Spark on K8s

(First:)) Reactive Programming Meetup - Dublin - June 2015

Created by **roland@tritsch.org** / **@innolocity**

NodeJs on K8s

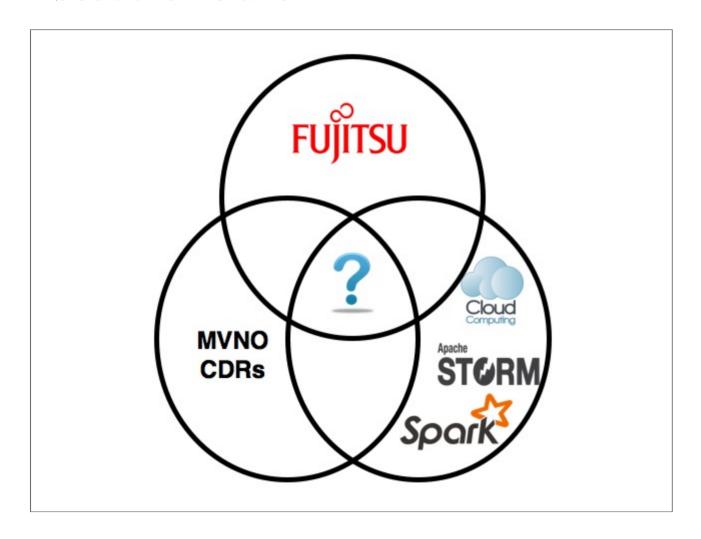
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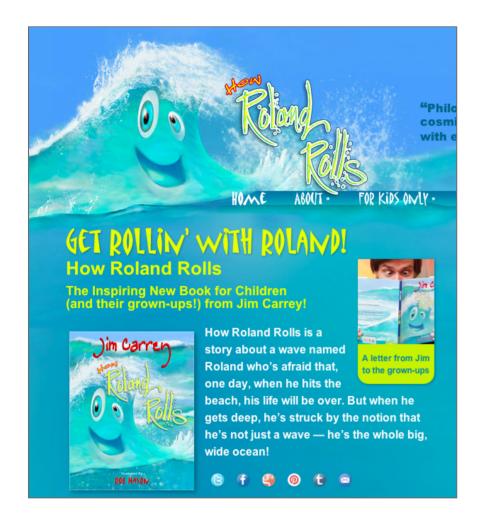
Today

- Reactive programming
- Immutable deployments
- Google Container Engine (Kubernetes)
- NodeJs on K8s

