Activiti

A developer-friendly process engine

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http://tcarlson.systems

Wait for All Requests To Be Acknowledged

10 minutes timeout

Throws terminatePoolOnSpotRequestError signal

Run Spot Instances

Check No Requests Are Open

Check All Requests Are Active

Throws terminatePoolOnSpotRequestError signal

Check that all requests have been acknowledged by Amazon.

Get Instance Ids From Spot Requests

10 minutes timeout (PT10M) static

Throws terminatePoolOnTimeoutEvent signal

Throws terminatePoolOnTimeoutEvent signal

Check Setup Processes Ended

Check all instances are running by using batch API operations

Wait For Instances to Start

Check All Instances Are Running

Ensure Security Group Exists

Ensure Key Pair Exists

True   False

Publish List of Machines

Set status "setup"

Spawn Machine Setup Processes

Check Setup Processes Ended

True   False

Run On Demand Instances

status is "terminated"

Set status "ready"

status not "terminated"

Activated by terminatePoolEvent signal (external)

Terminate Instances

Check All Instances Are Terminated

True

Delete Security Group

Delete Key Pair

Set status "terminated"

False

Activated by terminatePoolOnTimeoutEvent signal thrown by boundary timers

TODO: extend loop to monitor machines

Wait to 5 seconds and check again

Cancel Spot Requests

Get Instance Ids From Spot Requests

Activated by the terminatePoolOnSpotRequestError signal.

https://github.com/apache/incubator-provisionr/blob/master/README.md
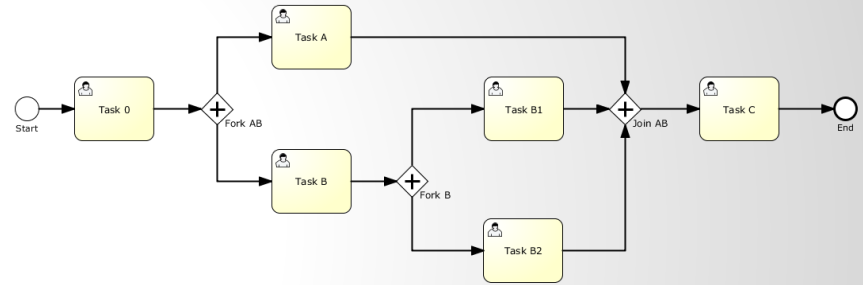
What is it?

What is it?

- Finite State Machine
- Clean design
- Simple API
- Embeddable in your app
- Keeps state in a database
- Clusterable

Why would I use it?

- Process-oriented applications

- High-level orchestration of tasks
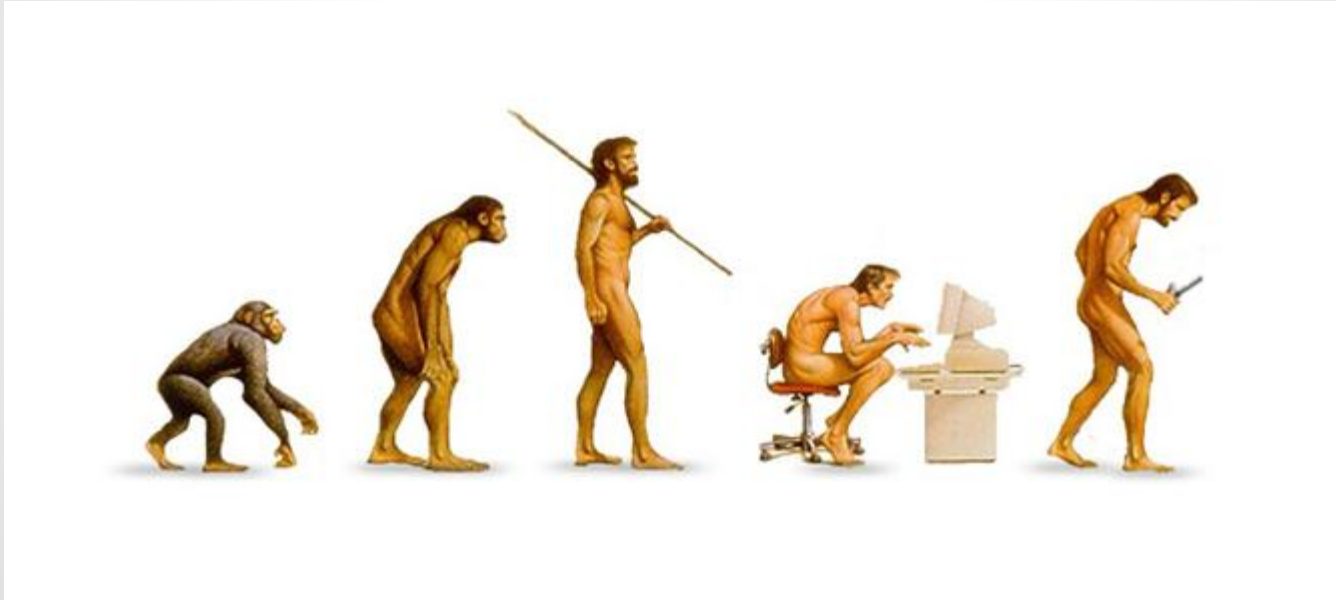
- Mixture of human tasks & machine tasks

