

scg crud test

Spring Cloud Gateway actuator endpoints 요약

- base-path : /actuator/gateway

ID	HTTP Method	Description
<code>globalfilters</code>	GET	Displays the list of global filters applied to the routes.
<code>routefilters</code>	GET	Displays the list of GatewayFilter factories applied to a particular route.
<code>refresh</code>	POST	Clears the routes cache.
<code>routes</code>	GET	Displays the list of routes defined in the gateway.
<code>routes/{id}</code>	GET	Displays information about a particular route.
<code>routes/{id}</code>	POST	Add a new route to the gateway.
<code>routes/{id}</code>	DELETE	Remove an existing route from the gateway.

1) route filters 조회

- Global Filters

모든 route에 적용된 global filter를 조회하기 위해 /actuator/gateway/globalfilters 으로 GET 요청

request

GET <http://localhost:37080/actuator/gateway/globalfilters>

response

```
{
  "org.springframework.cloud.gateway.filter.ForwardPathFilter@2bc7db89": 0,
  "org.springframework.cloud.gateway.filter.NettyWriteResponseFilter@297c9a9b": -1,
  "org.springframework.cloud.gateway.filter.GatewayMetricsFilter@220c9a63": 0,
  "org.springframework.cloud.gateway.filter.AdaptCachedBodyGlobalFilter@12a2585b": -2147482648,
  "org.springframework.cloud.gateway.filter.ForwardRoutingFilter@66223d94": 2147483647,
  "org.springframework.cloud.gateway.filter.RouteToRequestUrlFilter@6ec63f8": 10000,
  "org.springframework.cloud.gateway.filter.RemoveCachedBodyFilter@20999517": -2147483648,
  "org.springframework.cloud.gateway.filter.WebsocketRoutingFilter@479ac2cb": 2147483646,
  "org.springframework.cloud.gateway.filter.NettyRoutingFilter@76cf841": 2147483647
}
```

GET <http://localhost:37080/actuator/gateway/globalfilters> Send Save

Params Auth Headers (8) **Body** Pre-req. Tests Settings Cookies Code

none

This request does not have a body

Body Cookies (1) Headers (2) Test Results 200 OK 24 ms 811 B Save Response

Pretty Raw Preview Visualize JSON 🔍

```

1 {
2   "org.springframework.cloud.gateway.filter.ForwardPathFilter@2bc7db89": 0,
3   "org.springframework.cloud.gateway.filter.NettyWriteResponseFilter@297c9a9b": -1,
4   "org.springframework.cloud.gateway.filter.GatewayMetricsFilter@220c9a63": 0,
5   "org.springframework.cloud.gateway.filter.AdaptCachedBodyGlobalFilter@12a2585b": -2147482648,
6   "org.springframework.cloud.gateway.filter.ForwardRoutingFilter@66223d94": 2147483647,
7   "org.springframework.cloud.gateway.filter.RouteToRequestUrlFilter@6ec63f8": 10000,
8   "org.springframework.cloud.gateway.filter.RemoveCachedBodyFilter@20999517": -2147483648,
9   "org.springframework.cloud.gateway.filter.WebsocketRoutingFilter@479ac2cb": 2147483646,
10  "org.springframework.cloud.gateway.filter.NettyRoutingFilter@76cf841": 2147483647
11 }

```

- Route Filters

route에 적용된 GatewayFilter factories 를 조회하기 위해 /actuator/gateway/routefilters 에 GET 요청