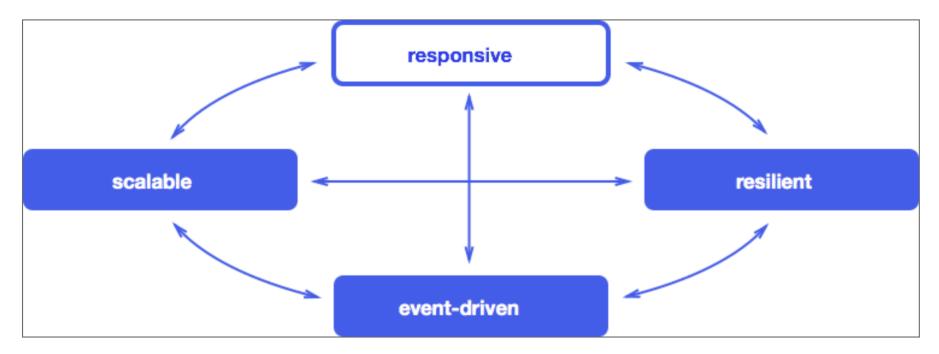
About the Roland



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Reactive Programming

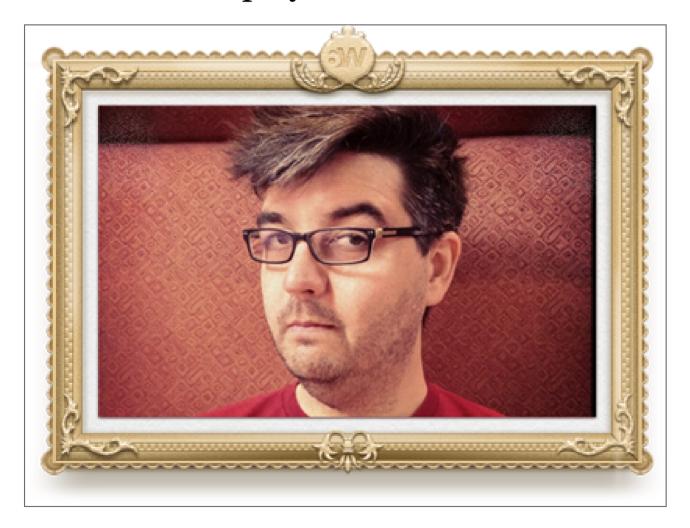


Reactive Programming

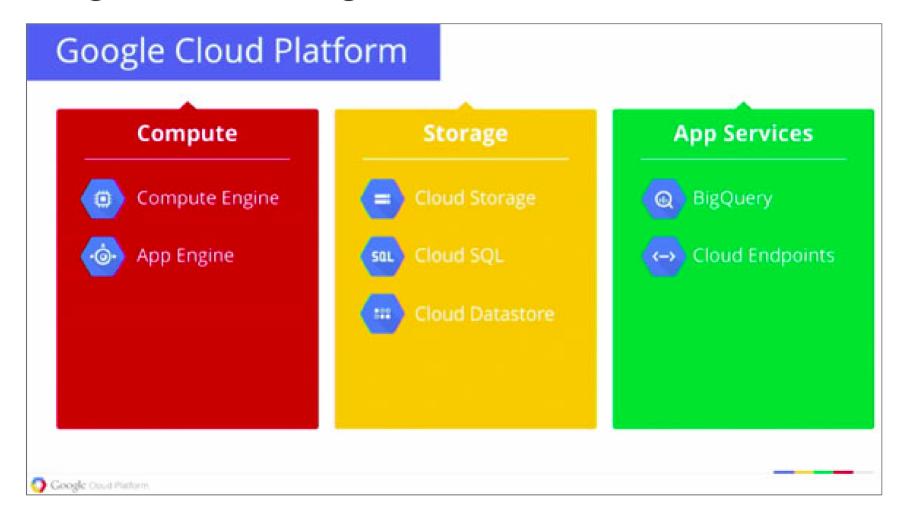
- Reactive Programming!!!
- Reactive Infrastructure??? Software Dev Platform (Code, Unit-Test, Code-Review, , Software Deployment Platform (Packaging, System/Load-Test, ...), Runtime (Monitoring, Alarming, Logging, ...), Feedback Platform (A/B test, Performance/Through-put, Was it a good change?, ...)
- Reactive Organisations???

