PROCESS-DRIVEN APPLICATIONS

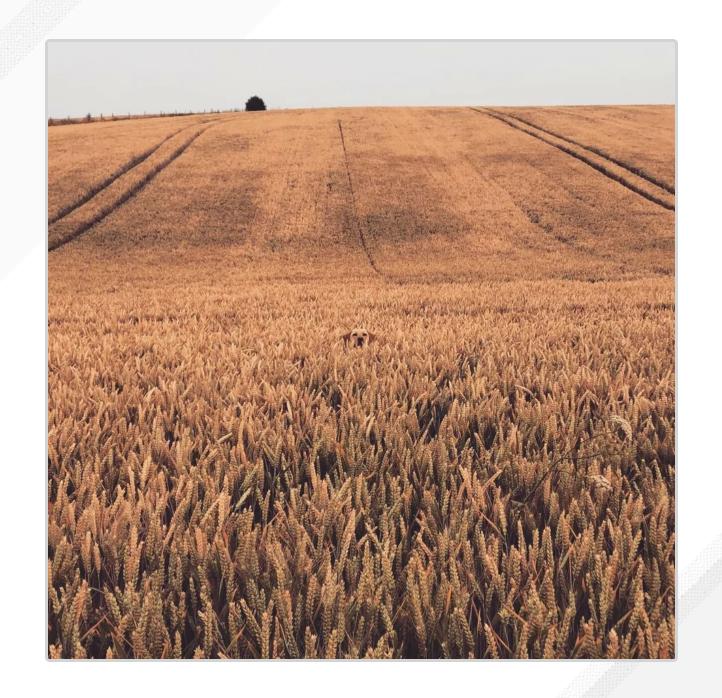
TRILHA - ARQUITETURA JAVA



Karina Varela

Software Maintenance Engineer at Red Hat

WHAT DO YOU SEE?





"Everyone like progress, but no one likes change.

That's why leadership is hard."

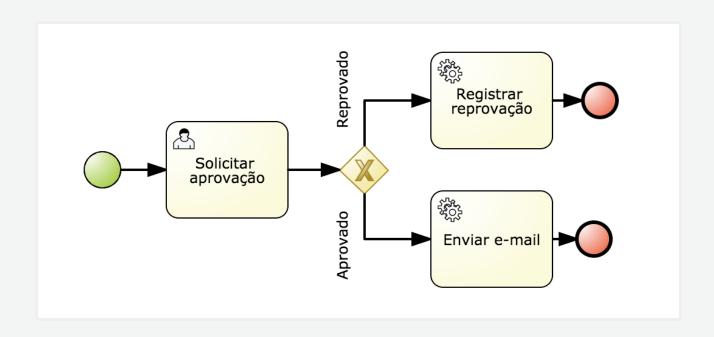
Geoffrey Garret

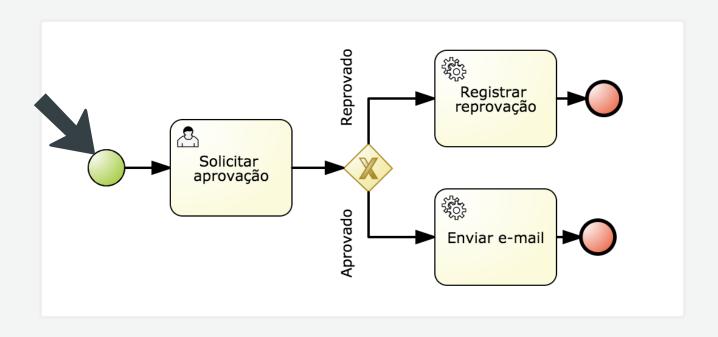
Dean, Wharton School of the university of pennsylvaniaa

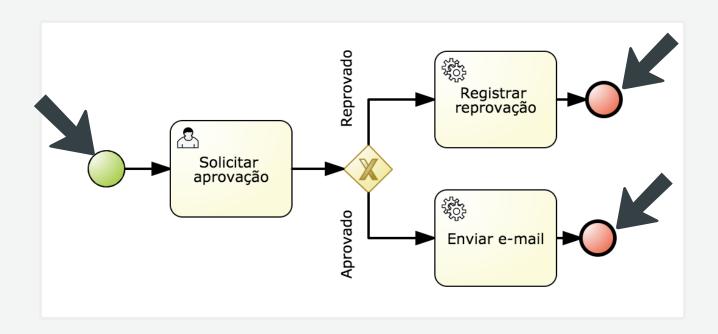
BUT...

