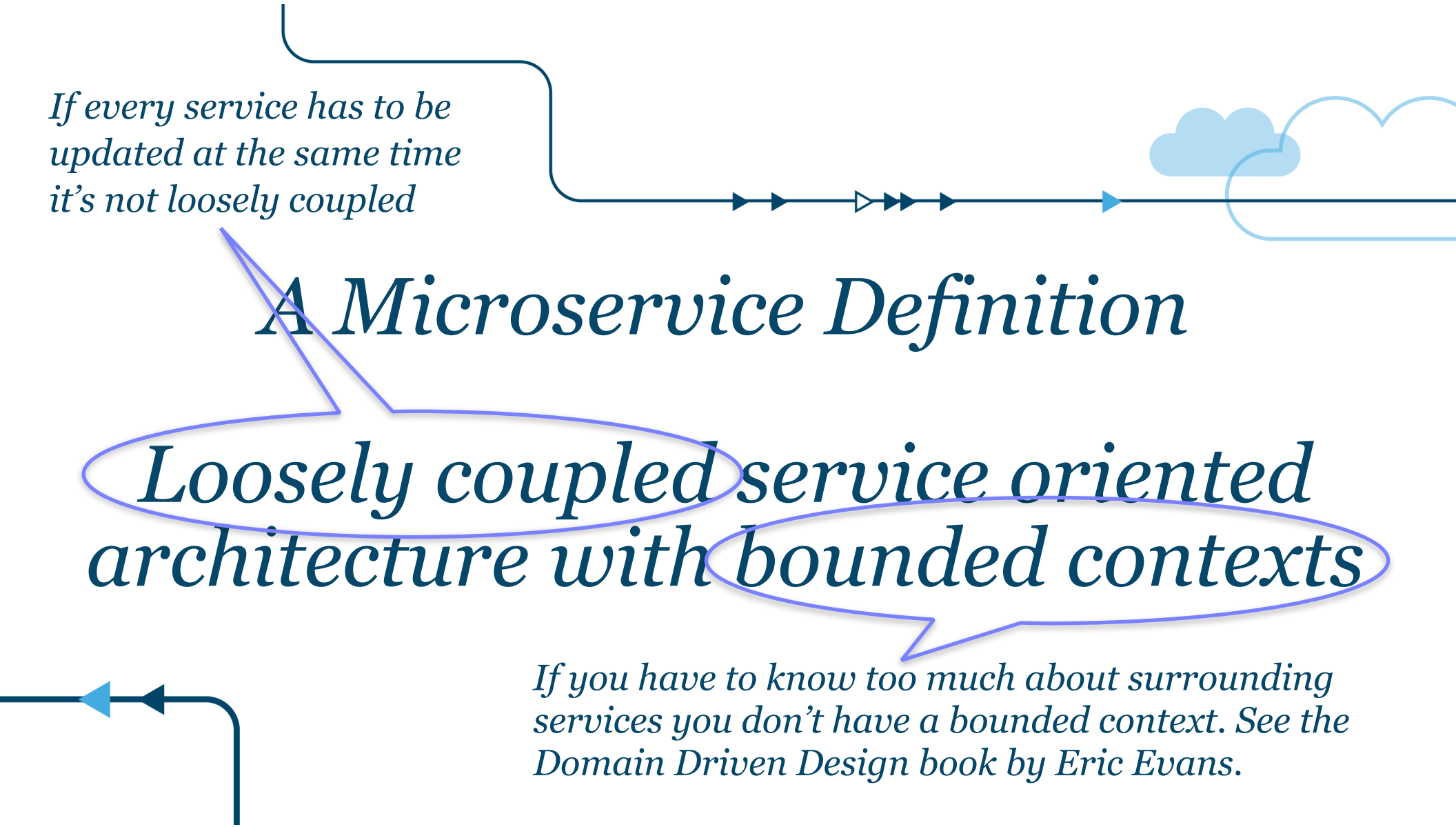
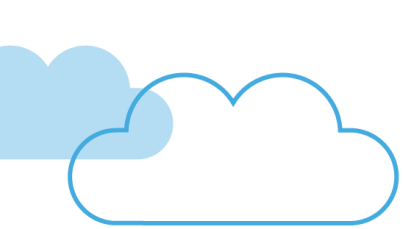
Microservices

해외 사례 소개

Adrian Cockcroft, State of the Art in Microservices
http://www.slideshare.net/adriancockcroft/dockercon-state-of-the-art-in-microservices 중


If every service has to be updated at the same time it's not loosely coupled
A Microservice Definition
Loosely coupled service oriented architecture with bounded contexts
If you have to know too much about surrounding services you don't have a bounded context. See the Domain Driven Design book by Eric Evans.

