



All ways on, mostly connected, always integrated, the API economy

Phil Prosser Solution Architect October 2017

Context Slide

Red Hat Stack, where am I....





BY THE YEAR 2020

THERE WILL BE MORE THAN



Source: Gartner, Building Platforms for a Digital Society: Key Insights From the 2016 Gartner Symposium/Itxpo Keynote, Nov 2016. ID#G00317081.

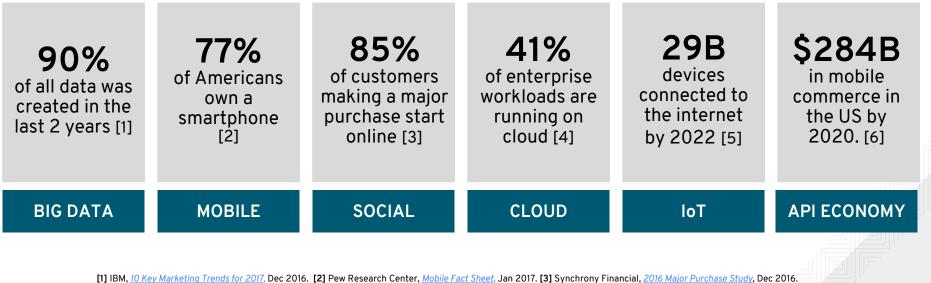
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THE WAY WE DO BUSINESS HAS CHANGED

THE NUMBERS TELL THE STORY (AND IT'S NOT OVER YET)



IBM, <u>10 Key Marketing Trends for 2017</u>, Dec 2016. [2] Pew Research Center, <u>Mobile Fact Sheet</u>, Jan 2017. [3] Synchrony Financial, <u>2016 Major Purchase Study</u>, Dec 20 [4] 451 Research, <u>Voice of the Enterprise: Cloud Transformation</u>, September 2016. [5] Ericcson, <u>Ericcson Mobility Report</u>, Nov 2016. [6] Business Insider, The Rise of M-Commerce: Mobile Shopping Stats & Trends, Dec 2016.

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EVERY COMPANY NEEDS TO BE SOFTWARE COMPANY

Software is Eating the World

"The big question is always, Do we car manufacturers learn to become tech companies more quickly than a tech company <u>learns to be an automotive player?"</u>

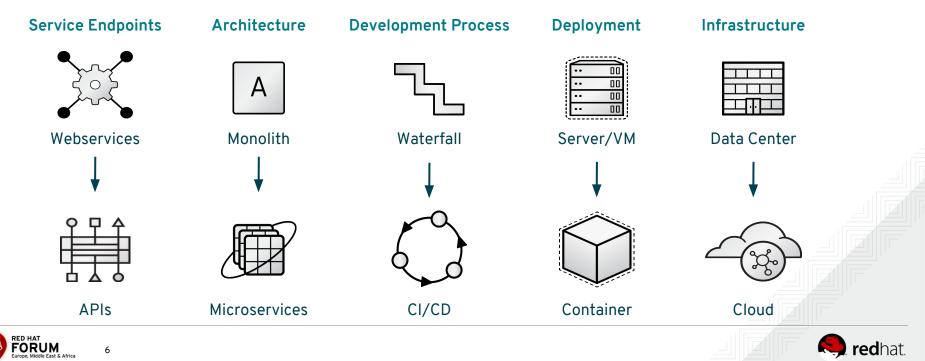
Peter Schwarzenbauer, a member of the BMW management, <u>https://www.nytimes.com/2017/02/08/business/germany-bmw-daimler-volk</u> <u>swagen-uber.html?smprod=nytcore-ipad&smid=nytcore-ipad-share</u>

