

**SEW**

IT-Medientechnik

**NVS**

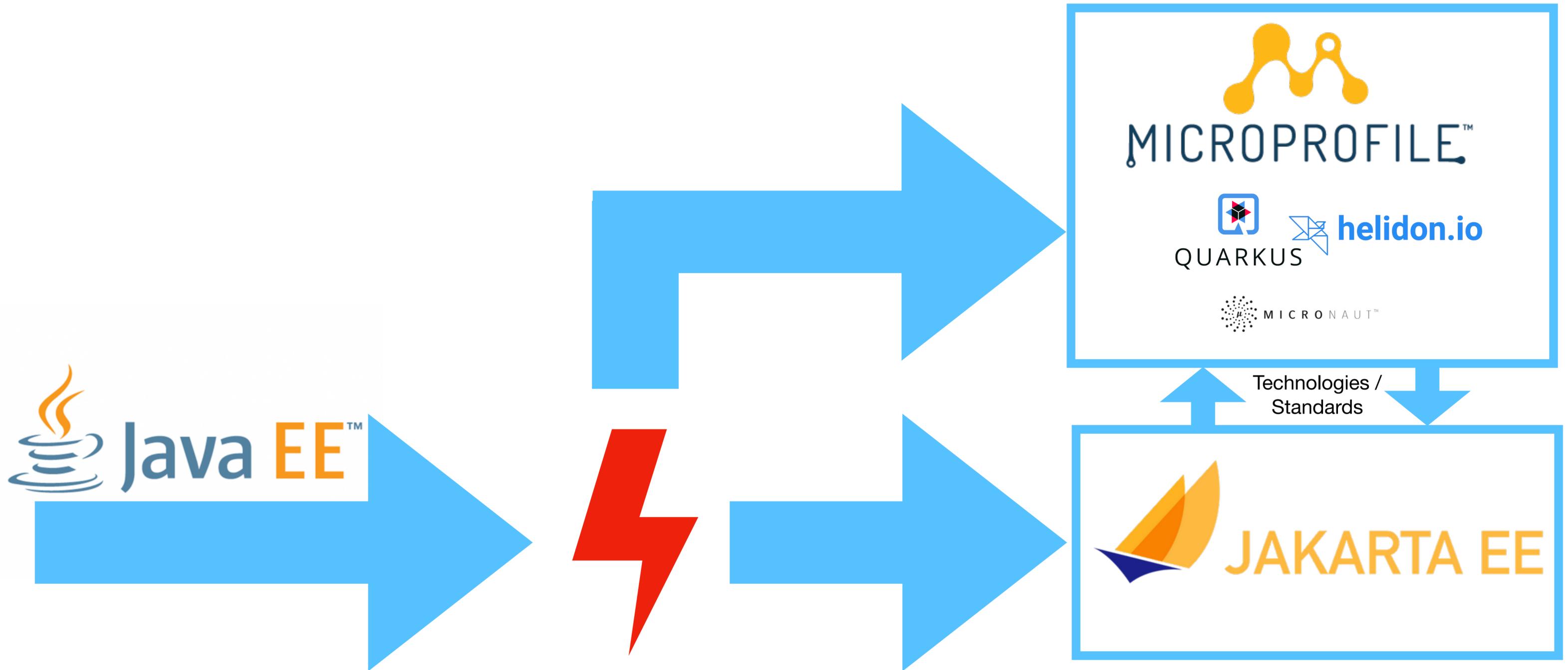
Informatik

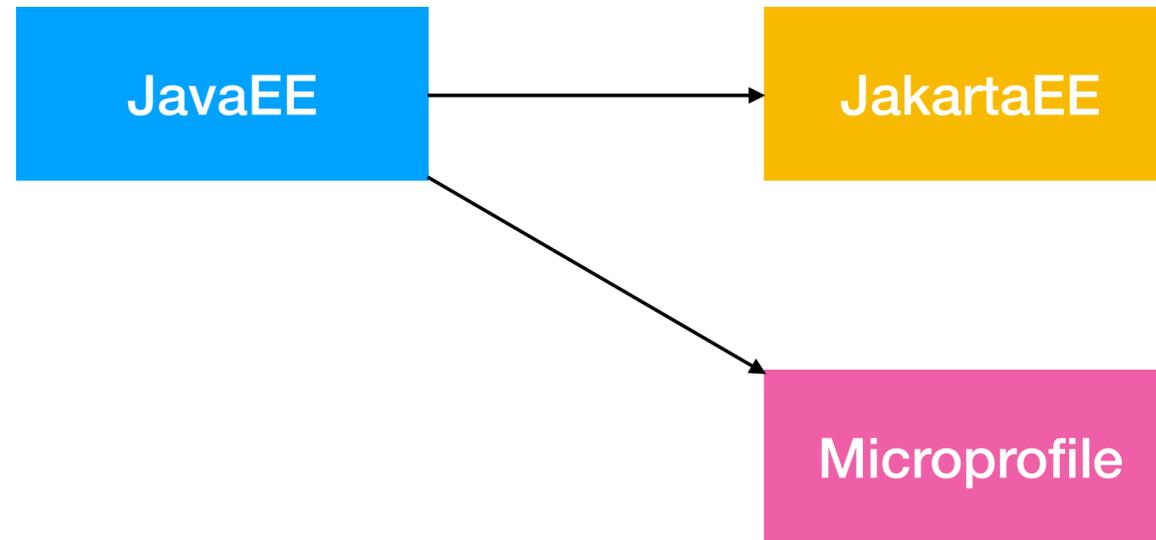


**MICROPROFILE™**

**TWS**

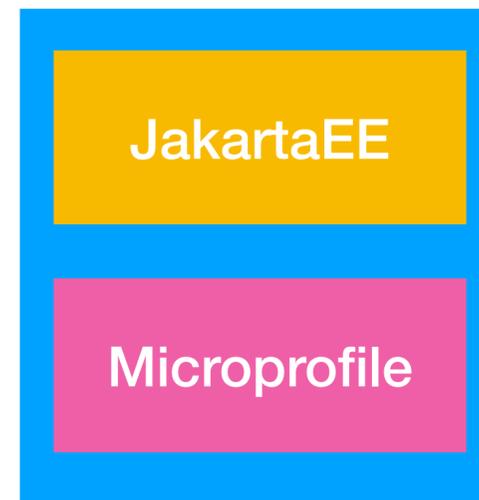
# The Java EE Crash





Application-Server  
.war-File wird deployed

ein .jar-File wird erstellt  
Nicht die gesamte JEE-Library  
ist enthalten, sondern nur  
benötigte Teile  
Zusätzlich metrics, health, ... enthalten



