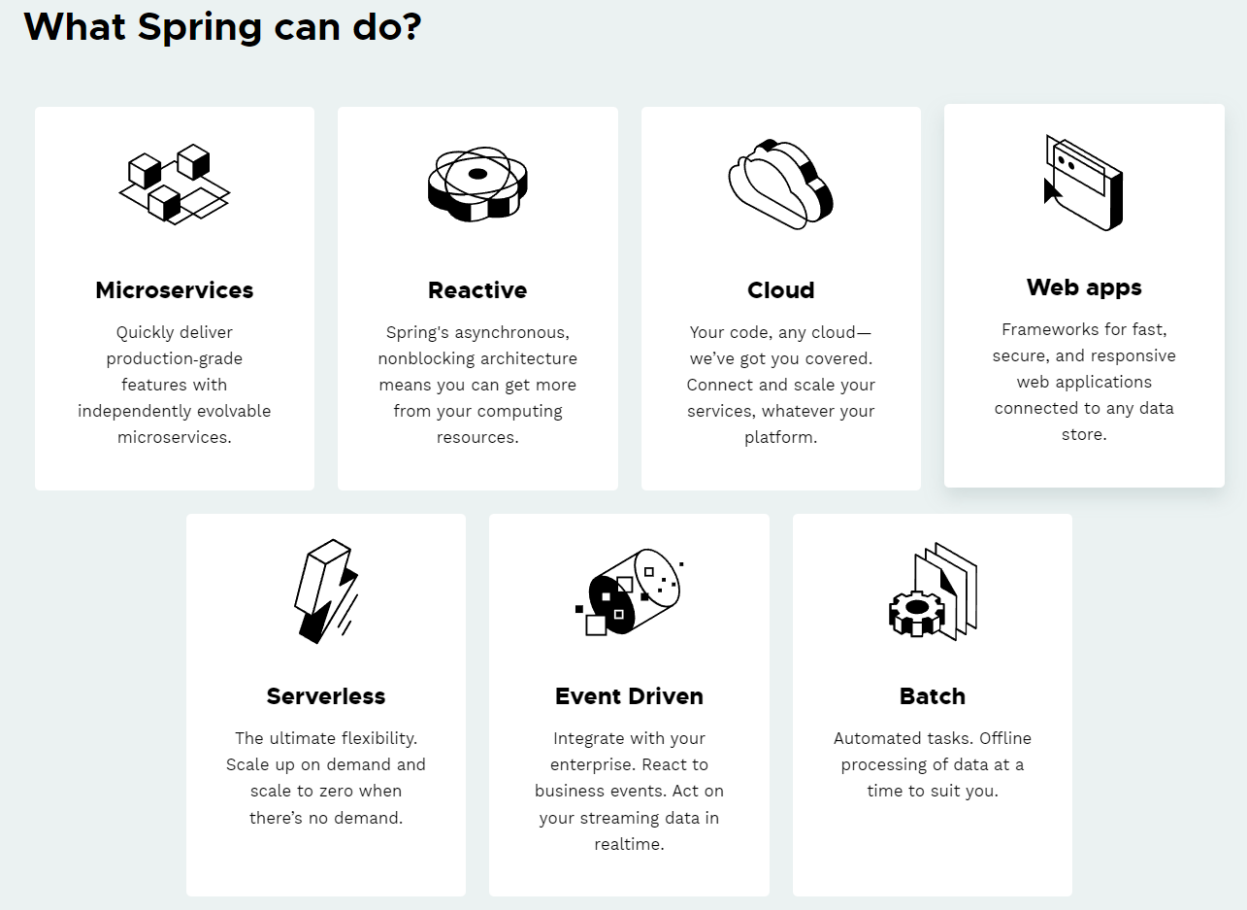
Why Spring?

Spring makes programming Java quicker, easier, and safer for everybody. Spring's focus on speed, simplicity, and productivity has made it the world's most popular Java framework.



Microservices

Microservice architectures are the 'new normal'. Building small, self-contained, ready to run applications can bring great flexibility and added resilience to your code. Spring Boot's many purpose-built features make it easy to build and run your microservices in production at scale. And don't forget, no microservice architecture is complete without Spring Cloud – easing administration and boosting your fault-tolerance.

