

# Architecting for Continuous Delivery with Microservices



# Session

# Four

# Deploying and Running Microservices



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## Microservices - Not A Free Lunch!

TUESDAY, APRIL 8, 2014 AT 8:54AM

*This is a guest post by [Benjamin Wootton](#), CTO of [Contino](#), a London based consultancy specialising in applying DevOps and Continuous Delivery to software delivery projects.*

Microservices are a style of software architecture that involves delivering systems as a set of very small, granular, independent collaborating services.



### APPDYNAMICS

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☑ Amazon Cloud    ☑ Database

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mongoDB



Messaging Giant  
Replacing MongoDB  
with Couchbase.



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- Significant Operations Overhead
- Substantial DevOps Skills Required
- Implicit Interfaces
- Duplication of Effort
- Distributed System Complexity
- Asynchronicity is Difficult!
- Testability Challenges

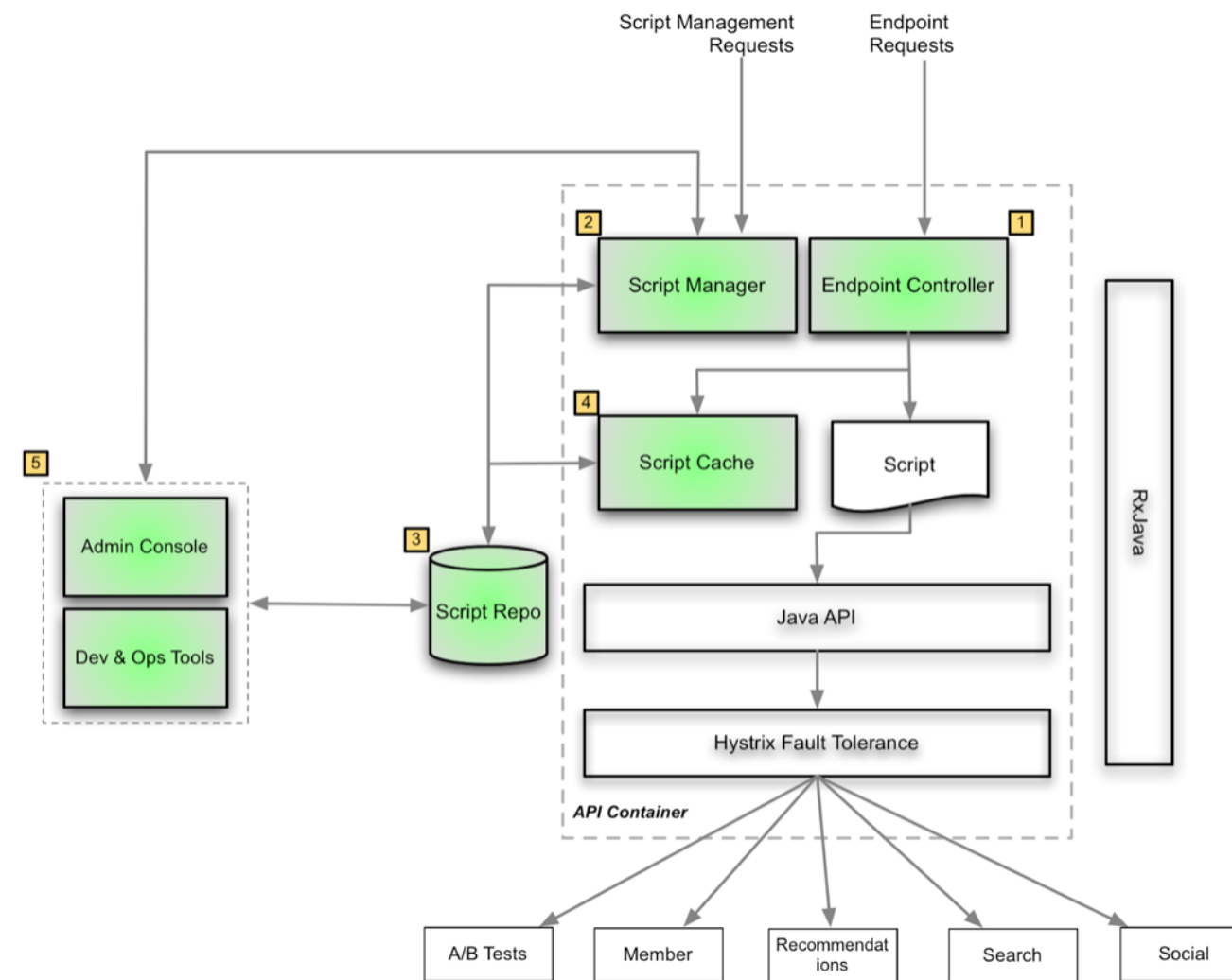
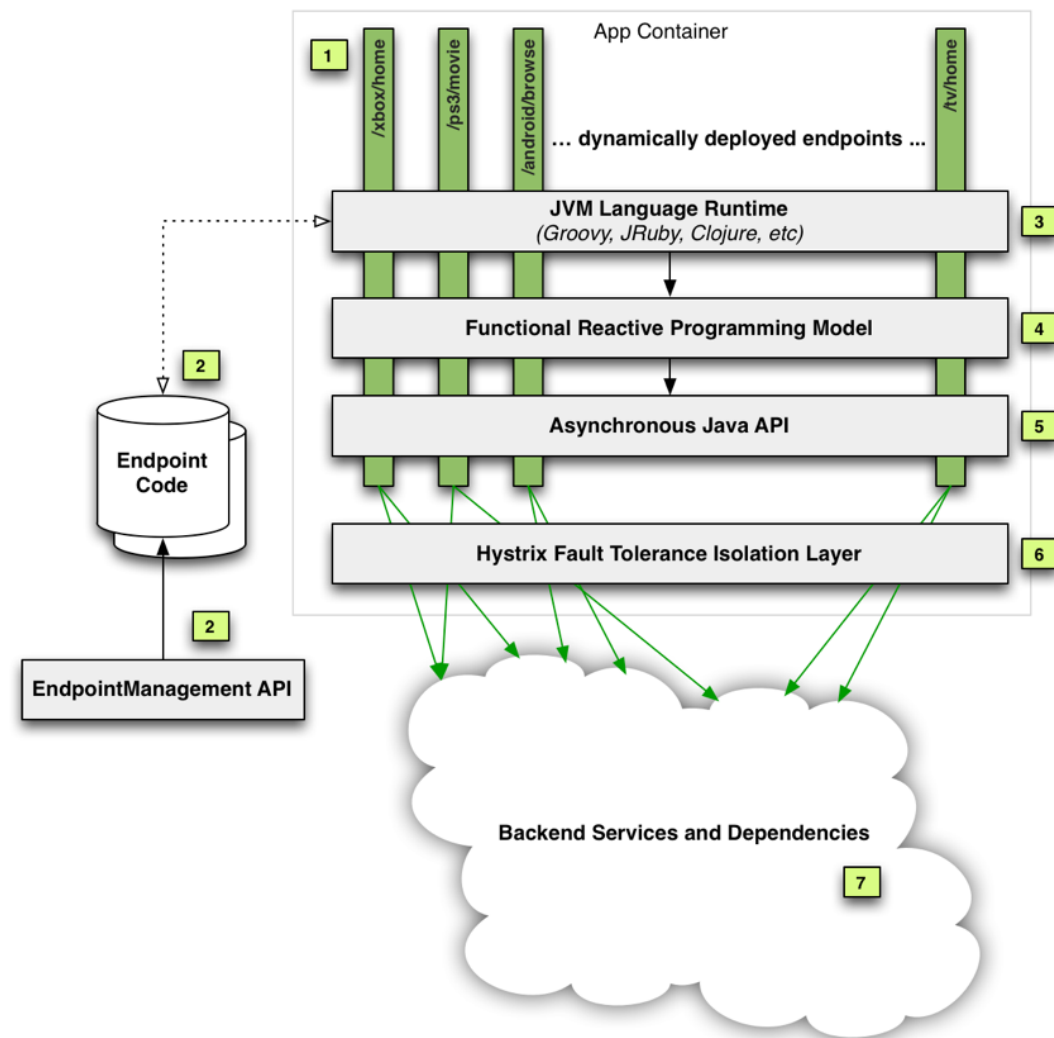
# You must be this tall to use Microservices

