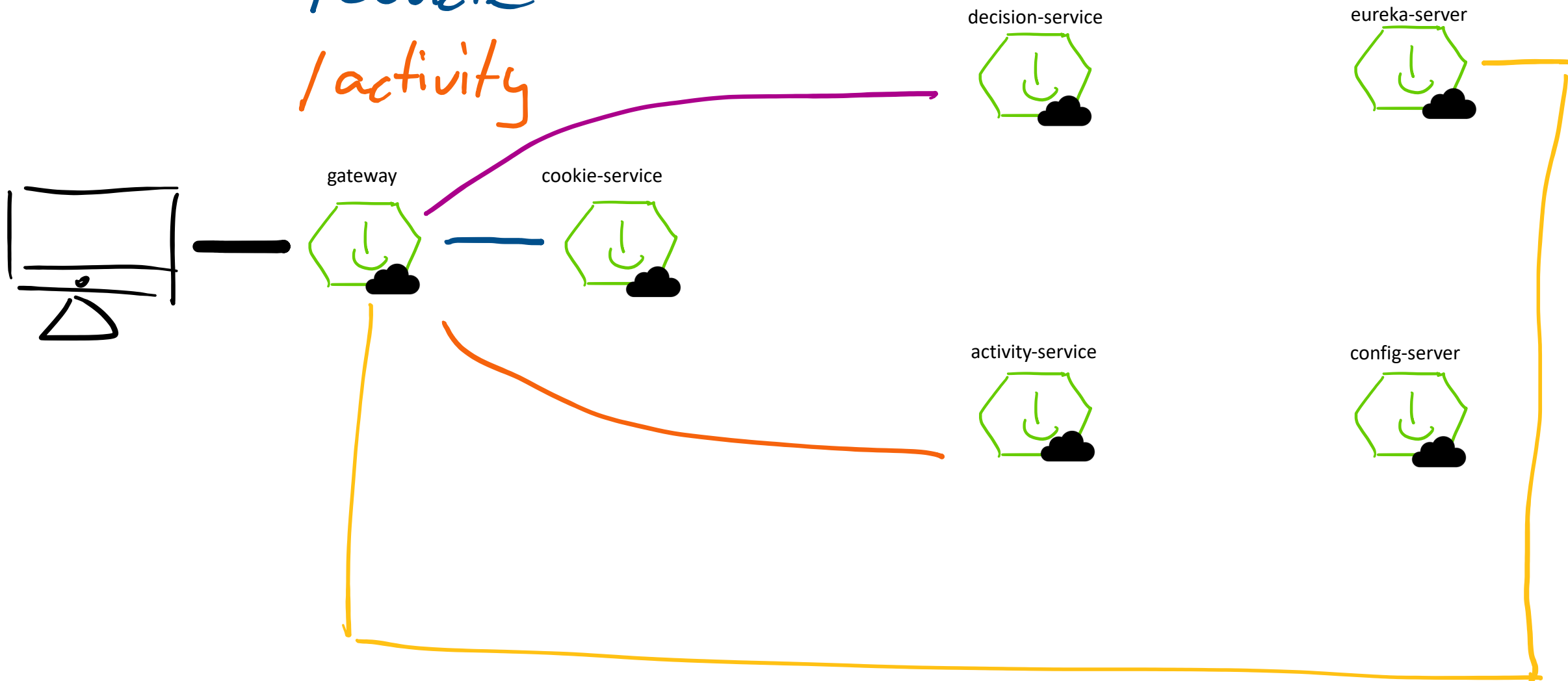


Spring Cloud Gateway

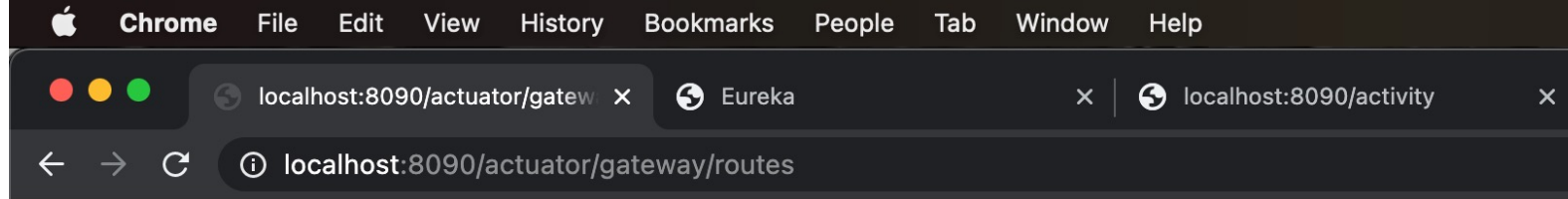
DoD

/decision
/cookie
/activity

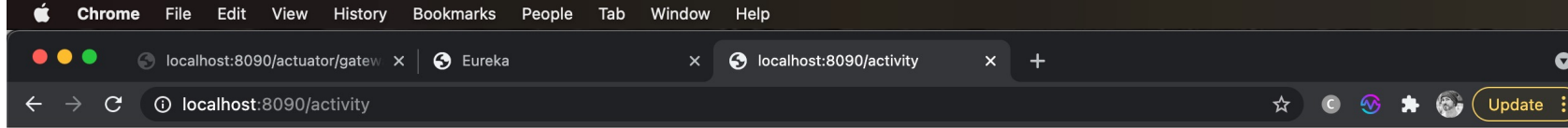


Instances currently registered with Eureka

Application	AMIs	Availability Zones	Status
ACTIVITY-SERVICE	n/a (1)	(1)	UP (1) - 192.168.1.107:activity-service:8010
COOKIE-SERVICE	n/a (1)	(1)	UP (1) - 192.168.1.107:cookie-service
DECISION-SERVICE	n/a (1)	(1)	UP (1) - 192.168.1.107:decision-service:8000
GATEWAY	n/a (1)	(1)	UP (1) - 192.168.1.107:gateway:8090



```
[
  {
    "predicate": "Paths: [/fortune], match trailing slash: true",
    "route_id": "cookie_route",
    "filters": [],
    "uri": "lb://COOKIE-SERVICE",
    "order": 0
  },
  {
    "predicate": "Paths: [/activity], match trailing slash: true",
    "route_id": "activity_route",
    "filters": [
      "[[AddResponseHeader X-TestHeader = 'Test Value'], order = 0]"
    ],