What are microservices?

Microservices are a modern approach to software whereby application code is delivered in small, manageable pieces, independent of others.

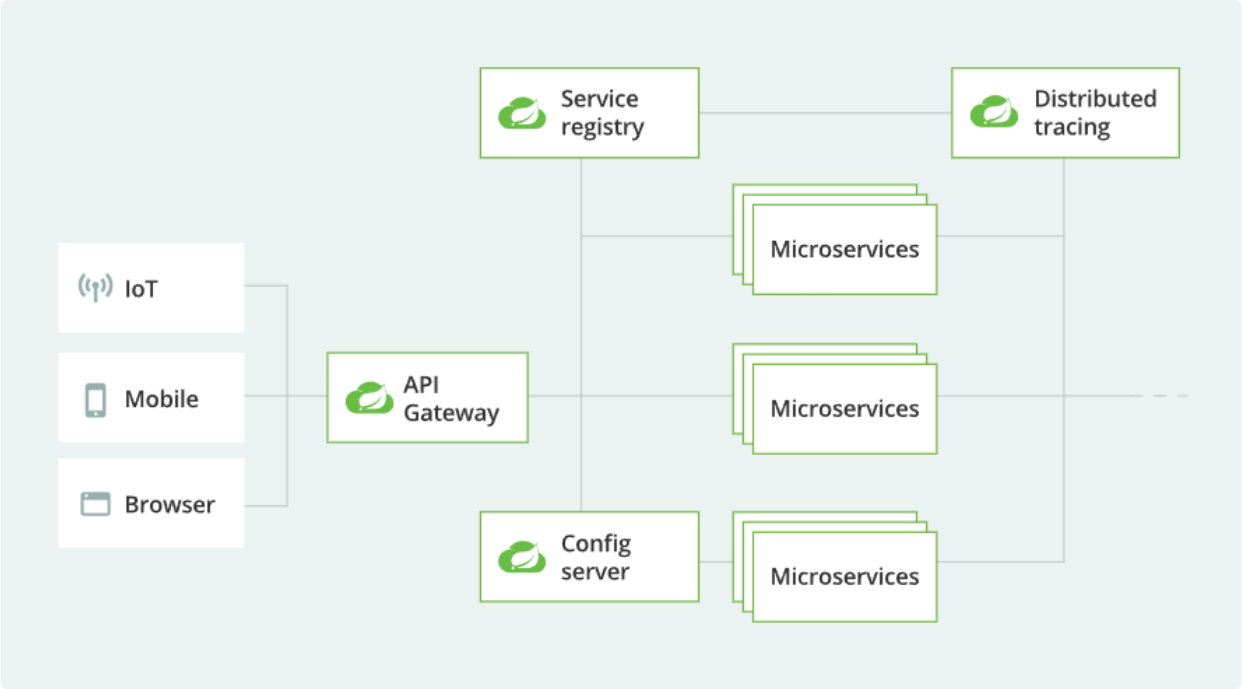
Why build microservices?

Their small scale and relative isolation can lead to many additional benefits, such as easier maintenance, improved productivity, greater fault tolerance, better business alignment, and more.

Cloud

Developing distributed systems can be challenging. Complexity is moved from the application layer to the network layer and demands greater interaction between services. Making your code 'cloud-native' means dealing with 12-factor issues such as external configuration, statelessness, logging, and connecting to backing services. The Spring Cloud suite of projects contains many of the services you need to make your applications run in the cloud.

Spring Cloud architecture highlights



Web applications

Spring makes building web applications fast and hassle-free. By removing much of the boilerplate code and configuration associated with web development, you get a modern web programming model that streamlines the development of server-side HTML applications, REST APIs, and bidirectional, event-based systems.

Developer productivity

Spring Boot is the starting point of your developer experience, whatever you're building. Spring Boot is designed to get you up and running as quickly as possible, with minimal upfront configuration. With its embedded application servers, you can be serving in seconds.

Spring's out-of-the-box, production-ready features (like tracing, metrics, and health status) provide developers with deep insight into their applications.
Finally, Spring supports multiple JVM languages: Java, Kotlin, and Groovy.

This text is presented here in case of changed or broken links, so the learner may still have access to the information.

https://spring.io/web-applications