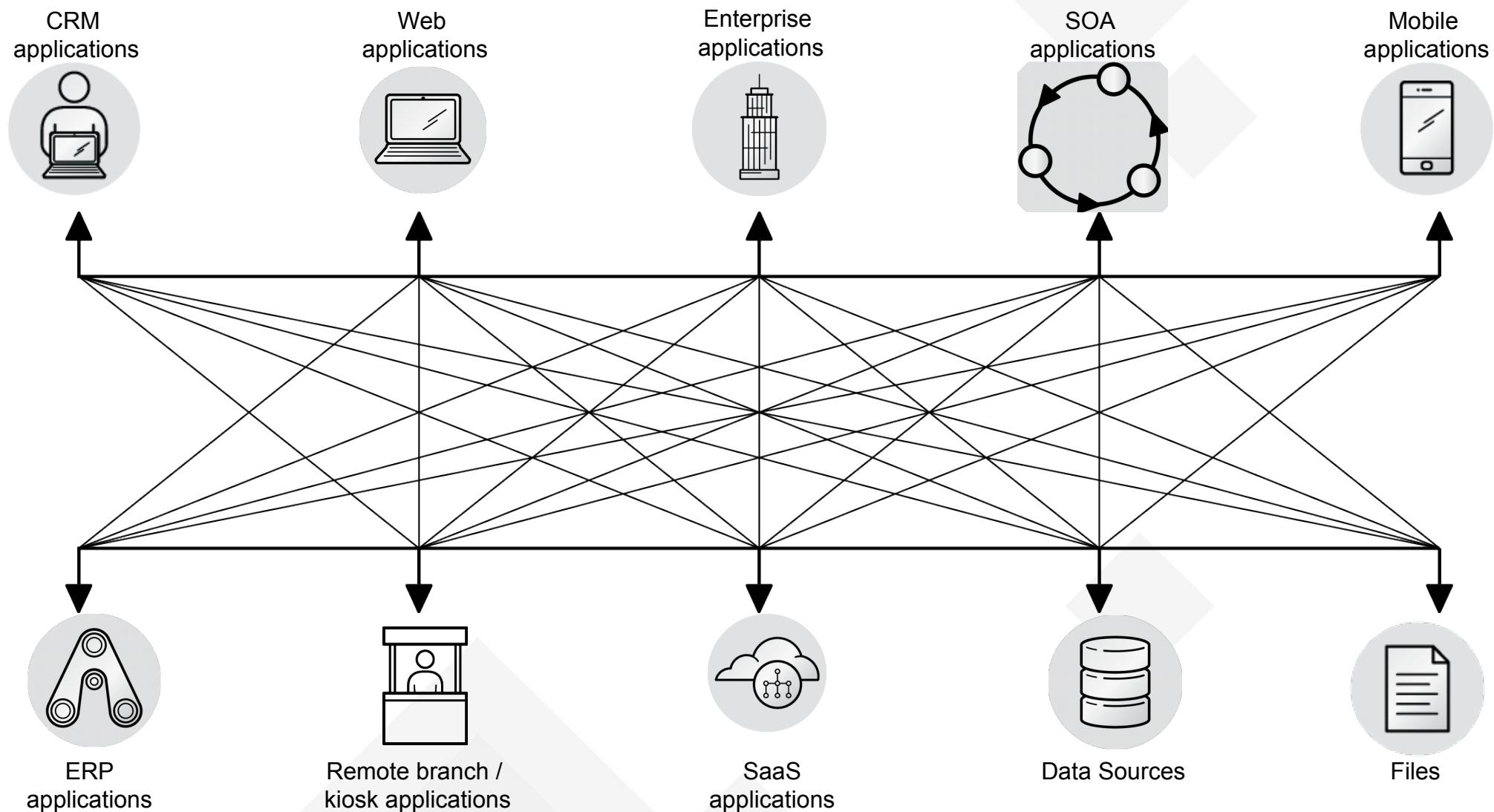


Modern Application Integration in the era of cloud

Jiří Kolář
Red Hat Solution Architect
CZ/SK/CEE

Integration problem?

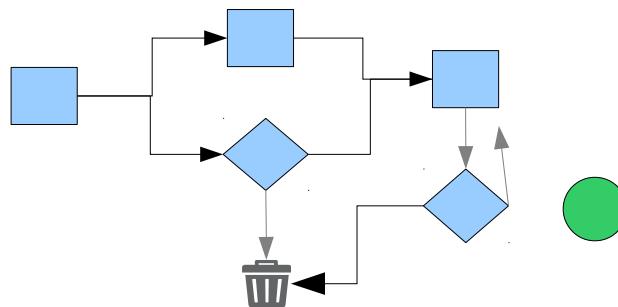
The integration challenge



TWO MAJOR INTEGRATION TYPES

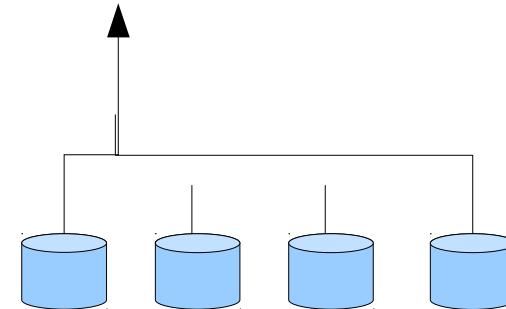
Application Integration

Enable integration of end-to-end business processes across multiple applications



Data Integration

Enable access to data from disparate systems for a combined, consistent view across the organization



Why?

