

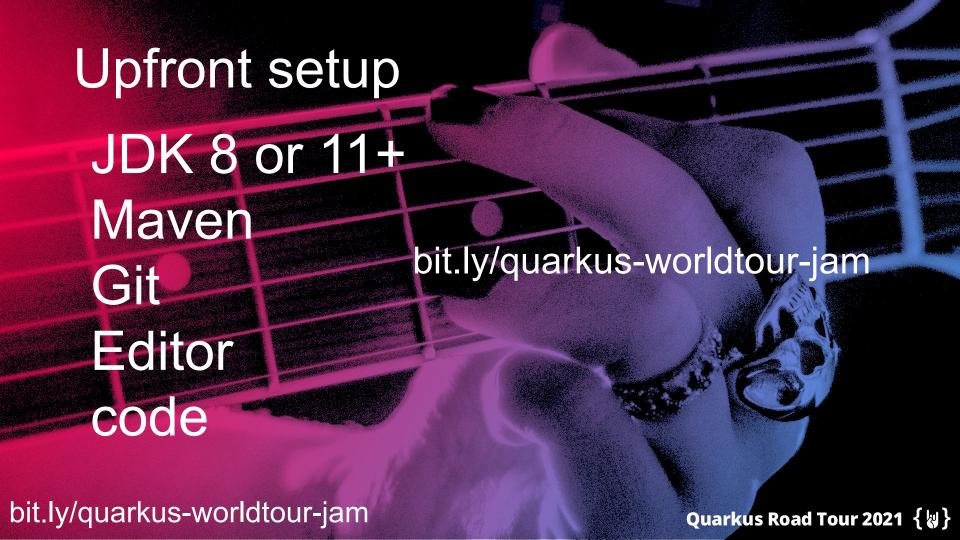






Who's on stage today?

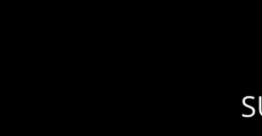
You too! ask questions on the chat, we'll try to answer them as we go and we'll wrap at the end

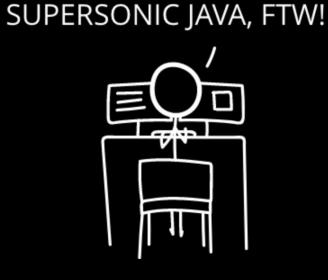




Wait.

So you just save it, And your code is running? And it's Java?!





I know, right?

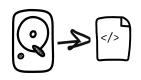
Developer Joy

How Does a Framework Start?

Build Time Runtime



Packaging (maven,



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.



Start the management (thread, pool...)

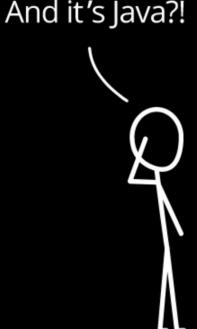
The Quarkus Way

Runtime Build Time model Package Toad scan

Build Time

Runtime

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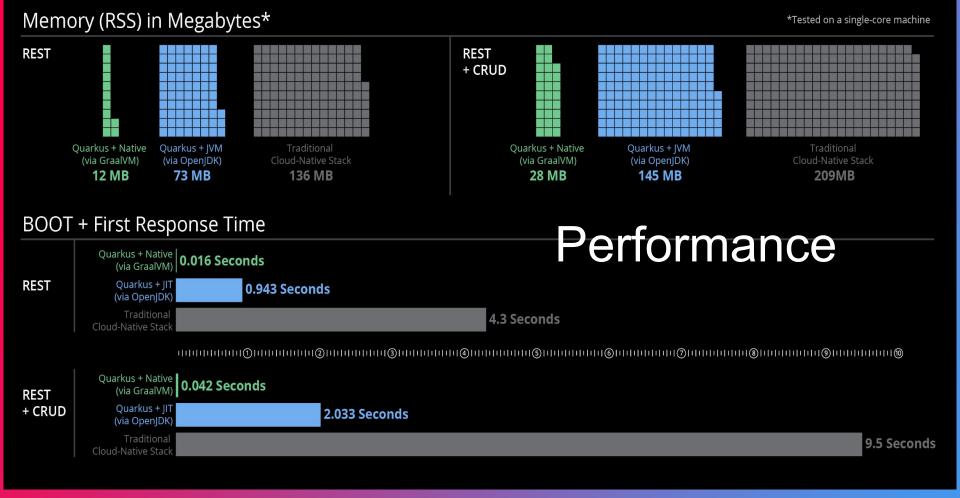


- Quarkus is instrumenting & adapting code for performance
- Let's use this for better developer tooling!
- less boilerplate,
- better defaults
- container centric development approach

You've never seen Hot code replace like this!

