

Spring Boot Microservices

Beginner to Guru

Spring Cloud Circuit Breaker



The Circuit Breaker Pattern

- The Circuit Breaker Pattern is a simple concept which allows you to recover from errors
- If a service is unavailable or has unrecoverable errors, via the Circuit Breaker Pattern you can specify an alternative action.
- For example, we wish to always have inventory for potential orders.
 - If the inventory service is down, we can provide a fallback service to respond with inventory



Spring Cloud Circuit Breaker

- Spring Cloud Circuit Breaker is a project which provides abstractions across several circuit breaker implementations
 - Thus your source code is not tied to a specific implementation (like SLF4J)
- Supported:
 - Netflix Hystrix
 - Resilience4J
 - Sentinel
 - Spring Retry





Spring Cloud Gateway Circuit Breakers

- Spring Cloud Gateway supports Netflix Hystrix and Resilience4J
- Gateway Filters are used on top the the Spring Cloud Circuit Breaker APIs
- Netflix has placed Hystrix into maintenance mode, Spring suggests using Resilience4J



Coming Up

- Create Inventory Failover service
- Configure Spring Cloud Gateway to use circuit breaker for failover
- Configure Feign to use Circuit Breaker





SPRING FRAMEWORK

