



<u>ad</u> danailov





Topics Today

- What is Microservices ?
- Microservices Architecture
- Microservices Benefits
- Service Failure
- Vagrant
- Amazon
- Demo







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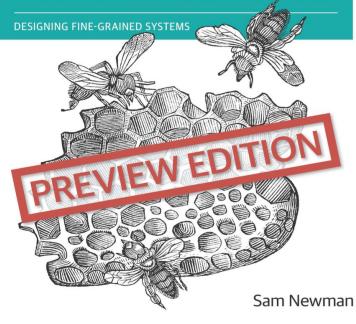
Dentist waiting room



Image source: https://s-media-cache-ak0.pinimg.com/736x/49/0e/f4/490ef423bc021325e9298d1db3f11af4.jpg

O'REILLY*

Building Microservices



ThoughtWorks[®]

Microservices

Martin Fowler

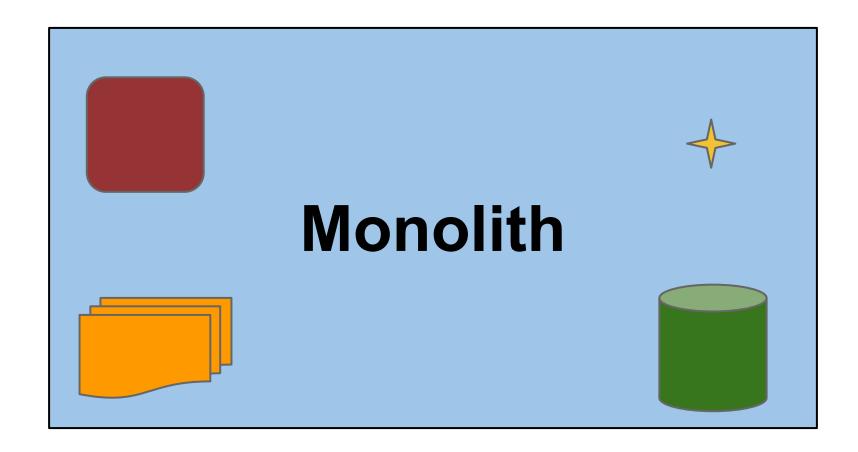
http://martinfowler.com @martinfowler http://thoughtworks.com

Perfect World



Image source: http://nerdapproved.com/wp-content/uploads/2015/07/everything-is-awesome.jpg

Failure is Everywhere



What is Microservices?

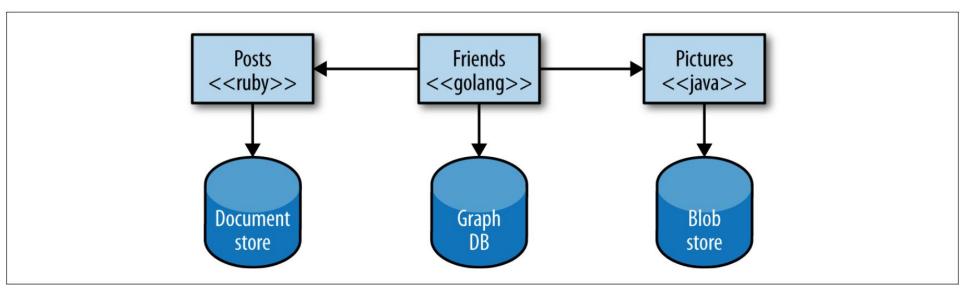
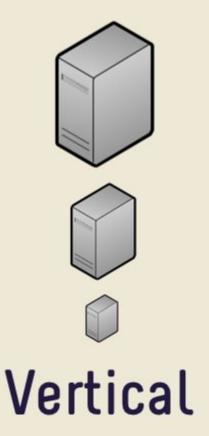


Figure 1-1. Microservices can allow you to more easily embrace different technologies

Microservices Benefits?



Horizontal

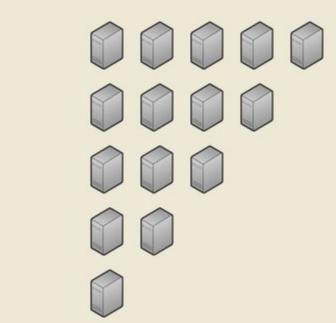


Image source: http://www.pc-freak.net/images/horizontal-vs-vertical-scaling-vertical-and-horizontal-scaling-explained-diagram.png

VS.