Three things:

Performance Capabilities Community



GraalVM

Standard Java is a challenge.

Java's dynamic, open view is at odds with an AOT approach

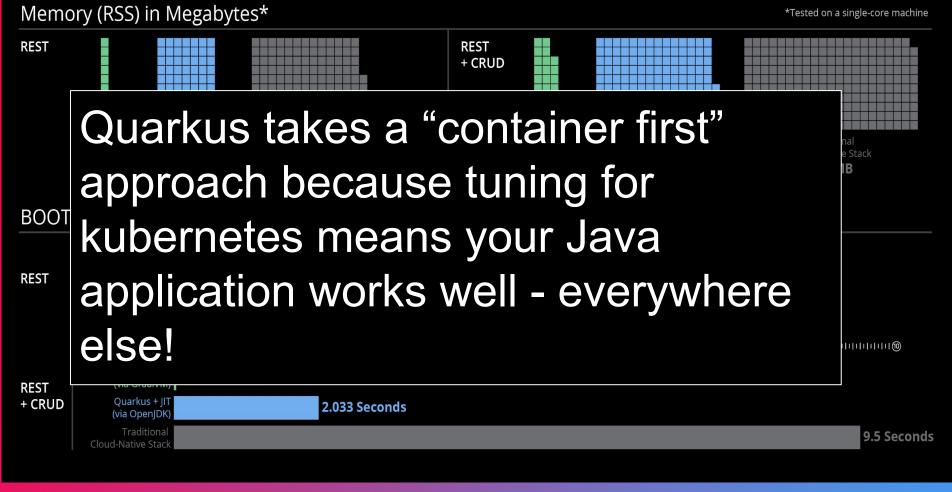
Quarkus makes using Graal so much easier

Native Image Java Limitations

Native Image does not support all features of Java to keep the implementation small and o

aggressive ahead-of-time optimizations. This page documents the limitations.

What	Support Status
Dynamic Class Loading / Unloading	Not supported
	Supported (Requires Configuration)
	Supported (Requires Configuration)
(JNI)	Mostly supported
Uns	Mostly supported
	Supported
Invol Bytecode and Method Handles	Not supported
pressions	Supported
nronized, wait, and notify	Supported
Finalizers	Not supported
References	Mostly supported
Threads	Supported
Identity Hash Code	Supported
Security Manager	Not supported
JVMTI, JMX, other native VM interfaces	Not supported
JCA Security Services	Supported

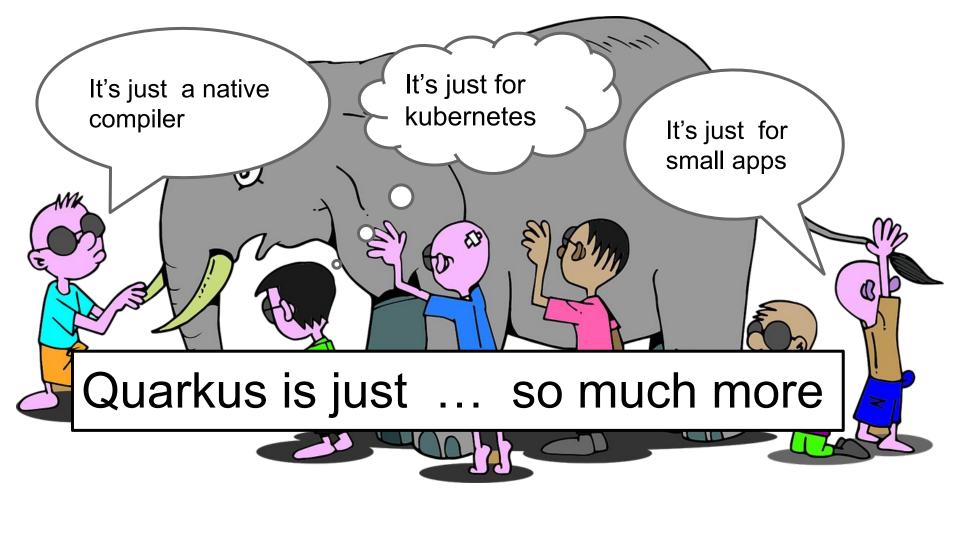


Three things:

Performance
Capabilities
Community

You may have heard

Quarkus is just



quarkus.io

Supersonic Subatomic Java

A Kubernetes Native Java stack tailored for OpenJDK HotSpot and GraalVM, crafted from the best of breed Java libraries and standards.

