

Hands-On Lab: API Mocking for REST API

Objectives

In this hands-on lab you will provide mocked responses for your SearchCruises REST API.

Steps

- 1) Open the **Windows Services** panel and double-check that the following services, needed for API Gateway and the native services, are up and running. If a service is not running, start the service.

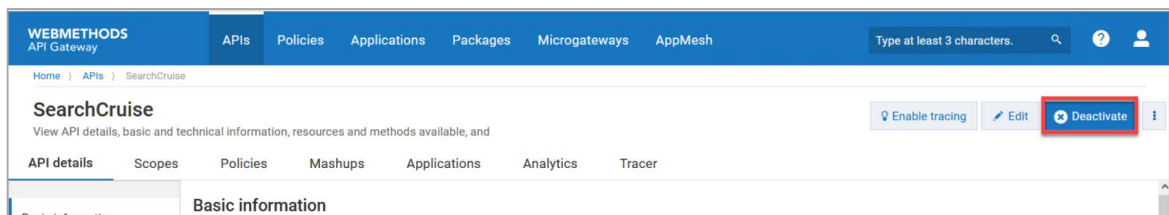
a) **Software AG Integration Server 10.11 (default)**


b) **Software AG Runtime 10.11**

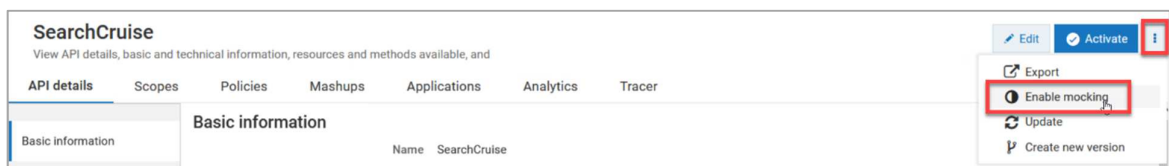
Note: This service is important so that the SAGTours services are available on port 53307.

- 2) In a browser tab, login to **API Gateway** as user **Sumala | manage**.

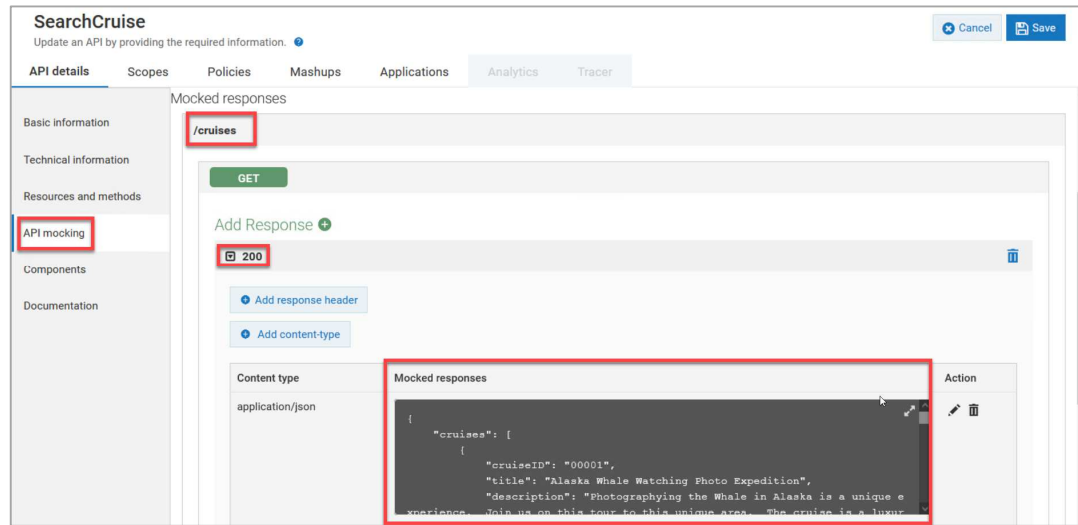
- 3) Within API Gateway, select the API **SearchCruise** and click **Deactivate**. Confirm with **Yes**.



