

Automação de processos na nuvem com Kogito e Quarkus

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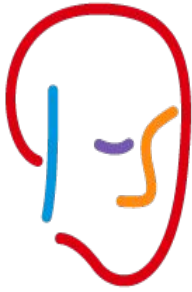
Software Engineer @ Red Hat



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jBPM



Drools



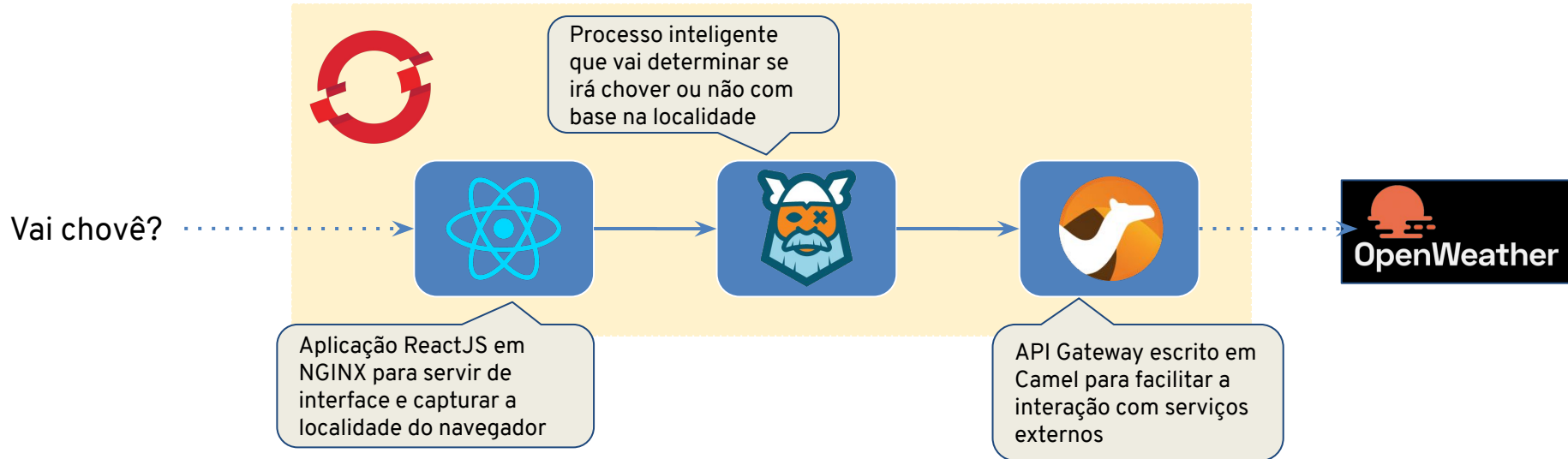
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Demonstração

Visão geral da arquitetura



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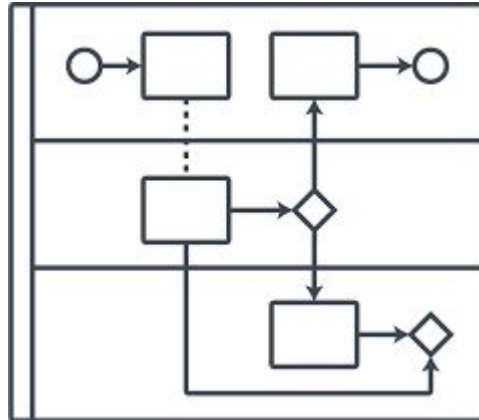


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Automação de Processos

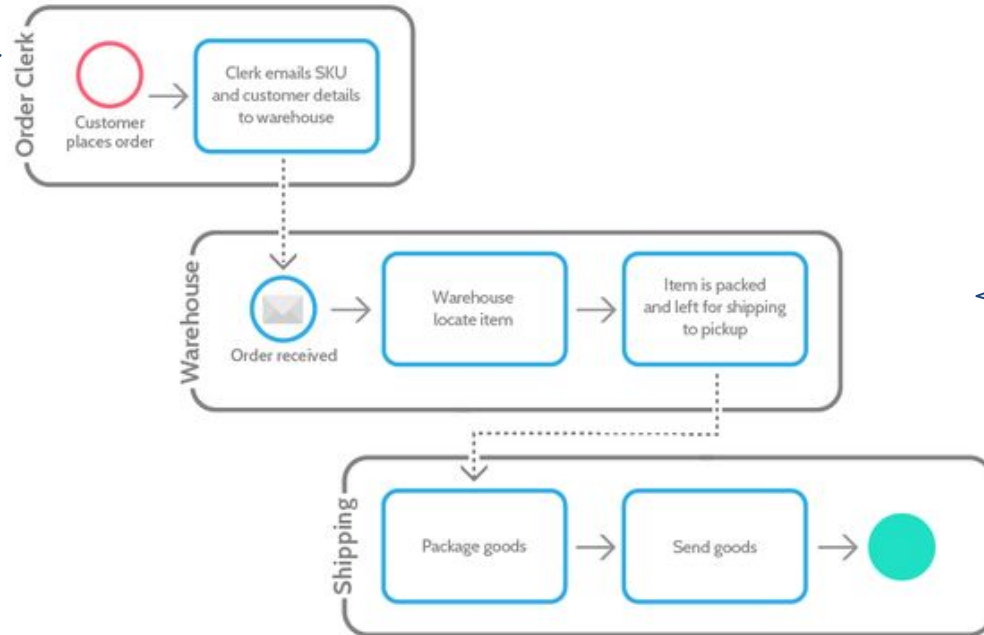
Podemos automatizar tudo!

