JAKARTA EE

Developer Survey Findings From 2020

JAKARTA EE 8

35%

With the delivery of Jakarta EE 8 in September 2019, Jakarta EE starts to fulfill its promise of accelerating business application development for the cloud, emerging as the second place cloud native framework with 35% usage in this year's survey.
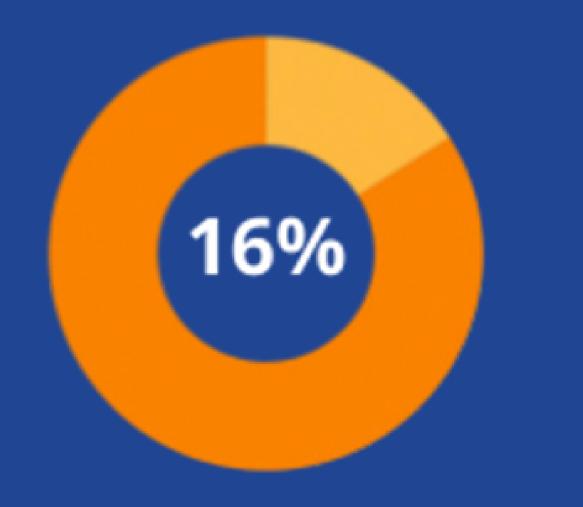

Which Java frameworks are you using for cloud native applications?

Spring/Spring Boot's share declines 13% as the leading framework for building cloud native applications (from 57% in 2019 to 44% in 2020).
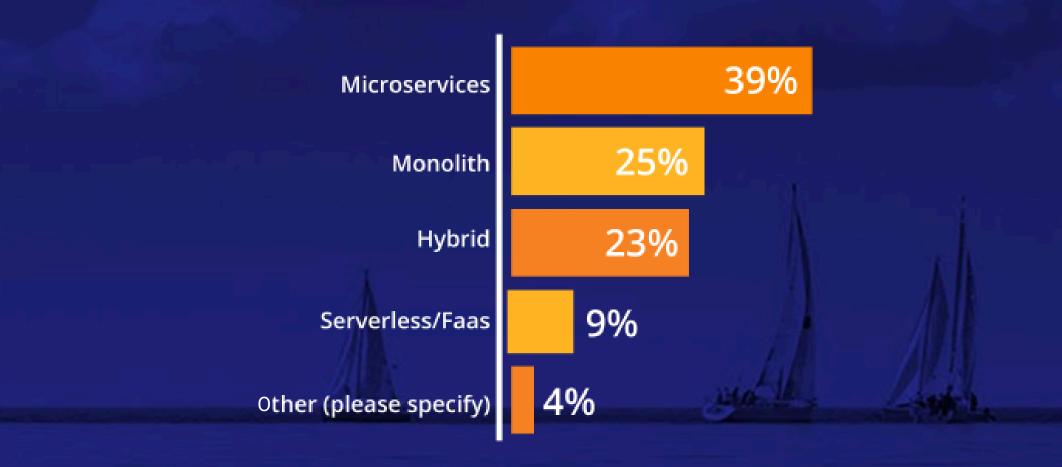
Framework	%
Spring/Spring Boot	44%
Jakarta EE	35%
Eclipse Microprofile	29%
Quarkus	16%
Eclipse Vert.x	
Dropwizard	
Micronaut	6%