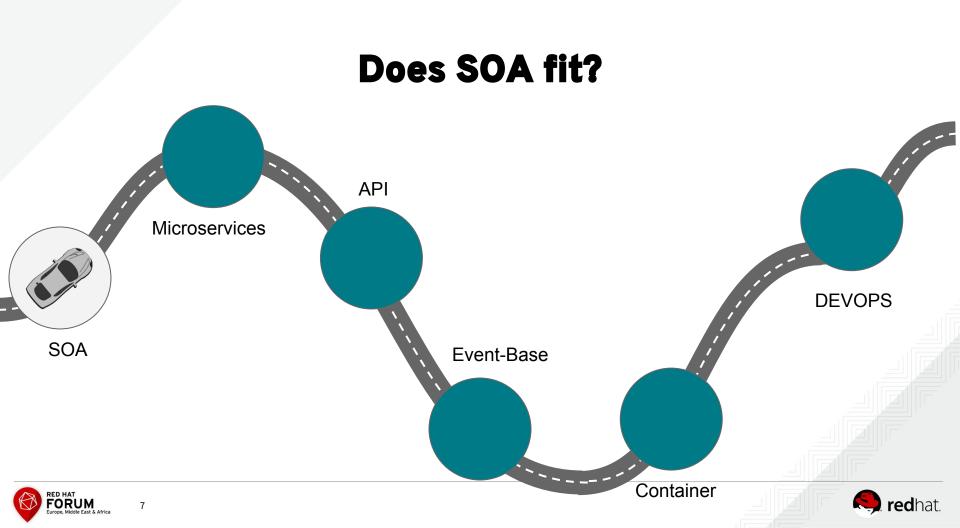




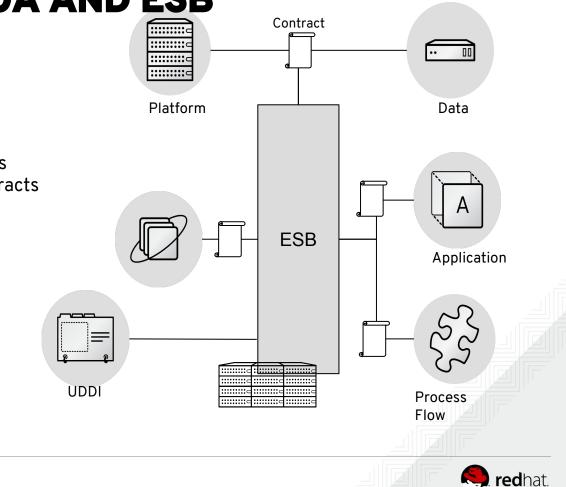
BE COMPETITIVE

Enterprise IT is undergoing fundamental change. To remain competitive, businesses need an integration platform capable of supporting current *and* next generation architectures.





SOA AND ESB

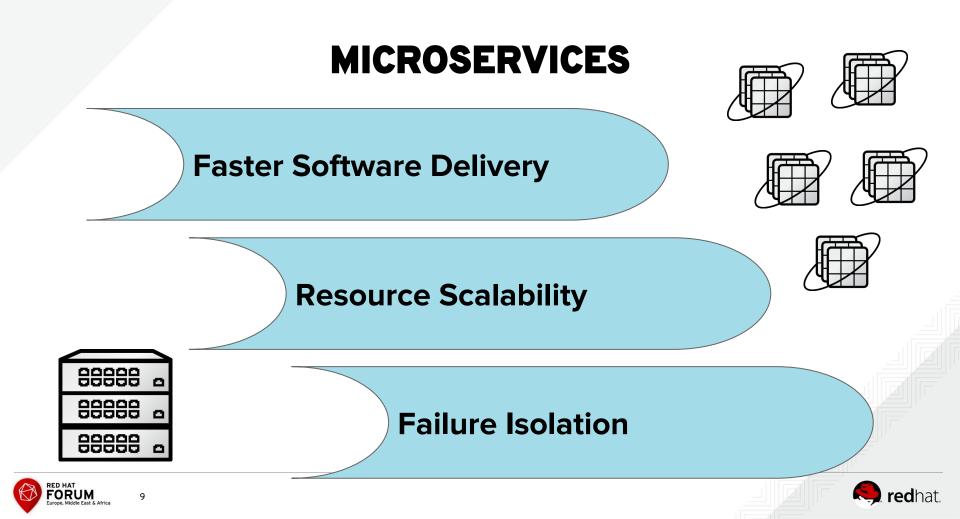


- Created by Vendors for EA's
 - Little support from Dev's
- Central, often Canonical Contracts
 - WSDL
 - BPEL
- Long software delivery cycle
- Everything or nothing
 - $\circ \quad \text{Scale} \quad$
 - Availability
 - Upgrading
- Intelligent Hub