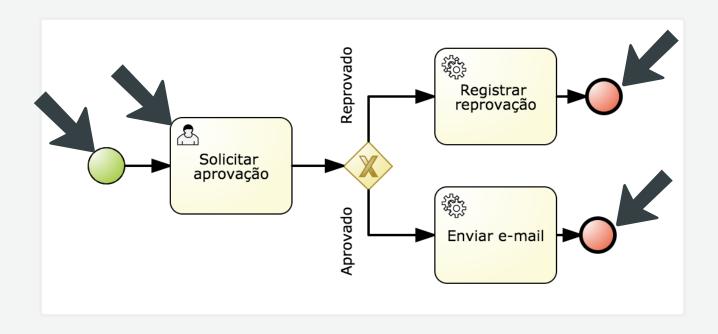
...WHAT IS A PROCESS?

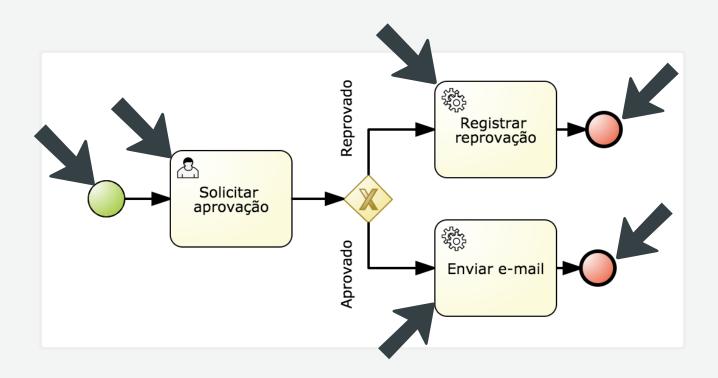


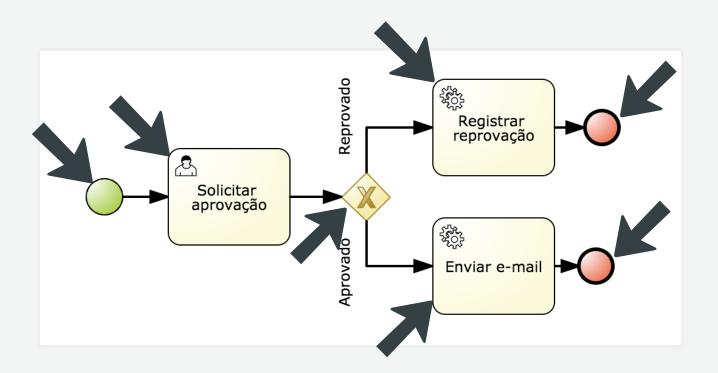






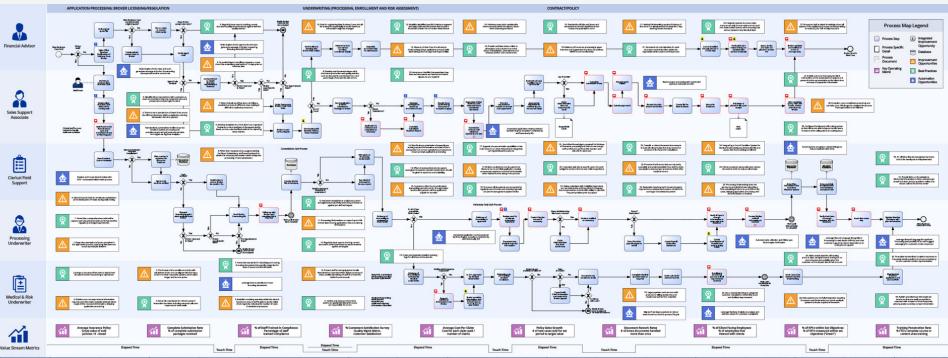






... THIS IS ALSO A PROCESS

(Insurance process in BPMN2 Notation)



^{*}source: https://processreopt.com/wp-content/uploads/2017/12/map_insnb_rpa1.jpg

IF CAN YOU BREAK IT INTO SMALLER PIECES

...THEN IT IS A PROCESS!













