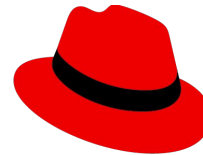# Intégration à l'ère du Cloud avec Camel et Quarkus

Zineb Bendhiba

About

Zineb Bendhiba

- Senior Software Engineer at Red Hat
- Apache Camel committer & PMC
- Duchess France
- Based in Paris - France
- She/Her/Hers
- Twitter : @ZinebBendhiba
- GitHub : zbendhiba

What is Apache Camel ?

https://camel.apache.org/

Apache Camel is an **Open Source** Integration
Framework

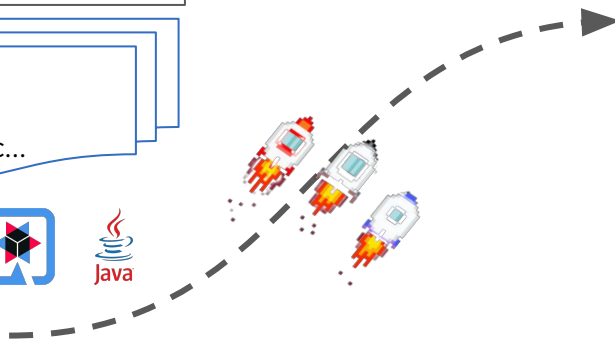# Apache Camel

Domain Specific Language (DSL)

```
from("kafka:topic")

    .unmarshal().json()

    .to("atlasmap:servicenow.adm")

    .to("json-validator:gcpschema.json")

    .to("http:my-host/api/path")
```
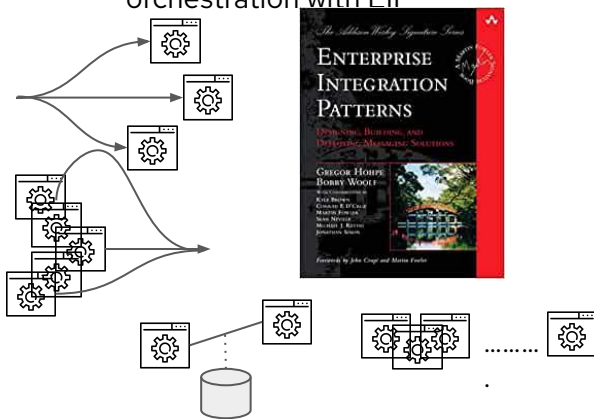
Libraries
POJO
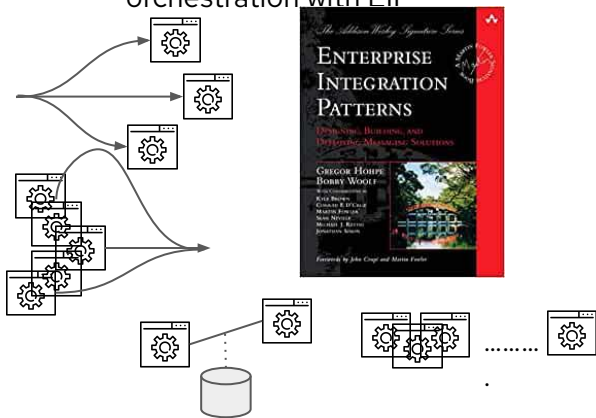Biz Logic...