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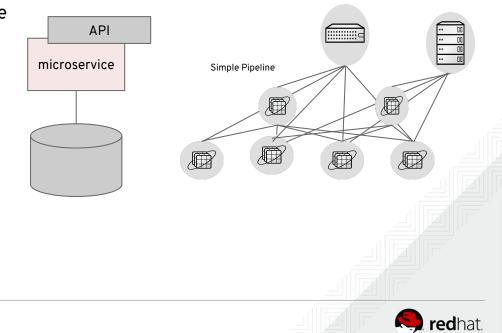
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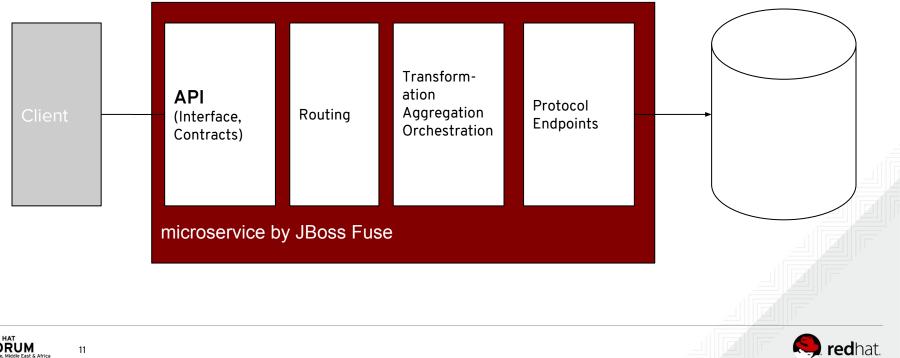
MICROSERVICES

- Simple,small
 - Smart Endpoints, simple pipeline
- Boundary and Replaceable
 - Easy to reuse
 - Granularity?
- Independence