request

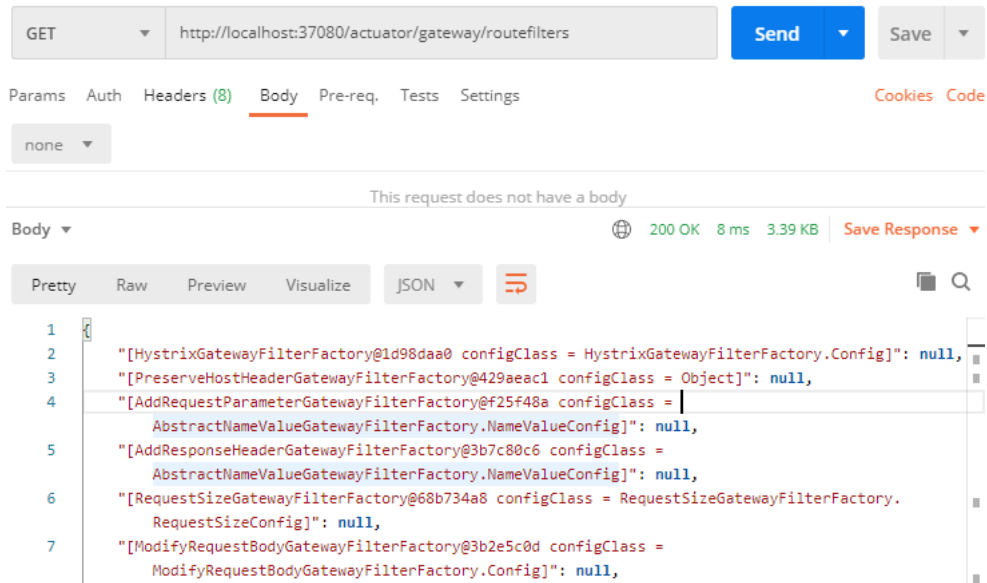
GET <http://localhost:37080/actuator/gateway/routefilters>

response

```

{
  "[HystrixGatewayFilterFactory@1d98daa0 configClass = HystrixGatewayFilterFactory.Config]": null,
  "[PreserveHostHeaderGatewayFilterFactory@429aeac1 configClass = Object]": null,
  "[AddRequestParameterGatewayFilterFactory@f25f48a configClass = AbstractNameValueGatewayFilterFactory.NameValueConfig]": null,
  "[AddResponseHeaderGatewayFilterFactory@3b7c80c6 configClass = AbstractNameValueGatewayFilterFactory.NameValueConfig]": null,
  "[RequestSizeGatewayFilterFactory@68b734a8 configClass = RequestSizeGatewayFilterFactory.RequestSizeConfig]": null,
  "[ModifyRequestBodyGatewayFilterFactory@3b2e5c0d configClass = ModifyRequestBodyGatewayFilterFactory.Config]": null,
  "[RemoveResponseHeaderGatewayFilterFactory@1de4285e configClass = AbstractGatewayFilterFactory.NameConfig]": null,
  "[SetStatusGatewayFilterFactory@1dad01fe configClass = SetStatusGatewayFilterFactory.Config]": null,
  "[RetryGatewayFilterFactory@634ff56 configClass = RetryGatewayFilterFactory.RetryConfig]": null,
  "[RewriteResponseHeaderGatewayFilterFactory@4099209b configClass = RewriteResponseHeaderGatewayFilterFactory.Config]": null,
  "[SetRequestHeaderGatewayFilterFactory@e91b4f4 configClass = AbstractNameValueGatewayFilterFactory.NameValueConfig]": null,
  "[PrefixPathGatewayFilterFactory@b9d018b configClass = PrefixPathGatewayFilterFactory.Config]": null,
  "[RewriteLocationResponseHeaderGatewayFilterFactory@43ac0a68 configClass = RewriteLocationResponseHeaderGatewayFilterFactory.Config]": null,
  "[StripPrefixGatewayFilterFactory@3e3cd6fe configClass = StripPrefixGatewayFilterFactory.Config]": null,
  "[SetResponseHeaderGatewayFilterFactory@58ae402b configClass = AbstractNameValueGatewayFilterFactory.NameValueConfig]": null,
  "[SetPathGatewayFilterFactory@66522ead configClass = SetPathGatewayFilterFactory.Config]": null,
  "[RedirectHeaderToRequestUriGatewayFilterFactory@1de0641b configClass = AbstractGatewayFilterFactory.NameConfig]": null,
  "[DedupeResponseHeaderGatewayFilterFactory@7499eac7 configClass = DedupeResponseHeaderGatewayFilterFactory.Config]": null,
  "[RemoveRequestParameterGatewayFilterFactory@8bd076a configClass = AbstractGatewayFilterFactory.NameConfig]": null,
  "[MapRequestHeaderGatewayFilterFactory@54336976 configClass = MapRequestHeaderGatewayFilterFactory.Config]": null,
  "[RemoveRequestHeaderGatewayFilterFactory@6b4fc2d1 configClass = AbstractGatewayFilterFactory.NameConfig]": null,
  "[SecureHeadersGatewayFilterFactory@5a484ce1 configClass = Object]": null,
  "[ModifyResponseBodyGatewayFilterFactory@5438c17a configClass = ModifyResponseBodyGatewayFilterFactory.Config]": null,
  "[RewritePathGatewayFilterFactory@1378eea2 configClass = RewritePathGatewayFilterFactory.Config]": null,
  "[SetRequestHostHeaderGatewayFilterFactory@2ffe243f configClass = SetRequestHostHeaderGatewayFilterFactory.Config]": null,
  "[RequestHeaderSizeGatewayFilterFactory@1a464fa3 configClass = RequestHeaderSizeGatewayFilterFactory.Config]": null,
  "[SaveSessionGatewayFilterFactory@3728a578 configClass = Object]": null,
  "[SpringCloudCircuitBreakerHystrixFilterFactory@4215e133 configClass = SpringCloudCircuitBreakerFilterFactory.Config]": null,
  "[FallbackHeadersGatewayFilterFactory@70a898b0 configClass = FallbackHeadersGatewayFilterFactory.Config]": null,
  "[AddRedirectHeaderGatewayFilterFactory@7bdf61ad configClass = AbstractNameValueGatewayFilterFactory.NameValueConfig]": null,
  "[RedirectToGatewayFilterFactory@79eeff87 configClass = RedirectToGatewayFilterFactory.Config]": null
}