microprofile-libs werden  
in ein JakartaEE-Projekt eingebunden

# MicroProfile 2.0

## Java EE Spezifikationen

CDI

JAX-RS

JSON-B

JSON-P

Config

Health Check

Metrics

Fault Tolerance

JWT-  
Authentication

Open API

Open Tracing

REST Client

## MicroProfile Spezifikationen

# JBoss - Produkte

JBoss AS

kommerzieller Application Server

Wildfly

freier Application Server

Thorntail

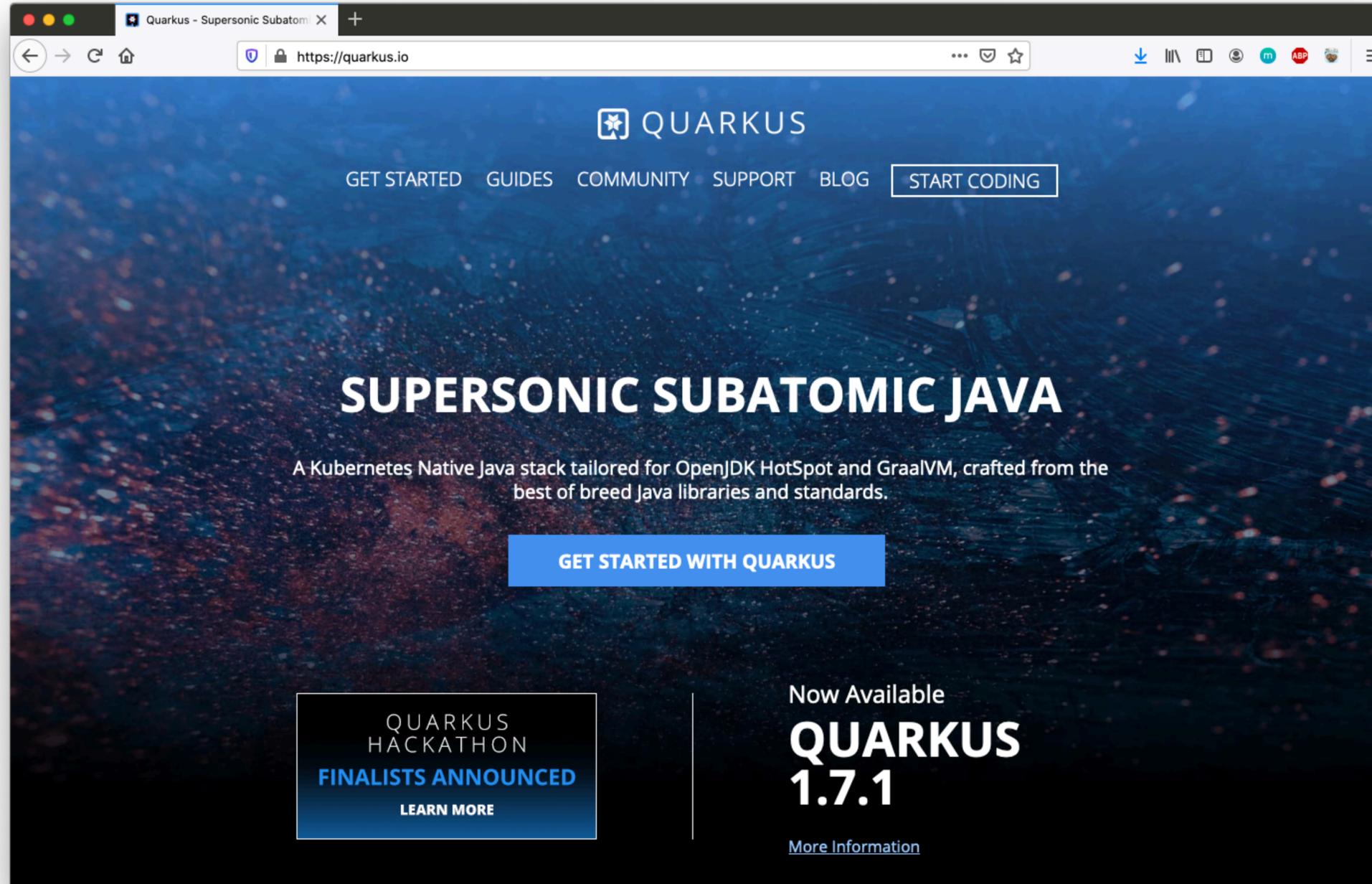
microprofile  
(wird ev. bald eingestellt, wegen Quarkus)

Quarkus

(ebenfalls) microprofile  
optimiert für Docker und Kubernetes



# Quarkus

A screenshot of the Quarkus website homepage. The browser's address bar shows "https://quarkus.io". The page features a dark blue background with a subtle pattern of light blue and white dots. At the top, the Quarkus logo and name are displayed. Below the logo is a navigation menu with links for "GET STARTED", "GUIDES", "COMMUNITY", "SUPPORT", "BLOG", and "START CODING". The main heading reads "SUPERSONIC SUBATOMIC JAVA". Below this is a sub-heading: "A Kubernetes Native Java stack tailored for OpenJDK HotSpot and GraalVM, crafted from the best of breed Java libraries and standards." A prominent blue button with white text says "GET STARTED WITH QUARKUS". At the bottom, there are two promotional boxes: one for "QUARKUS HACKATHON FINALISTS ANNOUNCED" with a "LEARN MORE" link, and another for "Now Available QUARKUS 1.7.1" with a "More Information" link.