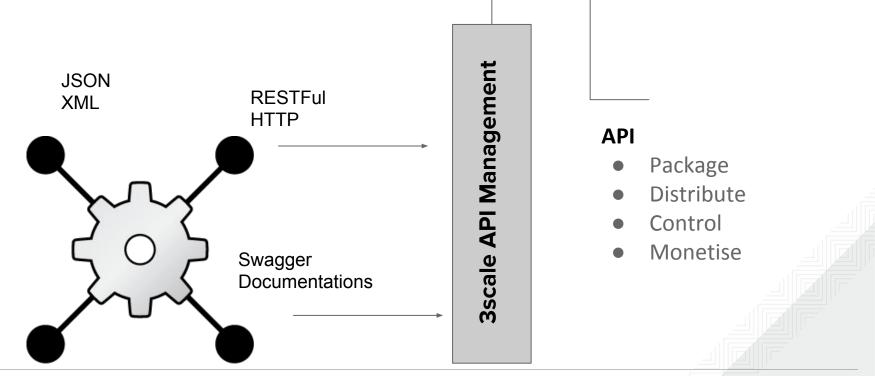
SMART ENDPOINT





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APIs and API Management

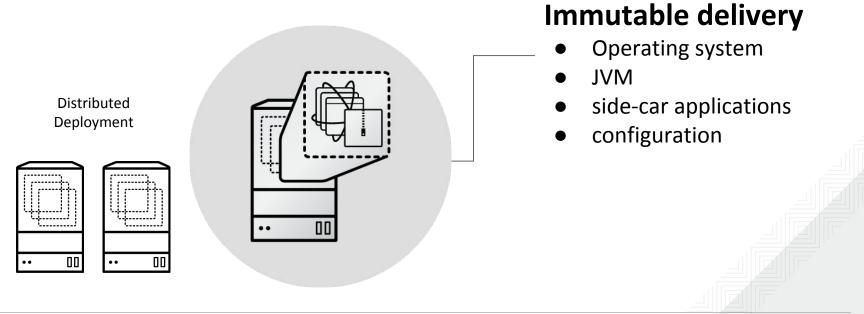


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CONTAINERS

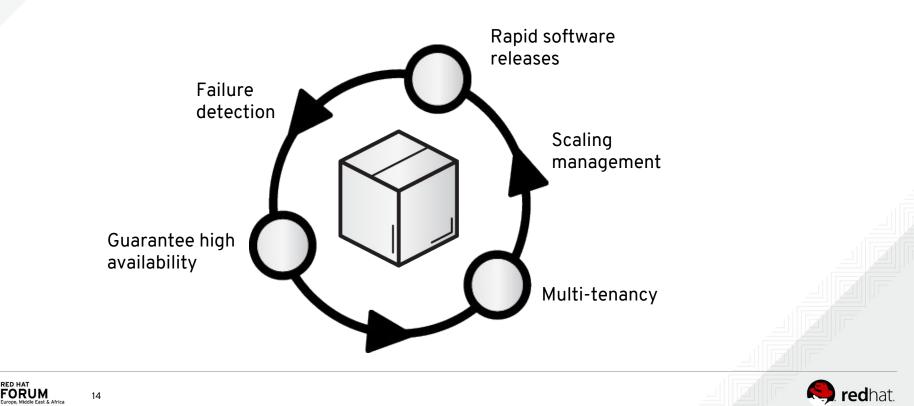
Deploy and manage as independent modules in a distributed environment



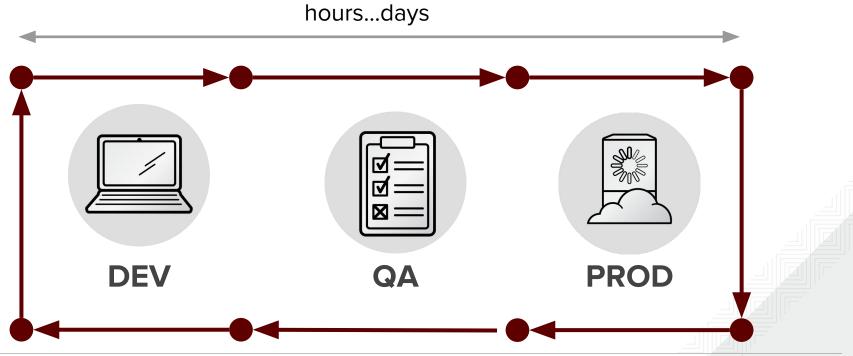
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OPENSHIFT AND CONTAINERS



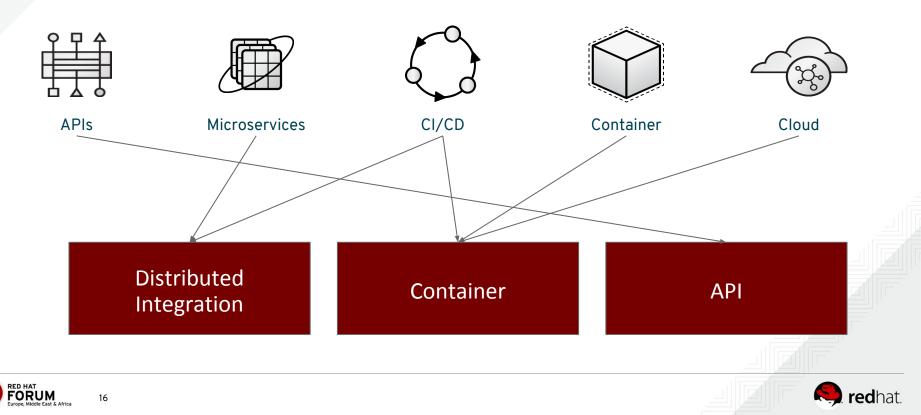
DEVOPS - CI/CD



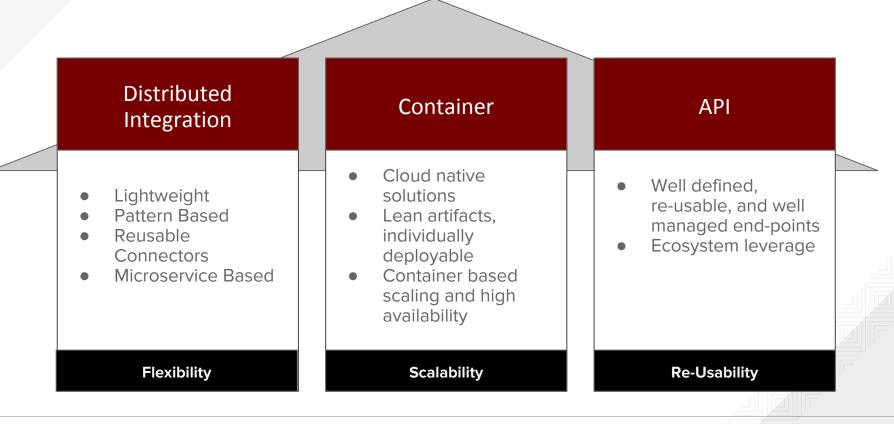
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BE COMPETITIVE