    "uri": "http://activity-service:8010",
    "order": 0
  },
  {
    "predicate": "Paths: [/decision], match trailing slash: true",
    "route_id": "decision_route",
    "filters": [
      "[ExampleFilter, order = 0]"
    ],
    "uri": "http://decision-service:8000",
    "order": 0
  }
]
```



```
{
  "service": "ACTIVITY-SERVICE",
  "message": "to eat a cookie"
}
```

Network tab interface showing request details for 'activity'.

Filter: ☐ Hide data URLs


All | XHR | JS | CSS | Img | Media | Font | Doc | WS | Manifest | Other | ☐ Has blocked cookies

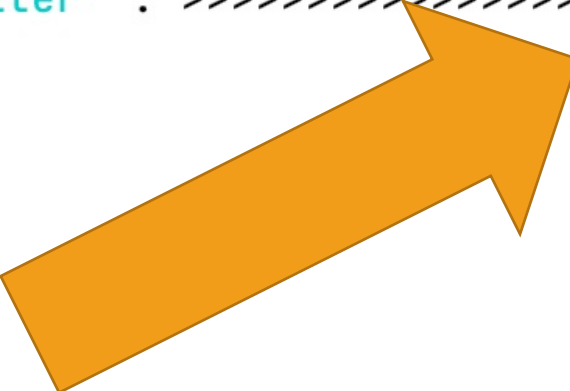
☐ Blocked Requests

Timeline: 100 ms, 200 ms, 300 ms, 400 ms, 500 ms

Request details for 'activity':

- Status Code: 200 OK
- Remote Address: [::1]:8090
- Referrer Policy: strict-origin-when-cross-origin
- Response Headers:
 - Content-Type: application/json
 - Date: Wed, 05 May 2021 16:39:57 GMT
 - transfer-encoding: chunked
 - X-TestHeader: Test Value





