

API Rate Limiting

Pom.xml

```
<dependencies>
  <!-- Reactive Spring Boot Starter -->
  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-webflux</artifactId>
  </dependency>
  <!-- Spring Cloud Gateway -->
  <dependency>
    <groupId>org.springframework.cloud</groupId>
    <artifactId>spring-cloud-starter-gateway</artifactId>
  </dependency>
  <!-- Spring Security for Reactive Applications -->
  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-security</artifactId>
  </dependency>
  <!-- Other necessary dependencies -->
</dependencies>
```

Application.yml

server:

port: 8082

```
spring:
  redis:
    host: localhost
    port: 6379
  application:
    name: ratelimiter-example
cloud:
  gateway:
    routes:
      - id: route1
        uri: http://localhost:8080/hello
        predicates:
          - Path=/hello
        filters:
          - name: RequestRateLimiter
            args:
              redis-rate-limiter.replenishRate: 20
              redis-rate-limiter.burstCapacity: 40
              redis-rate-limiter.requestedTokens: 1
```

```
# application.yml
```

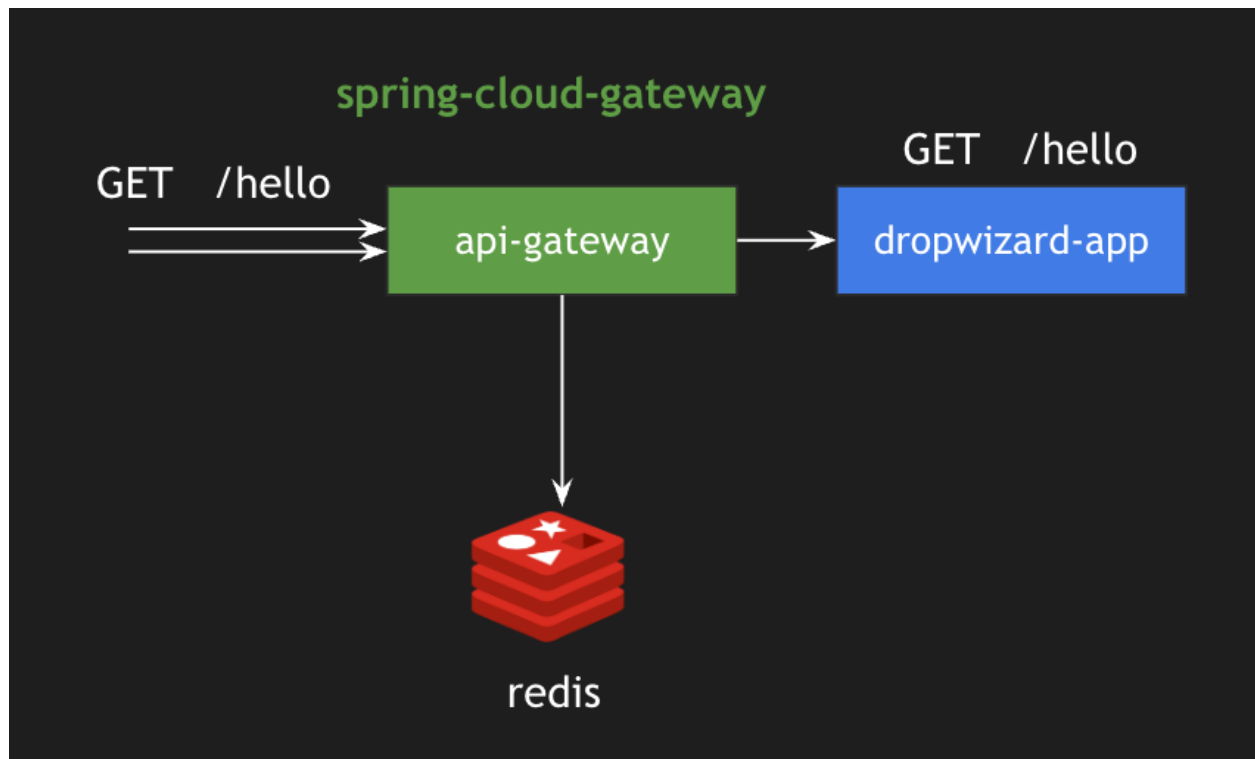
```
spring:
  main:
    web-application-type: reactive
```

```
# application.yml
```

spring:

main:

allow-bean-definition-overriding: true



@SpringBootApplication

@Bean

```
public KeyResolver keyResolver() {  
    return exchange ->  
    Mono.just(exchange.getRequest().getRemoteAddress().getAddress().getHostAddress());  
}
```

application.properties

spring.main.web-application-type=reactive

application.properties

spring.main.allow-bean-definition-overriding=true