## SUPERSONIC SUBATOMIC JAVA

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

[GET STARTED WITH QUARKUS](#)

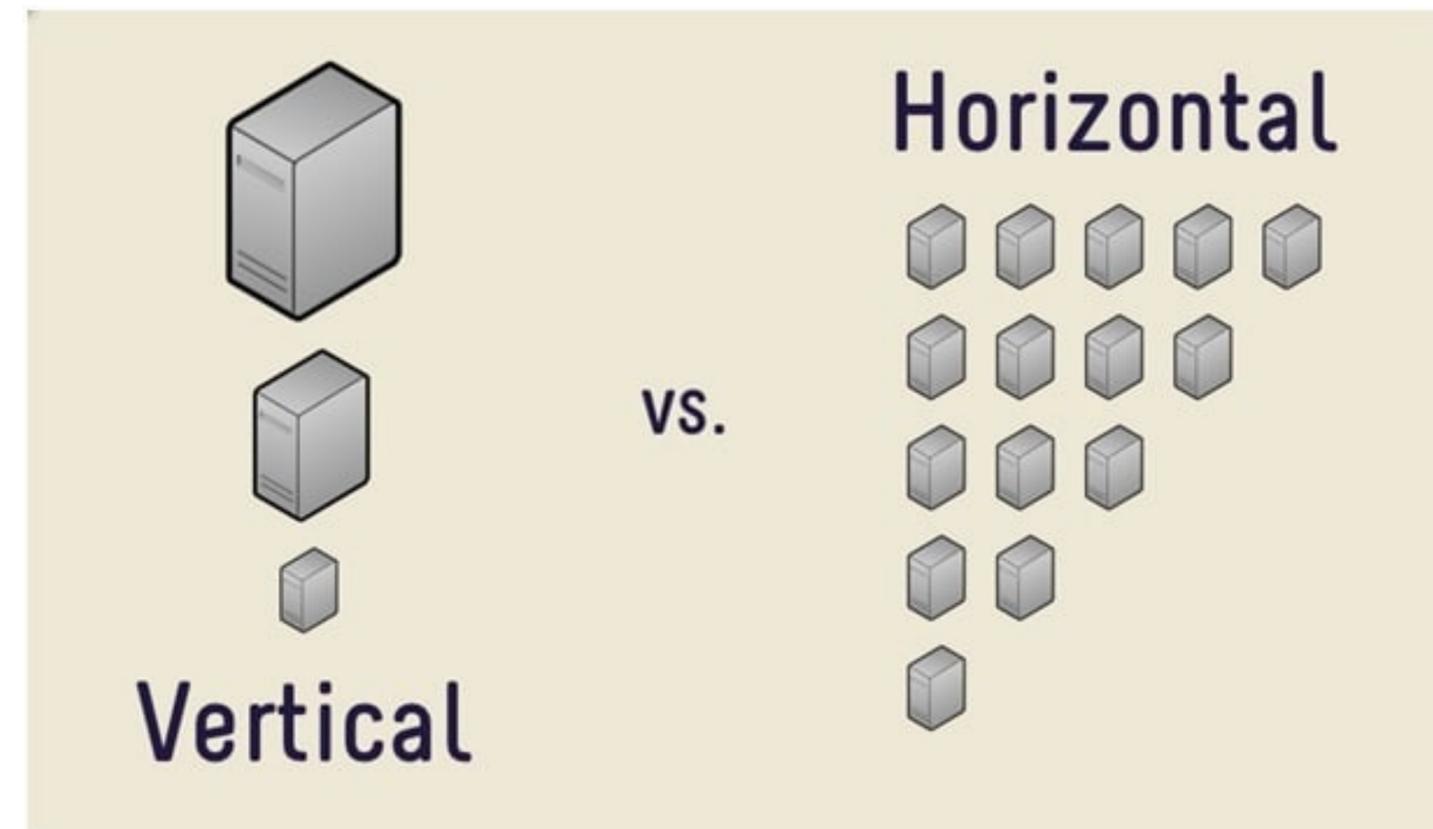
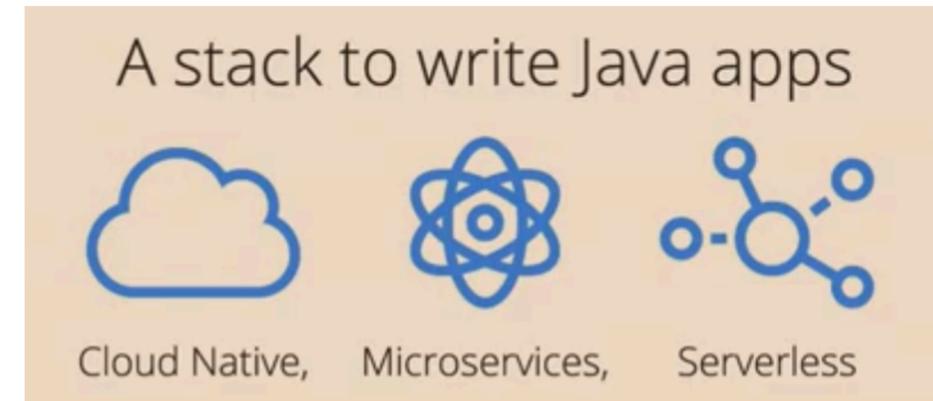
QUARKUS  
HACKATHON  
**FINALISTS ANNOUNCED**  
[LEARN MORE](#)

