Miles & More



FROM LEGACY TO MICROSERVICES

Lessons learned on the road to success by Miles & More

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AGENDA

- → MILES & MORE INTRODUCTION
- → PROJECT SCOPE AND SETUP
- → TECHNICAL AND ARCHITECTURAL CHALLENGES
- → COLLABORATION
- → LESSONS LEARNED AND OUTLOOK MILES & MORE IT ARCHITECTURE





EXPERTS FOR CUSTOMER LOYALTY – WORLDWIDE Miles & More Introduction



FREQUENT FLYER PROGRAM TO MULTI-PARTNER-PROGRAM Carve Out Miles & More from Lufthansa in 2015



IT FACING CHALLENGES AFTER MILES & MORE CARVE OUT Miles & More highlevel IT architecture





IT FACING CHALLENGES AFTER MILES & MORE CARVE OUT Miles & More 2-Speed-IT approach



"Do nothing LOW RISK – MAXIMISE CONTINUITY

Low risk

- No support for new strategy
- Long time-to-market
- Hard to maintain and improve

from scratch MAXIMISE COMPLEXITY REDUCTION

High risk

Everythi

- Huge investment for rebuild whole infrastructure
- Remaining high complexity
- Timeline > 2 years

"2-Speed-IT **GUARANTEE CONTINUITY & MAXIMISE AGILITY**

Manage complex systems and guarantee performance & stability (Re-)build systems in micro services, ensure a suitable time-to-market and support for innovations Encapsule main functions from complex systems in micro services





NON-AIR PARTNER INTERFACE: LEGACY TO MICRO SERVICES Project Scope and Setup





PROJECT KEY FACTS Project Scope and Setup





TECHNICAL AND ARCHITECTURAL CHALLENGES



HISTORY Technical and Architectural Challenges





OPENSHIFT SYSTEM ARCHITECTURE

Technical and Architectural Challenges





JUST A FEW NUMBERS

Technical and Architectural Challenges





OPENSHIFT SYSTEM ARCHITECTURE - NEXT GEN

Technical and Architectural Challenges





Technical and Architectural Challenges

automation



Technical and Architectural Challenges

separation of concerns



Technical and Architectural Challenges

monitoring



Technical and Architectural Challenges

timing



Technical and Architectural Challenges

education



RECOMMENDED WAY TO START

Collaboration







LESSONS LEARNED AND OUTLOOK MILES & MORE IT ARCHITECTURE



- Micro service ≠ easy
 → The total of all micro services = still complex but easier manageable
- You need to know …
 - ... what you to want do before you get started
 - ... how you want to do it
 - \rightarrow We recommend pre-project planning
- Your implementation partner should have relevant knowledge about Openshift and micro services prior to the project → We lost 4 weeks because our implementation partner acquired knowledge in first project phase
- Don't forget your staff internal knowledge about Openshift is essential → Similar to our implementation partner we acquired knowledge during the project and not prior to it
- Red Hat consulting and technical account management is recommended early in the project for …
 - ... system fine tuning and architecture review (sizing, best practices ...)
 - ... support in automation (ansible scripts) and IT operations ...
 - \rightarrow We contracted Red Hat in the middle of the project and might have avoided 4 weeks delay





HIGHLEVEL MILES & MORE TARGET IT ARCHITECTURE







THANK YOU



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