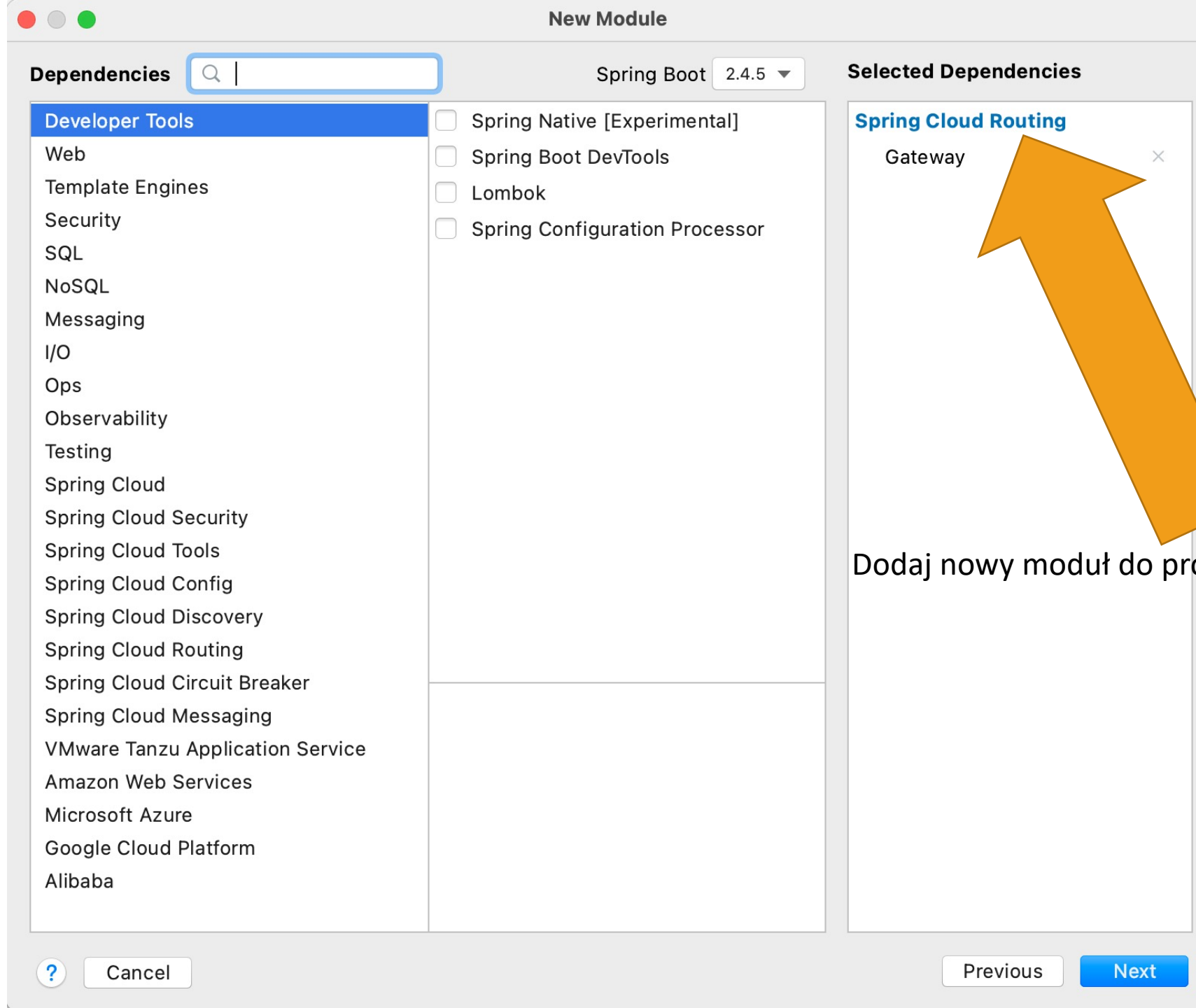
Przepis:

- dodanie serwisów do host
- dodanie modułu Spring Boot do projektu (zależność Spring Cloud Gateway), w nim:
 - dodanie zależności w pom.xml (klient eureki, actuator)
 - konfiguracja w application.yml (klient eureki, actuator)
 - implementacja ExampleFilter
 - konfiguracja przekierowań / filtrów (@Configuration)

Hosts

```
#START    cookie-service
127.0.0.1    eureka-peer1
127.0.0.1    eureka-peer2
127.0.0.1    config-server
127.0.0.1    cookie-service
127.0.0.1    activity-service
127.0.0.1    decision-service
#END    fortune-cookie
```