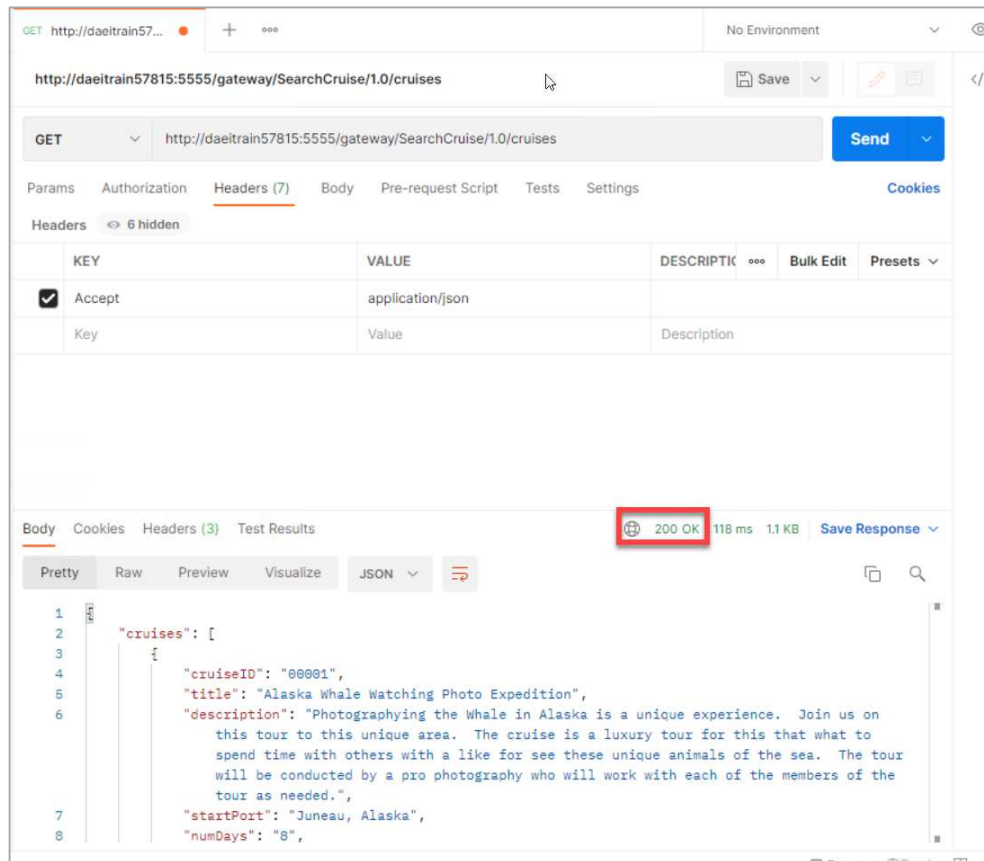
- 4) At the top of the **SearchCruise** page, select **Enable mocking** from the  menu.



- 5) For this API, switch to **Edit** mode. From the left-hand navigation open **API mocking**.
 - a) Within the section **Mocked responses** open resource **/cruises**.
 - b) Review the defined Mocked response for the **GET** method and the response **200**.