QUARKUS

Since its announcement early in 2019, the adoption of Quarkus has skyrocketed with 16% of developers now using the framework.
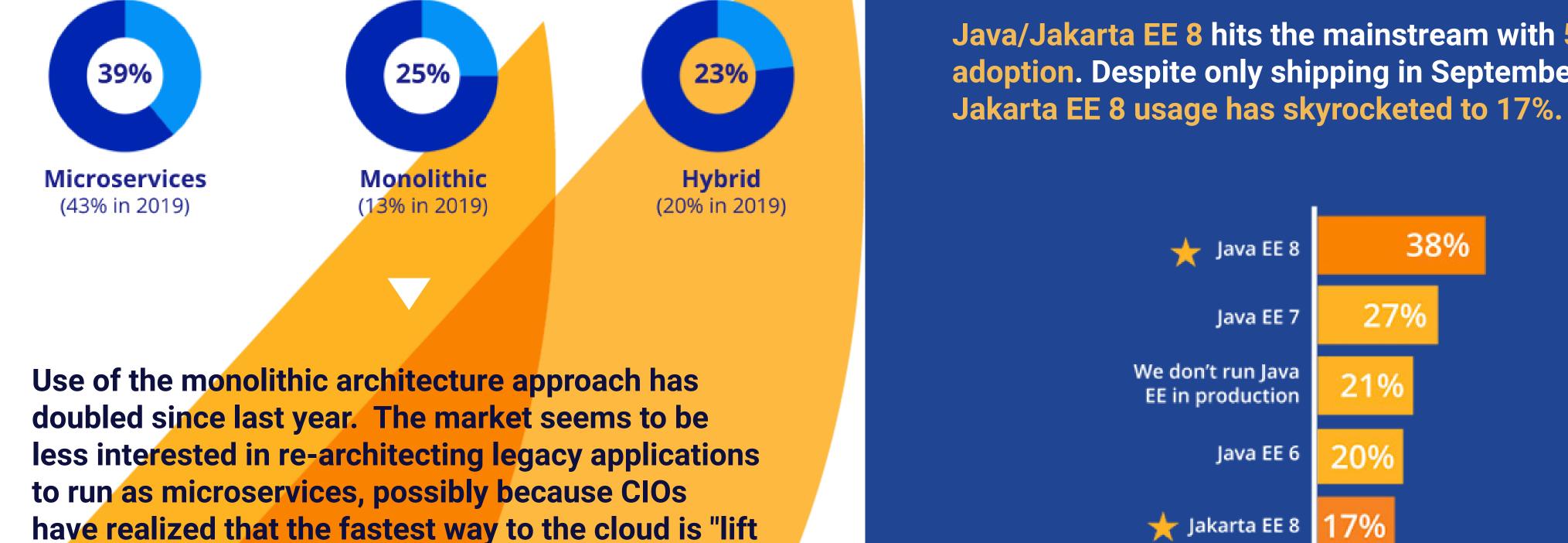
16%

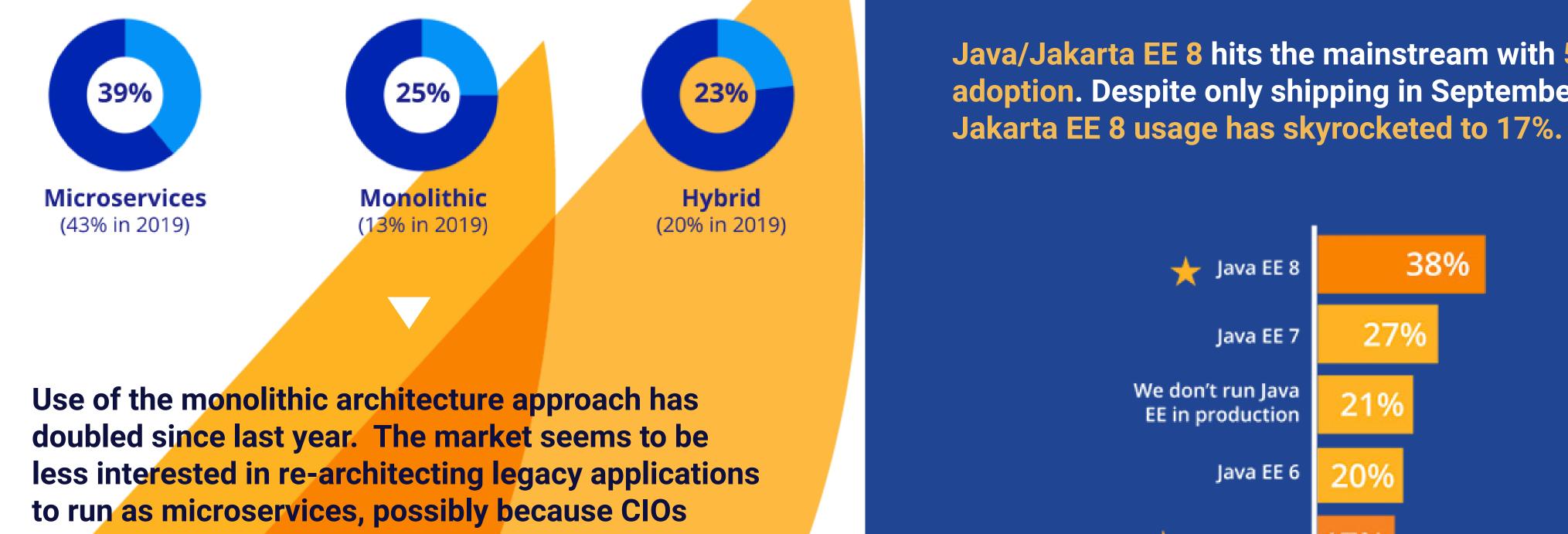**What architectural approach do you plan to use for implementing your Java systems in the cloud?**