Dodaj moduł do projektu



Dodatkowe zależności

```

<properties>
  <java.version>11</java.version>
  <spring-cloud.version>2020.0.2</spring-cloud.version>
</properties>
<dependencies>
  <dependency>
    <groupId>org.springframework.cloud</groupId>
    <artifactId>spring-cloud-starter-gateway</artifactId>
  </dependency>

  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-test</artifactId>
    <scope>test</scope>
  </dependency>
</dependencies>
<dependencyManagement>
  <dependencies>
    <dependency>
      <groupId>org.springframework.cloud</groupId>
      <artifactId>spring-cloud-dependencies</artifactId>
      <version>${spring-cloud.version}</version>
    </dependency>
  </dependencies>
</dependencyManagement>

```

<pre> 16 17 17 18 18 19 19 20 20 21 21 22 22 23 23 24 24 25 25 26 26 27 27 28 28 29 29 30 30 31 31 32 32 33 33 34 34 35 35 36 36 37 37 38 </pre>	<pre> <java.version>11</java.version> <spring-cloud.version>2020.0.2</spring-cloud.version> </properties> <dependencies> <dependency> <groupId>org.springframework.boot</groupId> <artifactId>spring-boot-starter-actuator</artifactId> </dependency> <dependency> <groupId>org.springframework.cloud</groupId> <artifactId>spring-cloud-starter-gateway</artifactId> </dependency> <dependency> <groupId>org.springframework.cloud</groupId> <artifactId>spring-cloud-starter-netflix-eureka-client</artifactId> </dependency> <dependency> <groupId>org.springframework.boot</groupId> <artifactId>spring-boot-starter-test</artifactId> <scope>test</scope> </dependency> </pre>
--	--

application.yml

↑ ↓ ↻ ⏮ ⏭ ≡ Side-by-side viewer Do not ignore Highlight words ⚙ ?

🔒 a7ea90f78fab01d1b85aded047bd49d5c60b49cd

```
1  server:
2    port: 8090
3  eureka:
4    client:
5      serviceUrl:
6        # eureka-peer1 needs to be available ( host / port)
7        defaultZone: http://eureka-peer1:8761/eureka
8  spring:
9    application:
10     name: gateway
11     # taken from one of the many spring.io examples
12  logging:
13    level:
14    org:
15      springframework:
16        cloud:
17          gateway: TRACE
18  management:
19    endpoints:
20      web:
21        exposure:
22          include: '*'
23
24
```

Własny Filtr

Konfiguracja (Java) przekierowań i filtrów

RoutesConfig.java (/Users/uki

Side-by-side viewer

Do not ignore

Highlight words

a7ea90f78fab01d1b85aded047bd49d5c60b49cd

```

1  package com.example.gateway;
2
3  import com.example.gateway.filters.ExampleFilter;
4  import org.springframework.cloud.gateway.route.RouteLocator;
5  import org.springframework.cloud.gateway.route.builder.RouteLocatorBuilder;
6  import org.springframework.context.annotation.Bean;
7  import org.springframework.context.annotation.Configuration;
8
9  @Configuration
10 public class RoutesConfig {
11
12     // Check http://localhost:8090/actuator/gateway/routes
13     @Bean
14     @ public RouteLocator customRouteLocator(RouteLocatorBuilder builder) {
15         return builder.routes()
16
17         /*
18             lb://SERVICE-NAME : data taken form Eureka (only for this route):
19             spring-cloud-starter-netflix-eureka-client dependency in pom.xml
20             eureka.client.serviceUrl.defaultZone in application.yml
21         */
22
23         .route("cookie_route", r -> r.path("/fortune")
24             .uri("lb://COOKIE-SERVICE"))
25         // an example of a predefined filter
26         .route("activity_route", r -> r.path("/activity")
27             .filters(gatewayFilterSpec -> gatewayFilterSpec.addResponseHeader("X-TestHeader", "Test Value"))
28             // the host / port as defined in hosts / app's profile
29             .uri("http://activity-service:8010"))
30         .route("decision_route", r -> r.path("/decision")
31             // an example of a custom filter
32             .filters(gatewayFilterSpec -> gatewayFilterSpec.filter(exampleFilter()))
33             .uri("http://decision-service:8000"))
34         .build();
35     }
36
37     @Bean
38     ExampleFilter exampleFilter() {
39         return new ExampleFilter();
40     }
41 }

```