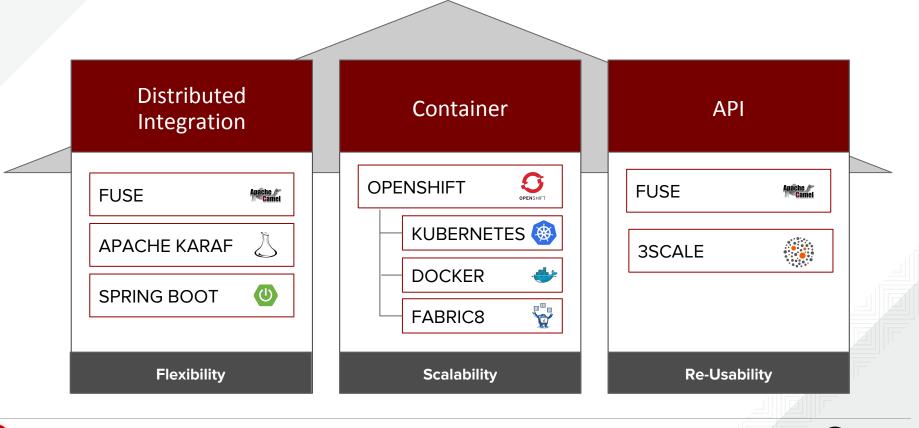
AGILE INTEGRATION



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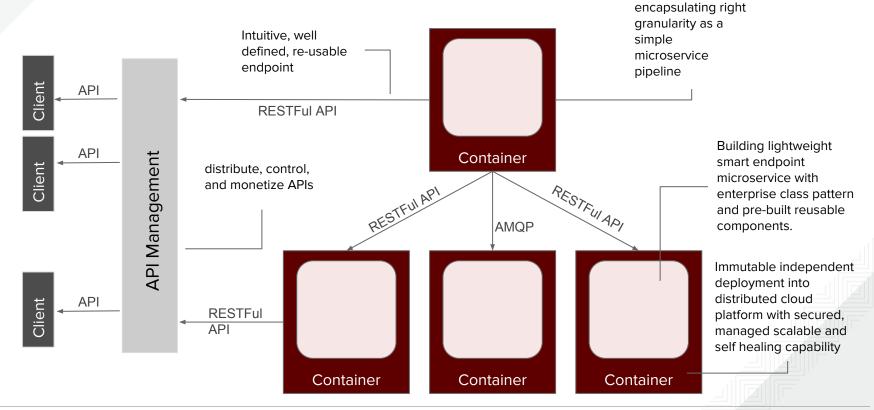
AGILE INTEGRATION



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AGILE INTEGRATION







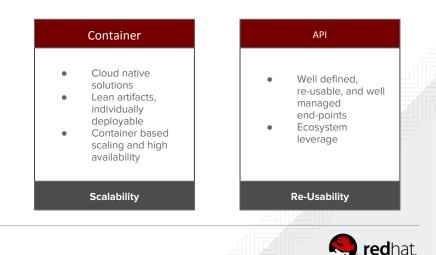
Composing microservice by

Agile Integration

Distributed Integration

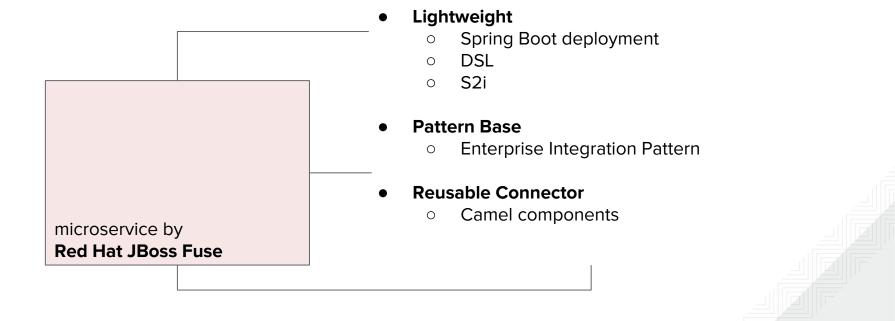
- Lightweight
- Pattern Based
- Reusable Connectors
- Microservices Based

