

Open Source Process AutomationGET STARTED

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AGENDA

Open Source Process Automation

- BPM Intro
- Business automation
- Architecture
- New project in Business Central
- Business assets
 - Data objects
 - ☐ Business processes
 - □ Forms
- Process administration
- Team collaboration





Business Central

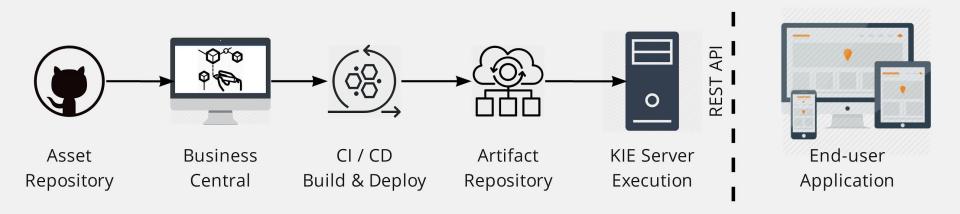








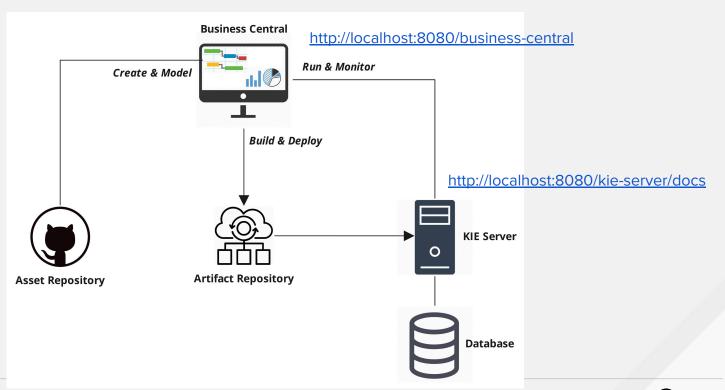
FROM A MODEL TO PRODUCTION





MINIMAL VANILLA ARCHITECTURE

All we need





SETUP

the first steps

- Download and unzip the <u>single zip distribution</u>
- Run:

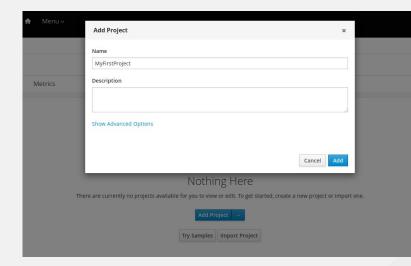
jbpm-server/bin/standalone.sh (Unix / Linux) jbpm-server/bin/standalone.bat (Windows)

- Add users and groups
- ☐ Use H2/MySQL/PostgreSQL database (optional)
- ☐ More info in <u>Getting Started Guide</u>



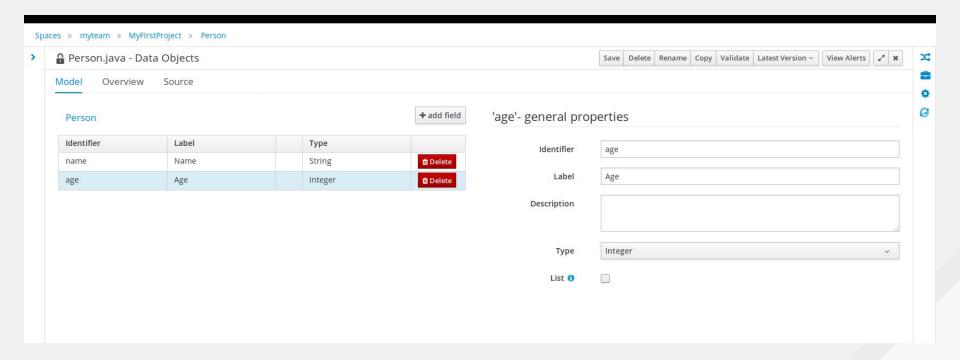
NEW PROJECT IN BUSINESS CENTRAL

- Based on Maven and stored in Asset repository (GIT)
- ☐ Try Samples
- SNAPSHOT development version
- Add assets
 - Data Object
 - Business Process
 - ☐ Form
 - DMN Model
 - Test Scenarios
- Build and Deploy