EIP

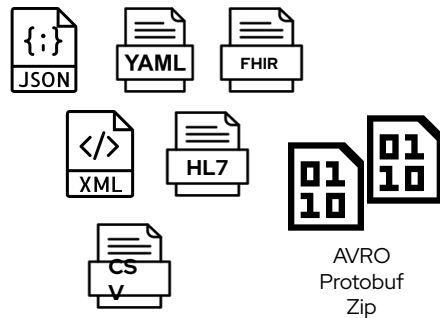▶ Microservices orchestration with EIP

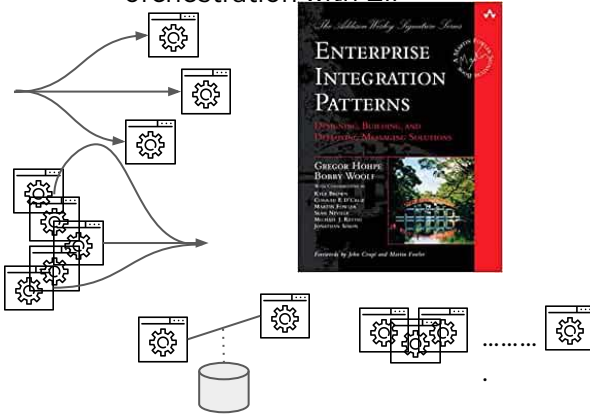# Data Transformation

Microservices orchestration with EIP

Data Transformation
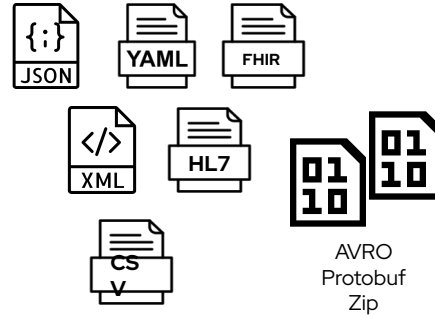

JSON
YAML
FHIR
XML
HL7
CSV
AVRO
Protobuf
Zip

Data Transformation with Tools
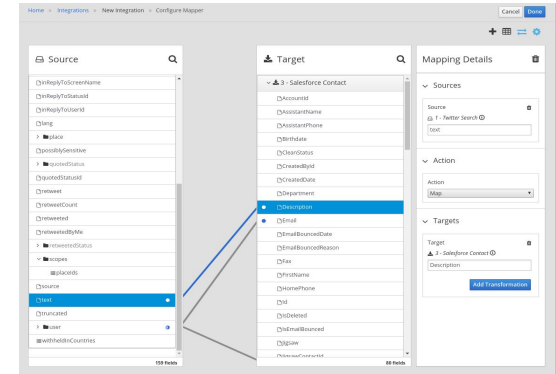
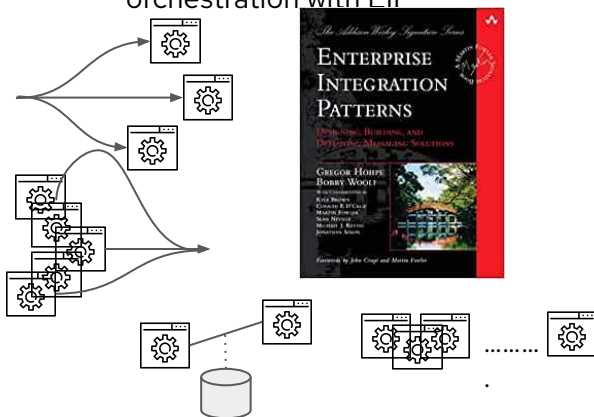▶ Microservices
orchestration with EIP

▶ Data Transformation

▶ Data Transformation with Tools

Components

- Microservices orchestration with EIP
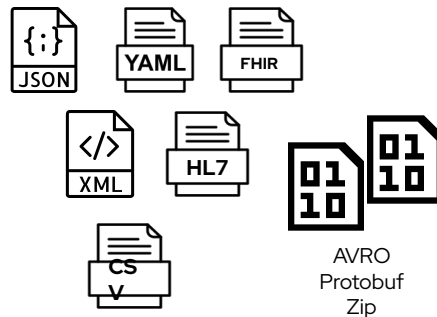
- Comprehensive connectors

APP

- Data Transformation

JSON
YAML
FHIR
XML
HL7
CS V
AVRO
Protobuf
Zip
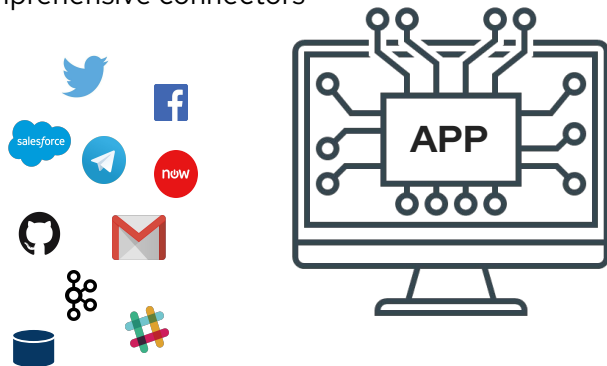
- Data Transformation with Tools
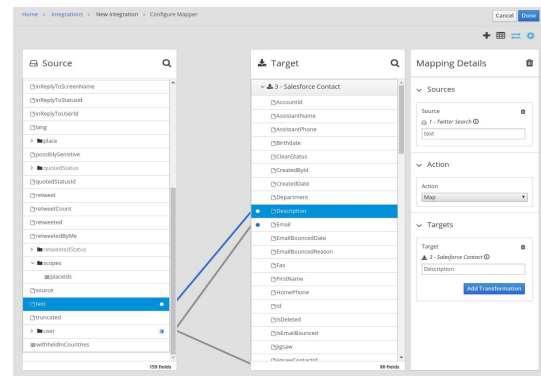
Why use Apache Camel ?