Accelerate development of integrated systems.

Why?

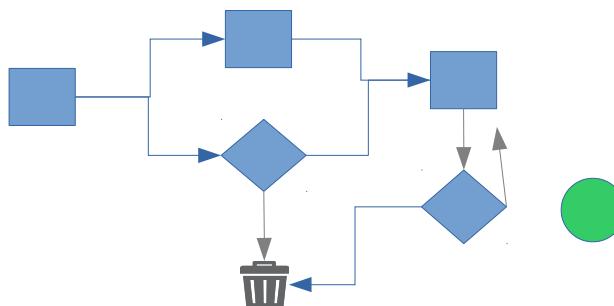
Gain insight, improve business decisions, accelerate development of business intelligence systems.

DIFFERENT – BUT COMPREHENSIVE SOLUTIONS REQUIRE BOTH

TWO MAJOR INTEGRATION TYPES

Application Integration

Enable integration of end-to-end business processes across multiple applications



Create & connect API's – App Services

Enable and Facilitate



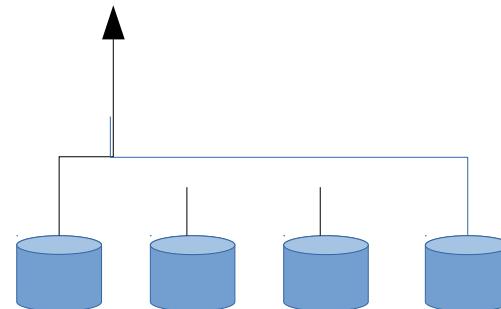
API Management & Collaboration

Mobile Integration & Enablement

IoT Integration

Data Integration

Enable access to data from disparate systems for a combined, consistent view across the organization