State of the Art in Web Scale Microservice Architectures



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AWS Re:Invent : Asgard to Zuul https://www.youtube.com/watch?v=p7ysHhs5hl0
Resiliency at Massive Scale https://www.youtube.com/watch?v=ZfYJHtVL1_w
Microservice Architecture https://www.youtube.com/watch?v=CriDUYtfrjs

http://www.infoq.com/presentations/scale-gilt

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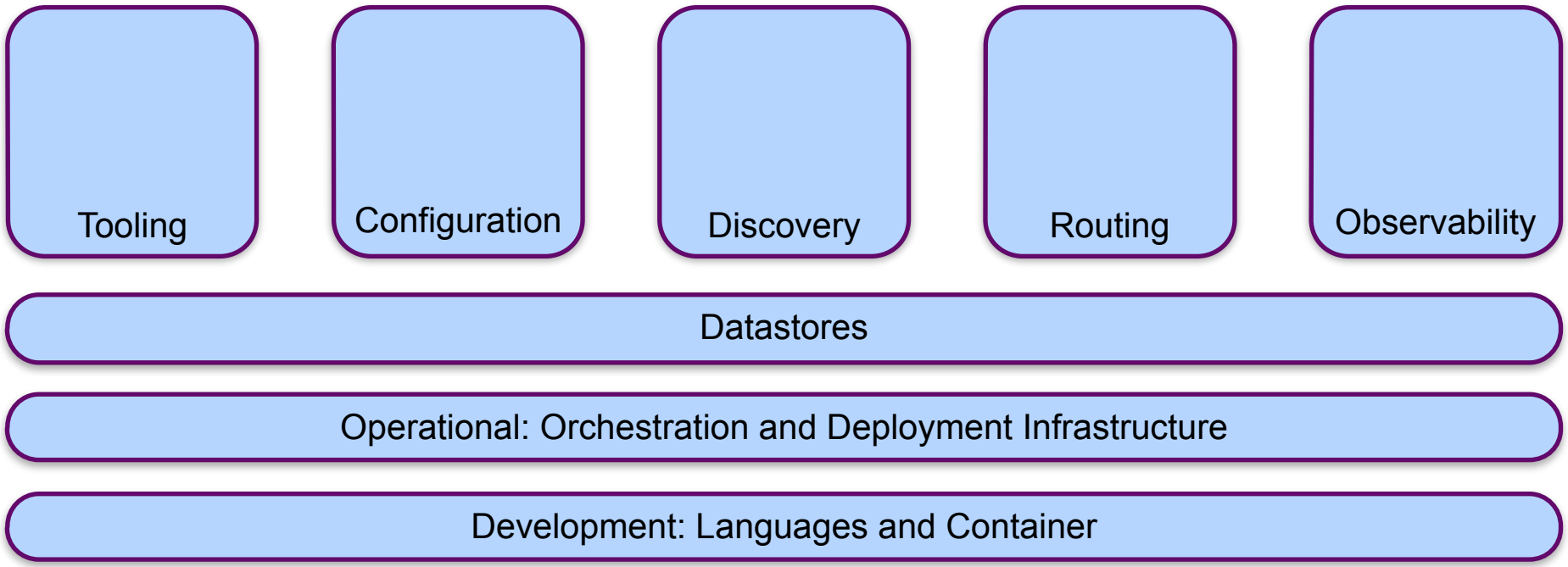
http://www.slideshare.net/mcculloughsean/itier-breaking-up-the-monolith-philly-ete

http://www.infoq.com/presentations/Twitter-Timeline-Scalability
http://www.infoq.com/presentations/twitter-soa
http://www.infoq.com/presentations/Zipkin

https://speakerdeck.com/mattheath/scaling-micro-services-in-go-highload-plus-plus-2014