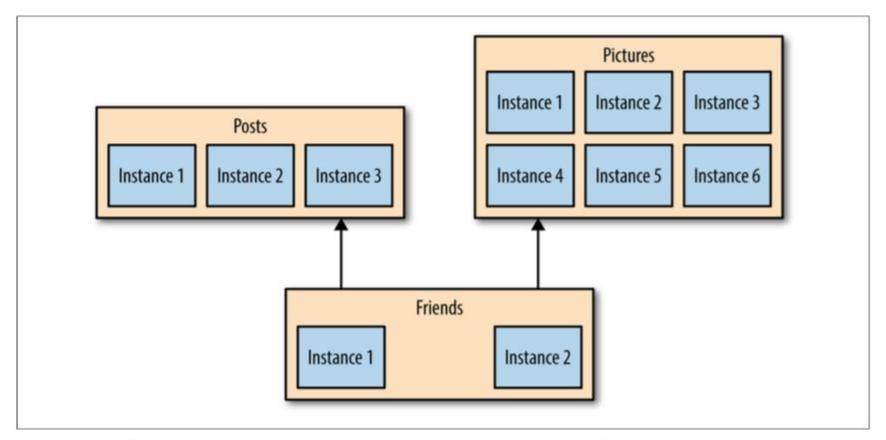


Figure 1-2. You can target scaling at just those microservices that need it

Microservices Architecture

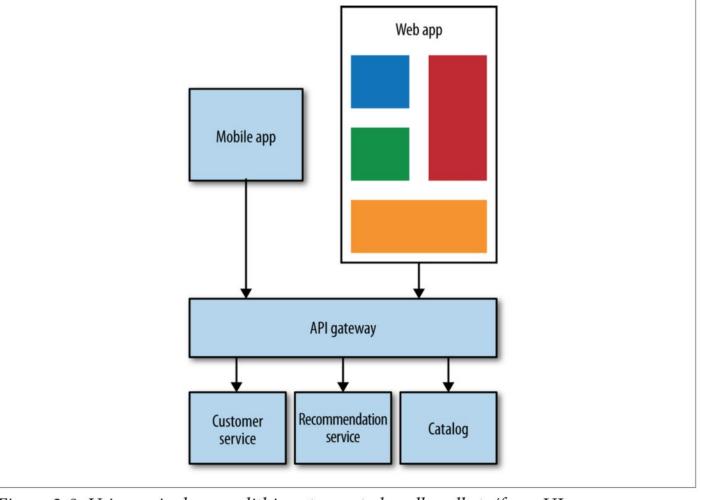


Figure 2-9. Using a single monolithic gateway to handle calls to/from UIs

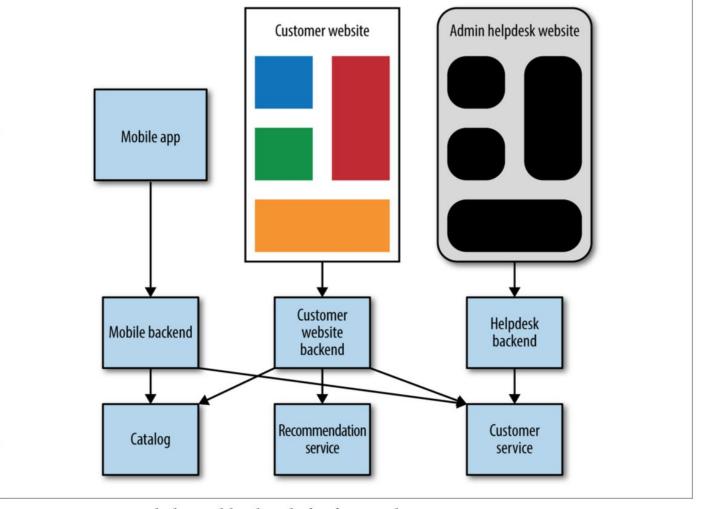
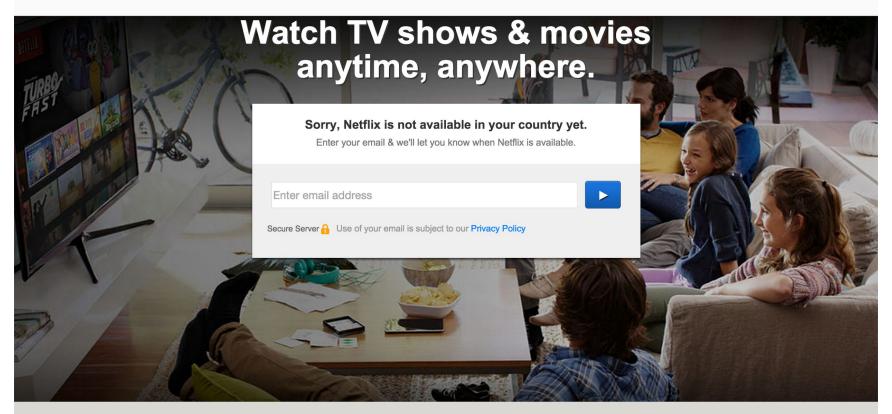