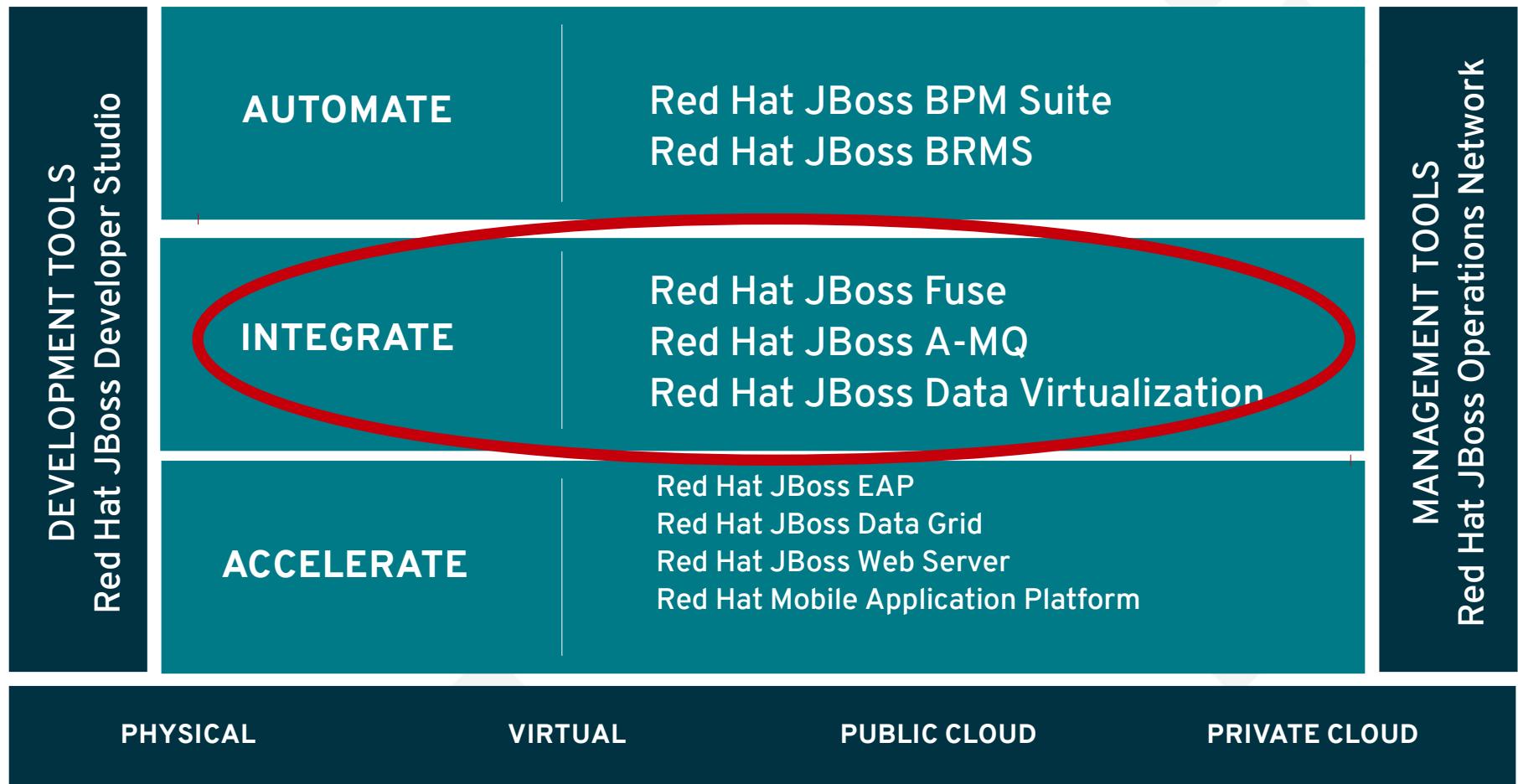


Create API's - Data Services