```



2) route cache 갱신

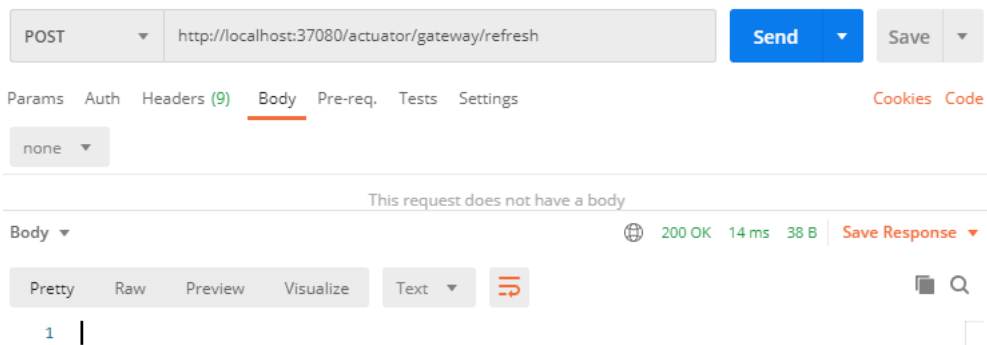
route cache 를 clear 하기 위해 /actuator/gateway/refresh 에 GET 요청