Microservice Concerns



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Asgard Aminator Tooling	Edda Archaius Configuration	Eureka Prana Discovery	Denominator Zuul, Netty Ribbon 2.0 Routing	Hystrix Pytheus SALP Observability

Ephemeral datastores using Dynomite, Memcached, Astyanax, Staash, Priam, Cassandra

Manual Orchestration with Asgard and deployment on AWS or Eucalyptus

Java, Groovy, Scala, Clojure, Python, Node.js with AMI and Docker Containers

Focus on global distribution, high scale and availability


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waze
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vennetics
swrve
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Yammer
FullContact
flipkart.com
globus genomics
RIOT GAMES
coursera
yelp
Hotels.com
MORTAR
AnsWerS
YAHOO!
EUCALYPTUS
StumbleUpon
Maginatics
UserEvents
bazaarvoice
OpenSCG
SUNCORP GROUP

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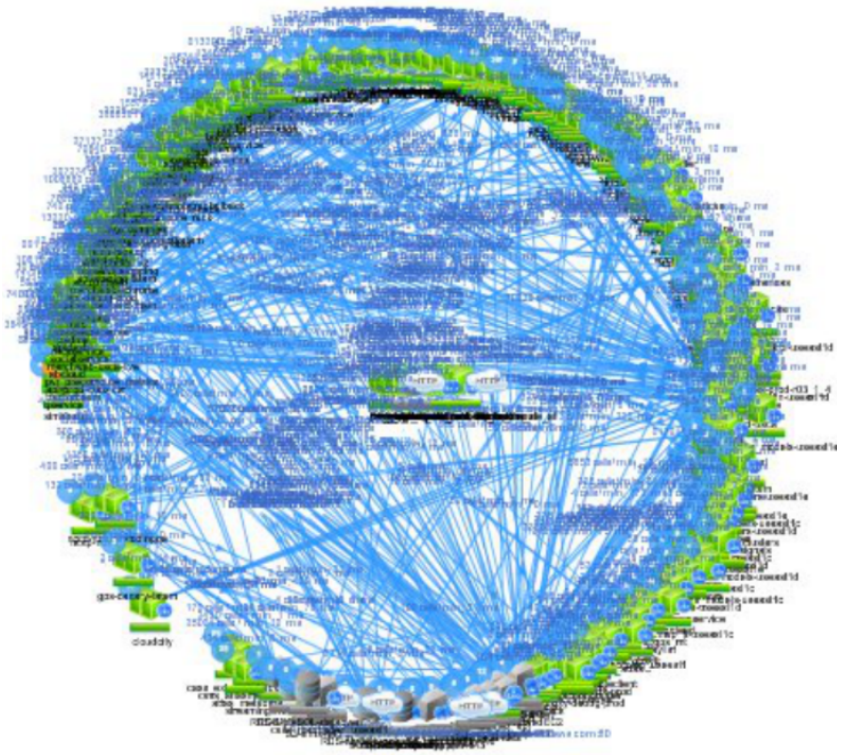
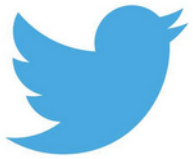
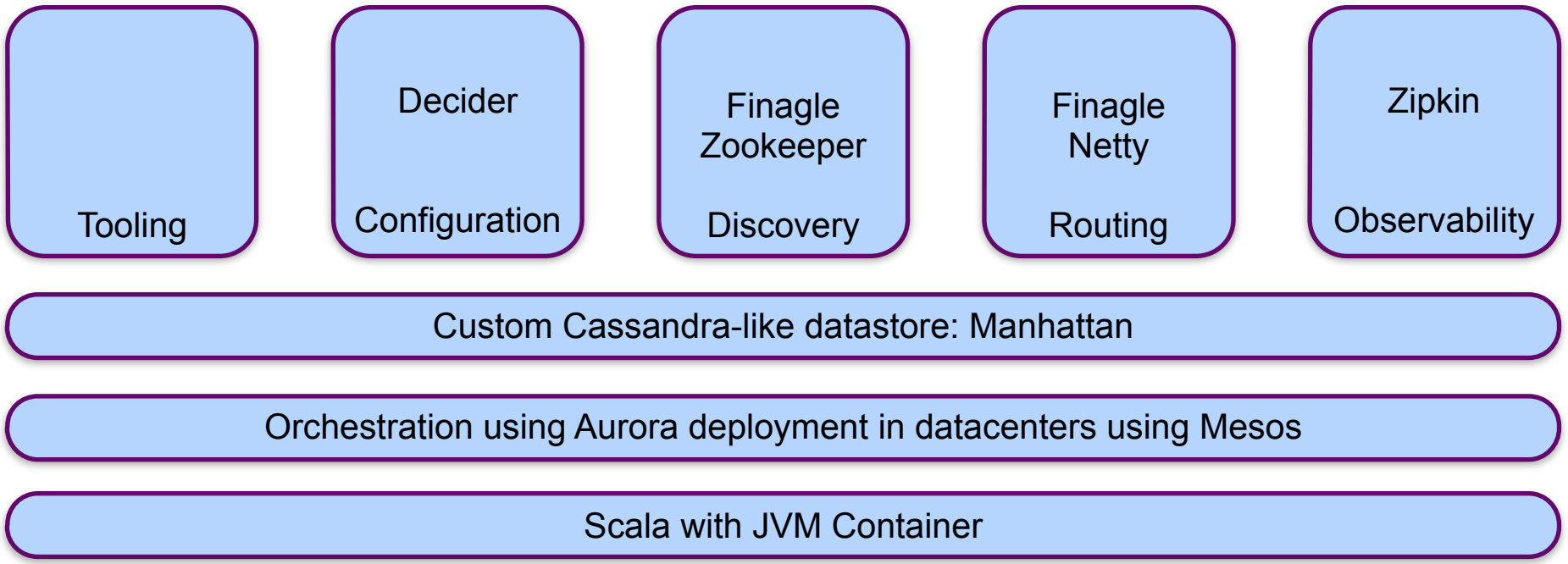
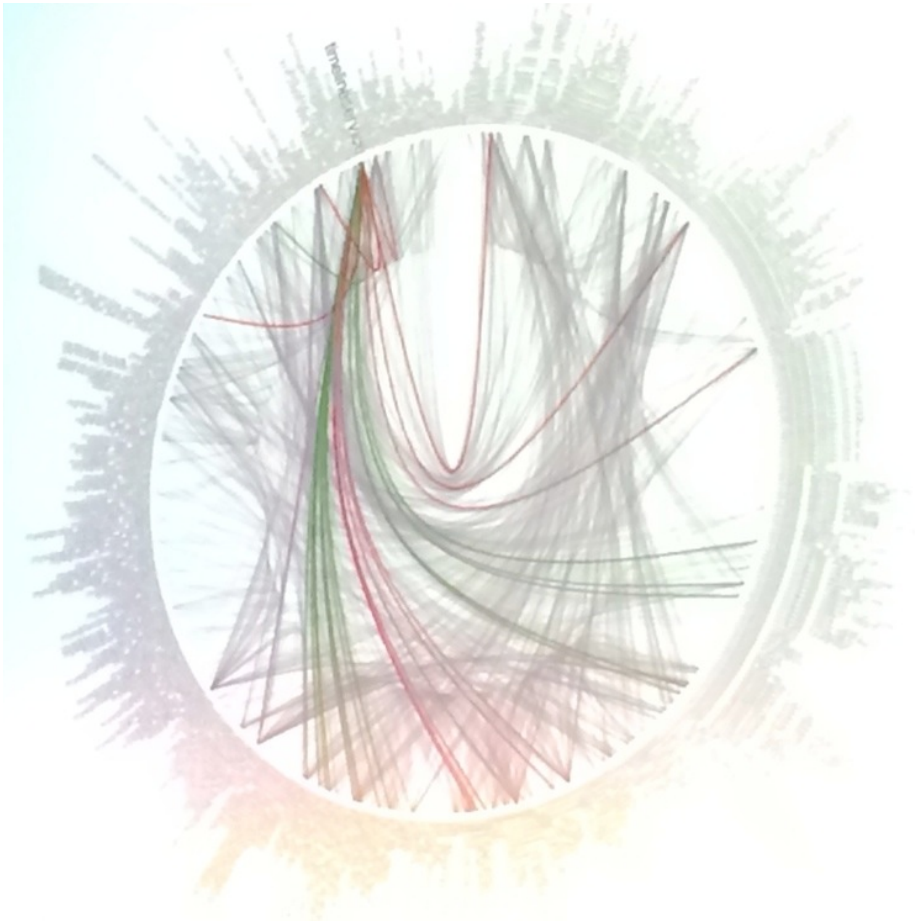


