Open Source Process Automation

GETTING STARTED

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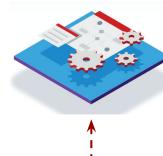
Feb 2020



AGENDA

Process
Automation
Red Hat Manager

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



Business Central

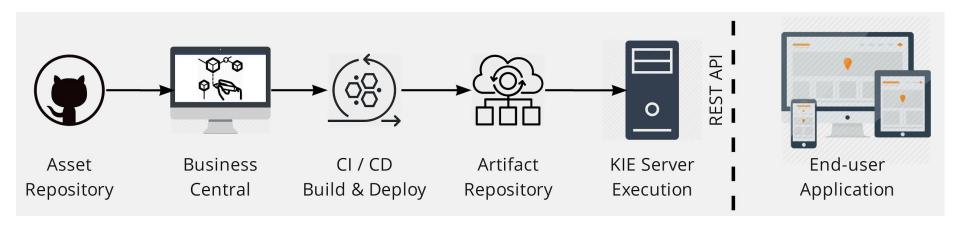






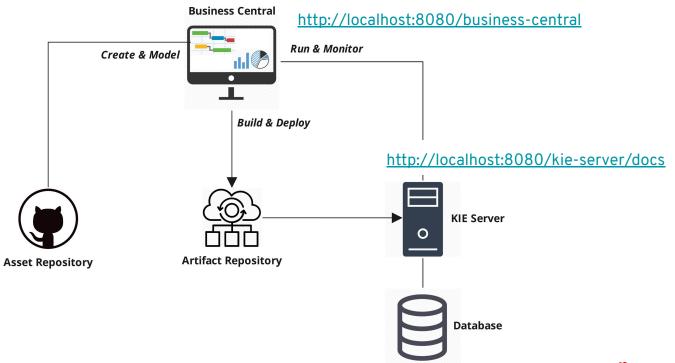


FROM A MODEL TO PRODUCTION





MINIMAL VANILLA ARCHITECTURE





SETUP - THE FIRST STEPS

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

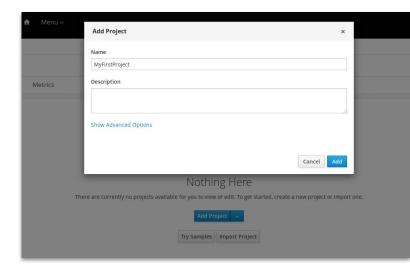
jbpm-server/bin/standalone.sh (Unix / Linux) jbpm-server/bin/standalone.bat (Windows)

- 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





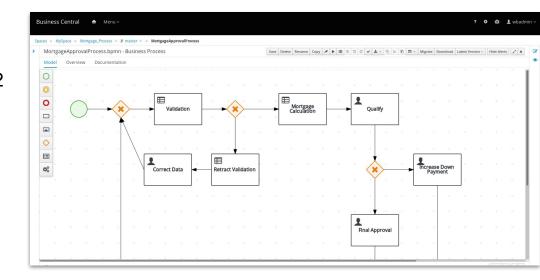
DATA MODELING

Person.java - Data Objects					Save Delete Rename Copy Validate Latest Version > View Alerts
Model Overview	v Source				
Person			+ add field 'age'- general properties		
Identifier	Label	Туре		Identifier	age
age	Name	String Integer	□ Delete	Label	Age
				Description	
				Туре	Integer
				List 6	



PROCESS MODELING

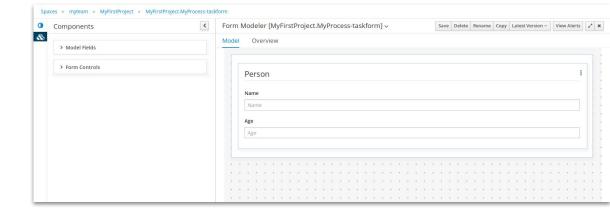
- □ Subset of BPMN2 elements
- ☐ Focus on execution semantics
- □ Form generating
- Export to PNG, PDF, SVG, BPMN2





FORM MODELING

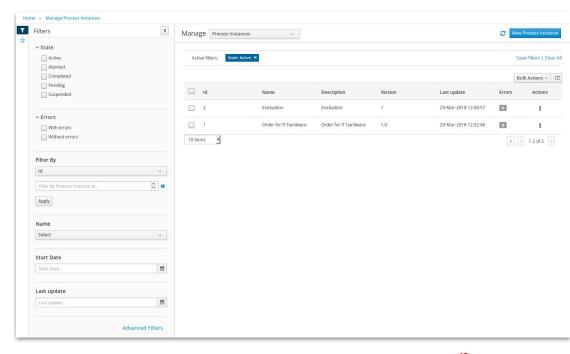
- Generate forms for
 - Data Objects
 - Process start form
 - □ Task form
- Widget library able to bind different types of data (TextBox, DatePickers, Checkboxes, ListBox, Nested Forms...)