THE SHIFT OF APPLICATION DEVELOPMENT

THEN:

(Monolithic) Application



Code

IDE



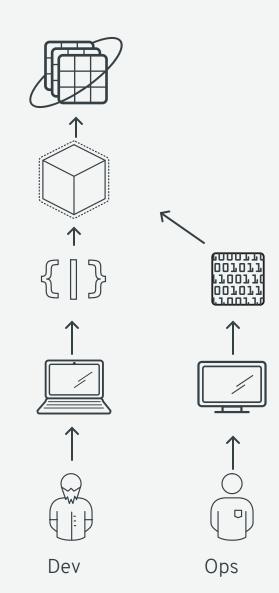
NOW:

Microservices Application

Containers

Models

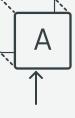
Business modeling tool



THE SHIFT OF APPLICATION DEVELOPMENT

THEN:

(Monolithic) Application



Code

IDE



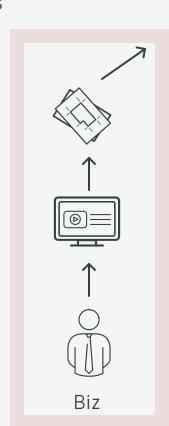
NOW:

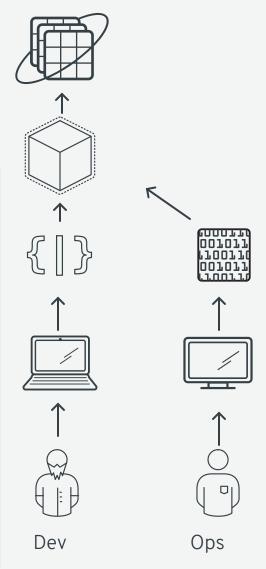
Microservices Application

Containers

Models

Business modeling tool



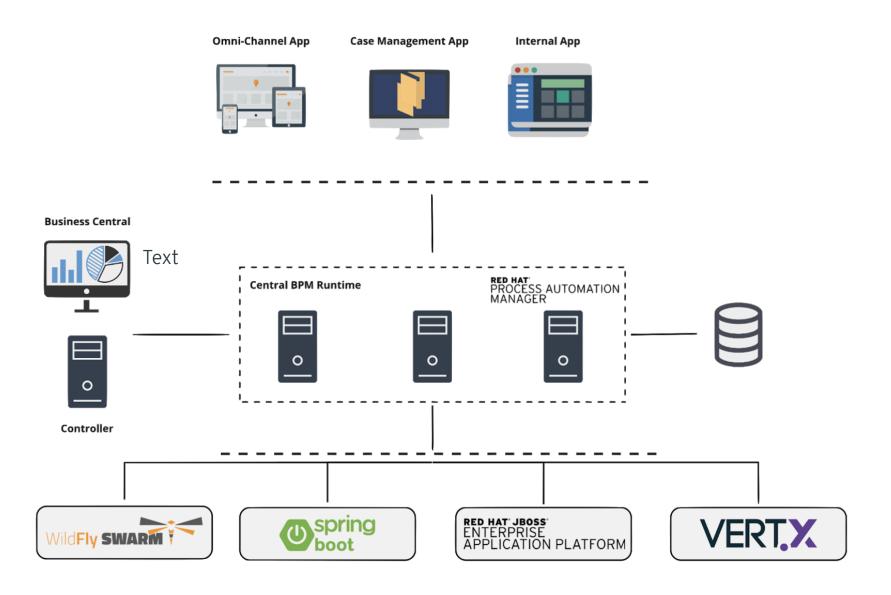


HOW DOES IT FIT OUR REAL-WORLD ARCHITECTURE?

