

Swagger Gateway MicroService Aggregation

Asked 6 years, 3 months ago Modified 6 years, 3 months ago Viewed 6k times



7

I am developing a microservice application using SpringBoot. There is Gateway Microservice which is public facing, it redirects requests to particular microservice (which are running on different hosts).



Now, I've multiple microservices, each microservice has exposed their APIs using Swagger. We would like to aggregate all these API Swagger docs for public clients.



Temporary solution we've incorporated is, just copied the Swagger Annotated classes for each microservice in Gateway Service. What is **the right way** to do it?

java

spring-boot

swagger

microservices

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asked Mar 15, 2018 at 6:27



Ganesh Satpute

3,872 ● 8 ● 44 ● 84

2 Did you look at Netflix Zuul ? – [Stefaan Neyts](#) Mar 15, 2018 at 6:30

I have not, let me give it a try and come back :). Thanks for your input @StefaanNeyts

– [Ganesh Satpute](#) Mar 15, 2018 at 12:08 ✎

Thanks, @StefaanNeyts. I tried it and it worked like a charm. I've posted the code as an answer so it will be helpful to other users. – [Ganesh Satpute](#) Mar 23, 2018 at 5:59

1 Nicely done. Thx for sharing your solution. Up! – [Stefaan Neyts](#) Mar 23, 2018 at 6:11

@StefaanNeyts All of the request should have valid authorization header in the format

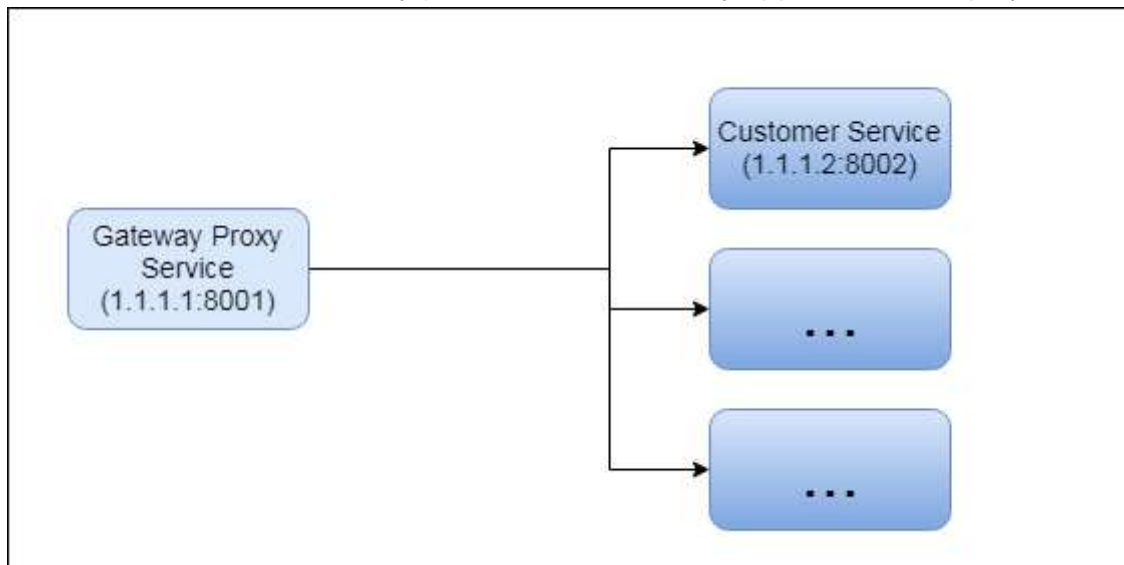
`Authorization: bearer: <token>`. This token will get validated on Gateway and if correct request will be passed on to particular service without auth header. How can I add this token to every request via Swagger? – [Ganesh Satpute](#) Mar 28, 2018 at 6:51

1 Answer

Sorted by: Highest score (default)



I used Zuul and that solved my problem This is how my app would be deployed



I added this in my `pom.xml`

```

<dependencies>
  ....
  <dependency>
    <groupId>io.springfox</groupId>
    <artifactId>springfox-swagger-ui</artifactId>
    <version>2.6.1</version>
  </dependency>
  <dependency>
    <groupId>io.springfox</groupId>
    <artifactId>springfox-swagger2</artifactId>
  </dependency>
</dependencies>

```

My main class looks like this

```

@EnableZuulProxy
@SpringBootApplication
@EnableSwagger2
public class Application {
    public static void main(String[] args) {
        SpringApplication.run(Application.class, args);
    }

    @Bean
    UiConfiguration uiConfig() {
        return new UiConfiguration("validatorUrl", "list", "alpha", "schema",
            UiConfiguration.Constants.DEFAULT_SUBMIT_METHODS, false, true,
            60000L);
    }
}

```

I created the aggregator for swagger document

```

@Component
@Primary
@EnableAutoConfiguration
public class SwaggerAggregatorController implements SwaggerResourcesProvider {

```

```
@Override
public List<SwaggerResource> get() {
    List<SwaggerResource> resources= new ArrayList<>();
    SwaggerResource swaggerResource = new SwaggerResource();
    swaggerResource.setName("cust-service");
    swaggerResource.setLocation("/cust/v2/api-docs");
    swaggerResource.setSwaggerVersion("2.0");

    resources.add(swaggerResource);
    return resources;
}
```

I can add more microservices in this field. (Can be improved to be read from config file)

My `application.properties` looks like following

```
...
server.port=8001

zuul.routes.cust.path=/cust/**
zuul.routes.cust.url=http://1.1.1.2:8002/cust-service/
...
```

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answered Mar 23, 2018 at 5:58



[Ganesh Satpute](#)

3,872 ● 8 ● 44 ● 84

3 is this possible using spring cloud gateway ? – [shatk](#) Apr 8, 2019 at 7:48

`return new UiConfiguration method` is marked as deprecated in 2.9.2 of Springfox

– [Mr_LinDowsMac](#) Mar 19, 2020 at 18:03

@Mr_LinDowsMac You can use whatever the latest and I think it would work the same way. The problem I was trying to address was to aggregate all the swagger docs – [Ganesh Satpute](#) Mar 20, 2020 at 10:21