Now Available  
**QUARKUS**  
**1.7.1**

[More Information](#)

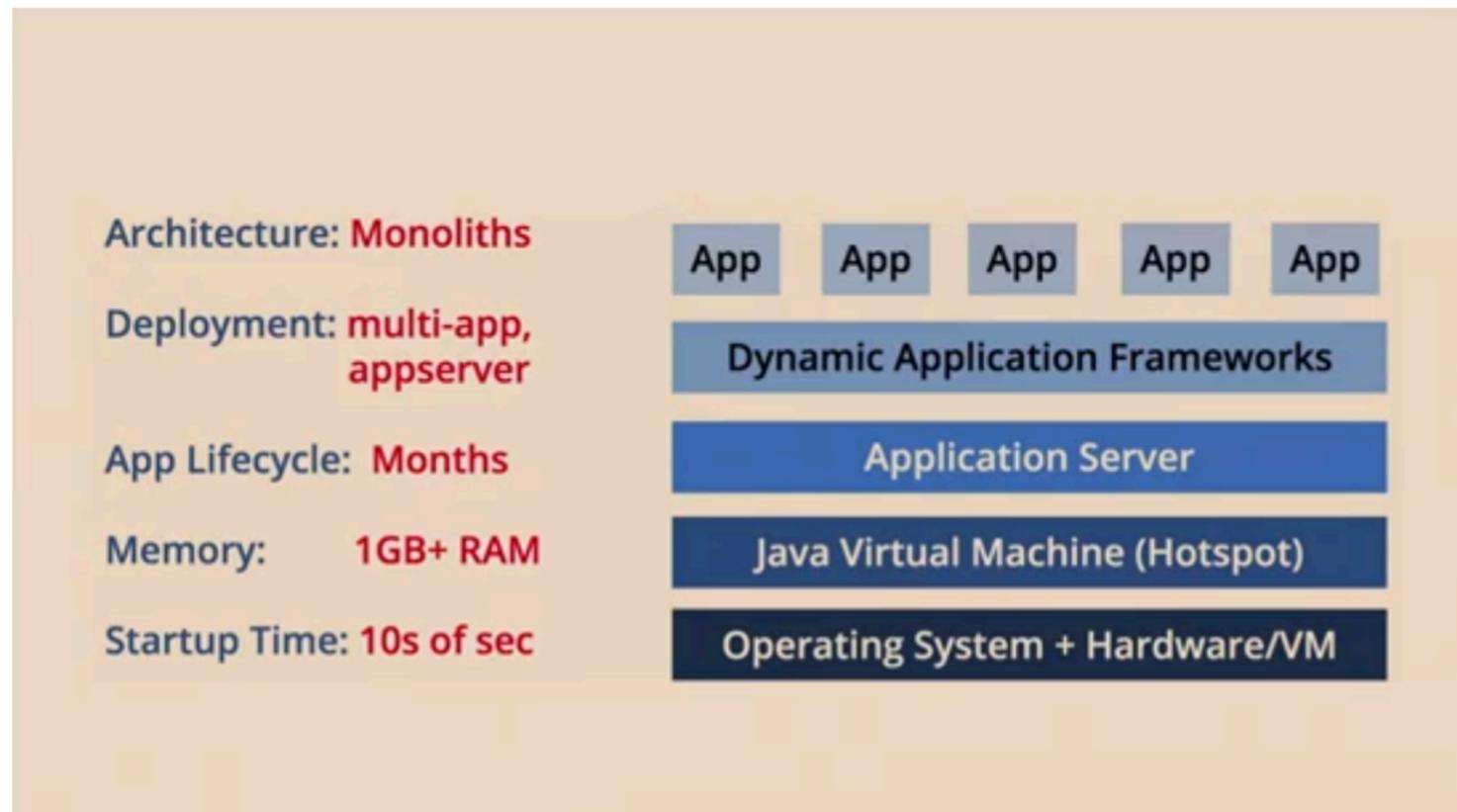
# Quarkus Eigenschaften

- KEIN APPLICATION SERVER
- microservices
- für Cloud (Docker, K8s) optimiert
  - schnelle Startzeiten, ...
  - ... um optimal horizontal skalieren zu können
  - sehr geringer Ressourcenverbrauch

