adrian Cockcroft: http://www.slideshare.net/adriancockcroft/evolution-of-microservices-craft-conference

Transactions

Transactions

CAP!

Transactions

CAP!

Monitoring

Transactions

CAP!

Monitoring

Testing

Investment In New Tooling

Co-ordination

Knowing where to start

What does good look like

How to manage a transition