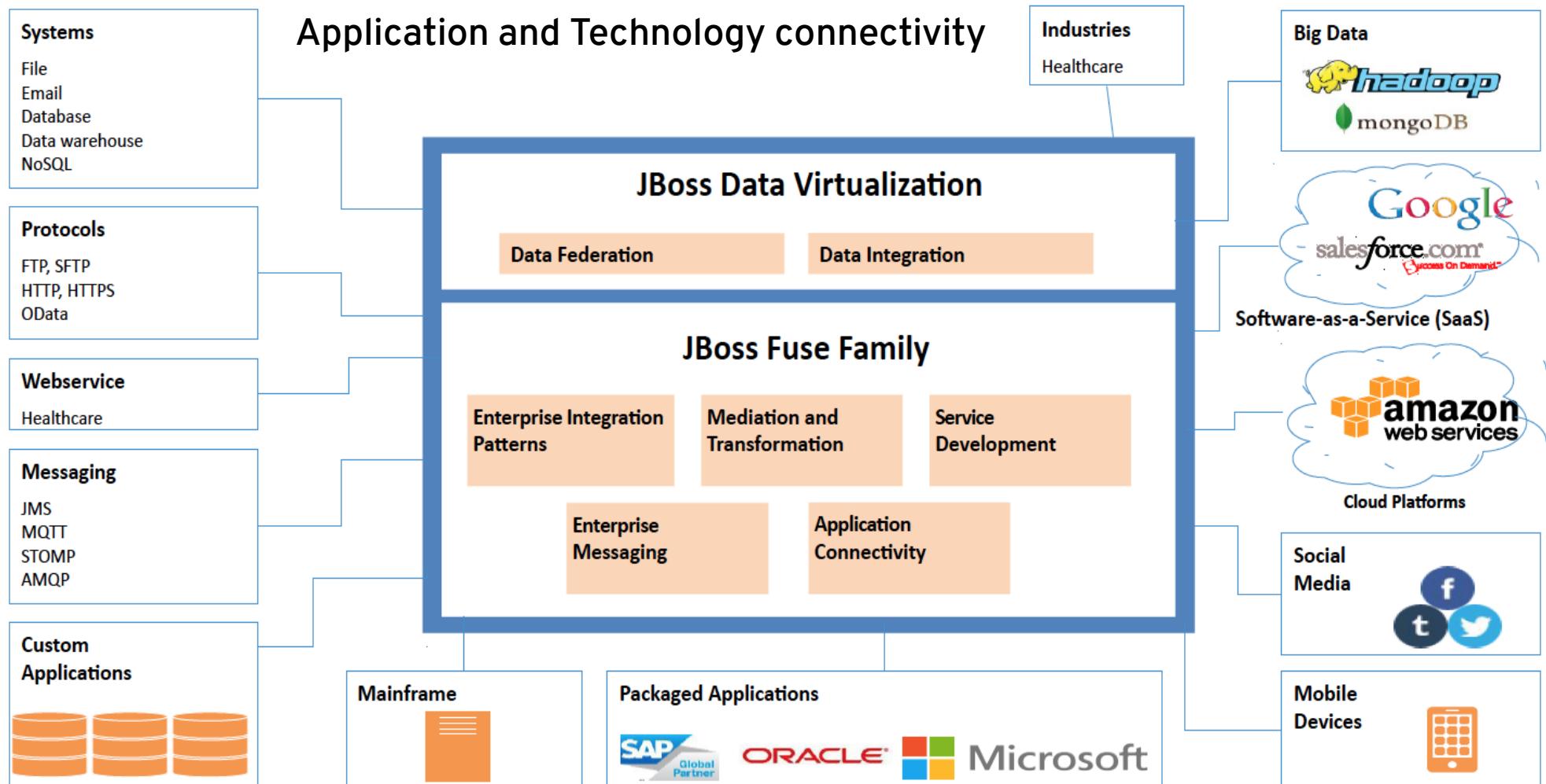
Red Hat's integration platform?