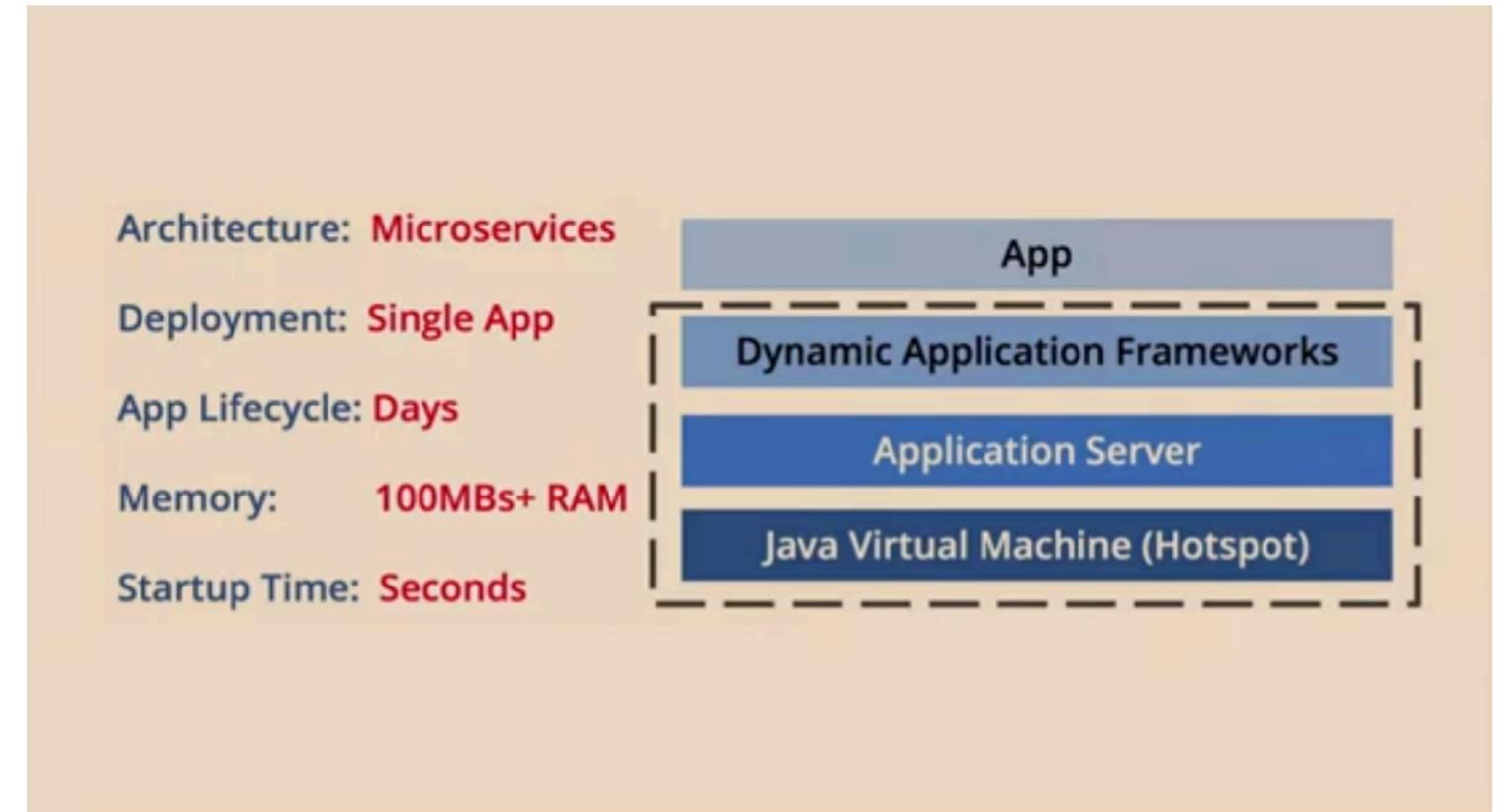


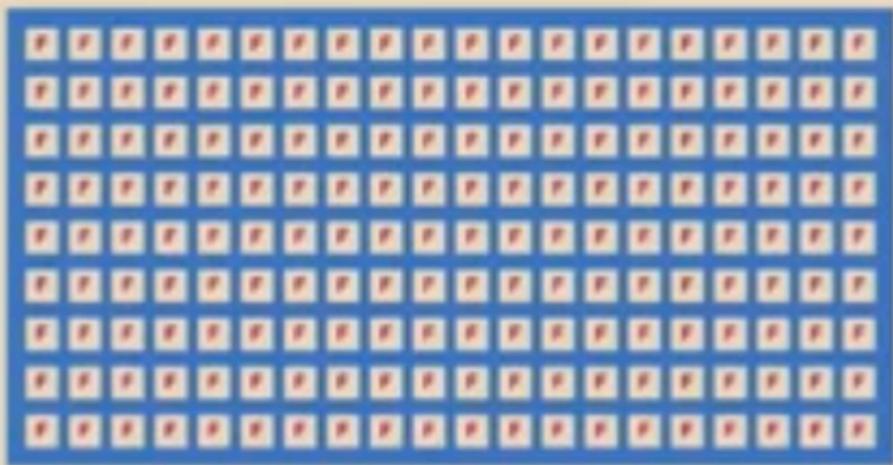
Vertical vs. Horizontal Scale-Out

## with application servers



## with microprofile (Quarkus)







Noch  
Fragen?

HTL LE  NDING

**Schön, hier zu lernen**