BPM is evolving

...from a centralized,
service orchestration and
state management platform

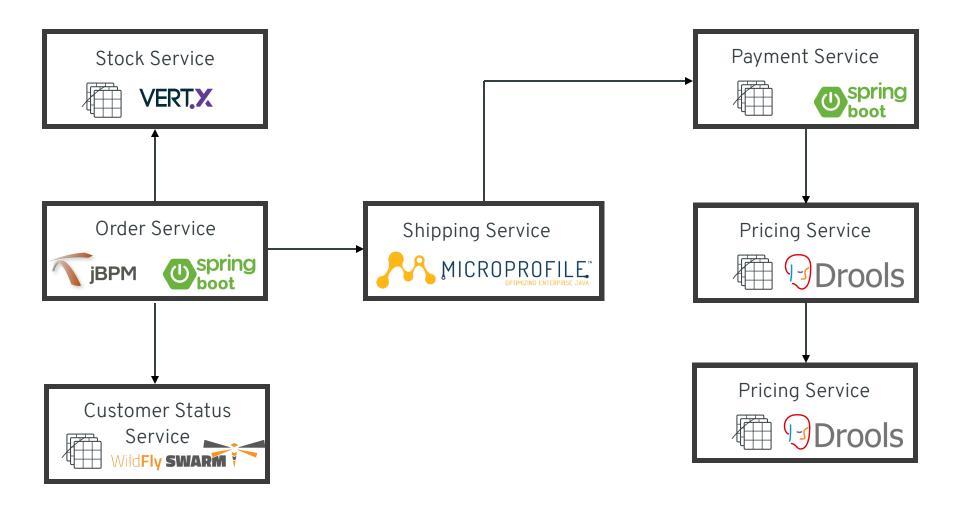
CENTRALIZED BPM



...to decentralized, distributed model,

providing process automation capabilities as an **implicit** feature of Microservices architectures.

DECENTRALIZED BPM

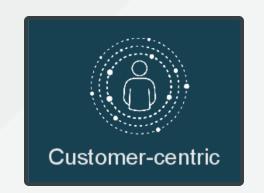


DECENTRALIZED BPM



KEY CHARACTERISTICS OF PROCESS-DRIVEN APPLICATIONS

Busines Characteristics







Technology Characteristics







LET'S ORDER A PIZZA

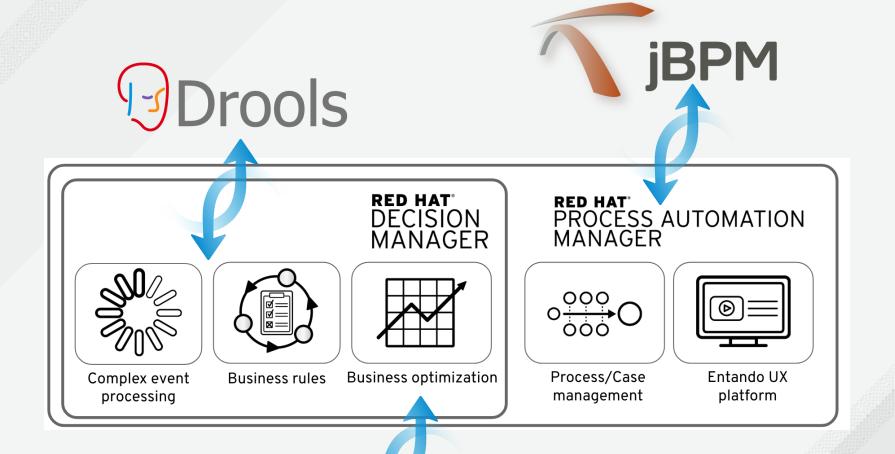
LET'S ORDER A PIZZA

Process: https://github.com/kmacedovarela/jbpm-processes-pizzapizza

Rules: https://github.com/kmacedovarela/jbpm-rules-pizzapizza

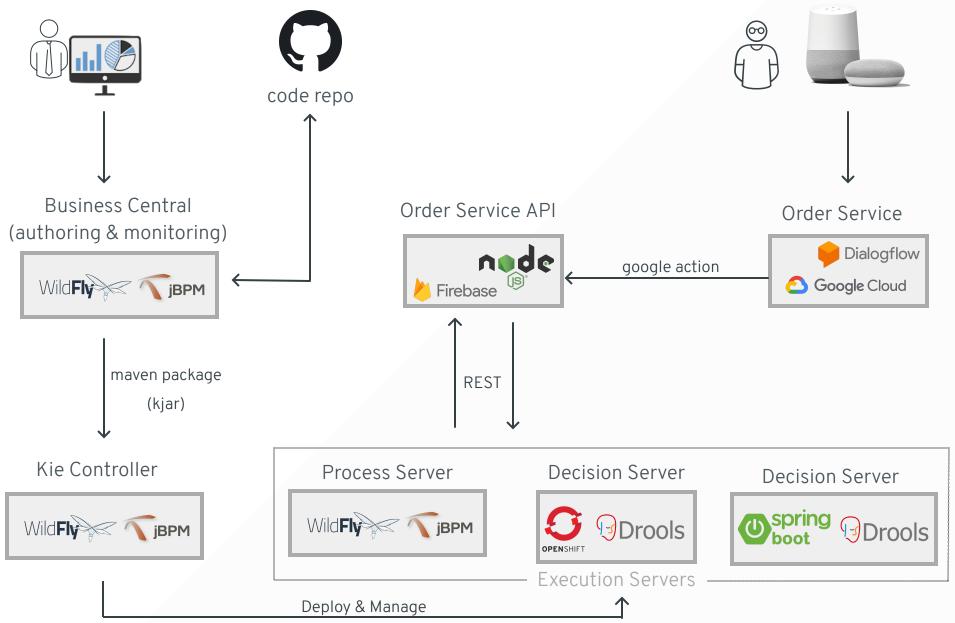
Scripts:https://github.com/kmacedovarela/dialogflow-nodejs-pizzapizza