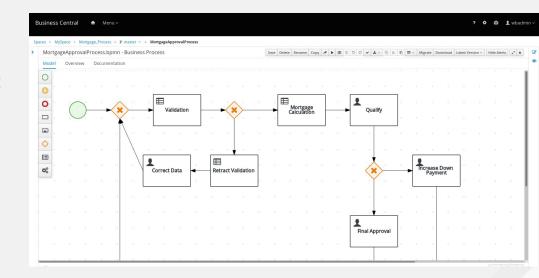
DATA MODELING





PROCESS MODELING

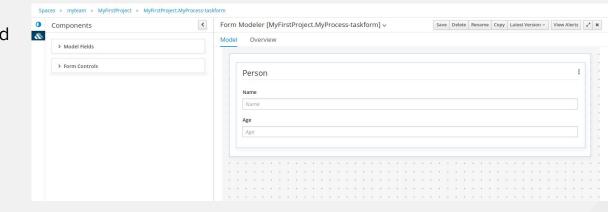
- Subset of BPMN2 elements
- ☐ Focus on execution semantics
- Form generating
- Export to PNG, PDF, SVG, BPMN2





FORM MODELING

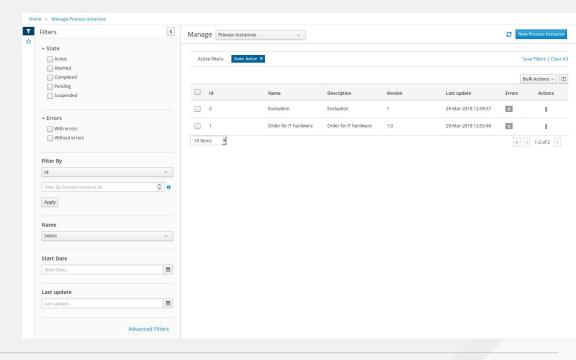
- Generate forms for
 - Data Objects
 - Process start form
 - Task form
- Widget library able to bind different types of data (TextBox, DatePickers, Checkboxes, ListBox, Nested Forms...)





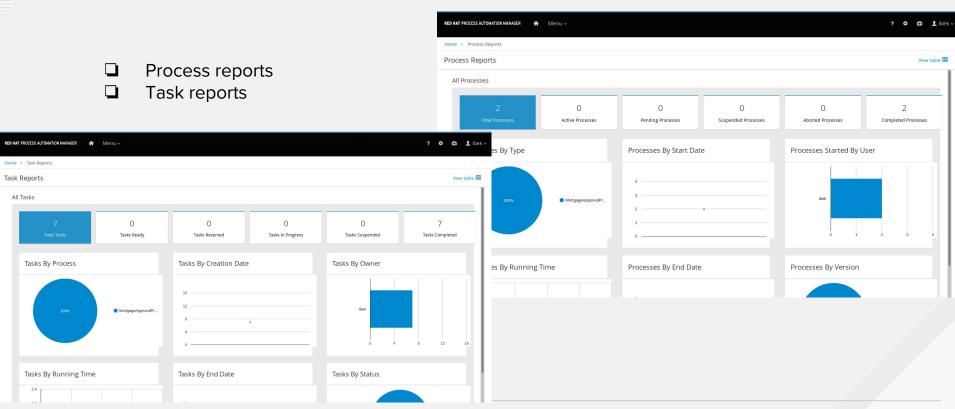
PROCESS ADMINISTRATION

- Quick access to:
 - Process Definitions
 - Process Instances
 - □ Tasks
 - Execution errors
 - Jobs
- → Filtering





PROCESS MONITORING





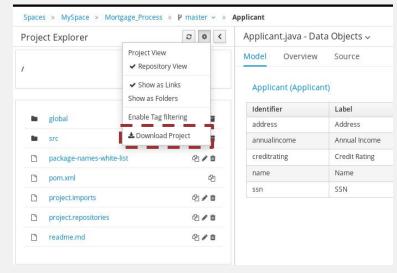
TEAM COLLABORATION

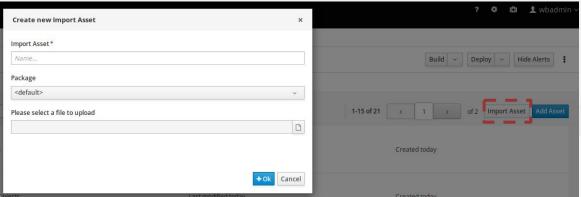
How to work on a project as a team without any complex setup of the infrastructure (git hooks, central git repository, ...)

