

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

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#### **About**

#### Zineb Bendhiba

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- Apache Camel committer
- Duchess France
- Based in Paris France
- She/Her/Hers
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#### **About**

#### **Alexandre Gallice**

- Senior Software Engineer at Red Hat
- Apache Camel PMC member
- Based in France
- He/Him/His
- Twitter : @AlexGallice
- GitHub : aldettinger







# What is Apache Camel?

https://camel.apache.org/



# Apache Camel is an Open Source Integration

Framework





# **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...







Microservices
orchestration with EIP

ENTERPRISE
INTEGRATION
PATTERNS

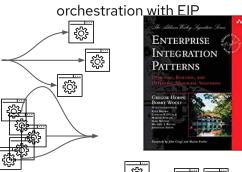
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### **EIP**



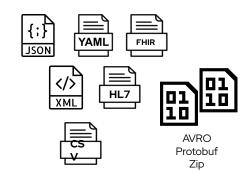






Microservices

Data Transformation



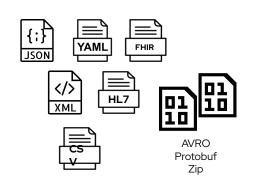
### **Data Transformation with Tools**

Microservices
orchestration with EIP

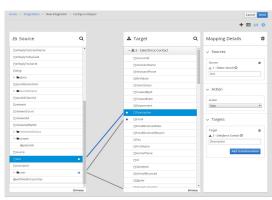
ENTERPRISE INTEGRATION PATTERNS

Grade House

Data Transformation

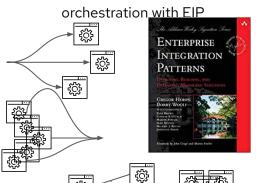


Data Transformation with Tools



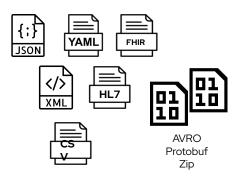
Microservices

£



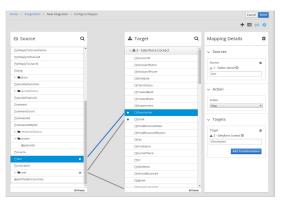
# **Components**

Data Transformation



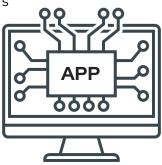


Data Transformation with Tools



Comprehensive connectors







# Why use Apache Camel?



 The biggest and most active community for Open Source integration software



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



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- You can connect to almost everything
- Focus on your use case logic



# Runtimes

#### Camel runs on

(but not limited to)























# Camel Quarkus



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

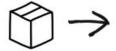


### How does a *framework* start?

**Build Time** 

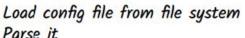
Runtime

Start the management (thread, pool...)



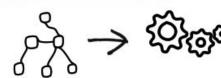








Classpath scanning to find annotated classes Attempt to load class to enable/disable features

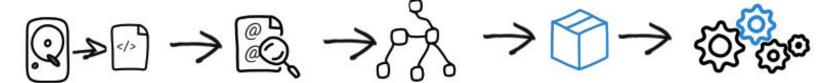


Build its model of the world.



# The Quarkus Way

Runtime



**Build Time** 

# **Why Apache Camel on Quarkus**

Small size on disk ⇒ Small container images

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

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

# JVM and native mode

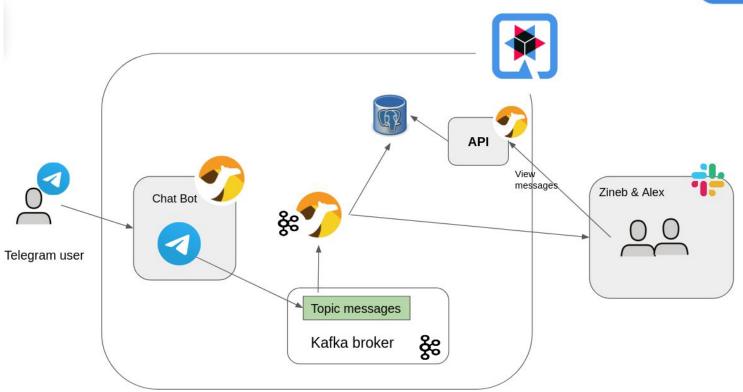


	JVM MODE	NATIVE MODE
BUILD	Quick	Slow
DEBUG	Easy	Hard
BOOT TIME	Fast	Instant
MEMORY USAGE	Small	Tiny
PERFORMANCE	Based on runtime optimization	Based on better density
USE CASE	A single long running service	Some short running services

# Demo

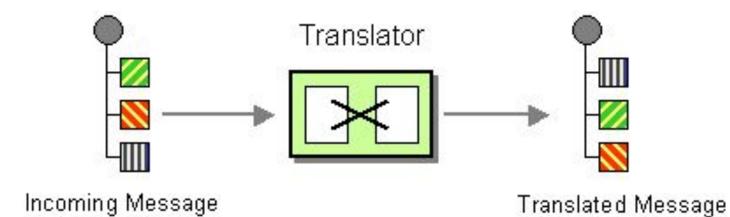
### Demo: Telegram Bot: camel\_quarkus





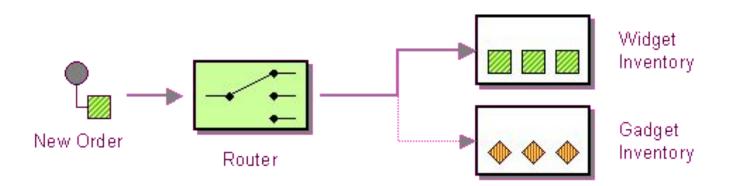
# **Message Translater EIP**





### **Content Based Router EIP**





### Links

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

Thank you

Merci