Business Automation Architectures for a Cloud-Native World

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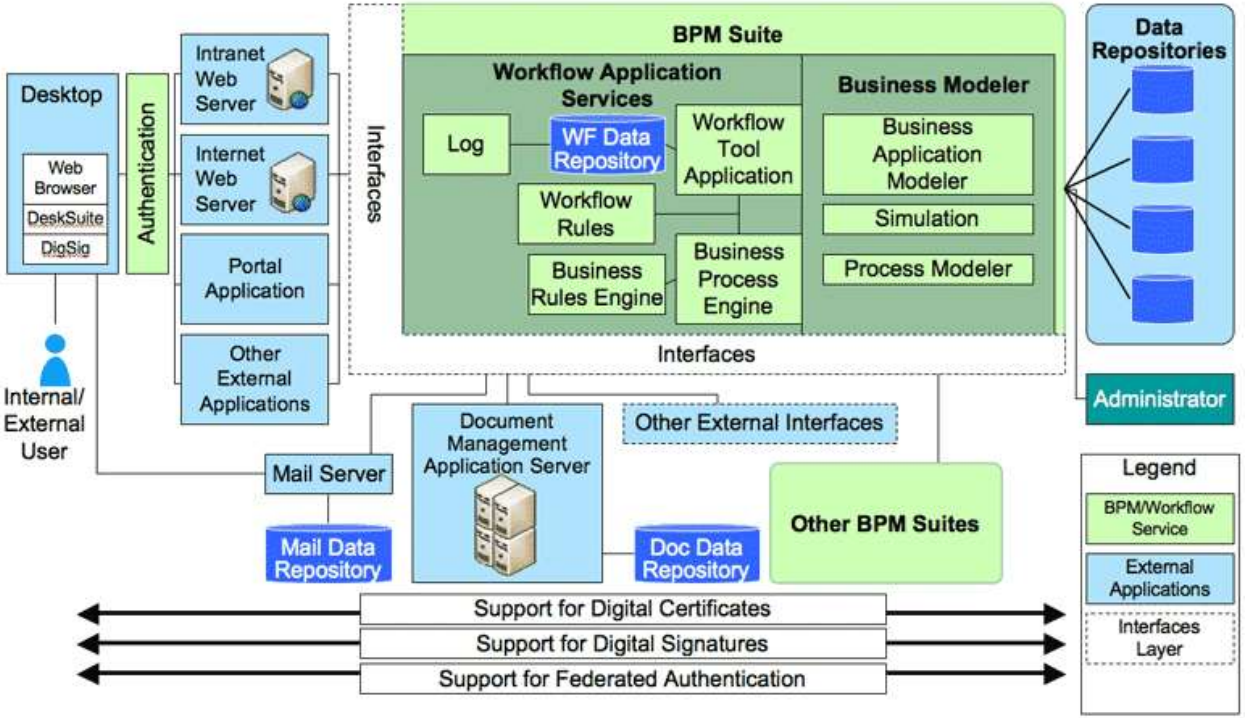
A Refresher: BPMS circa 2007



Wikimedia Commons: [BPM Workflow Service Pattern]

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Impact of the Cloud...

