Hands-on Lab:

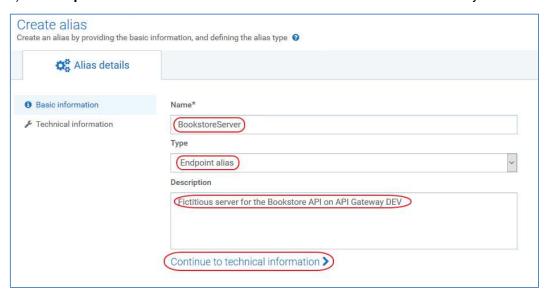
Promote Aliases with Stage-specific Values

Objectives

In this hands-on lab, you will promote an API which is using an endpoint alias in its routing policy. You will configure different alias values for **API Gateway Dev Stage** and **API Gateway Prod Stage**.

Steps

- 1. Open Windows Services UI to double check that the following services, needed for API Gateway and the native services, are up and running. If service is not running, start the service.
 - a) Software AG Dev Stage Integration Server 10.5
 - b) Software AG Prod Stage Integration Server 10.5
 - c) Software AG Internal Integration Server 10.5
- Open the Windows Explorer and navigate to: C:\Training\E456C04-75E\setup
- 3. Right-click file Restore_Initial_Backup_PROD.bat and select Run as administrator. This will restore the initial (empty) backup of the API Gateway Prod Stage database created in hands-on lab Prepare Bookstore API on API Gateway.
- 4. Logon to API Gateway Dev as user Administrator/manage.
- 5. In the User Menu, navigate to **Aliases**.
- 6. Click on **Create alias**. Provide the following properties:
 - a) Name: BookstoreServer
 - b) **Type**: Endpoint alias
 - c) **Description**: Fictitious server for the Bookstore API on API Gateway DEV



Click Continue to technical information.

7. Provide the following properties:

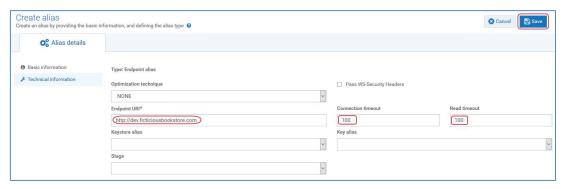
a) Optimization technique: NONE

b) Pass WS-Security Headers: - leave unchecked -

c) **Endpoint URI**: http://dev.ficticiousbookstore.com

d) Connection timeout: 100e) Read timeout: 100

f) Keystore alias: - leave blank g) Key alias: - leave blank h) Stage: - leave blank -



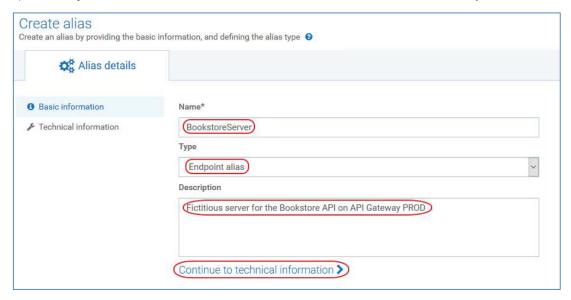
Click Save. This alias will be used at run-time on the API Gateway Dev.

8. Click on **Create alias**. Provide the following properties:

a) **Name:** BookstoreServer (yes, the same name!)

b) **Type**: Endpoint alias

c) **Description**: Fictitious server for the Bookstore API on API Gateway PROD



Click Continue to technical information.

9. Provide the following properties:

a) Optimization technique: NONE

b) Pass WS-Security Headers: Leave unchecked

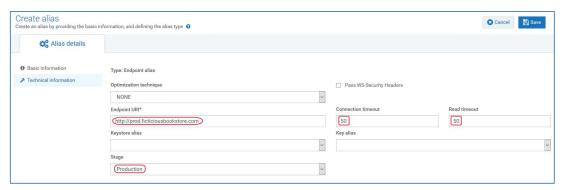
c) Endpoint URI: http://prod.ficticiousbookstore.com

d) Connection timeout: 50

e) Read timeout: 50

f) Keystore alias: Leave blank g) Key alias: Leave blank

h) Stage: Production



Click Save. This alias will be used at run-time on the API Gateway Prod.