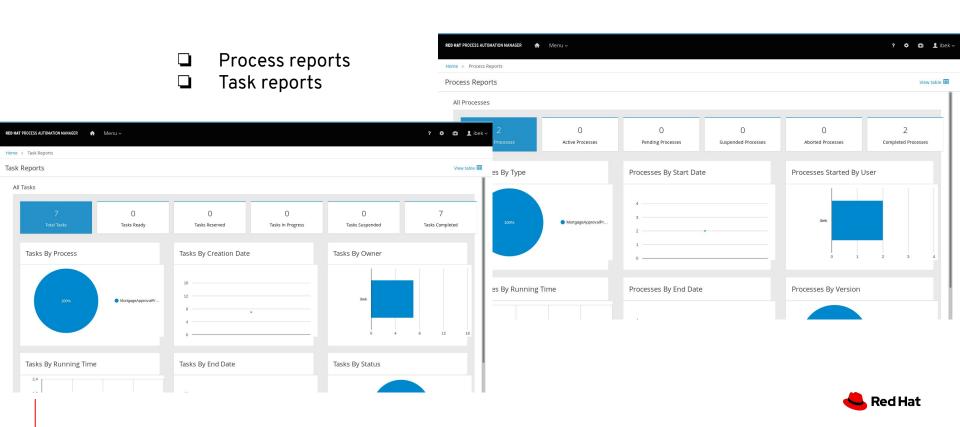
PROCESS ADMINISTRATION

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





PROCESS MONITORING



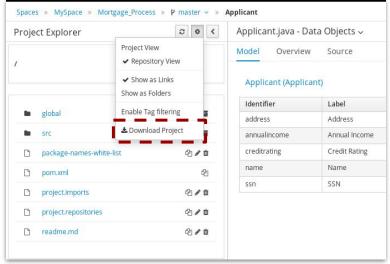
TEAM COLLABORATION

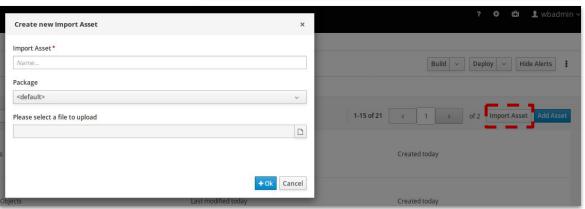
How to work on a project as a team without any complex setup of the infrastructure (git hooks, central git repository, ...)

Split the work between the team

members

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



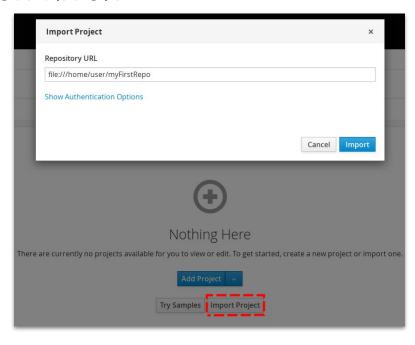




TEAM COLLABORATION VIA GIT

- Requires only basic Git skills
- ☐ Pull your business assets from Business Central

 - 2. git pull business-central master
 - 3. password wbadmin
- Push your business assets for example to GitHub
 - 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

- in linkedin.com/company/red-hat
- youtube.com/user/RedHatVideos
- f facebook.com/redhatinc
- twitter.com/RedHat



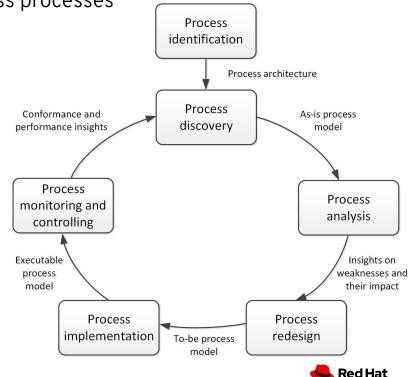
BUSINESS PROCESS MANAGEMENT

the way a company manages and improves business processes

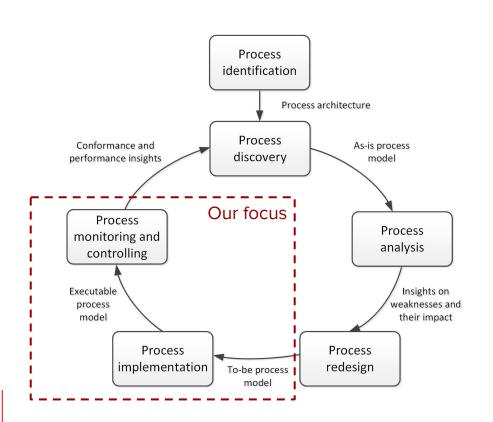
"A business process is a collection of activities that takes one or more kinds of input and creates an output that is of value to the customer. A business process has a goal and is affected by events occurring in the external world or in other processes." Hammer, M. and Champy, J.

- 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)

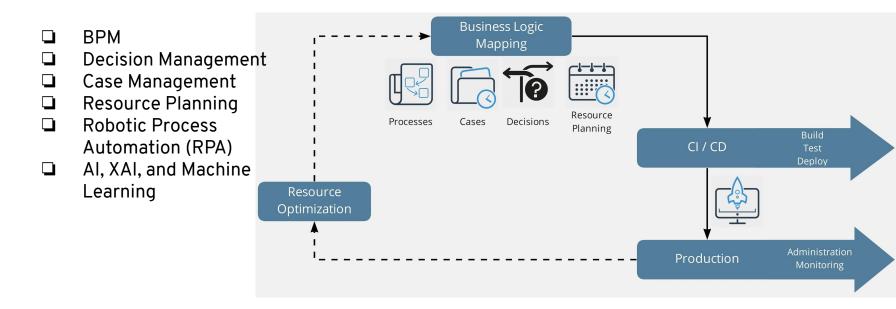


Frequency Size and complexity Diversity (actors, systems, rules) Speed (SLAs)

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



See BPM in context