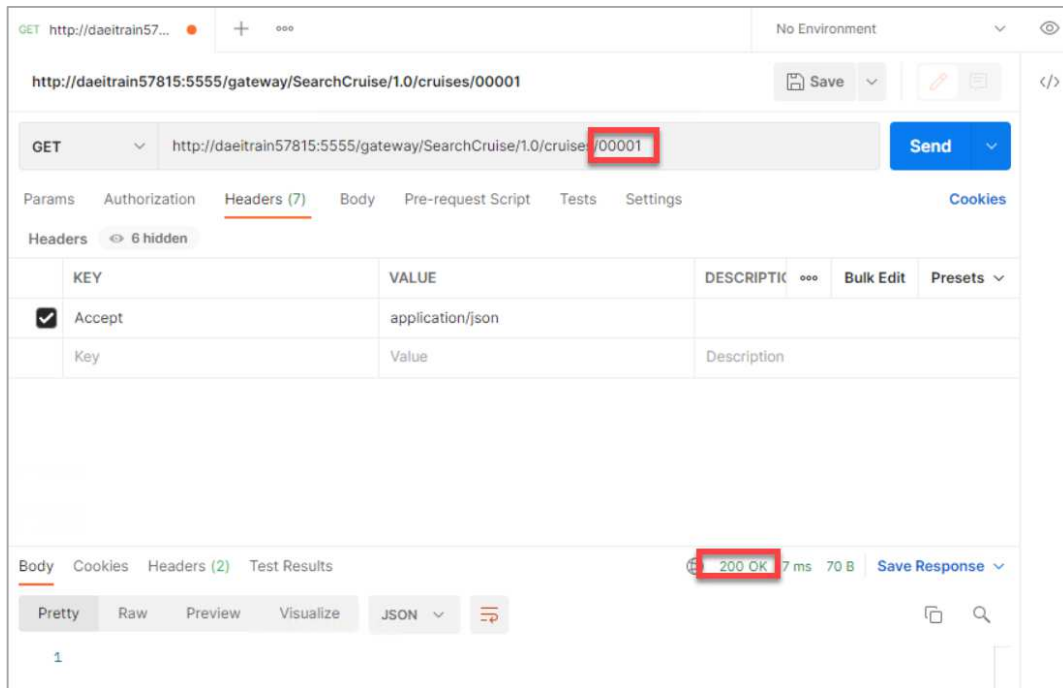


- c) Click **Save** to leave the edit mode. Click **Activate**. Confirm with **Yes**.
- 6) Open **Postman** and rerun the request created in the previous hands-on lab. This time, the mocking response is shown.

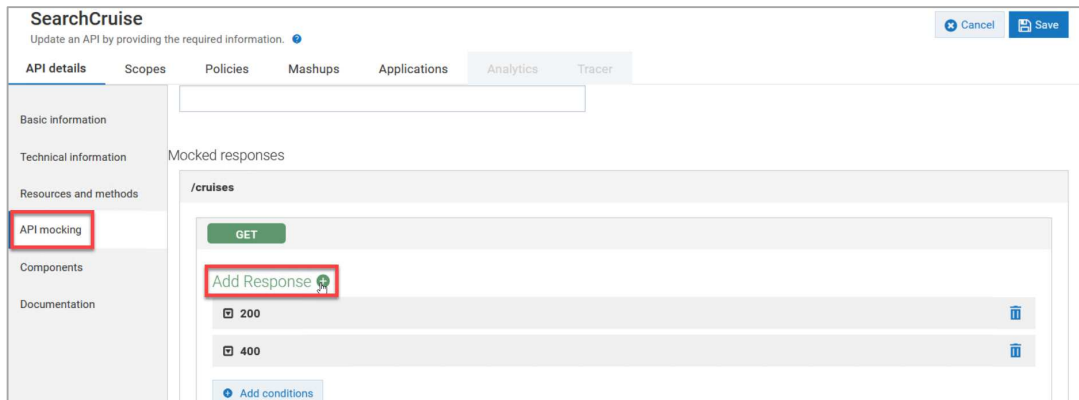


Note: The IP address in the URL depends on your own environment.

- 7) In Postman, adjust the request by appending the cruiseID **/00001** to the URL and run the request again. Response code 200 is returned, but no response body. We haven't provided a mocked response payload for this request type.



- 8) Within API Gateway, switch to **Edit** mode for API **SearchCruise**. Click **Yes**. Navigate to **API mocking**. Within the mocked responses for resource **/cruises** and its **GET** method click **Add Response**.



- Select Status code **201 – Created** and click **Add**.
- Click to expand the status code **201**. This will open the section to provide a mock payload. Click **Add content-type**. Provide the following properties:
 - Content-type: **text/plain**

- ii) Mock payloads: **This is the mocking response for status code 201.**



Mocked responses

/cruises

GET

Add Response

- 200
- 400
- 201

Add response header

Add content-type

Content type: text/plain

Mock payloads: This is the mocking response for status code 201.