Twitter Microservices





Focus on efficient datacenter deployment at scale



Gilt Microservices

Datastores per Microservice using MongoDB, Postgres, Voldemort

Deployment on AWS

Scala and Ruby with Docker Containers

Focus on fast development with Scala and Docker

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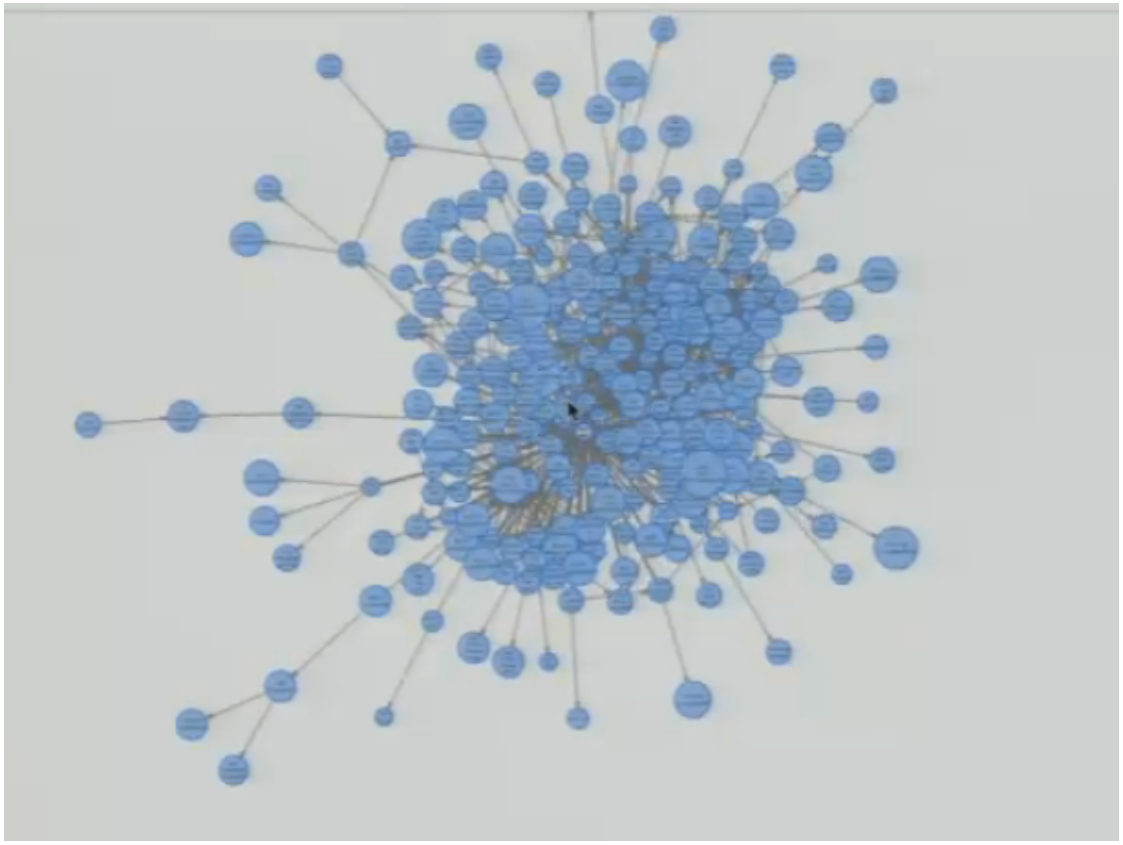

Hailo Microservices

Focus on fast development at scale using Go


hailo-2-api
service.login
service.hub
service.hub-transaction
service.hub-reporting
service.hub-organization
service.hub-b2b-crm
service.hub-card-pay
service.hub-card-pay-v2
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Node.js Microservices

GROUPON

@WalmartLabs

http://senecajs.org/

amazon web services™

http://aws.amazon.com/lambda/

Several different approaches

Mostly small simple microservices

Focus on easy interface with presentation code in javascript

AWS Lambda - preview only

Next Generation Applications

Fill in the gaps, rapidly evolving ecosystem choices