1. Split the work between the team

members

- 2. Export project
- Share your assets with your team
- 4. Import assets to your local instance

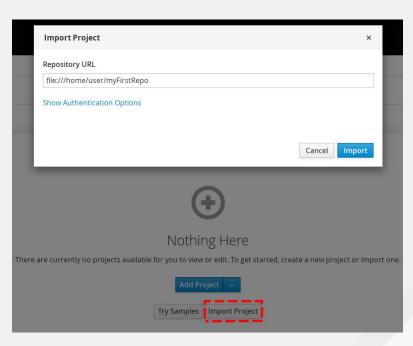






TEAM COLLABORATION VIA GIT

- Requires only basic Git skills
- Pull your business assets from Business Central
 - git remote add business-central ssh://wbadmin@localhost:8001/MySpace/
 - 2. git pull business-central master
 - 3. password wbadmin
- Push your business assets for example to GitHub
 - I. git push github master
- Import your business assets to another Business Central either by pushing to it or by cloning whole repository from UI







THANK YOU





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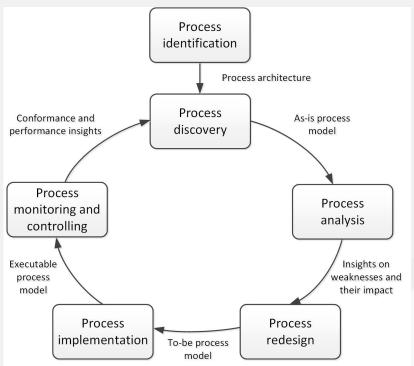
BUSINESS PROCESS MANAGEMENT

the way a company manages and improves business processes

"A business process is a collection of activities that takes one or more kinds of input and creates an output that is of value to the customer. A business process has a goal and is affected by events occurring in the external world or in other processes." Hammer, M. and Champy, J.

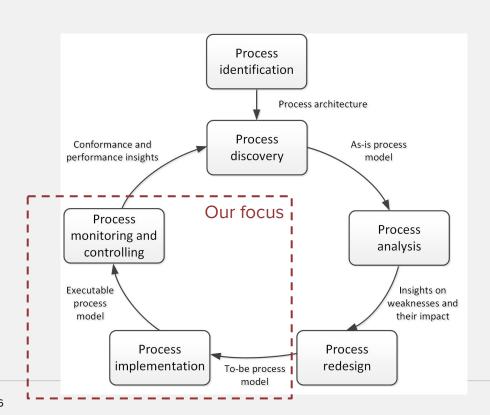
- approval process
- payment process
- employee onboarding
- loan/mortgage application
- Manufactoring / assembly line

- service requests
- rent car process
- vacation approval
- media publish process





RETURN ON INVESTMENTS (ROI)



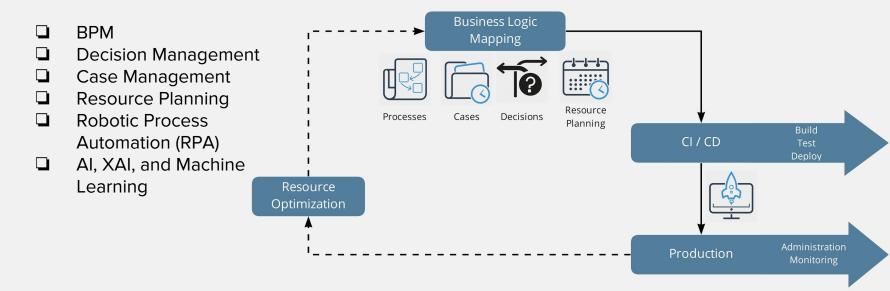
Frequency
Size and complexity
Diversity (actors, systems, rules)
Speed (SLAs)

Time (spent on a single manual task) x
Frequency (of performing a task per month) x
Cost (per hour) x 12 (months) = **Yearly Savings**



BUSINESS AUTOMATION

more than BPM



See BPM in context