RUNNING PROCESS-DRIVEN APPLICATIONS





UNDER THE COVERS



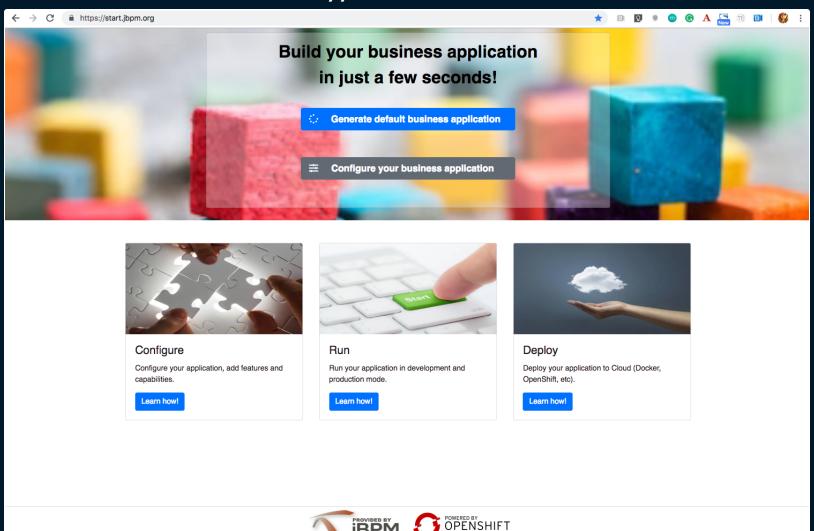




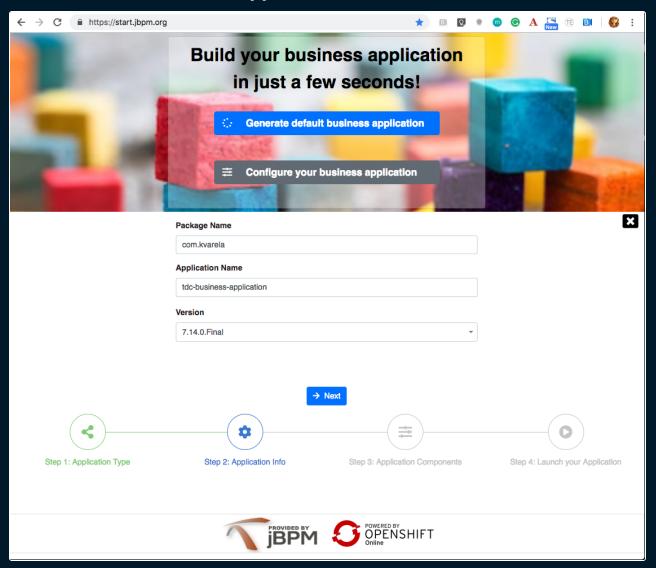




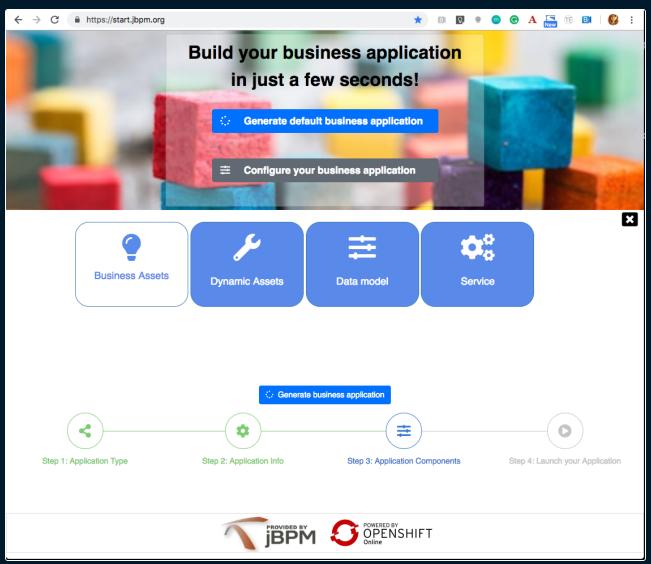
HTTP://START.JBPM.ORG



HTTP://START.JBPM.ORG



HTTP://START.JBPM.ORG



```
$ unzip tdc-business-application.zip tdc-business-application-kjar tdc-business-application-model tdc-business-application-service

$ cd tdc-business-application-service

$ launch.sh clean install
```