Flexibility





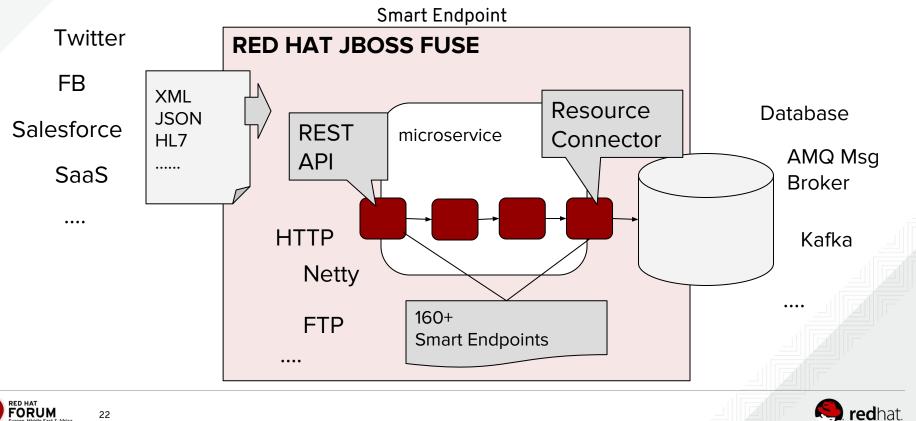
DISTRIBUTED INTEGRATION -Microservice



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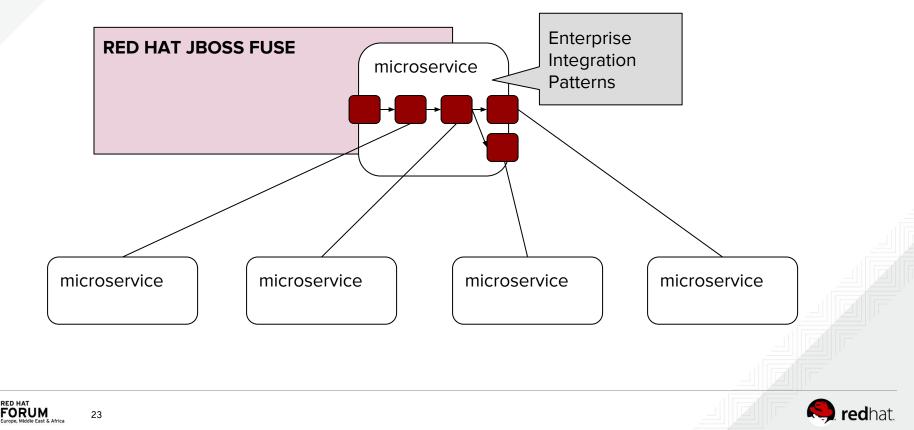


