Red Hat

RED HAT FORUM | September 10 2019 Application Migration & Modernization for Axa Switzerland

Vladimir Rimar, Consultant, Red Hat Gabriel Koch, Cloud Software Engineer, AXA Switzerland Nils Buer, Global Head of Solution Management, Stonebranch

Speakers



Vladimir Rimar Middleware Consultant Red Hat, Switzerland



Gabriel Koch Cloud Software Engineer Axa, Switzerland



Nils Buer Cloud Software Engineer Stonebranch, Germany



Gotthard Project

Gotthard Project is a Migration Project

Mission





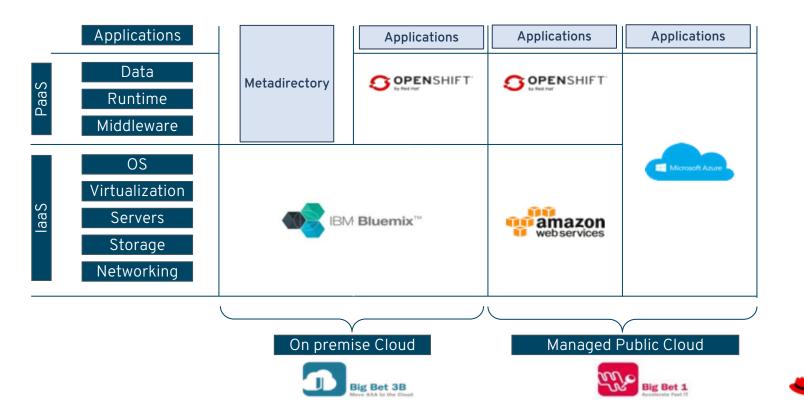
Migration of 185 applications from a CORE-IT into multiple cloud platforms. 23 applications decommissioned Until 2020



Red Hat

Axa Platforms

The AXA Group Hybrid Cloud strategy



Demo 1 Multitenancy Management Portal





- 1. What is the portal?
- 2. Subscription Hierarchy
- 3. Demo
 - i.



What is the Multitenancy Management Portal?

Self Service Portal and API for cloud services in AXA

- Solves project, user and capacity management out of the box
- Built by the global team responsible for the OpenShift platform etc.
- Focused on OpenShift and related services provided by one department
- Drivers provision the different services
- Everything is available through a REST API
- Extensible information store through labels
- Subscriptions are the primary entities



A subscription is ...

- ... a completely independent logical entity
- ... decoupled from other AXA constructs (CMDB)
- ... the necessary for a service instance to exist

Service instances may be OpenShift Projects, GitHub Orgs, Artifactory repository sets, ...