Apache Camel

- The biggest and most active community for Open Source **integration** software

Apache Camel

- The biggest and most active community for Open Source **integration** software
- You can connect to almost everything

Apache Camel

- The biggest and most active community for Open Source **integration** software
- You can connect to almost everything
- Focus on your use case logic

Runtimes

Camel runs on
(but not limited to)

WildFly

Standalone

Spring Boot

VERT.X

QUARKUS

MICROPROFILE
OPTIMIZING ENTERPRISE JAVA

APACHE kafka

Knative/Kubernetes

Karaf

Camel Quarkus

Camel Quarkus brings together the **awesome** integration capabilities of Apache Camel and its vast component library to the **Supersonic, Subatomic** Quarkus runtime

How does a *framework* start?

Start the management (thread, pool...)
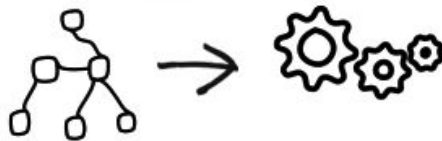
Build Time

Runtime

Packaging
(maven, gradle...)

Load config file from file system
Parse it

Classpath scanning to find
annotated classes
Attempt to load class to
enable/disable features

Build its model of
the world.

The Quarkus Way

Runtime

Build Time

Why Apache Camel on Quarkus

- Small size on disk ⇒ Small container images

Why Apache Camel on Quarkus

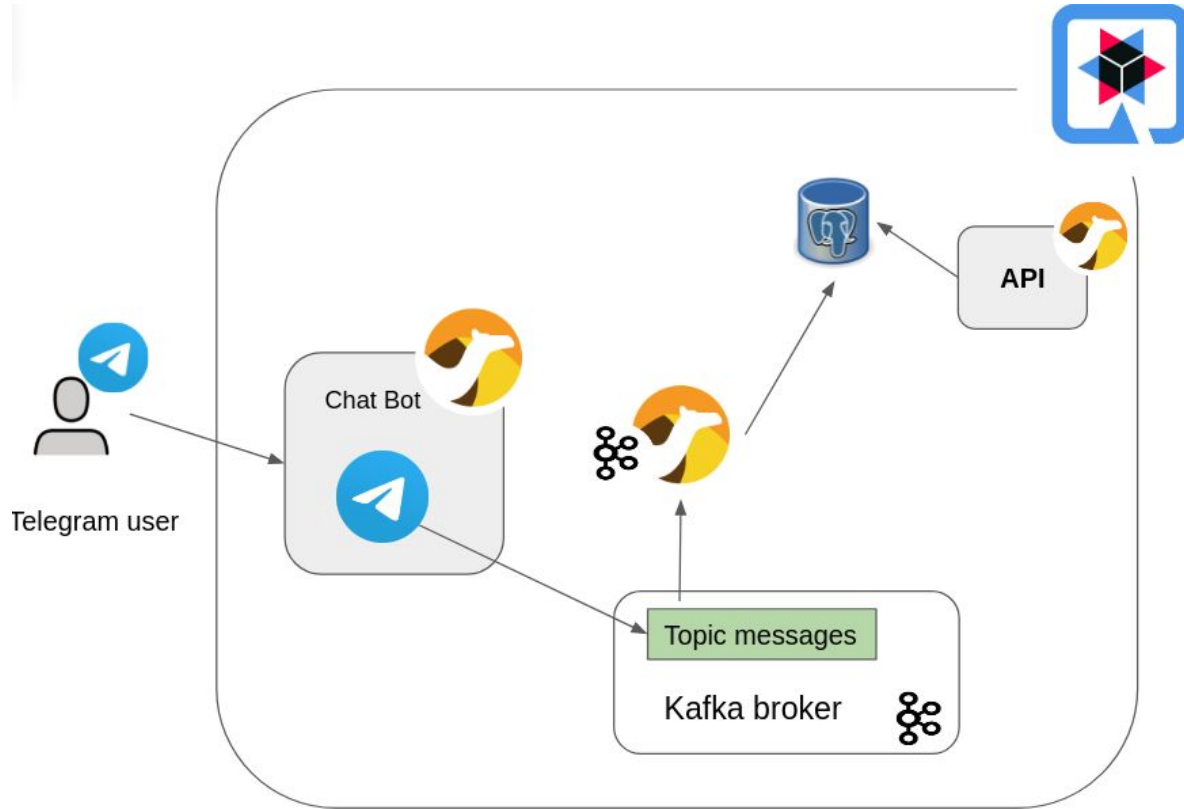- Small size on disk ⇒ Small container images
- Fast boot time ⇒ Instant scale up