Building microservices with Fuse

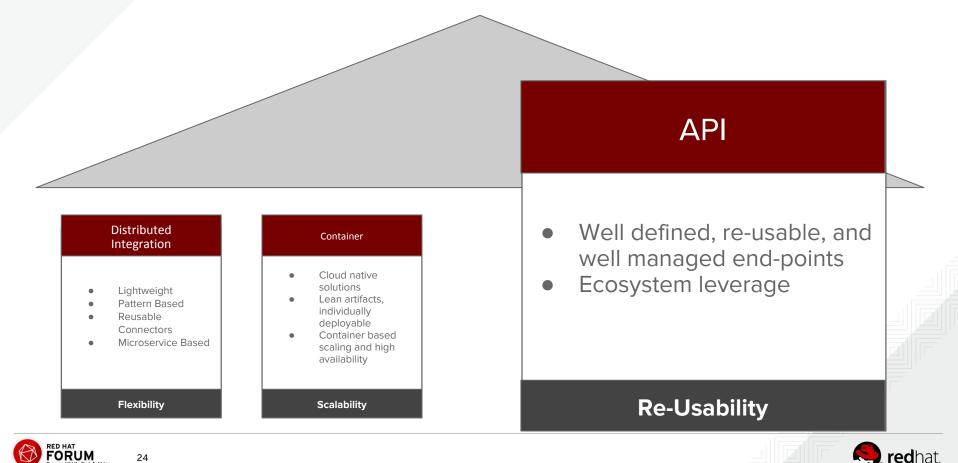


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Composing Microservice with Fuse



Agile Integration



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API











Multiple Device Support Customer/ Vendor/ Partner

Device are not limited to screen Voice enable Drome, VR More complex ecosystem SaaS Frequency Data volume Monetize Service

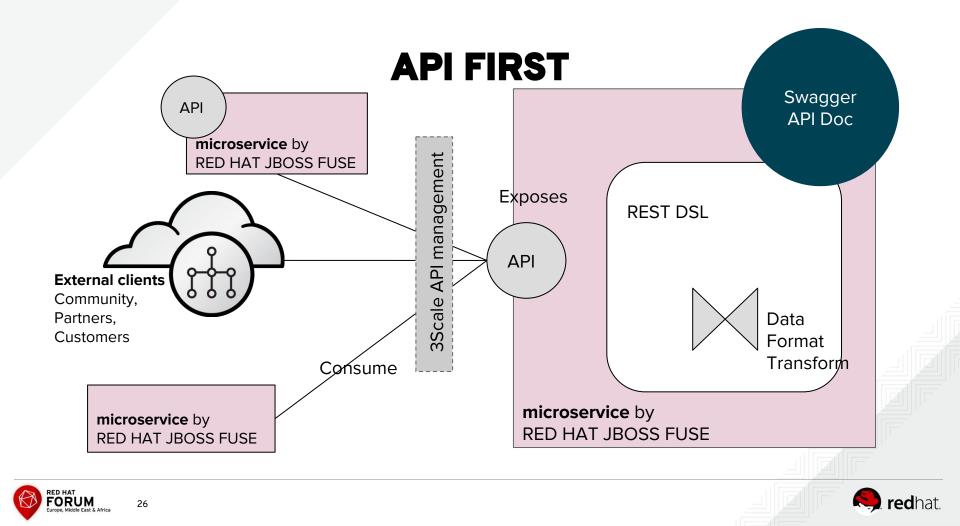
Increased revenue market share Open up new opportunities Modularize and agility

Enhanced developer experience Reuse code Hide implementation details Scalability in Distributed System

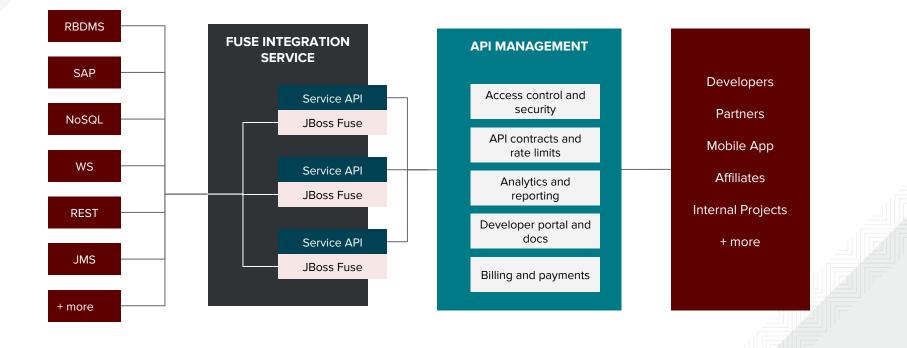
Able to flexibly allocate resource Cloud enabled