Provides superior economics

- Pay for usage
- Don't pay for idle

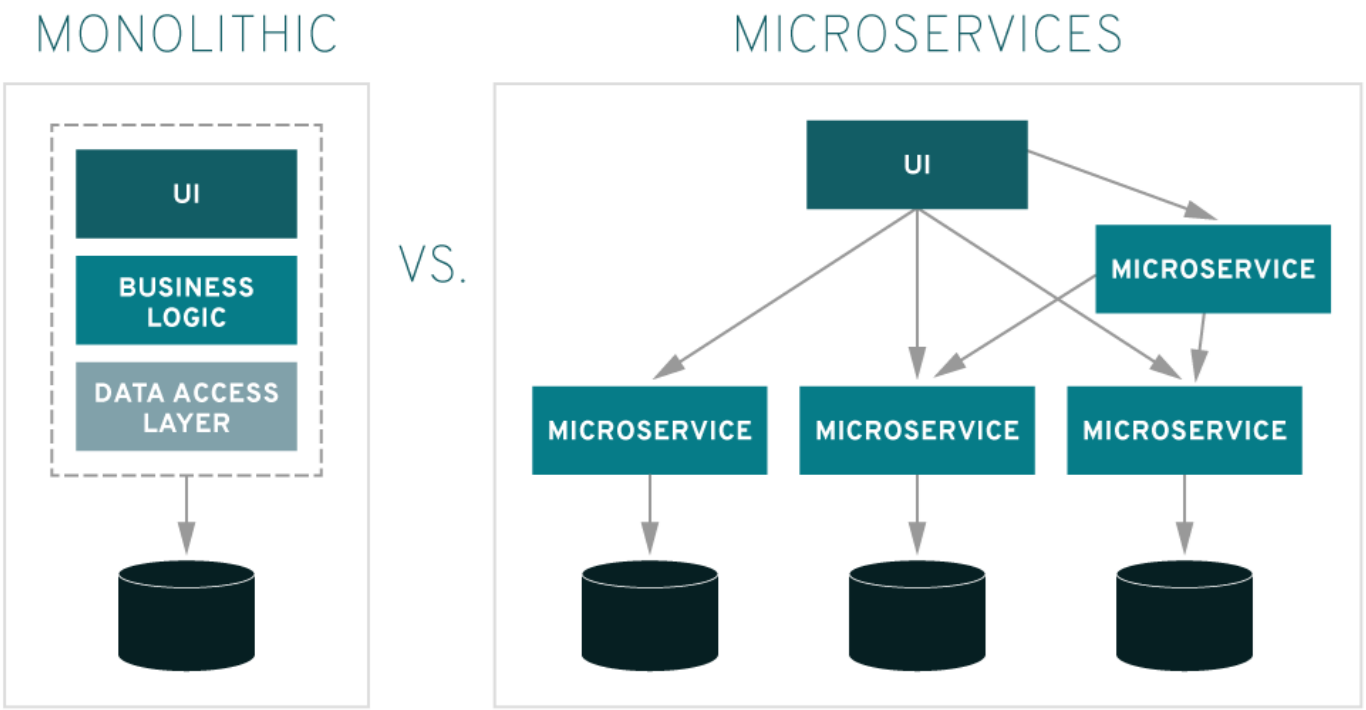
Improves Accessibility

- Zero for users to install
- Any app, anywhere, any time

Results in:

- New application architectures
- New approaches to application development

New Architectures



https://www.redhat.com/en/topics/microservices/what-are-microservices

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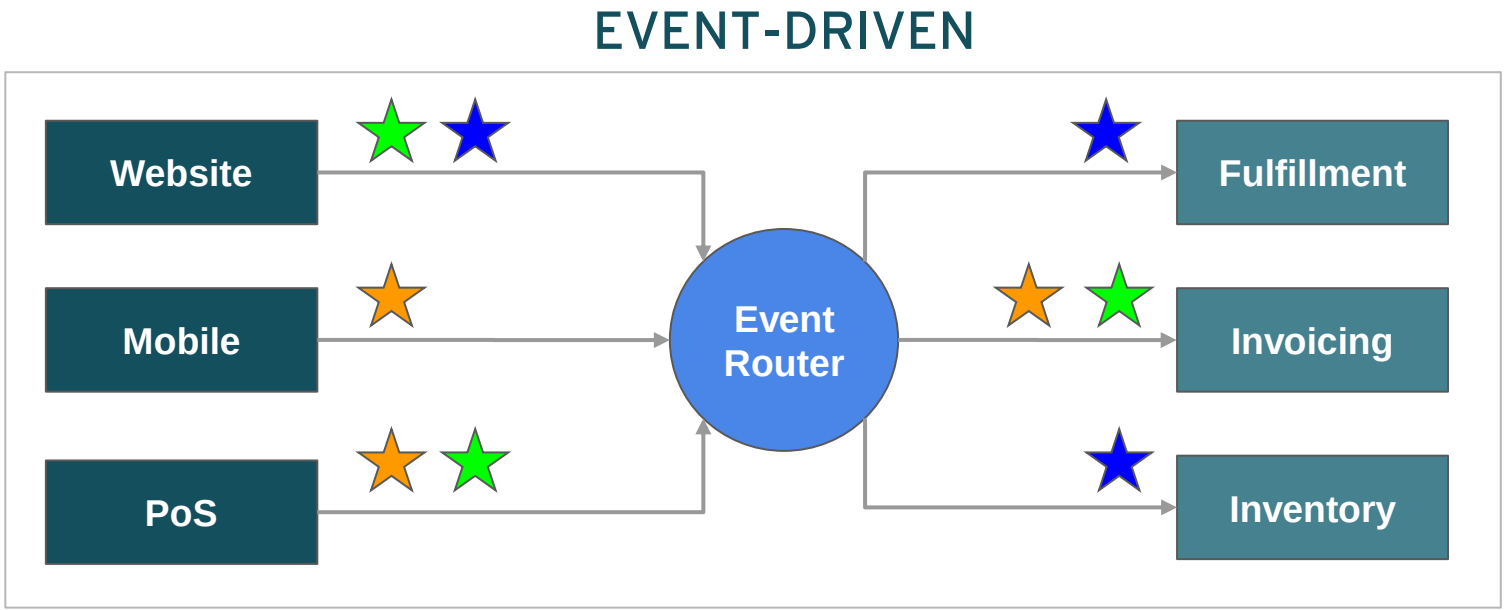
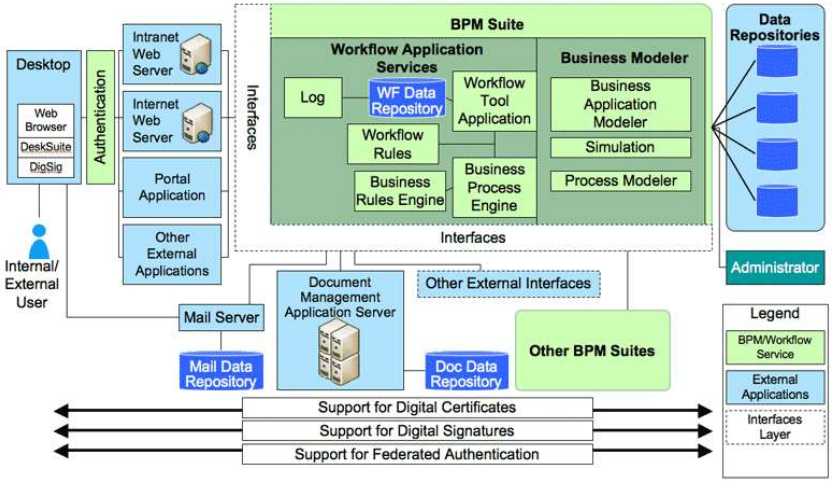
New Architectures



The BPMS Cloud Challenge



- BPMS are typically not optimized for the cloud use-case
  - Cannot be split into independent microservices
- Much of the code performs support functions unrelated to BPM:
  - Clustering
  - Failover
  - Authentication & authorisation
  - User management
  - Data storage & retrieval

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Introducing Kogito

Cloud-Native Business Automation for building intelligent applications, backed by battle-tested capabilities

A continuation of Drools, jBPM and Optaplanner but completely redesigned to be cloud-native!