Add

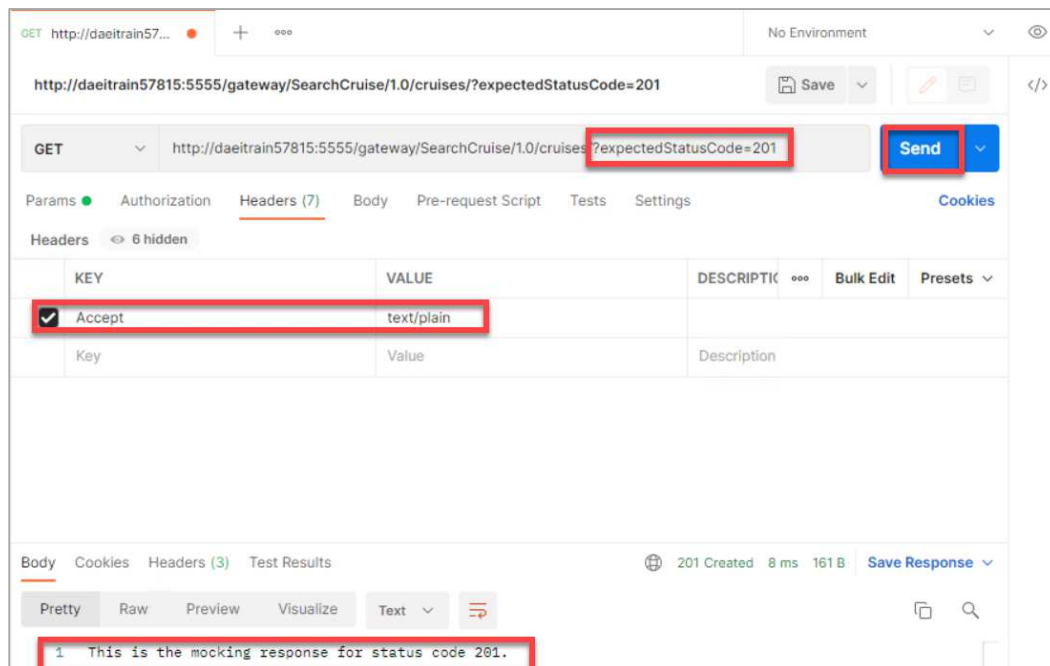
Click the **Add** button next to the Mock payloads field.

- c) **Save** your changes.

- 9) Switch back to **Postman**. Provide the following changes to your request:

- a) Within the URL definition, replace the appendix **/00001** with: **?expectedStatusCode=201**
- b) Change Custom Header **Accept** from **application/json** to **text/plain**.

Rerun the request. The mocked response is shown.



GET http://daeitrain57815:5555/gateway/SearchCruise/1.0/cruises/?expectedStatusCode=201

Save

GET http://daeitrain57815:5555/gateway/SearchCruise/1.0/cruises/?expectedStatusCode=201

Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Headers 6 hidden

KEY	VALUE	DESCRIPTION	Bulk Edit	Presets
✓ Accept	text/plain			
Key	Value	Description		


Body Cookies Headers (3) Test Results

201 Created 8 ms 161 B Save Response

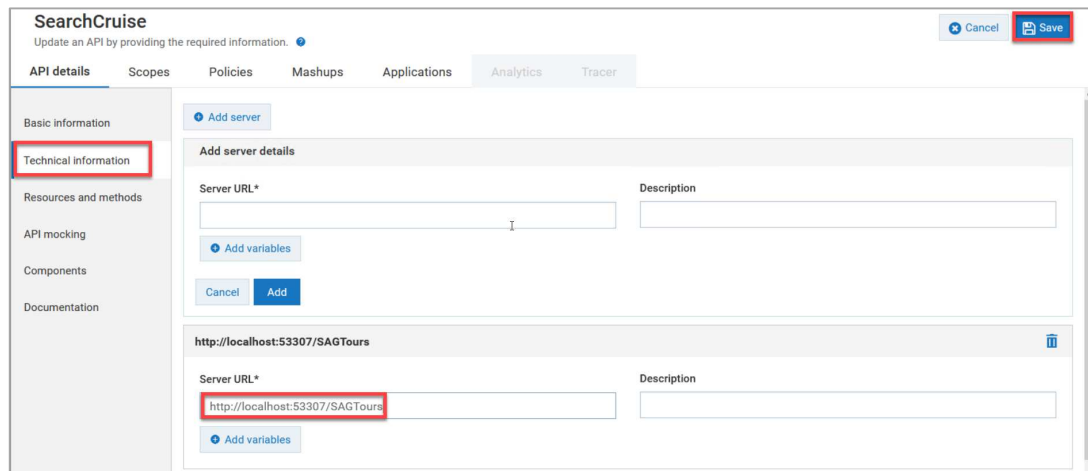
Pretty Raw Preview Visualize Text

1 This is the mocking response for status code 201.

10) Now we want to point to the implementation of the native API and disable the mocking of the API.

- a) Within API Gateway, **deactivate** the API **SearchCruise** and confirm with **Yes**. Disable mocking by clicking **Disable mocking** from the  menu.
- b) Switch over to **Edit** mode and navigate to **Technical information**. Select to expand the existing server definition **http://localhost**. Modify the Server URL:

Server URL: **http://localhost:53307/SAGTours**



- c) Click **Save**.