A arte de transformar porco em bacon



E até criar composições!

Cada “micro”
processo se
transforma em um
Kogito Service



Combinamos todos eles
para entregar uma
capacidade de negócio

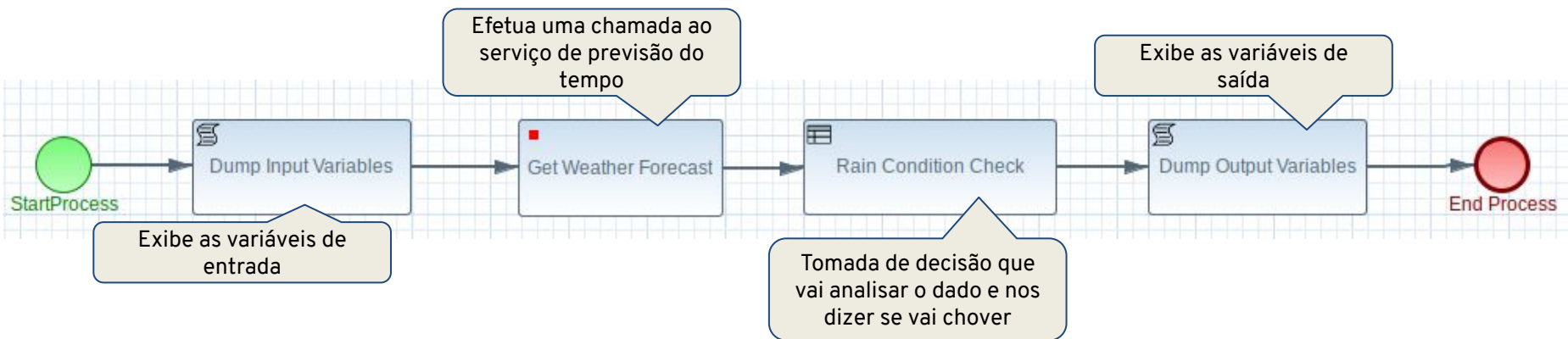


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Por dentro do Kogito Service

Visão Geral do Processo

O que passa por dentro do Kogito Service?



REST Automágico!