Comprehensive

A cohesive, fun to use, full-stack framework

leveraging a growing list of over 100 best-of-breed libraries that you love and use.

All wired on a standard backbone



Quarkus is not

Just a native compiler - it's optional - use it where it makes sense. It's much easier with Quarkus

Just for new apps - Quarkus is applicable to all forms of Java application - new, old, web based, desktop. Even CLI's

Just for small apps - Quarkus scales across the range

A Spring-lite copy - Quarkus lets you use almost all your code and dependencies and all of your skills. The only differences are where it's essential for the cloud

Just another framework!

So what is Quarkus?

Quarkus is a comprehensive, inclusive, community driven, open source, practical reimaging of Java for the Cloud era

Quarkus takes all your frameworks, all your dependencies, all your code and helps make them work together in the best performing way for the Cloud

Quarkus improves the developer experience too - by using the same techniques to give you a much more productive toolkit for cloud application development

Bonus: The performance and productivity improvements work for your existing code - even if its not moving to the cloud

Quarkus Extensions

The jewel of Quarkus is the mechanisms for making your dependencies just work in a container environment

Whether adding container awareness, performance improvements, wiring into kubernetes services (or other clouds) etc

Even the hard work of using Graal is made easier (and often invisible) since the extension framework generates the config, adapter code etc at build time.

There are core extensions that are part of Quarkus There are many more that are community created and owned.

Agroal Amazon Alexa Amazon DynamoDB Amazon IAM Amazon KMS Amazon S3 Amazon SES Amazon SNS Amazon SQS AMQP JMS client Apache Avro Apache Camel ActiveMQ Apache Camel AMQP Apache Camel ArangoDb Apache Camel AS2 Apache Camel Async HTTP Client (AHC) Apache Camel Async HTTP Client (AHC) Websocket Apache Camel AtlasMap	Apache Camel AWS 2 Security	Artemis JMS AWS Lambda AWS Lambda HTTP AWS Lambda HTTP V1 (deprecated) AWS Lambda X-Ray Azure Functions HTTP Blaze-Persistence Container Image Docker Container Image Jib Container Image OpenShift Container Image S2I DataStax Apache Cassandra client Debezium Quarkus Outbox Eclipse Vertx GraphQL Elasticsearch REST client Elasticsearch REST High Level Client Elytron Security JDBC Elvtron Security LDAP Realm
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Three things:

Performance
Capabilities
Community



over 450 committers: Inclusive, open, practical, pragmatic, inventive. Not all from Red Hat!

But that's just Quarkus.

Community the unique Red Hat contribution

Red Hat - or rather Red Hatters - connect across the open source communities that make up software stack we use today.

Whether Linux kernel, OpenJDK, Kubernetes, Docker, Java Frameworks or small project

Quarkus isn't just another framework

Quarkus is a practical vision of modern Java

Bringing together all the parts we need to build the next generation of Java masterpieces



What we're going to show Quarkus project generation Quarkus "dev mode" Quarkus "remote dev mode" bit.ly/quarkus-worldtour-jam **Quarkus Road Tour 2021**



Had a good time? let everyone know! #quarkusrocks

Want to know more?
Links are in the jam doc below

Web quarkus.io

Talk quarkusio.zulipchat.com

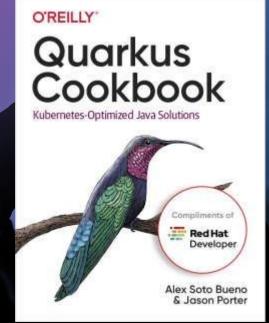
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bit.ly/quarkus-worldtour-jam



Three things:

Quarkus: accelerates your day-2-day Java development

Quarkus: makes all your Java applications supersonic

Quarkus: for Java everywhere

