

Hands-on Lab:

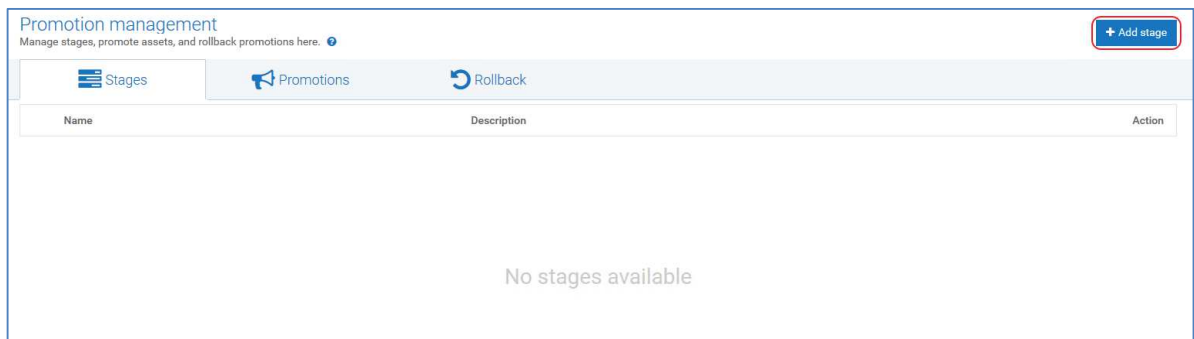
Apply API Gateway Promotion Management

Objectives

In this hands-on lab, you will promote the **Bookstore** API and the **Bookstore_ApiKey** API from the **API Gateway Dev Stage** to the **API Gateway Prod Stage** using the **API Gateway Promotion Management** – including the **BookstoreApp_ApiKey** application.

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**
2. 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 **Promotion Management**.
6. In the **Stages** tab, click **Add stage**.



7. Provide the following property:

Name: Production

The screenshot shows the 'Create stage' form with the 'Basic information' tab selected. The 'Name*' field contains the text 'Production' and is highlighted with a red box. The 'Description' field is empty. The 'Technical information' tab is visible but not selected.

8. Click on **Technical Information**.

9. Provide the following properties:

- a) **Stage URL:** http://localhost:15555
- b) **Username:** Administrator
- c) **Password:** manage
- d) **Keystore alias:** < leave blank >
- e) **Key alias (signing):** < leave blank >

The screenshot shows the 'Create stage' form with the 'Technical information' tab selected. The 'Stage URL*' field contains 'http://localhost:15555', 'Username*' contains 'Administrator', and 'Password*' contains 'manage'. All three fields are highlighted with red boxes. The 'Keystore alias' and 'Key alias (signing)' fields are empty dropdown menus. 'Cancel' and 'Save' buttons are in the top right corner, with 'Save' highlighted by a red box.

Click **Save**.

10. In the **Promotions** tab, click **Promote**.

The screenshot shows the 'Promotion management' page with the 'Promotions' tab selected. A '+ Promote' button is in the top right corner, highlighted with a red box. Below the tabs is a table with columns: Name, Description, Promoted by, Promotion time, Status, and Action. The table is empty, and the text 'No promotion history available' is displayed in the center.

11. Check the checkbox for the **APIs** search option, and then select the APIs **Bookstore** and **Bookstore_ApiKey** for promotion.

Promotion management
Manage stages, promote assets, and rollback promotions here.

Stages Promotions Rollback

Search
This page displays the advanced search information. Search by specific type or by keywords.

Select all Next

Search by keyword

Search by type

- ☒ Select all
- ☐ Applications
- ☐ Aliases
- ☐ Packages
- ☐ Plans
- ☐ Threat protection
- ☐ Denial of service
- ☐ Global policies
- ☐ Policy templates
- ☐ Users
- ☐ Groups
- ☐ Teams

APIs

4 match(es) found
Showing 4 results

- ☒ REST Bookstore (Version: 1.0)
This service is a RESTful service which deals with resources of type Book. You can use GET requests ...
- ☒ REST Bookstore_ApiKey (Version: 1.0)
This service is a RESTful service which deals with resources of type Book. You can use GET requests ...
- ☐ REST Bookstore_BasicAuth (Version: 1.0)
This service is a RESTful service which deals with resources of type Book. You can use GET requests ...
- ☐ REST Bookstore_OAuth2 (Version: 1.0)
This service is a RESTful service which deals with resources of type Book. You can use GET requests ...