- Batch jobs

More benefits

● Transactional checkpoints
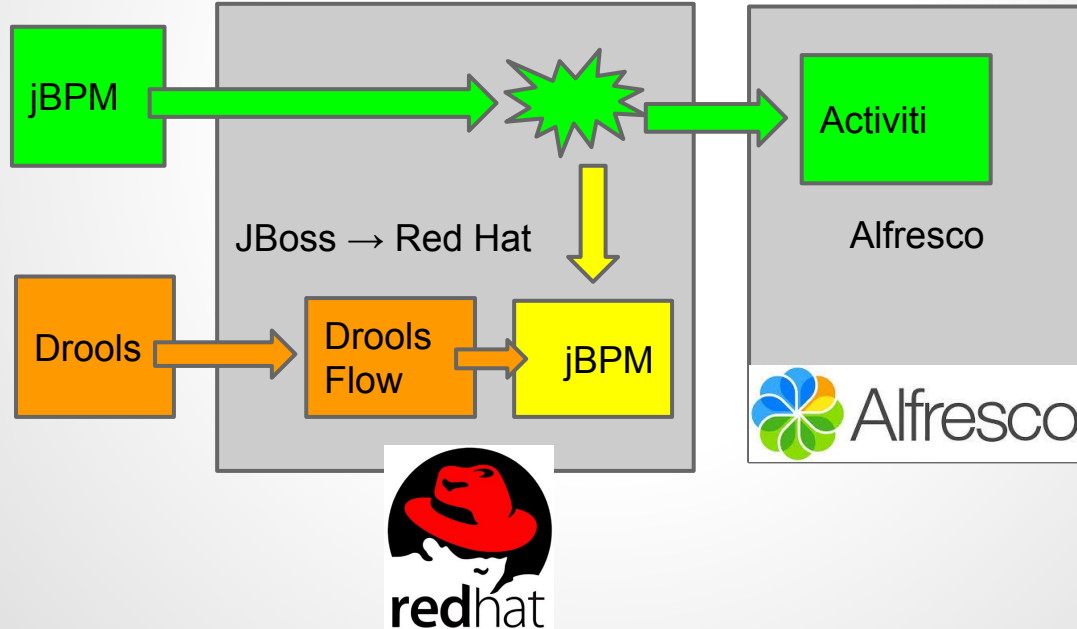
● Audit trail

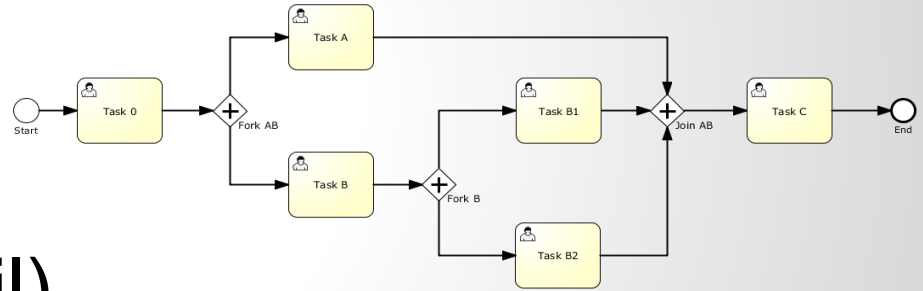● Self-documenting

A bit of history :
The evolution of Activiti

Demo

- Installation
- IDE - Build a process
- Deploy
- Run
- Database (Audit Trail)
- Java API
- REST API