• ... where role grants and user groups are managed

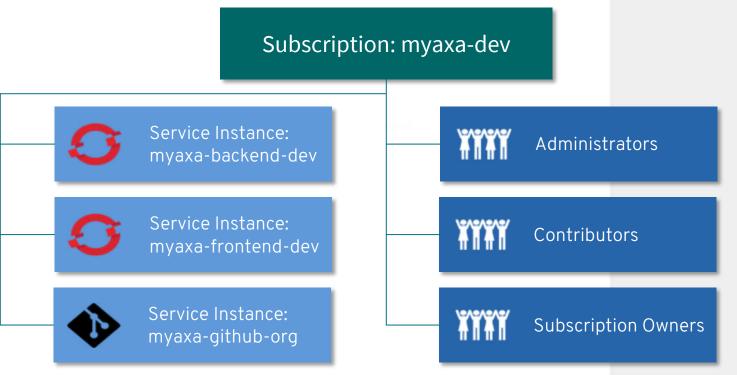


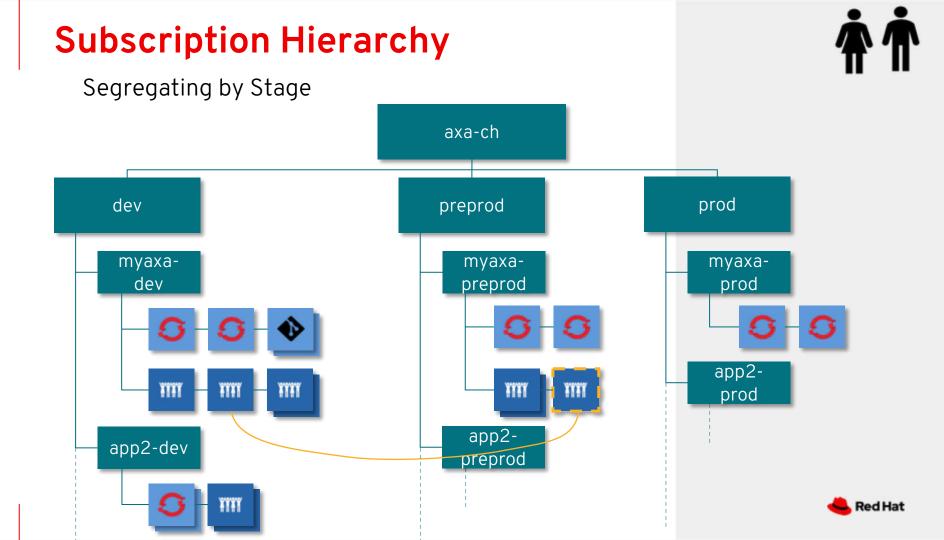
Service Instances and Groups

Self Service Provisioning of New Service Instances and Groups



ed Hat





Summary of the Multitenancy Management Portal / API

Essentials

- Simple hierarchical data model using subscriptions
- User groups can be referenced across different subscriptions
- REST API available for automation
- Use labels to track resources (subscriptions, projects, etc.)



Use Cases at AXA

- Network Zoning: Apply egress and ingress network rules to OpenShift projects depending on the "stage" subscription
- Creation of dev, preprod and prod subscriptions per application by script
- Attach application IDs to subscriptions using labels

Report consumption and cost by application instead of by OpenShift project

Use existing processes re. application ownership and lifecycle

- Verify the integrity of the subscription hierarchy using scripts
- Some teams automatically provision projects based on their CI/CD pipelines



Application migration & modernization for AXA Switzerland

Seamless data supply chains orchestration

Nils Buer, Global Head of Solution Marketing

© Stonebranch 2019. All rights reserved.







Use Case

A world-leading insurance company provides its agents and customers with various insurance applications on their web portal. To ensure that new applications are quickly rolled-out and run stable they are deployed on OpenShift



My hometown – all about container





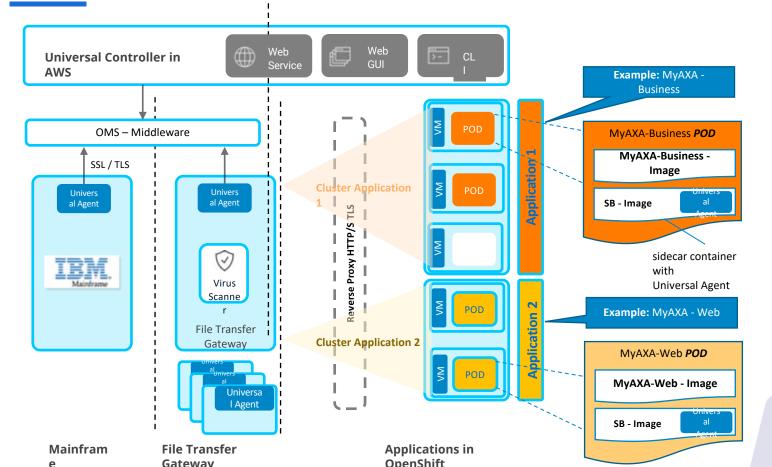
Requirements – OpenShift File transfer

- Transfer a file from the MF to all OpenShift PODs related to an Application (and vice versa)
- Transfer a file from any Cloud Storage to all OpenShift PODs related to an App. (and vice versa)
- Trigger a File Transfer from a Web-Application
- Solution must be Cloud based, secure and high available





Architecture – File Transfer MF to OpenShift



17

Live Demo

MF to OpenShift File Transfer

Transfer a file from the MF to an application on OpenShift



© Stonebranch 2019. All rights reserved.





- Transfer a file from the MF to all OpenShift PODs related to an Application (and vice versa)
- Transfer a file from any Cloud storage to all OpenShift PODs related to an app (and vice versa)
- Trigger a File Transfer from a Web-Application Microservice Architecture
- Secure and High-Available Cloud based solution (TLS 1.2, SAML, HA/GEO-Redundant)

Connect your Mainframe Data to applications running on OpenShift and vice versa



Thank You



Red Hat

RED HAT FORUM | September 10 2019

QUARKUS: SUPERSONIC, SUBATOMIC JAVA - How to get started

DIMITRIS ANDREADIS, SOFTWARE ENGINEERING, RED HAT