Figure 2-10. Using dedicated backends for frontends

Failure is Everywhere













Simplicity

Microservices

Simplicity

Microservices

Partial Development

Simplicity

Microservices

Partial Development

Availability

Simplicity

Consistency

Microservices

Partial Development

Availability

Simplicity

Consistency

Microservices

Partial Development

Availability

Preserve Modularity

Simplicity

Consistency

Inter - module refactoring

Microservices

Partial Development

Availability

Preserve Modularity

Simplicity

Consistency

Inter - module refactoring

Microservices

Partial Development

Availability

Preserve Modularity

Multiple platforms

Automatization



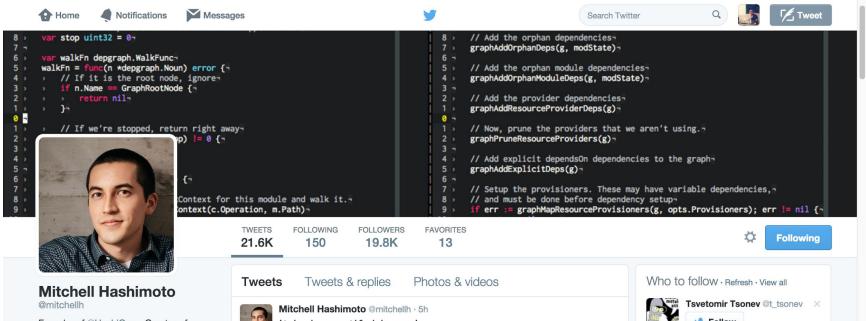


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Create and configure lightweight, reproducible, and portable development environments.

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Founder of @HashiCorp. Creator of Vagrant, Packer, Serf, Consul, Terraform, Vault, Nomad, and Otto. Lover of open source. Automation-obsessed developer.

San Francisco, CA

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(L) Joined January 2008

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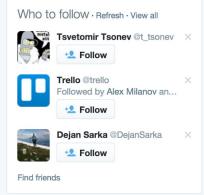






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Trends · Change #SpookyBands

#HTGAWM #Scandal



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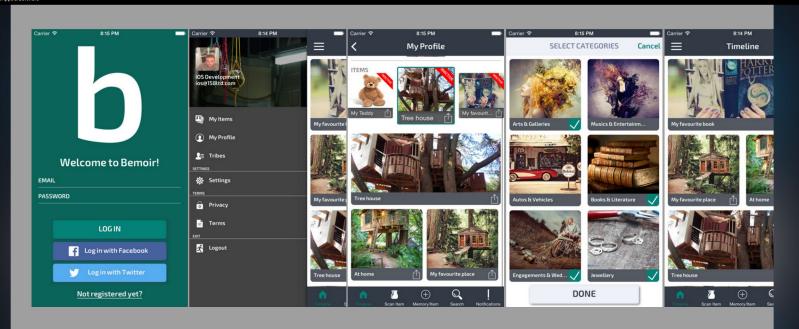
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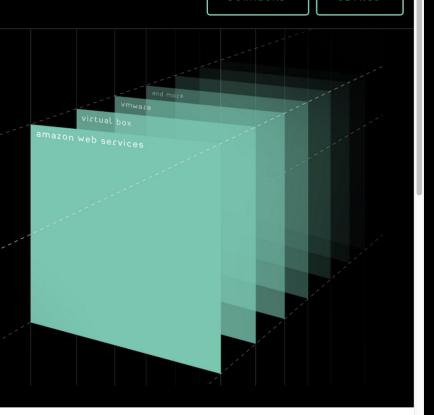
A tool to build development environments based on virtual machines