RED HAT JBOSS MIDDLEWARE



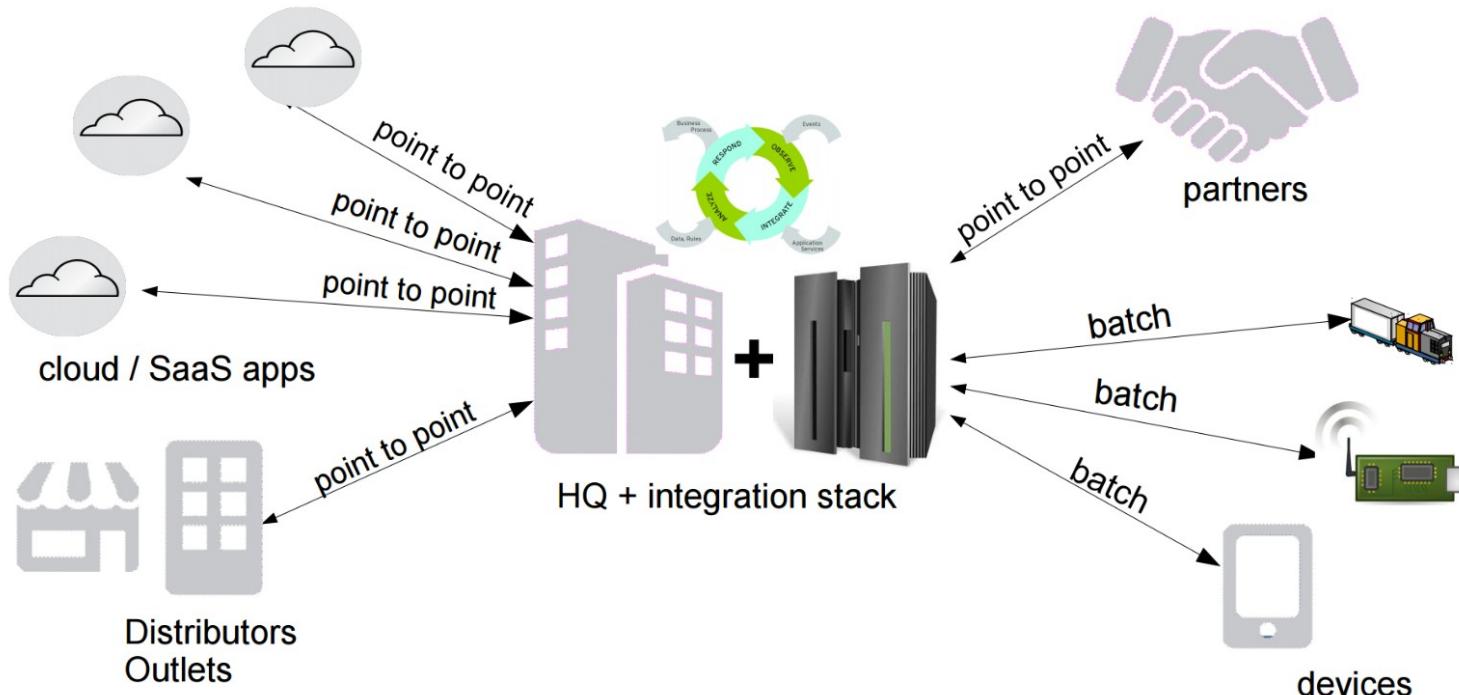
INTEGRATE

Connect systems, applications, and data across your entire enterprise.



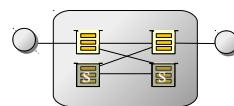
JBoss FUSE summary

- Lightweight integration platform / ESB
 - Cover most recent trends in integration
- Include matured de-facto standard technologies
 - Similar products:
- IBM Websphere ESB, Oracle ESB, Mule ESB ...



Fuse – Use Cases

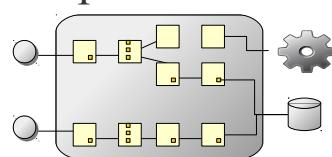
Messaging Platform



Fuse as asynchronous messaging platform:

Hub/Spoke connectivity is not a given
Guaranteed Delivery, Scalable, High Throughput

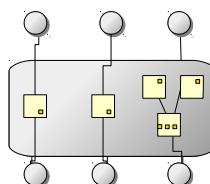
Integration platform



Fuse as a core integration component:

API Platform , Services Gateway,
Low-level integration, IoT ..