- *RAPID PROVISIONING*
- *BASIC MONITORING*
- *RAPID APPLICATION  
DEPLOYMENT*
- *DEVOPS CULTURE*

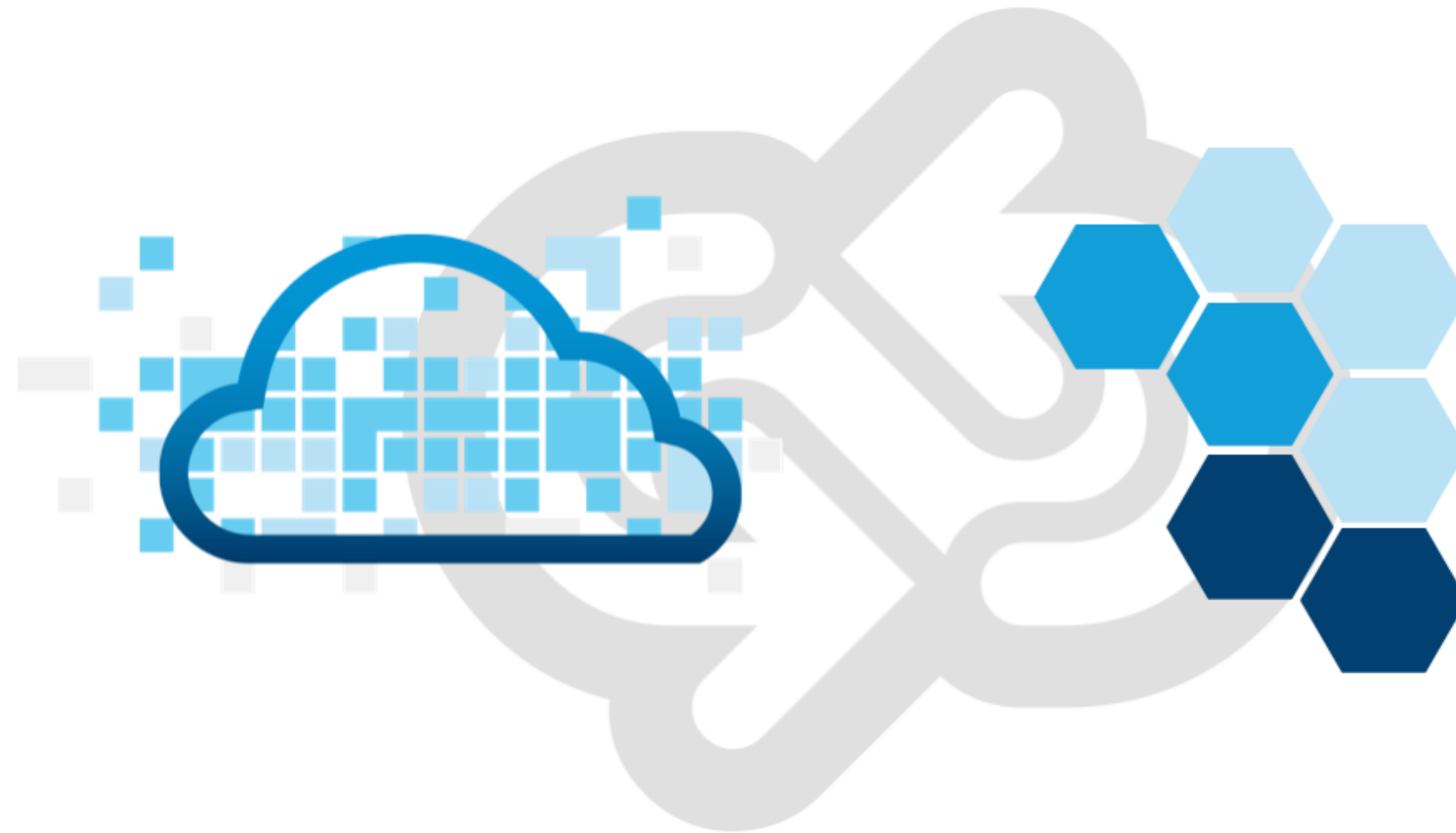
[http://martinfowler.com/bliki/  
MicroservicePrerequisites.html](http://martinfowler.com/bliki/MicroservicePrerequisites.html)



# It Takes a Platform (NETFLIX)



# A Symbiotic Relationship





# Platform Features

- *Environment Provisioning*
- *On-Demand Scaling*
- *Failover/Resilience*
- *Routing/Load Balancing*
- *Data Service Operations (BOSH)*
- *Monitoring*

Better  
Caught  
Than  
Taught!

TO THE

LABS!