AWS

SUMMIT

Going Cloud Native in an Enterprise Environment

Nassim Babaci (Cloudreach)

Stefan Suppra (Volkswagen Financial Services)

amazon web services

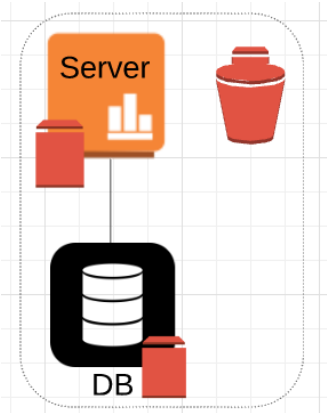
© 2016, Amazon Web Services, Inc. or its Affiliates. All rights reserved.

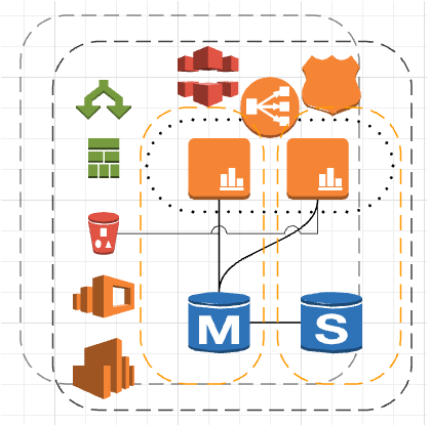
On Cloud Native Applications

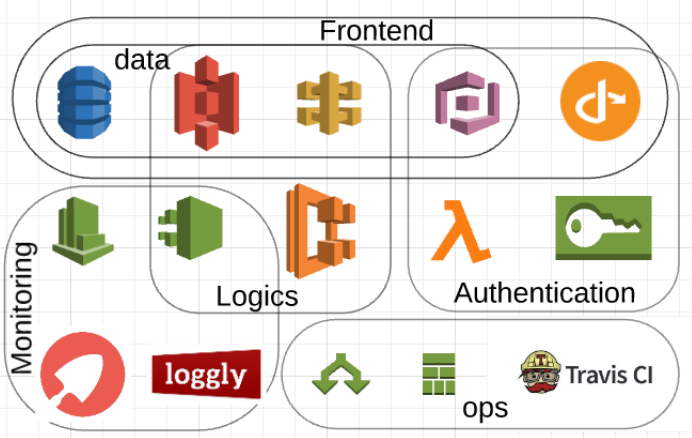
Wait what's Cloud Native ?

Short answer: We see it as a matter of citizenship, sort of.

Resilience, scalability, integration







Cloud Native

Cloud Native Ecosystem(s)

Brace yourselves: Buzzwords coming !

Cloud Resources

- Dyanamodb
- Cognito
- Lambda
- ECS
- S3
- Content Distributed Systems

Pattern & Industry Standards

- 12+ factor apps
- Microservices
- P/F/C-aaS
- Event Driven Architecture
- Continuous Deployment
- Service Discovery
- Open ID
- ReST
- Immutable Infrastructure.

Tooling & Integrated Services

- Cloudformation / Ansible / OpsWorks ...
- Loggly, Travis-ci, Sysdig, Datadog, ...
- Cloudfoundry, K8s ...
- Docker, App Frameworks.
- Etcd, CoreOS.

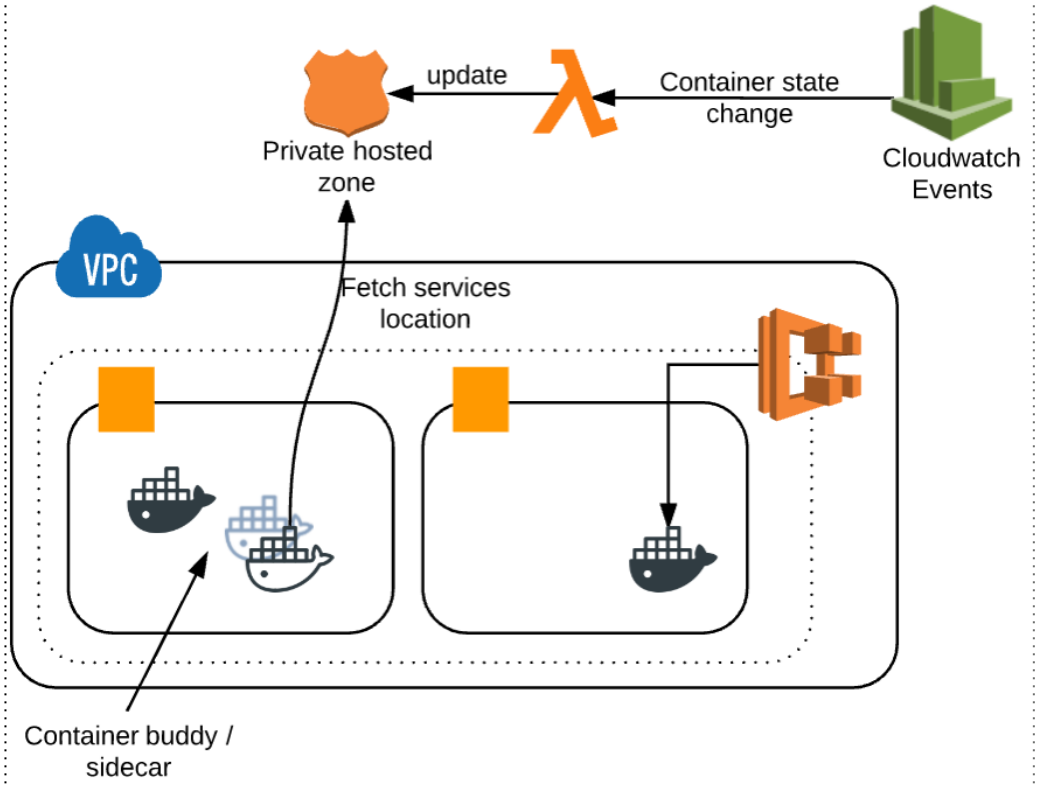
Practical example

Context: Microservices application
Component: Service discovery.

Cloud resources:
- Cloudwatch, Lambda, ECS

Patterns:
- Container sidecar
- Client side service discovery.

Tooling:
- Docker, cloudformation.



VOLKSWAGEN FINANCIAL SERVICES

THE KEY TO MOBILITY

Short company portrait

Volkswagen Financial Services

- Largest provider of automobile financial services in Europe
- > 17 million contracts worldwide
- Operating result EUR 2,1 billion
- 15,324 employees in 51 countries
- Headquartered in Germany (Braunschweig)
- Security and trust extremely important to us

Our journey towards the cloud

- Very traditional financial products, dealer-based network
- *“One contract equals a tree”*
- Customer journey had to change drastically
- First mobile apps, then smaller products
- New approach for digitizing our core products
- Cloud/AWS is now seen as a crucial technology

Being cloud native is a no-brainer – or?

- New environment
- New technologies
- New skills

- **New culture**

Put together ...

What we've learned.

- Anxiety over "security" often get you take bad decisions:
  - Understand the security model.
  - Define your safe space (trusted zone) and expand it.
- Understanding the real benefits:
  - Let you focus more on adding business value.
  - Continuous deployment / automation are key for more secure software.
- Adapting the mindsets and the processes can take time.
- Understand your patterns.

CLOUDREACH

READY WHEN YOU ARE.

AWS

SUMMIT

Thank You

CLOUDREACH

amazon web services