ESB



Fuse as an Enterprise ESB:

Build ESB integration scenario, great with BPM ..
Establish more control over internal systems and
stop expensive P2P integration developments

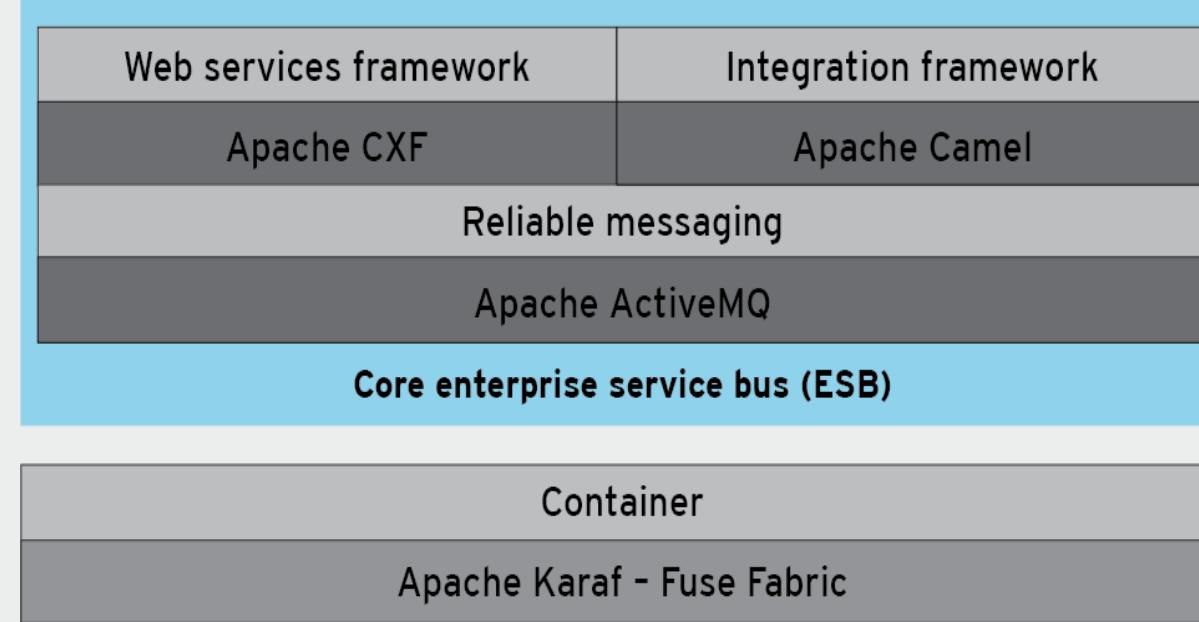
RED HAT JBOSS FUSE

Developer tools

Red Hat
JBoss
Developer
Studio

System
management

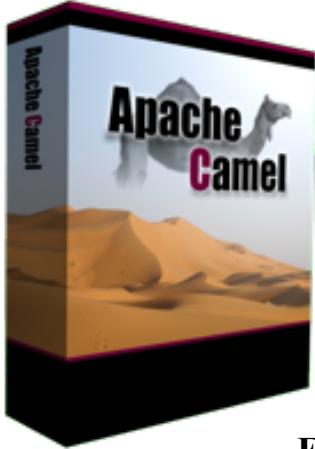
Red Hat
JBoss
Operations
Network



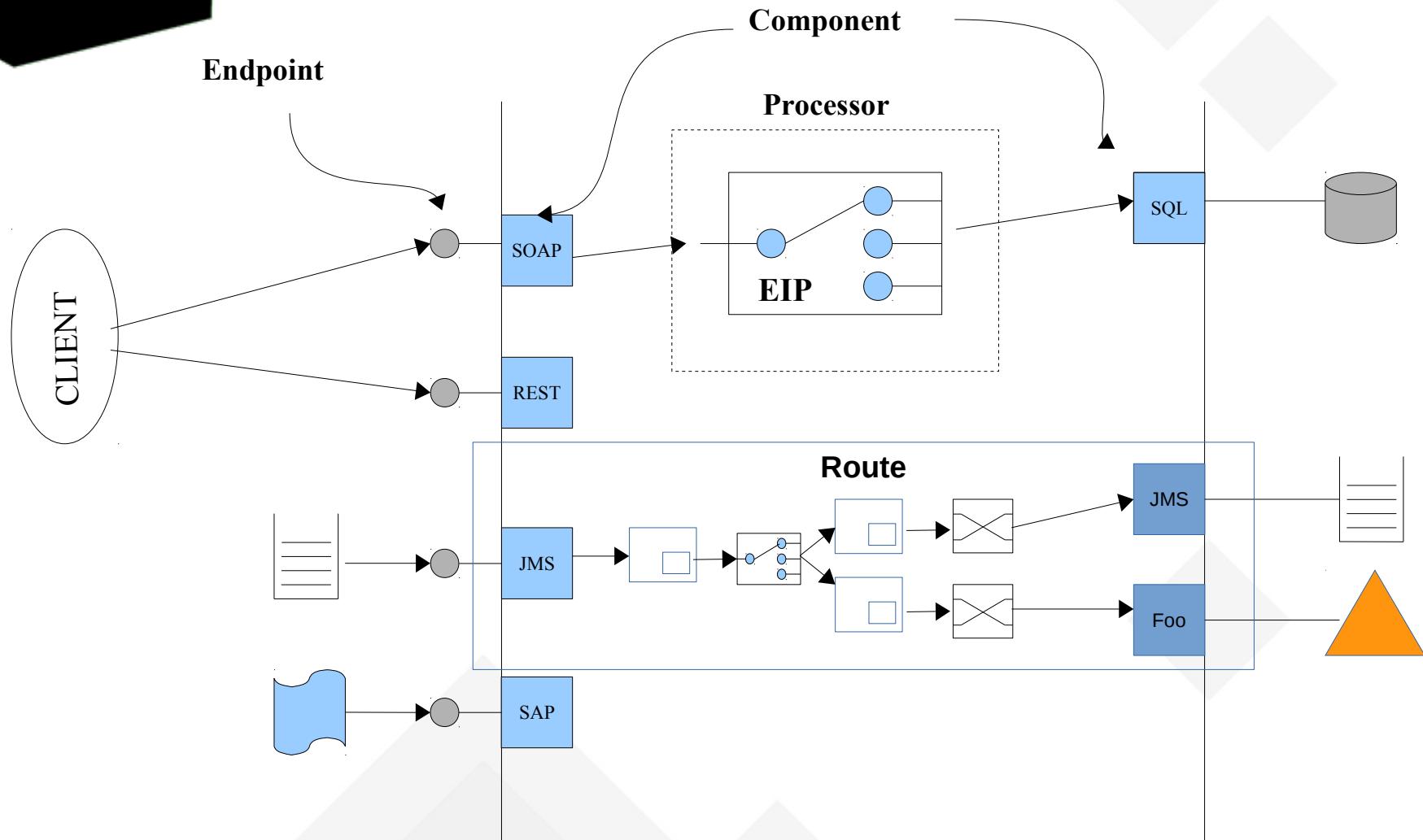
New in 6.2.1

- Merge with Fuse Service Works, SwitchYard etc included, EAP entitlement included!
- Ubiquitous connectivity 150+ connectors (SalesForce, SAP, Social, cloud integration)
- Unified management console which leverages Fuse Fabric
- Improved High Availability (shared-nothing configuration, LevelDB: dev-preview)
- Integration in the Cloud (OpenShift Cartridge) xPaaS ready