request

POST <http://localhost:37080/actuator/gateway/refresh>

response

200ok



3)gateway에 정의된 route 조회

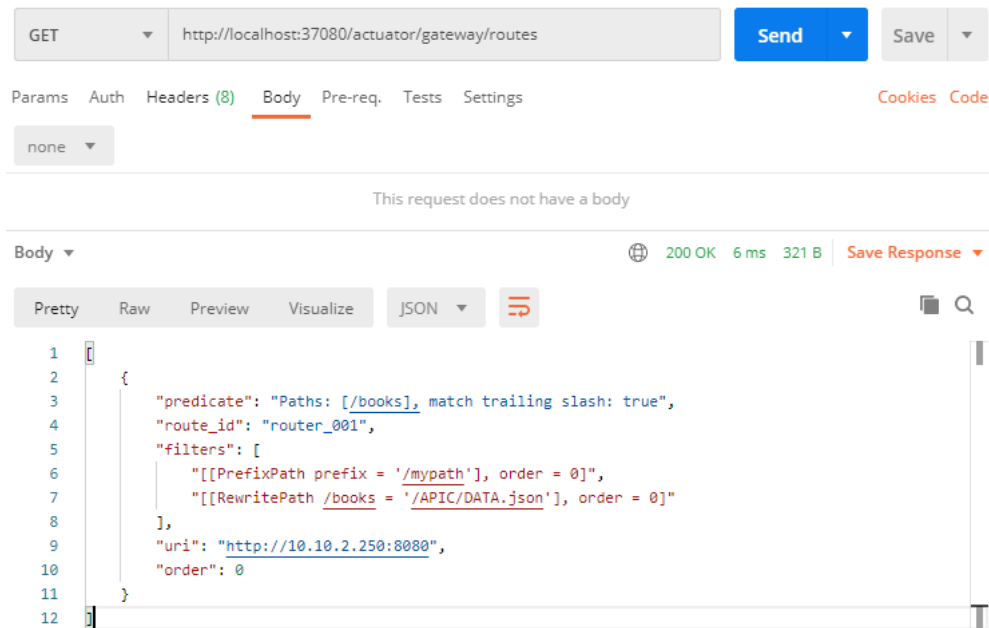
/actuator/gateway/routes 에 GET 요청

request

GET <http://localhost:37080/actuator/gateway/routes>

response

```
[
  {
    "predicate": "Paths: [/books], match trailing slash: true",
    "route_id": "router_001",
    "filters": [
      "[[PrefixPath prefix = '/mypath'], order = 0]",
      "[[RewritePath /books = '/APIC/DATA.json'], order = 0]"
    ],
    "uri": "http://10.10.2.250:8080",
    "order": 0
  }
]
```



4) 특정 route에 대한 정보 조회

한 개의 route에 대한 정보를 조회하기 위해 `/actuator/gateway/routes/{id}` 에 GET 요청

request

GET http://localhost:37080/actuator/gateway/routes/first_route

resoponse

```
{
  "id": "first_route",
  "predicates": [{
    "name": "Path",
    "args": {"_genkey_0": "/first"}
  }],
  "filters": [],
  "uri": "https://www.uri-destination.org",
  "order": 0
}]
```

5) 특정 route 생성

1. route의 필드 설정에 대한 JSON BODY와 함께 POST 요청

- /gateway/routes/{id_route_to_create} 에 POST 요청
- {id_route_to_create} 에는 새로 생성할 route의 id 명 입력
- body에는 JSON 형식으로 아래와 같은 필드를 포함

Path	Type	Description
<code>route_id</code>	String	The route id.
<code>route_object.predicate</code>	Object	The route predicate.
<code>route_object.filters</code>	Array	The GatewayFilter factories applied to the route.
<code>order</code>	Number	The route order.

request

POST http://localhost:37080/actuator/gateway/routes/first_route

Body

```
{
  "id": "first_route",
  "predicates": [{
    "name": "Path",
    "args": { "_genkey_0": "/first" }
  }],
  "filters": [],
  "uri": "https://www.uri-destination.org",
  "order": 0
}]
```

response

201 created

The screenshot shows a REST client interface with the following details:

- Method:** POST
- URL:** http://localhost:37080/actuator/gateway/routes/first_route
- Body:** JSON format, containing the route definition:


```
{
  "id": "first_route",
  "predicates": [{
    "name": "Path",
    "args": { "_genkey_0": "/first" }
  }],
  "filters": [],
  "uri": "https://www.uri-destination.org",
  "order": 0
}]
```
- Response:** 201 Created, 20 ms, 74 B. The response body is empty.

2. route cache 갱신

- 새로 생성한 route 정보를 업데이트 시키기 위해 [/actuator/gateway/refresh](#) 에 POST 요청

request

POST <http://localhost:37080/actuator/gateway/refresh>

response

200 ok

3. 생성되었는지 route 목록 조회

- route 정보 생성을 확인하기 위해 [actuator/gateway/routes](#) 에 GET 요청

request

GET <http://localhost:37080/actuator/gateway/routes>

response

```
[
  {
    "predicate": "Paths: [/books], match trailing slash: true",
    "route_id": "router_001",
    "filters": [
      "[PrefixPath prefix = '/mypath'], order = 0",
      "[RewritePath /books = '/APIC/DATA.json'], order = 0"
    ],
    "uri": "http://10.10.2.250:8080",
    "order": 0
  },
  {
    "predicate": "Paths: [/first], match trailing slash: true",
    "route_id": "first_route",
    "filters": [],
    "uri": "https://www.uri-destination.org:443",
    "order": 0
  }
]
```

6) 특정 route 삭제

1. route id 로 gateway에 정의된 route 삭제

- `/gateway/routes/{id_route_to_create}` 에 DELETE요청
- `{id_route_to_create}` 에는 새로 삭제할 route의 id 명 입력
- body에는 JSON 형식으로 아래와 같은 필드를 포함

request

DELETE http://localhost:37080/actuator/gateway/routes/first_route

response

200 ok

