



QUARKUS

Super Heroes Workshop

Hackathon Ninja BBVA 2020

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Who



Aurea Muñoz
Senior Software engineer



Carlos Vicens
Senior Specialist Solution Architect



QUARKUS

Supersonic Subatomic Java

An Open Source stack to write Java apps



Cloud Native,

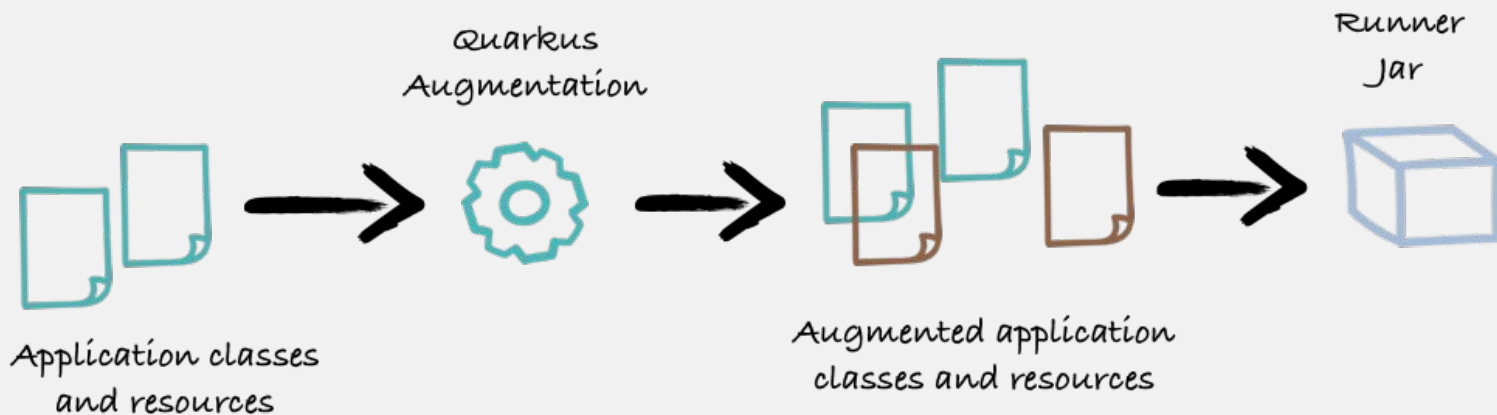


Microservices,

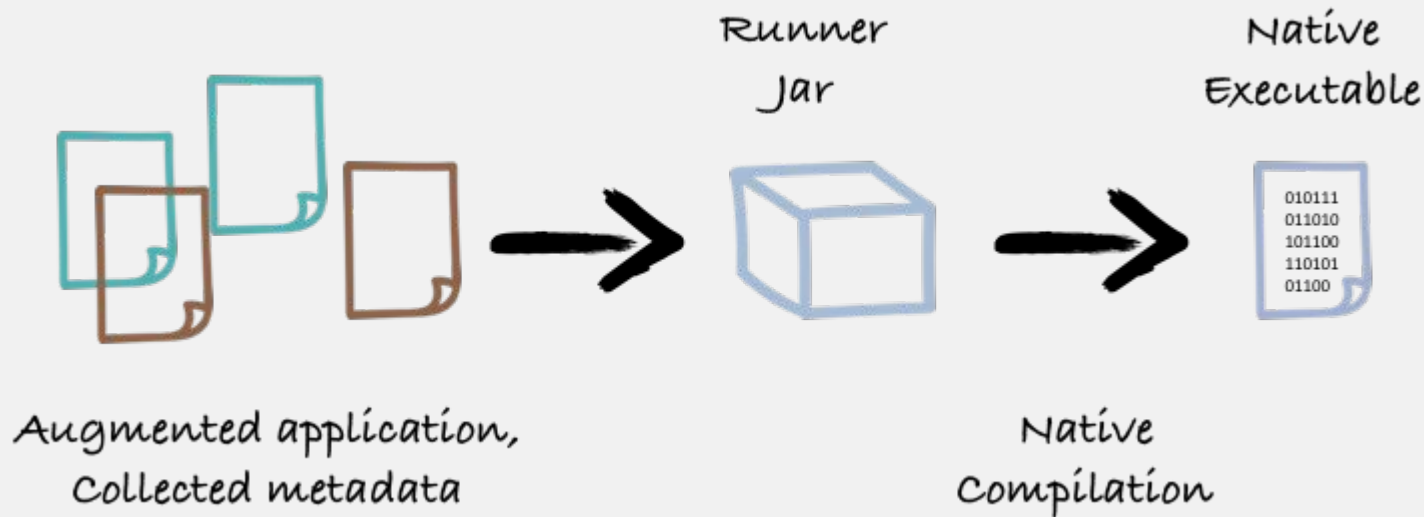


Serverless

What's Quarkus



What's Quarkus



From java to native: getting started guide

<https://quarkus.io/guides/getting-started#bootstrapping-the-project>

```
mvn io.quarkus:quarkus-maven-plugin:1.9.2.Final:create \
  -DprojectGroupId=org.acme \
  -DprojectArtifactId=getting-started \
  -DclassName="org.acme.getting.started.GreetingResource" \
  -Dpath="/hello"
cd getting-started
```

Quarkus core + extensiones

Extensiones de Quarkus

RESTEasy

Netty

Hibernate ORM

Hibernate Validator

MP OpenAPI

MP JWT

Eclipse Vert.X

Agroal (conn pool)

Narayana JTA

MP Reactive
Messaging

Apache Camel

...

Quarkus Core

Jandex

Gizmo

Graal SDK

Arc (DI)

HotSpot

SubstrateVM

Best frameworks



Eclipse Vert.x



Eclipse MicroProfile



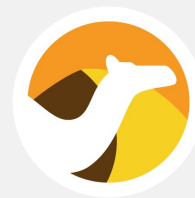
Spring Compas



Hibernate



RESTEasy



Apache Camel



Kubernetes



OpenShift



Jaeger



Prometheus



Apache Kafka



Netty

QUARKUS

Supersonic Subatomic Java

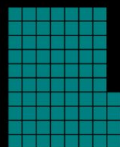
MEMORY AND BOOT + FIRST RESPONSE TIME

Memory (RSS) in Megabytes

REST



Quarkus + GraalVM
13 MB



Quarkus + OpenJDK
74 MB

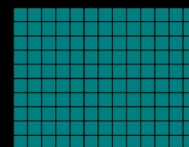


Traditional Cloud-Native Stack
140 MB

REST
+ JPA



Quarkus + GraalVM
35 MB



Quarkus + OpenJDK
130 MB



Traditional Cloud-Native Stack
218 MB

Boot + First Response Time in Seconds

REST

Quarkus + GraalVM 0.014 sec

Quarkus + OpenJDK 0.75 sec

Traditional Cloud-Native Stack 4.3 sec

REST

+JPA

Quarkus + GraalVM .055 sec

Quarkus + OpenJDK 2.5 sec

Traditional Cloud-Native Stack 9.5sec



QUARKUS



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@quarkusio



Quarkus Insights

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