JB0011-S

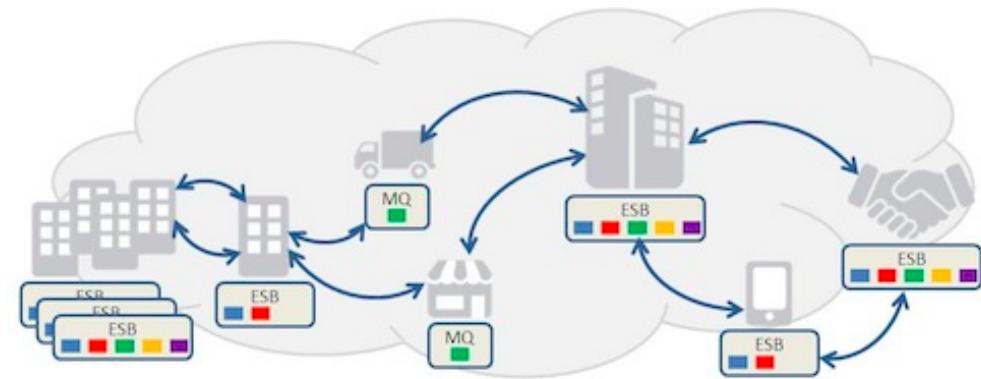


Camel does all the „dirty job“



Fuse Fabric

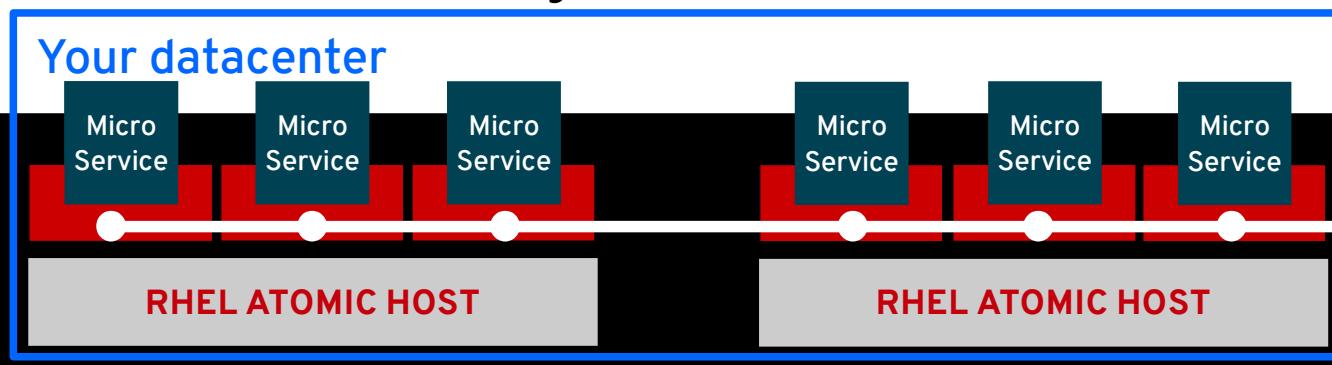
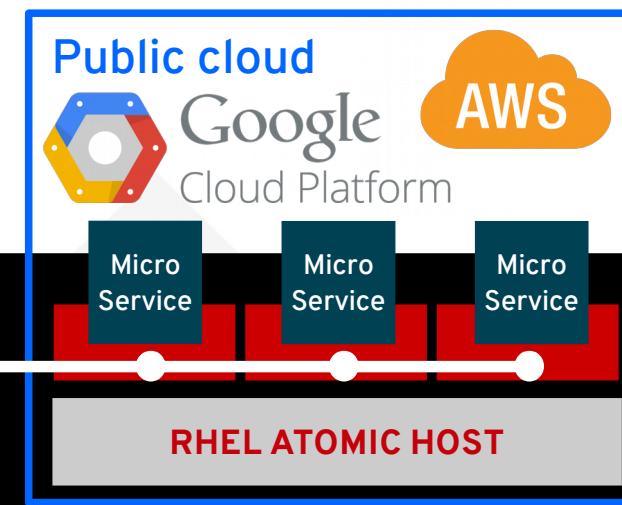
- Large scale hybrid deployments:
 - on premise local / remote / in cloud
- Endpoints can be:
 - Relocated/ load balanced / Elastic / highly available
- Distributed Configuration & Management
 - accessed across multiple domains / highly available
 - Elastic scaling of services / Resources Monitoring & control
- Hot upgrade & patching



But in PaaS we have containers, right?

PaaS: Openshift Container Platform

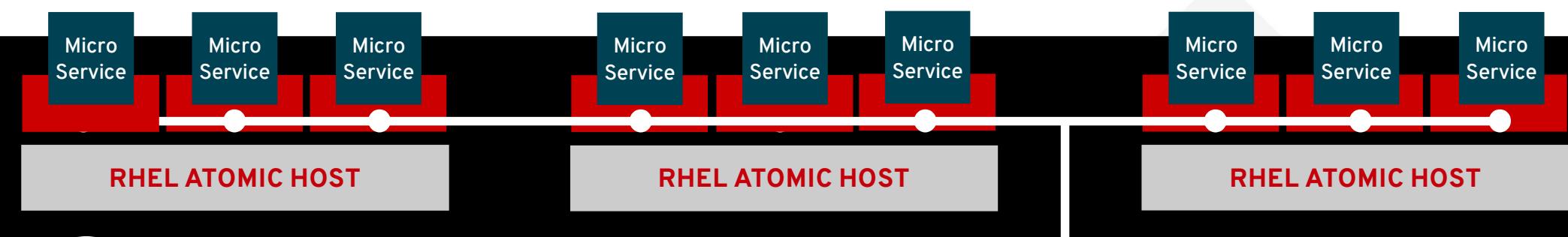
- Automates whole container lifecycle
- On Premise / In cloud / Both (aka. Hybrid)
- Containers orchestration (Kubernetes)
- Microservices O-o-the-box
- CI/CD automation, Dev Ops
- Scalability & HA O-o-the-box



Integration in PaaS, does it make sense?

FUSE in Openshift PaaS

- Integration of applications within the PaaS
- Integrate On-premise and Public Cloud Apps
- Fully automated deployment
 - build & deployed by Openshift
 - managed by Kubernetes
- Microservices managed by the platform