- 10. Navigate to **APIs**. From the list of APIs select **Bookstore** and switch to **Edit** mode.
- 11. Navigate to **Policies > Routing**. In the configuration of the **Straight Through Routing** policy, adjust the following property:

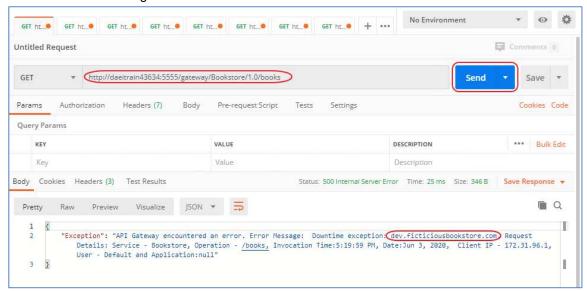
Endpoint URI: \${BookstoreServer}/rest/bookstore/\${sys:resource_path}



Click Save.

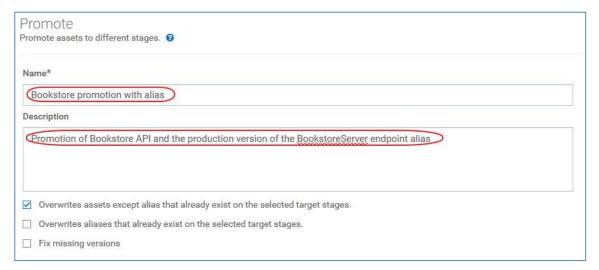
12. Navigate back to **API details** and copy the gateway endpoint.

13. Open Postman REST client and paste the URL into the REST client and append "/books" to the URL; then click Send. This will invoke the Bookstore API on the API Gateway Dev Stage. As the endpoint configured in the BookstoreServer alias is invalid, the API Gateway will return an error message.

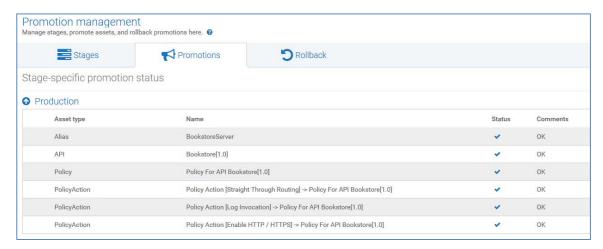


Inspect the error message and check that the **API Gateway Dev** tried to forward the request to **dev.ficticiousbookstore.com**.

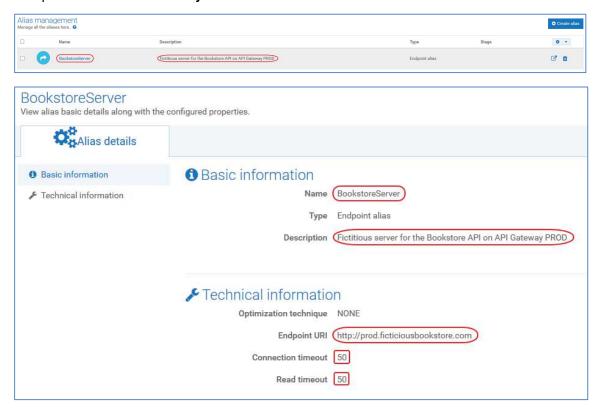
- 14. Back in API Gateway Dev, in the User Menu, navigate to Promotion Management.
- 15. In the Promotions tab, click **Promote**.
- 16. Check the checkbox for the **APIs** search option, and then select the **Bookstore** API for promotion. Click **Next**.
- 17. Click **Next**. Select the **Production** stage as target stage for the promotion. Click **Next**.
- 18. Provide the following properties:
 - a) Name: Bookstore promotion with alias
 - b) **Description:** Promotion of Bookstore API and the production version of the BookstoreServer endpoint alias



Click Promote.

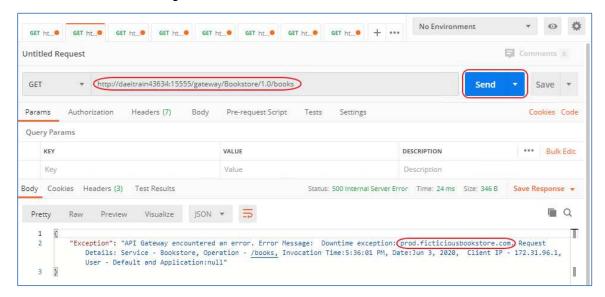


- 19. In a new private browser window, logon to **API Gateway Prod** as user **Administrator/manage**.
- 20. Navigate to **Aliases** and check that the right version of the **BookstoreServer** endpoint alias was promoted to **API Gateway Prod**.



21. Open the **Bookstore** API and copy the gateway endpoint into the Windows clipboard.

22. Open **Postman** REST client and paste the URL into the REST client and append "/books" to the URL; then click **Send**. This will invoke the Bookstore API on the **API Gateway Prod Stage**. As the endpoint configured in the BookstoreServer alias is invalid, the API Gateway will return an error message.



Inspect the error message and check that the **API Gateway Prod** tried to forward the request to **prod.ficticiousbookstore.com**.