11) For API **SearchCruise**, select its **Policies** tab. Within **Routing** select the policy action **StraightThroughRouting**. Switch back to **Edit** mode and provide the change concerning the endpoint of the native service in the Endpoint URI property:

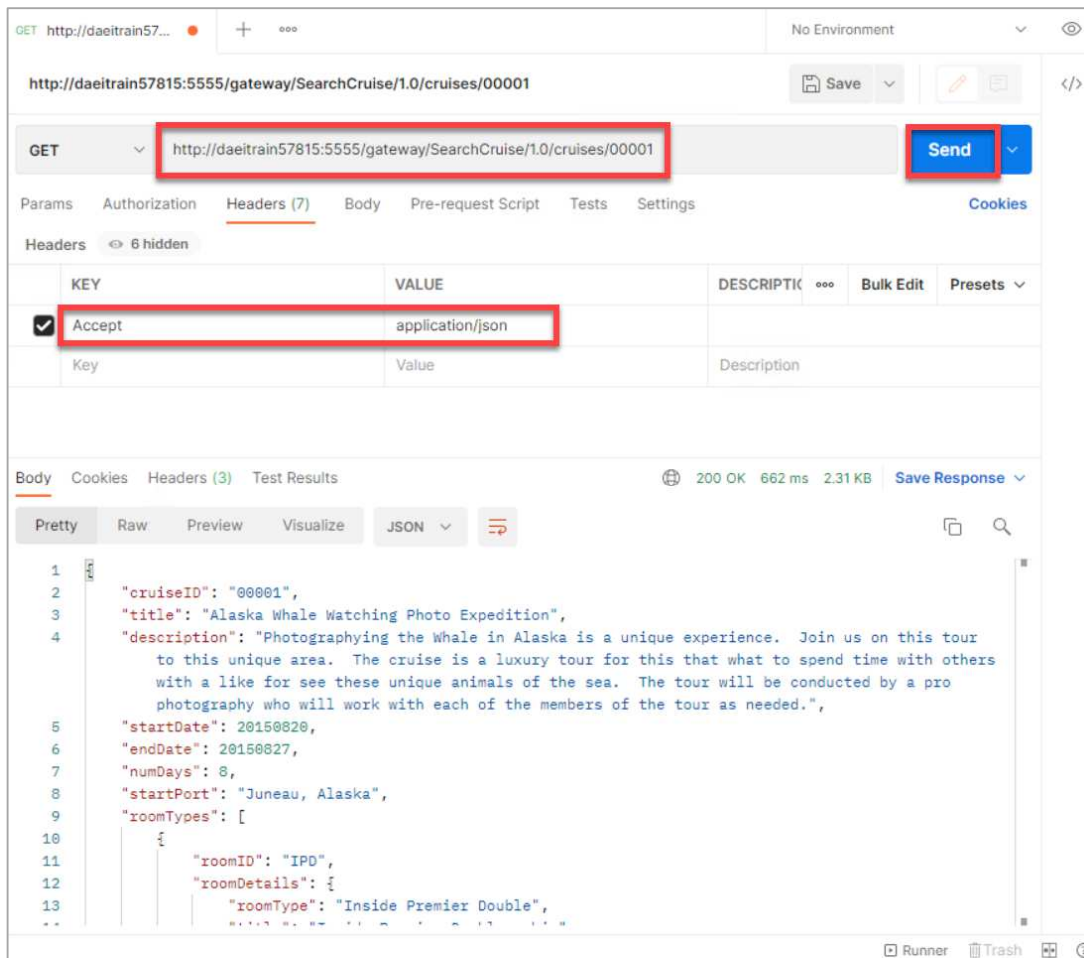
Endpoint URI: **http://localhost:53307/SAGTours/\${sys:resource_path}**

12) **Save** the changes and **activate** the API. Confirm with **Yes**.

13) Switch back to **Postman**. Adjust the request like this:

- a) Within the URL definition, replace the URL appendix **?expectedStatusCode=201** by:
/00001
- b) Change Custom Header **Accept** from **text/plain** to **application/json**.

14) Rerun the request. Verify that the response body returns the requested cruise data.



15) **Log out** from API Gateway.