Why Apache Camel on Quarkus

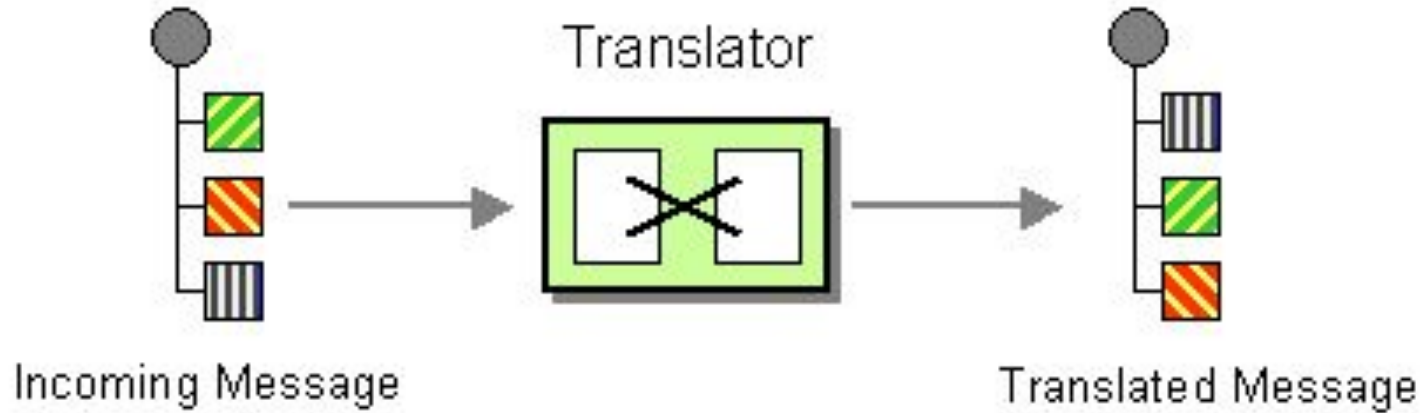- Small size on disk ⇒ Small container images
- Fast boot time ⇒ Instant scale up
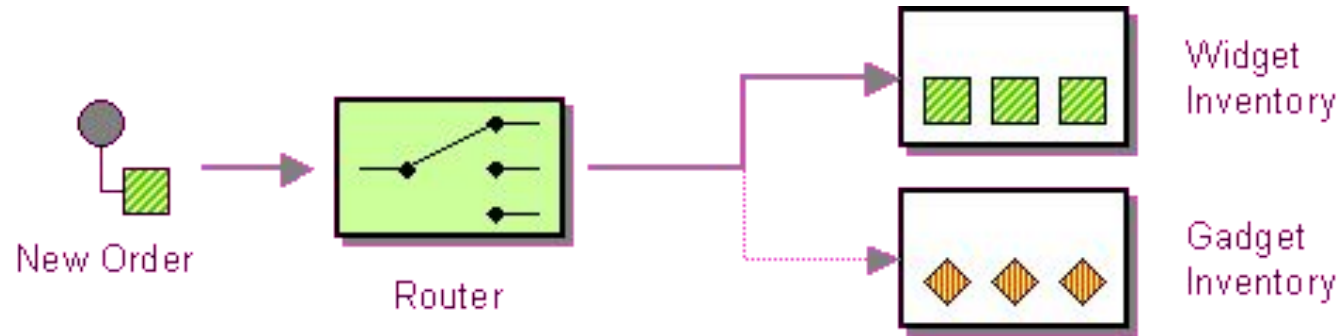- Low memory footprint ⇒ More containers with the same amount of RAM

Demo

Demo : Telegram Bot : camel_quarkus

Message Translater EIP

Content Based Router EIP

Links

- https://camel.apache.org/
- https://github.com/apache/camel-quarkus
- https://github.com/zbendhiba/conference-talks
- https://camel.zulipchat.com/

Thank you

Merci