The popularity of microservices may be waning, with the usage of the microservices architecture for implementing Java systems in the cloud declining since last year (39% in 2020 vs 43% in 2019).
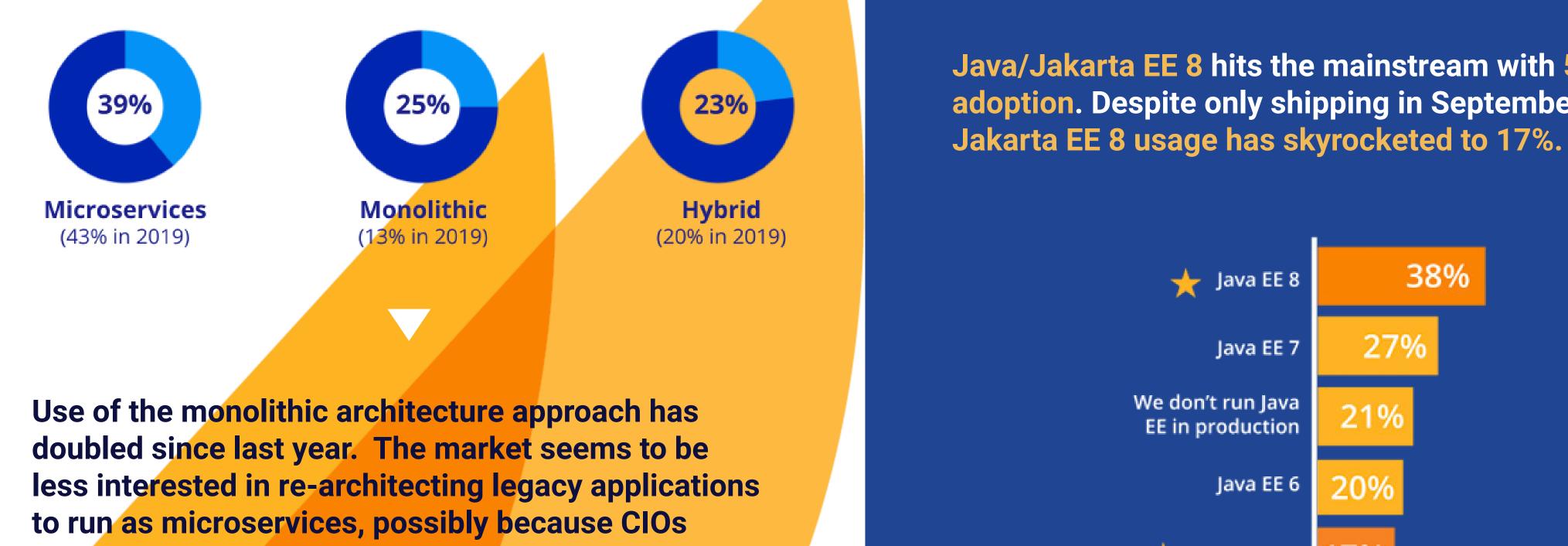
Approach	%
Microservices	39%
Monolith	25%
Hybrid	23%
Serverless/Faas	9%
Other (please specify)	4%

What architectural approach do you plan to use for implementing your Java systems in the cloud?