kubernetes OPENSHIFT

QUARKUS

OPERATOR FRAMEWORK

Infinispan

kafka

Grafana

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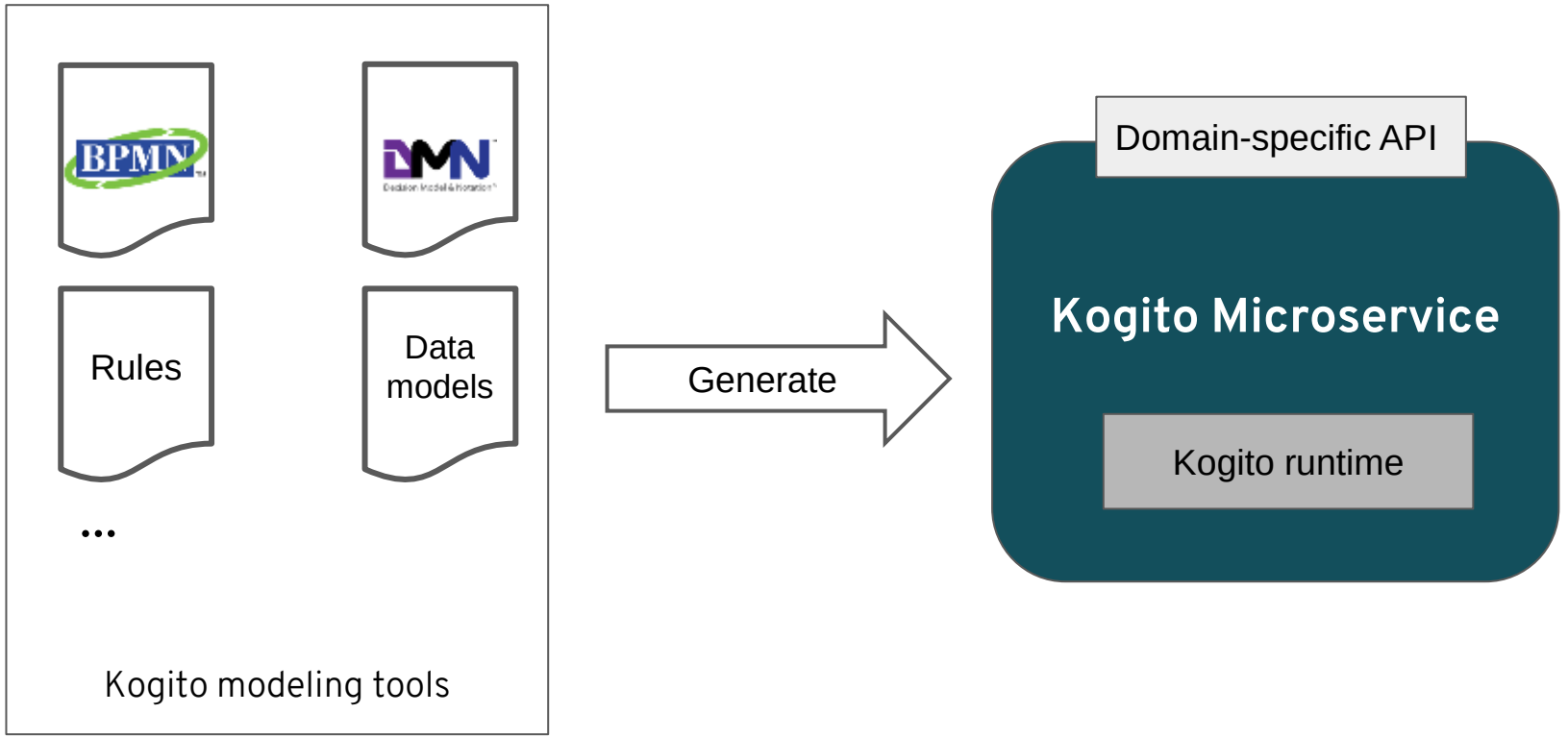
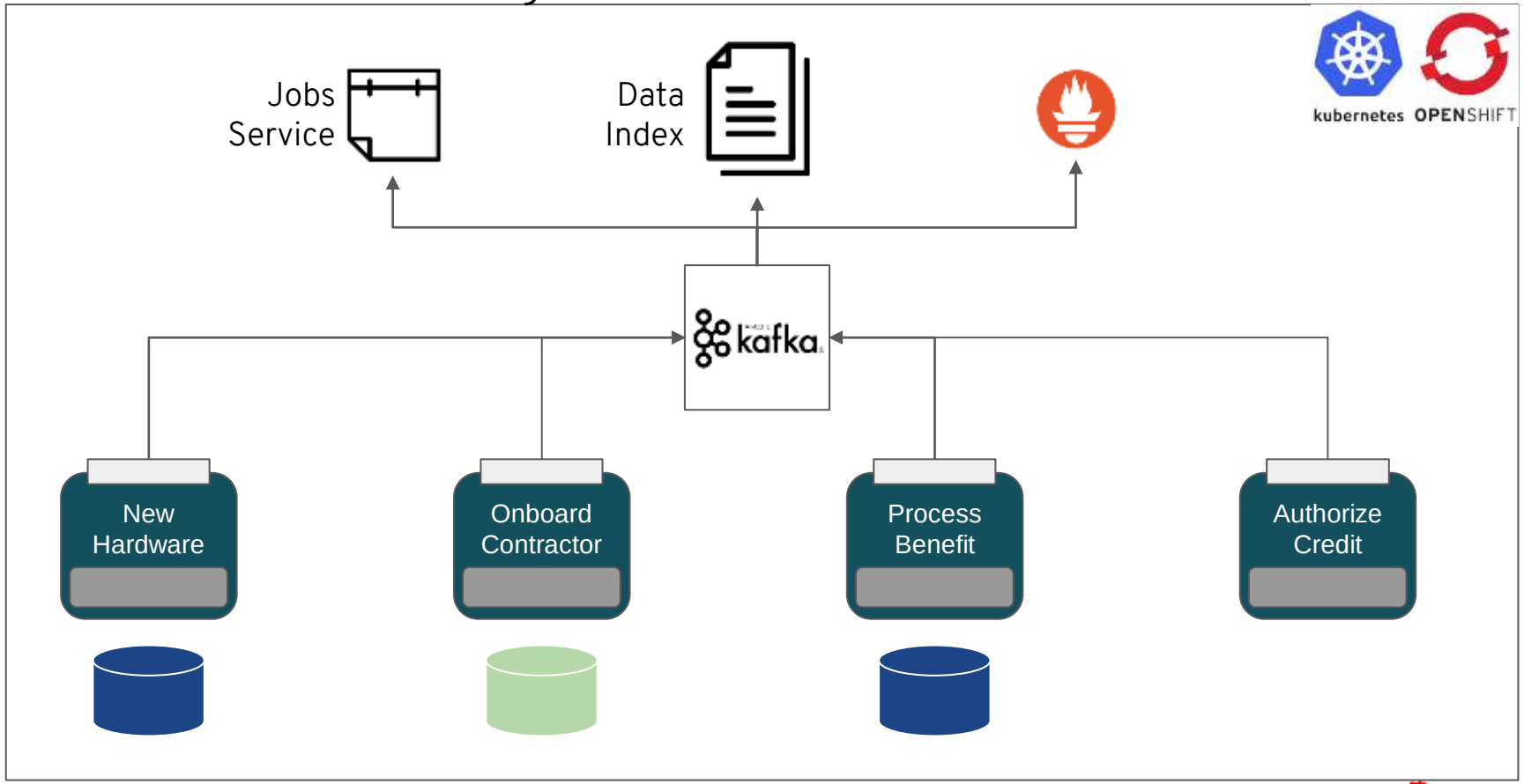
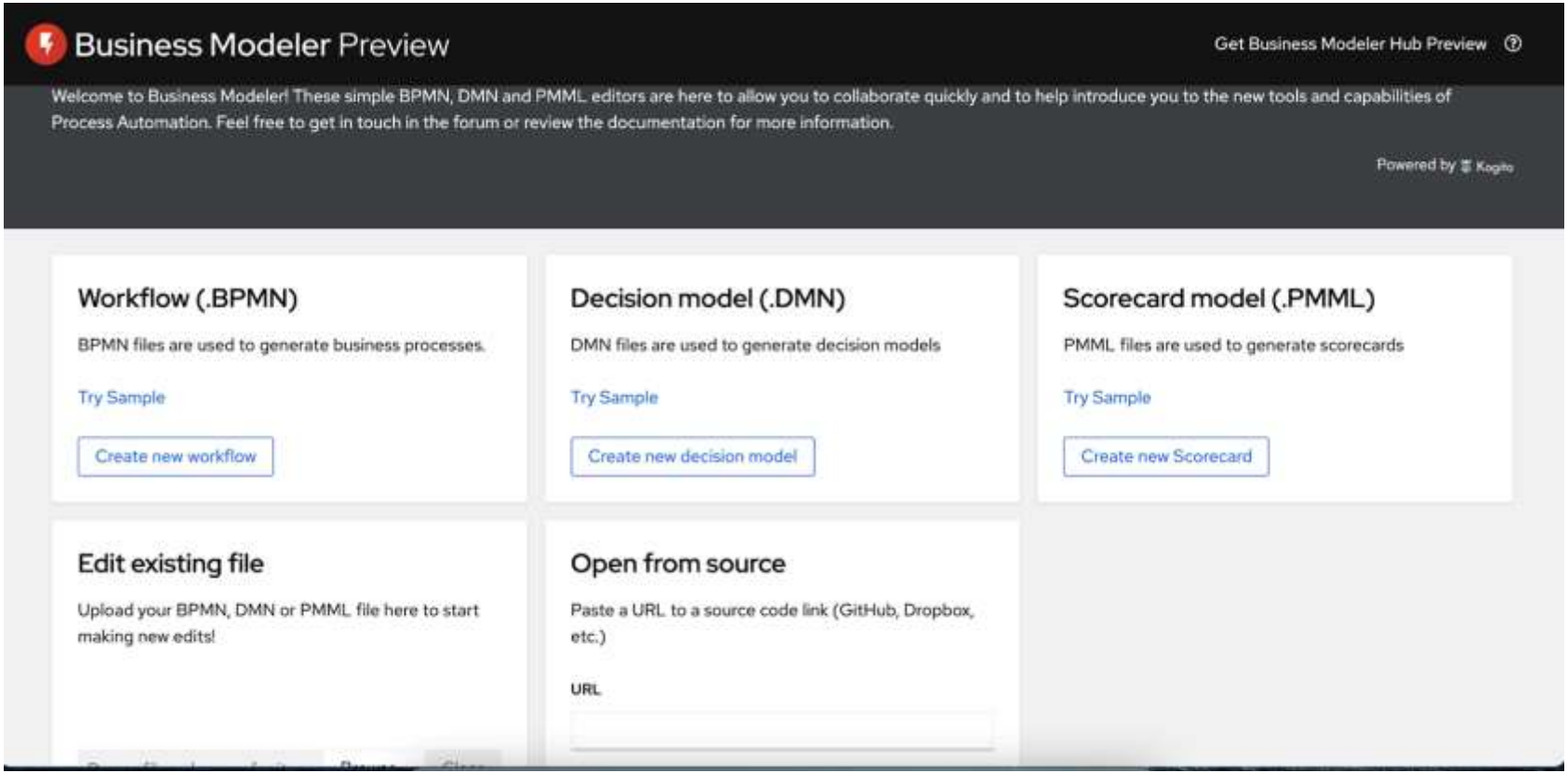
A Kogito Microservice



Kogito Runtime Architecture



Example Kogito Tools



https://kiegroup.github.io/kogito-online-staging/dmn-runner/#/

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KOGITO VALUE

Cloud-Native

Low memory, fast startup, cloud efficiency, serverless, business optimizations

Agile

Fast experimentation and rapid delivery of changes

Speed to market

Through low learning curve, developer efficiency, standards, straightforward integration

Thank you

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