3Scale API Management







3Scale API Management

Stack

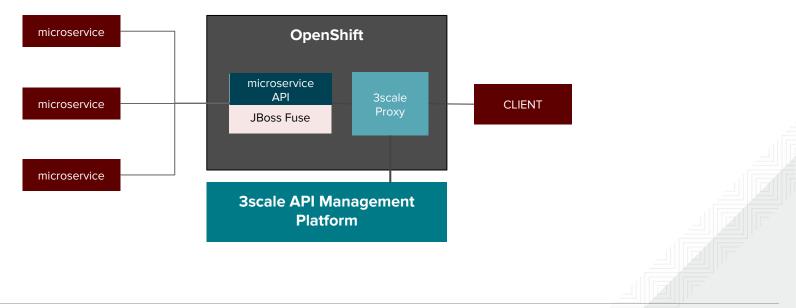


Consumers Admin Console Access control Security HTTP / HTTPS Management ર્જર Traffic Manager **API** contracts Rate limits Security, usage & rate limits API Analytics Reporting APIs Dev portal Docs Applications Billing Payments Dev Portal





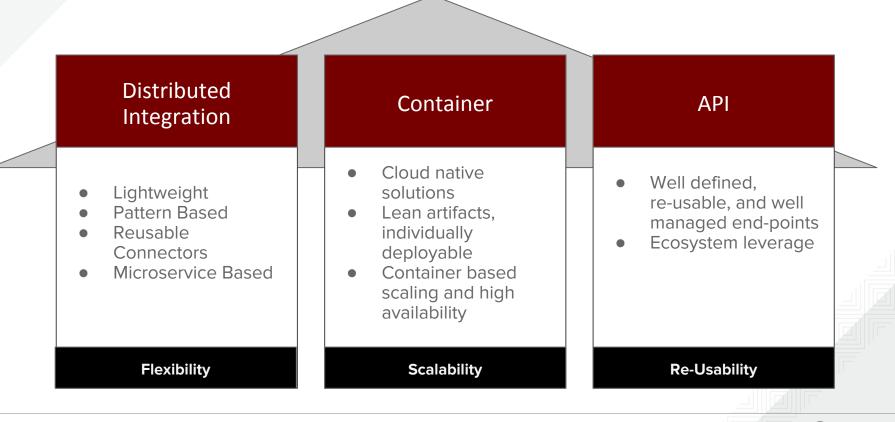
3scale API Management







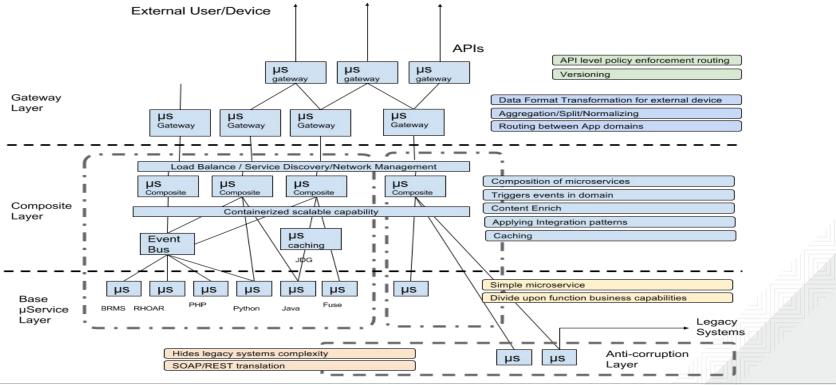
AGILE INTEGRATION - ARCHITECTURE







AGILE INTEGRATION - ARCHITECTURE







INTEGRATION AND APIS DRIVE AIR TRAVEL INNOVATION

Schiphol Airport aims for world class traveller experiences

 Well defined, re-usable, and well managed end-points
Ecosystem leverage

- Using Red Hat JBoss Fuse to create the right API endpoints and then putting them in the hands of partners creates an extended team to deliver innovation
- Flight, baggage, reservation, and other data are available throughout the airport and to all partners
- APIs through 3scale API Management provide the foundation for seamless handoff between the airport and its partners



All ways on, mostly connected, always integrated, the API economy

With Agile Integration

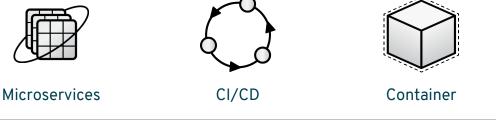


and deliver competitiveness





APIs



Cloud

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Call to action slide

Demo room

Beers!! Etc

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