Click **Next**.

12. Select the Application **BookstoreApp_ApiKey** for promotion.

Promotion management
Manage stages, promote assets, and rollback promotions here.

Stages Promotions Rollback

Assets and dependencies
Select the assets for stage promotion.

Select all Back Next

APIs

- ☒ REST Bookstore (Version: 1.0)
This service is a RESTful service which deals with resources of type Book. You can use GET requests ...
- ☒ REST Bookstore_ApiKey (Version: 1.0)
This service is a RESTful service which deals with resources of type Book. You can use GET requests ...

Applications

- ☒ APP BookstoreApp_ApiKey

Click **Next**.

13. Select the **Production** stage as target stage for the promotion.

Promotion management
Manage stages, promote assets, and rollback promotions here.

Stages Promotions Rollback

Stages
Select stages to promote assets.

Back Next

Name	Description
<input checked="" type="checkbox"/> Production	

Click **Next**.

14. Provide the following properties:

- a) **Name:** Bookstore and Bookstore_ApiKey promotion
- b) **Description:** Promotion of Bookstore and Bookstore_ApiKey APIs incl. BookstoreApp_ApiKey application

Promotion management
Manage stages, promote assets, and rollback promotions here.

Stages Promotions Rollback

Promote
Promote assets to different stages.

Back Promote

Name*

Bookstore and Bookstore_ApiKey promotion

Description

Promotion of Bookstore and Bookstore_ApiKey APIs incl. BookstoreApp_ApiKey application

☒ Overwrites assets except alias that already exist on the selected target stages.
☐ Overwrites aliases that already exist on the selected target stages.
☐ Fix missing versions

Click **Promote**.

Promotion management
Manage stages, promote assets, and rollback promotions here.

Stages Promotions Rollback

Stage-specific promotion status

Production

Asset type	Name	Status	Comments
Application	BookstoreApp_ApiKey	✓	OK
API	Bookstore_ApiKey[1.0]	✓	OK
API	Bookstore[1.0]	✓	OK
PolicyAction	Policy Action [Identify & Authorize Application] -> Policy For API Bookstore_ApiKey [1.0]	✓	OK
PolicyAction	Policy Action [Log Invocation] -> Policy For API Bookstore_ApiKey[1.0]	✓	OK
PolicyAction	Policy Action [Straight Through Routing] -> Policy For API Bookstore[1.0]	✓	OK
Policy	Policy For API Bookstore_ApiKey[1.0]	✓	OK
PolicyAction	Policy Action [Straight Through Routing] -> Policy For API Bookstore_ApiKey[1.0]	✓	OK
PolicyAction	Policy Action [Log Invocation] -> Policy For API Bookstore[1.0]	✓	OK
PolicyAction	Policy Action [Enable HTTP / HTTPS] -> Policy For API Bookstore[1.0]	✓	OK
Policy	Policy For API Bookstore[1.0]	✓	OK
PolicyAction	Policy Action [Enable HTTP / HTTPS] -> Policy For API Bookstore_ApiKey[1.0]	✓	OK
PassmanData	API_ACCESS_KEYa528b8c2-a19b-46d3-879f-2686ed863708	✓	OK

15. In a new private browser window, logon to **API Gateway Prod** as user **Administrator/manage**.

16. Navigate to **APIs** in the header section.

17. Click on **Bookstore** to inspect the promoted **Bookstore** API.

18. Navigate to **Policies > Traffic Monitoring** and check that the **Log Invocation** policy was also promoted correctly.

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19. Navigate back to **API details** and copy the gateway endpoint.
 20. 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**.
 21. Back in **API Gateway Prod**, navigate to **APIs** in the header section.
 22. Click on **Bookstore_ApiKey** to inspect the promoted **Bookstore_ApiKey** API.
 23. Navigate to **Policies > Identify & Access** and check that the **Identify & Authorize Application** policy was also promoted correctly.
 24. Navigate to **Applications** and check that the **BookstoreApp_ApiKey** application was also promoted correctly. Copy the **API access key** into the Windows clipboard.
 25. Go back to **Postman REST client** and configure a GET request against the **Bookstore_ApiKey** API on the **API Gateway Prod Stage** using the **API access key** from the Windows clipboard.
 26. Run the request pressing the **Send** button.