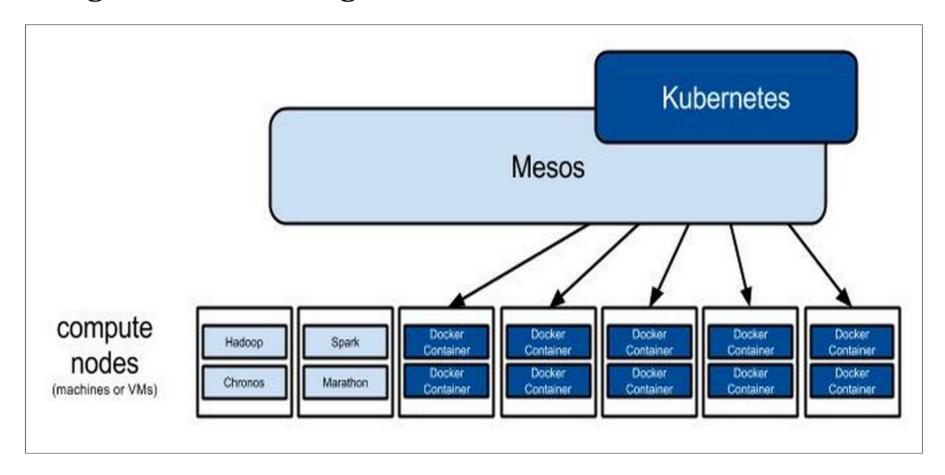


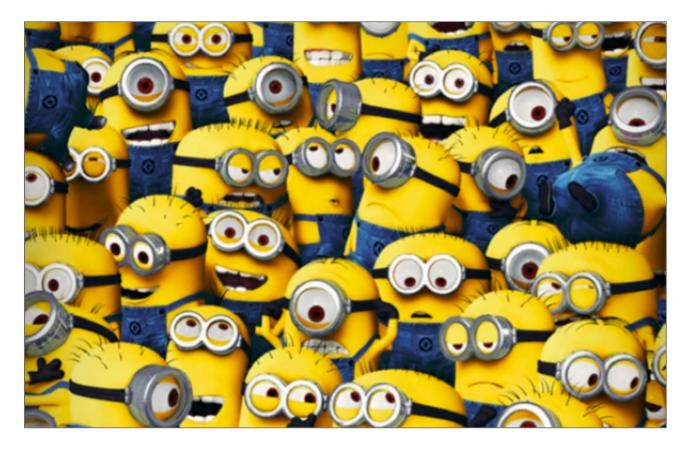


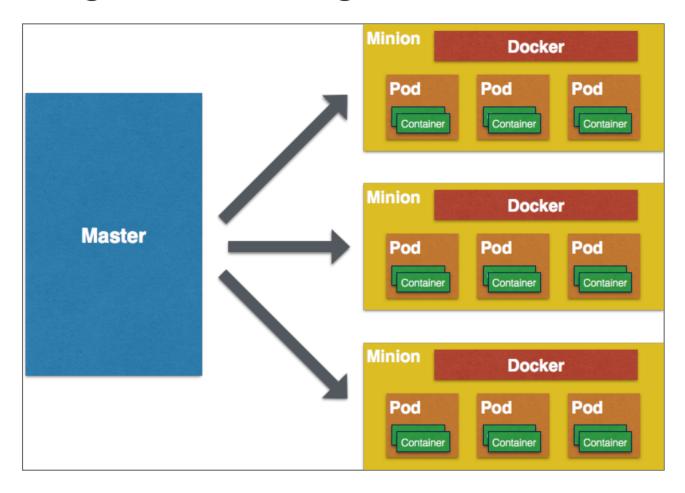


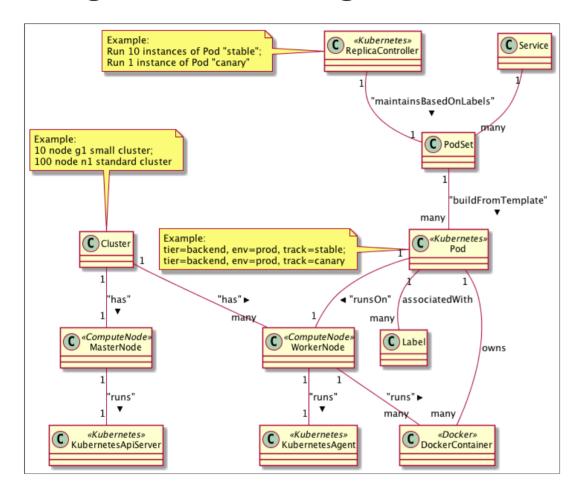
- Insprired by functional programming concepts (Talk by Rich Hickey)
- About Snowflakes and Phonixes
- By now ... mainstream! Netflix, Gilt, Zalando, Wunderlist, ...
- Works well with MicroServices









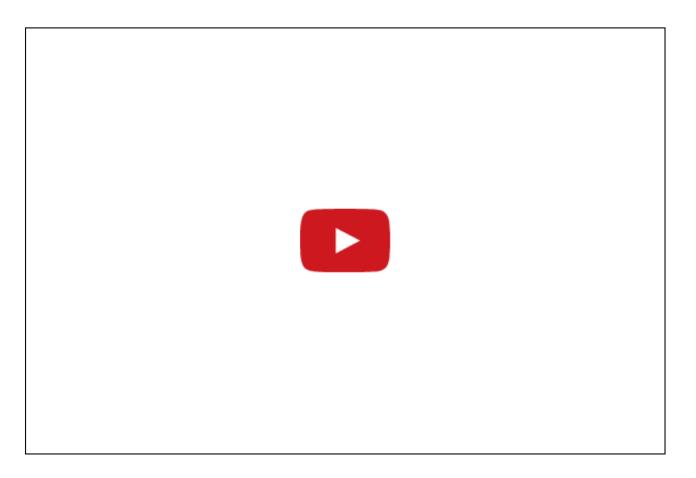


- Concepts: Cluster, Node (master/worker), Pod, Service, ..., Replication Controller, ...
- GCE vs. Mesos vs. Openstack vs. ... Resources (CPU, Mem, Disk, Network), Assets (Services, Applications, ...)

NodeJs on k8s

- Hello, World vs. Hello, Meetup
- DEMO Upgrade a running cluster to the next better version of a NodeJs server implementation

NodeJs on k8s - DEMO



What to consider?

- 1. Do not build it yourself!!!
- 2. AWS, Google Cloud, RackSpace, Heroku, ...
- 3. Bamboo, snap-ci, ...
- 4. Netflix, Zalando, Gilt, Etsy, ...

Questions?