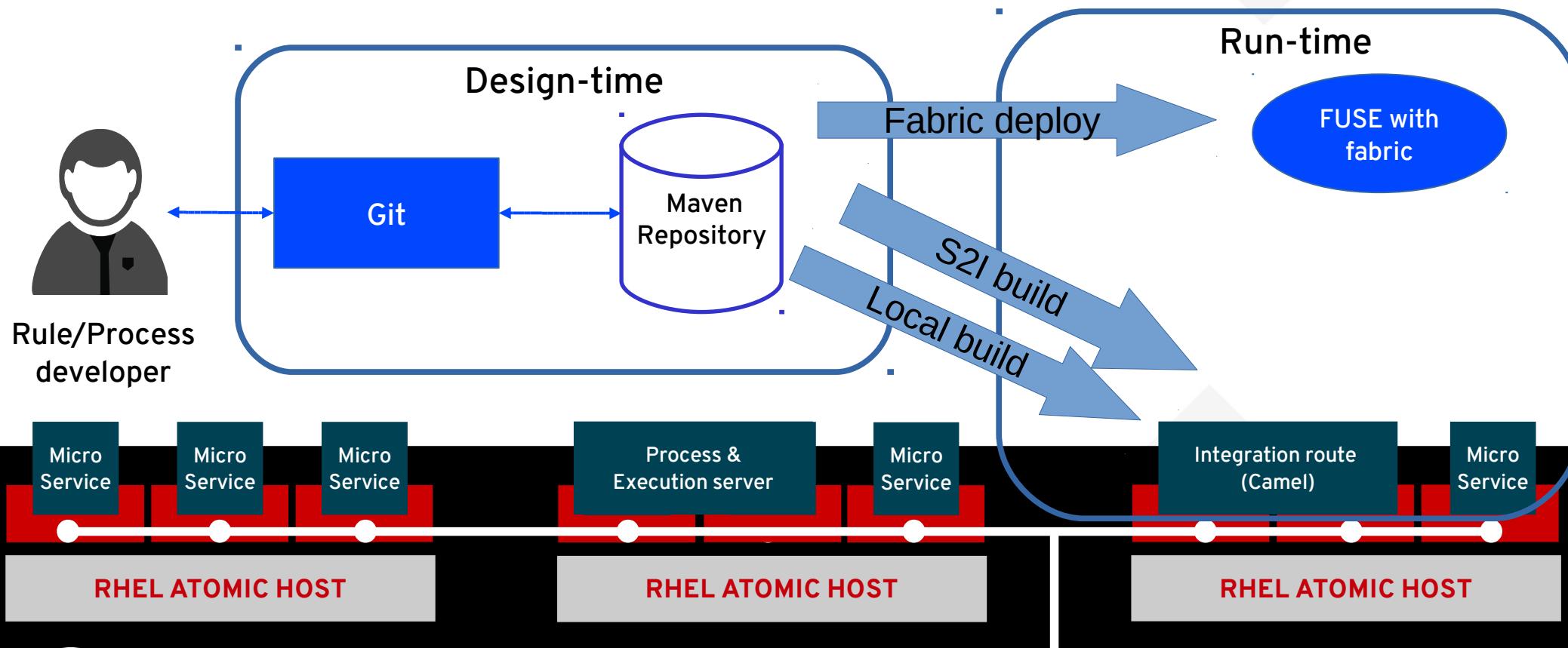


And the deployment magic?

FUSE: Openshift deployment

Fabric's job is done by Openshift / Kubernetes (Cattle approach is used)

- Build It, Push It (outside OpenShift) = Maven build & deploy the container
- Push It, Build It (inside OpenShift) = S2I template



The Red Hat vision:

- ✓ Modular microservices
- ✓ Based on JBoss Middleware
- ✓ Running in OpenShift

**RED HAT® JBOSS®
FUSE**

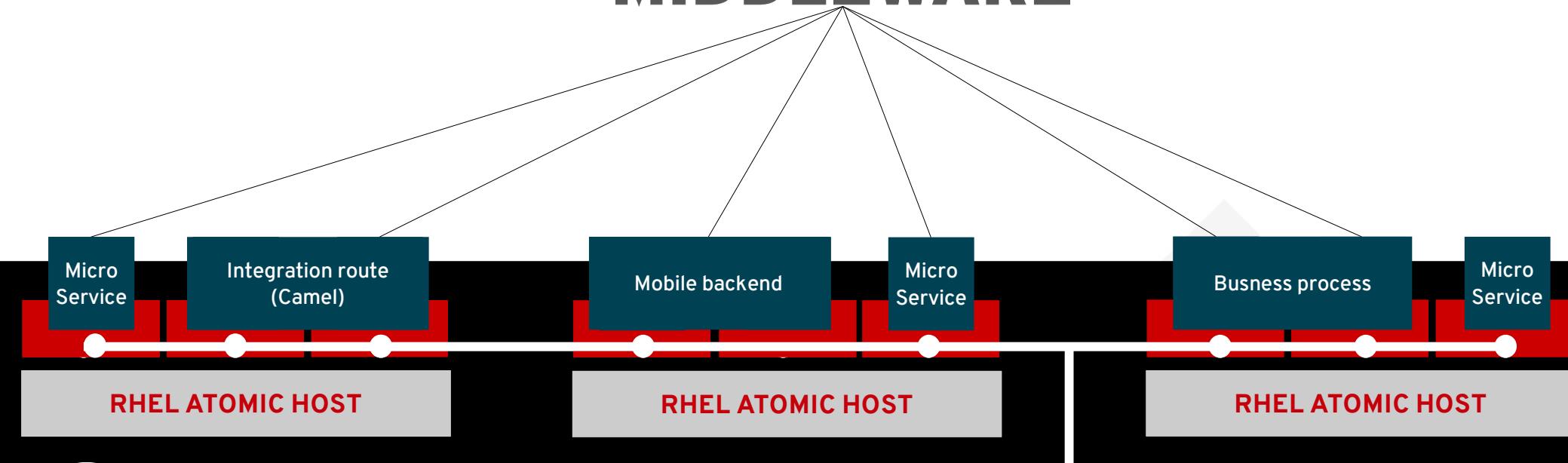
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APPLICATION PLATFORM**

**RED HAT® JBOSS®
BPM SUITE**

**RED HAT® JBOSS®
MIDDLEWARE**

3scale
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