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Generated API 1.0 OAS3

/openapi

default

GET /management/process/{processId}/instances/{processInstanceId}/error

POST /management/process/{processId}/instances/{processInstanceId}/retrigger

POST /management/process/{processId}/instances/{processInstanceId}/skip

GET /metrics

GET /rainforecast

POST /rainforecast

GET /rainforecast/{id}

POST /rainforecast/{id}

DELETE /rainforecast/{id}

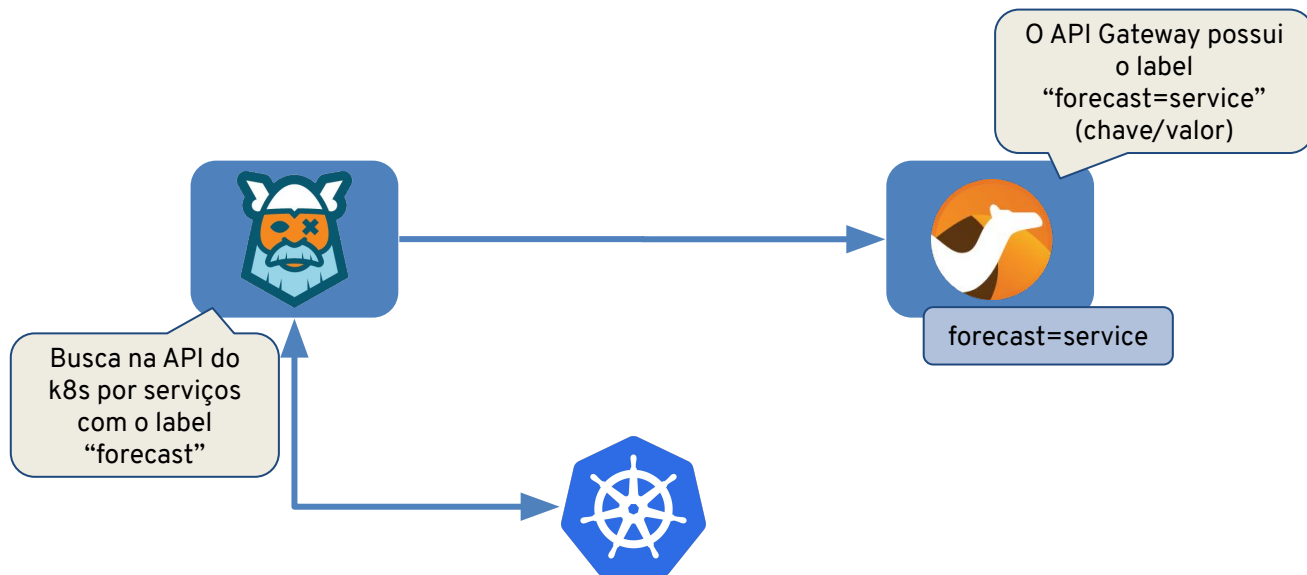
GET /rainforecast/{id}/tasks

Aplicações Java nativas



```
[io.quarkus] (main) Quarkus 0.22.0 started in 0.034s. Listening on: http://[::]:8080  
[io.quarkus] (main) Installed features: [cdi, resteasy, resteasy-jsonb, smallrye-openapi, swagger-ui]
```

Service Discovery



Tomada de decisão



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```
rule "if condition is Rain, set object accordingly"
no-loop
  when
    $w : Weather ( condition == "Rain" )
    $r : Result ( )
  then
    modify($r) { setRain(true); };
end

rule "if condition is not Rain, set object accordingly"
no-loop
  when
    $w : Weather ( condition != "Rain" )
    $r : Result ( )
  then
    modify($r) { setRain(false); };
end
```



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Como colocamos o Kogito na nuvem?

Kogito Images

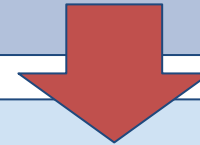
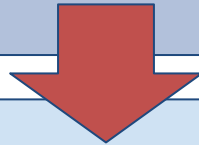


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Builder

kogito-quarkus-ubi8-s2i
Size: 1.07GB

kogito-springboot-ubi8-s2i
Size: 345MB



Runtime

kogito-quarkus-jvm-ubi8
Size: 256MB


kogito-quarkus-ubi8
Size: 101MB

kogito-springboot-ubi8
Size: 256MB

Kogito Operator



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Kogito Cloud Operator

0.4.0 provided by Red Hat, Inc.

[Install](#)

OPERATOR VERSION
0.4.0

PROVIDER TYPE
Community

PROVIDER
Red Hat, Inc.

REPOSITORY
[https://github.com/](https://github.com/kiegroup/kogito-cloud-operator)
[kiegroup/kogito-cloud-operator](https://github.com/kiegroup/kogito-cloud-operator)

CONTAINER IMAGE
quay.io/kiegroup/kogito-cloud-operator:0.4.0

CREATED AT
2019-08-22T13:12:22Z

SUPPORT
Red Hat, Inc.

Community Operator

This is a community provided operator. These are operators which have not been vetted or verified by Red Hat. Community Operators should be used with caution because their stability is unknown. Red Hat provides no support for Community Operators.

[Learn more about Red Hat's third party software support policy](#)

Kogito Operator is designed to deploy Kogito Runtimes Services from source and every piece of Infrastructure that the services might need:

- Creates two kinds of build configuration: Native or JVM. For more information refer to [Native X JVM Builds](#) on our docs
- Builds a Kogito Runtime Service from a remote git repository and creates a custom image for the given runtime: Quarkus or Springboot. [See more.](#)
- Installs the [Kogito Data Index Service](#) to enable data index feature for Kogito Runtimes. [See more.](#)

Kogito CLI



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```
$ kogito new-project tenkichannel  
$ kogito deploy rain-forecast https://github.com/ricardozanini/tenkichannel  
--context-dir=rain-forecast-process -e NAMESPACE=tenkichannel -p tenkichannel
```

Links úteis



- <https://github.com/ricardozanini/tenkichannel>
- <https://github.com/kiegroup/kogito-runtimes#contributing-to-kogito>
- <https://github.com/kiegroup/kogito-cloud/tree/master/s2i>
- <https://github.com/kiegroup/kogito-cloud-operator>
- <https://github.com/kiegroup/kogito-cloud-operator>
- <https://github.com/kiegroup/kogito-examples>
- <https://kogito.kie.org/>
- <https://quarkus.io/>
- <https://kogito.kie.org/community/>



Is my data
safe in the
cloud?

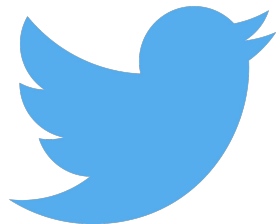
Yeah, untill
it rains.



Obrigado!



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[@rhdevelopers](#)