39% Microservices (43% in 2019)

25% Monolithic (13% in 2019)

23% Hybrid (20% in 2019)

Use of the monolithic architecture approach has doubled since last year. The market seems to be less interested in re-architecting legacy applications to run as microservices, possibly because CIOs have realized that the fastest way to the cloud is "lift and shift."

What version of Java EE/Jakarta EE is your organization running in production?

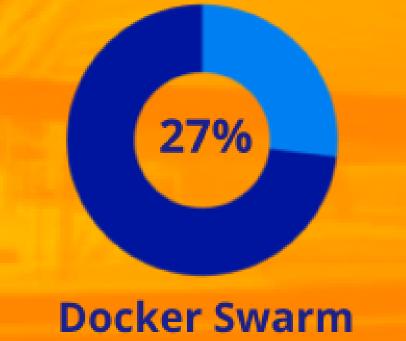Java/Jakarta EE 8 hits the mainstream with 55% adoption. Despite only shipping in September 2019, Jakarta EE 8 usage has skyrocketed to 17%.

Version	%
★ Java EE 8	38%
Java EE 7	27%
We don't run Java EE in production	21%
Java EE 6	20%
★ Jakarta EE 8	17%
Older than Java EE 6	13%

Eclipse Che

Eclipse Che's adoption has surged with reported usage growing from 4% in 2019 to 11% in 2020.

4% 2019 → **11% 2020**

Which container orchestration technologies are you using for cloud native applications?

54% Kubernetes

27% Docker Swarm

22% Apache mesos

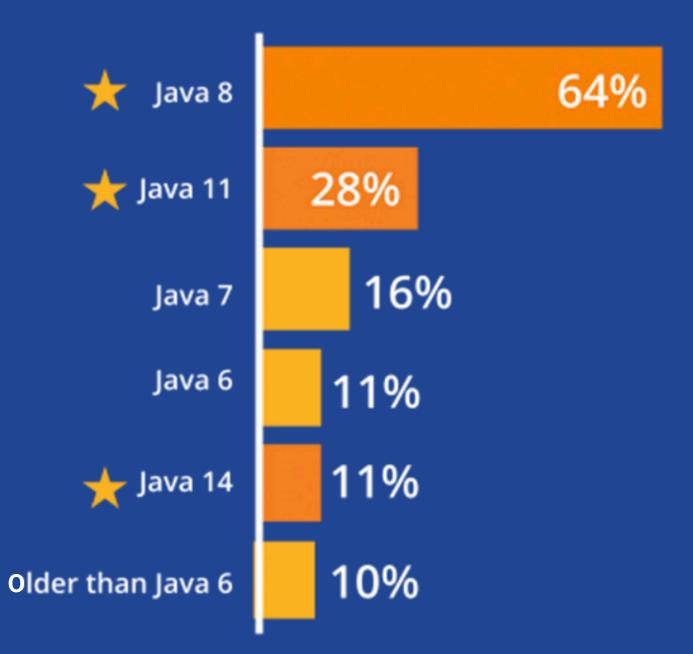**What version of Java SE is your organization running in production?**

Java 8 adoption has decreased to 64% (84% in 2019). This is an indicator that developers are finally moving away from Java 8 and Java 11 is replacing Java 8 as the default Java.

Java 11 use has surged to 28% (20% in 2019).

Java 14 use is sitting at 11%. Java 14 uptake may be due to the cloud providers looking to stay on the latest and greatest.

Version	%
★ Java 8	64%
★ Java 11	28%
Java 7	16%
Java 6	11%
★ Java 14	11%
Older than Java 6	10%

Help Shape The Cloud Native Future Of Jakarta EE

The stakeholders of the Jakarta EE community are committed to a cloud native future for the platform.

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