Micro Services(using SpringBoot)

Before Microservices

- Monolithic architecture: multiple components are combined in single large app.
- · Single Code Base
- Deployed in single bundle
- Change in one service then whole app is redeployed
- Building problem: developers has to communicate
- · Problem in scale
- Cumbersome over time





Application using Monolithic

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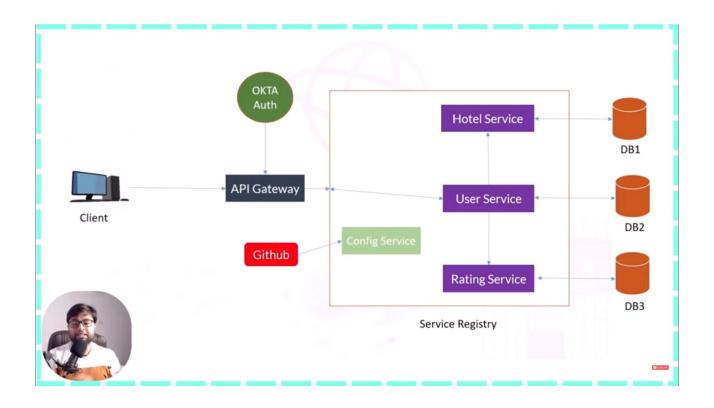
Microservices

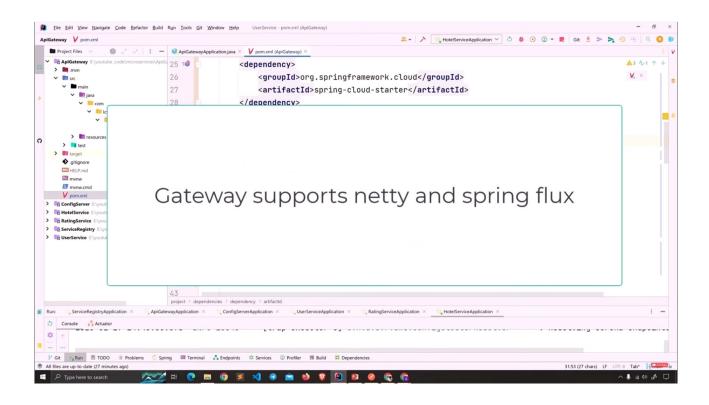
- · Large apps are divide into small parts
- Different codebase
- Each module managed independently
- · Different tech stack
- Handling microservices is complex





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If you include the starter, but you do not want the gateway to be enabled, set spring.cloud.gateway.enabled=false.



Spring Cloud Gateway is built on Spring Boot 2.x, Spring WebFlux, and Project Reactor. As a consequence, many of the familiar synchronous libraries (Spring Data and Spring Security, for example) and patterns you know may not apply when you use Spring Cloud Gateway. If you are unfamiliar with these projects, we suggest you begin by reading their documentation to familiarize yourself with some of the new concepts before working with Spring Cloud Gateway.



Spring Cloud Gateway requires the Netty runtime provided by Spring Boot and Spring Webflux. It does not work in a traditional Servlet Container or when built as a WAR.

2. Glossary

- **Route**: The basic building block of the gateway. It is defined by an ID, a destination URI, a collection of predicates, and a collection of filters. A route is matched if the aggregate predicate is true.
- **Predicate**: This is a Java 8 Function Predicate. The input type is a Spring Framework ServerWebExchange. This lets you match on anything from the HTTP request, such as headers or parameters.