Focused to create environments that are similar as possible or identical with production server

Created by Mitchell Hashimoto

Written in Ruby

Packer is a tool for creating machine and container images for multiple platforms from a single source configuration.





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Partial Development

Disadvantages

Partial Development

DisadvantagesCORS

Partial Development

Disadvantages

CORS

New Pattern

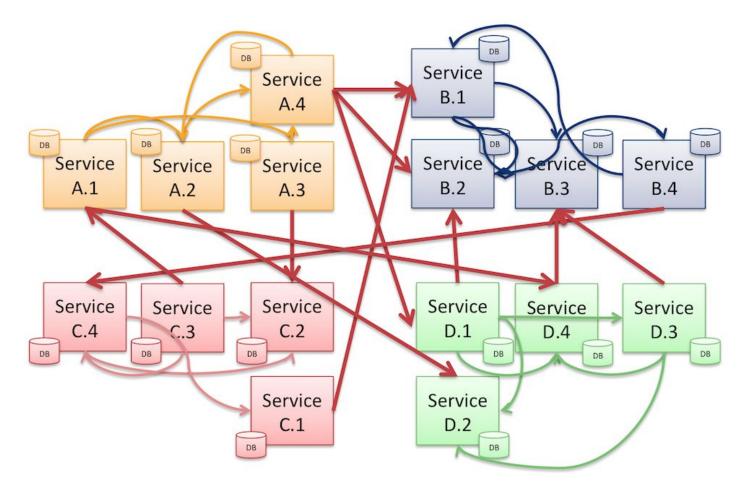
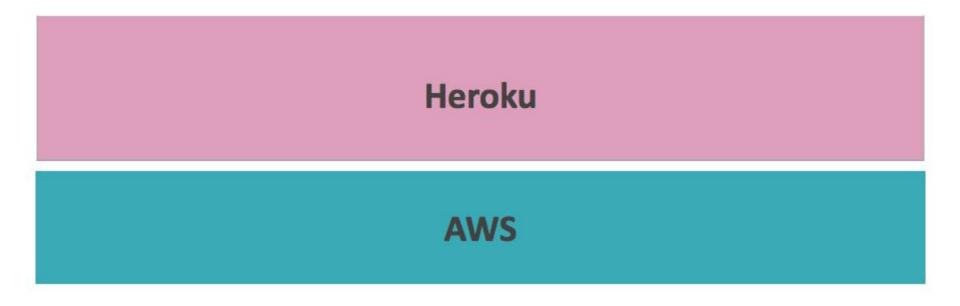


Image source: https://www.tigerteam.dk/wp-content/uploads/2014/05/monolith-sliced-up-into-microservices.png



Partial Development

Multi Platform

Disadvantages

CORS

New Pattern

Partial Development

Multi Platform

Disadvantages

CORS

New Pattern

Cloud

Partial Development

Multi Platform

Cloud

Disadvantages

CORS

New Pattern

Cloud

Partial Development

Multi Platform

Cloud

Disadvantages

CORS

New Pattern

Cloud

Hardware

Partial Development

Multi Platform

Cloud

Faster Setup

Disadvantages

CORS

New Pattern

Cloud

Hardware

GitHub Gist

Demo

Front End

Amazon

Vagrant

Angularjs

Nginx

Back End

Azure

MongoDB

Asp.Net MVC

Vagrant and Docker







Should I use Vagrant or Docker.io for creating an isolated environment?



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Questions





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Founder at **VarnalT**