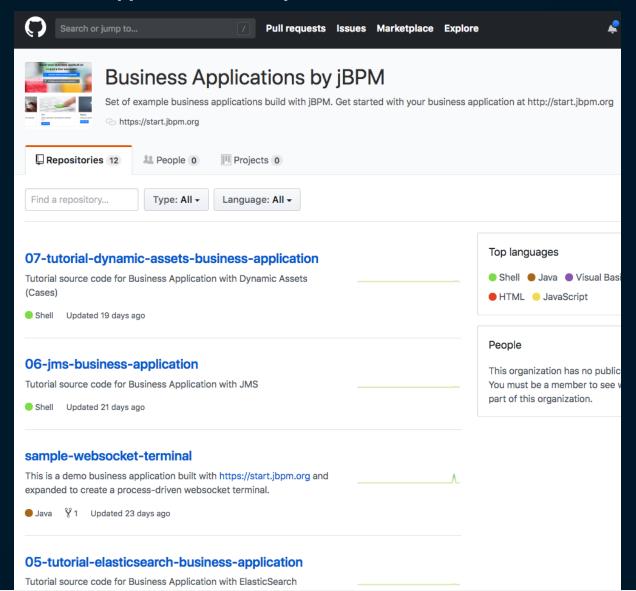
```
$ unzip tdc-business-application.zip tdc-business-application-kjar tdc-business-application-model tdc-business-application-service

$ cd tdc-business-application-service

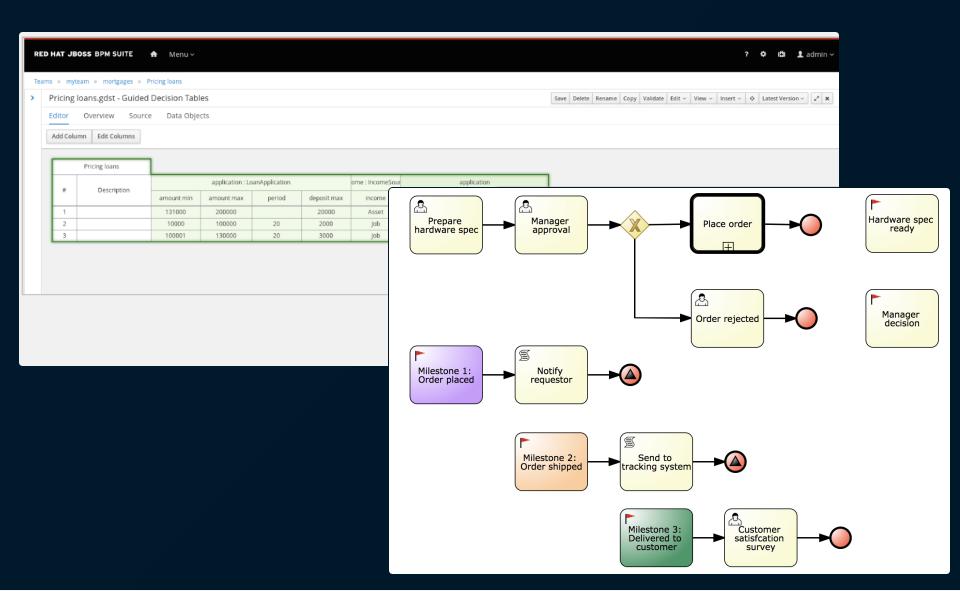
$ launch.sh clean install
```

EXAMPLES

HTTPS://GITHUB.COM/BUSINESS-APPLICATIONS



IMPLEMENT YOUR RULES AND PROCESSES



CODE CLIENT APPLICATIONS



RED HAT JBOSS DATA GRID for xPaaS





RED HAT JBOSS FUSE
For OpenShift



RED HAT JBOSS ENTERPRISE APPLICATION PLATFORM



• • •



THINGS TO REMEMBER









THANK YOU!