

Informatica® INFAConnect July 2024

Introducing INFAConnect

Informatica INFAConnect Introducing INFAConnect July 2024

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Preface

Read Introducing INFAConnect to learn how to create, test, and deploy a connector in the sandbox and production environments for different cloud services.

Informatica Resources

Informatica provides you with a range of product resources through the Informatica Network and other online portals. Use the resources to get the most from your Informatica products and solutions and to learn from other Informatica users and subject matter experts.

Informatica Documentation

Use the Informatica Documentation Portal to explore an extensive library of documentation for current and recent product releases. To explore the Documentation Portal, visit https://docs.informatica.com.

If you have questions, comments, or ideas about the product documentation, contact the Informatica Documentation team at infa_documentation@informatica.com.

Informatica Intelligent Cloud Services web site

You can access the Informatica Intelligent Cloud Services web site at http://www.informatica.com/cloud. This site contains information about Informatica Cloud integration services.

Informatica Intelligent Cloud Services Communities

Use the Informatica Intelligent Cloud Services Community to discuss and resolve technical issues. You can also find technical tips, documentation updates, and answers to frequently asked questions.

Access the Informatica Intelligent Cloud Services Community at:

 $\underline{https://network.informatica.com/community/informatica-network/products/cloud-integration}$

Developers can learn more and share tips at the Cloud Developer community:

 $\underline{\text{https://network.informatica.com/community/informatica-network/products/cloud-integration/cloud-developers}$

Informatica Intelligent Cloud Services Marketplace

Visit the Informatica Marketplace to try and buy Data Integration Connectors, templates, and mapplets:

https://marketplace.informatica.com/

Data Integration connector documentation

You can access documentation for Data Integration Connectors at the Documentation Portal. To explore the Documentation Portal, visit https://docs.informatica.com.

Informatica Knowledge Base

Use the Informatica Knowledge Base to find product resources such as how-to articles, best practices, video tutorials, and answers to frequently asked questions.

To search the Knowledge Base, visit https://search.informatica.com. If you have questions, comments, or ideas about the Knowledge Base, contact the Informatica Knowledge Base team at KB_Feedback@informatica.com.

Informatica Intelligent Cloud Services Trust Center

The Informatica Intelligent Cloud Services Trust Center provides information about Informatica security policies and real-time system availability.

You can access the trust center at https://www.informatica.com/trust-center.html.

Subscribe to the Informatica Intelligent Cloud Services Trust Center to receive upgrade, maintenance, and incident notifications. The Informatica Intelligent Cloud Services Status page displays the production status of all the Informatica cloud products. All maintenance updates are posted to this page, and during an outage, it will have the most current information. To ensure you are notified of updates and outages, you can subscribe to receive updates for a single component or all Informatica Intelligent Cloud Services components. Subscribing to all components is the best way to be certain you never miss an update.

To subscribe, on the <u>Informatica Intelligent Cloud Services Status</u> page, click **SUBSCRIBE TO UPDATES**. You can choose to receive notifications sent as emails, SMS text messages, webhooks, RSS feeds, or any combination of the four.

Informatica Global Customer Support

You can contact a Global Support Center through the Informatica Network or by telephone.

To find online support resources on the Informatica Network, click **Contact Support** in the Informatica Intelligent Cloud Services Help menu to go to the **Cloud Support** page. The **Cloud Support** page includes system status information and community discussions. Log in to Informatica Network and click **Need Help** to find additional resources and to contact Informatica Global Customer Support through email.

The telephone numbers for Informatica Global Customer Support are available from the Informatica web site at https://www.informatica.com/services-and-training/support-services/contact-us.html.

CHAPTER 1

Welcome to INFAConnect

Welcome to INFAConnect, a service that empowers you to develop and deploy connectors for different cloud services to connect to cloud applications and databases.

INFAConnect provides a self-service interface that radically simplifies how you build and customize connectors to meet your specific needs.

You can quickly build a connector in a matter of few clicks! Whether you want to find existing connectors, build a connector, or deploy a connector for use in the sandbox and production, INFAConnect simplifies the tasks for you.

Note: INFAConnect is available for preview. Preview functionality is supported for evaluation purposes but is unwarranted and is not supported in production environments or any environment that you plan to push to production. Informatica intends to include the preview functionality in an upcoming release for production use, but might choose not to in accordance with changing market or technical circumstances. Note that if you are working on a preview POD, all data is excluded from SOC 2 compliance coverage. For more information, contact the INFAConnect team at DLInfaConnect@informatica.com.

Let's get started!

Get started using INFAConnect to create, test, and deploy a connector.

To create a connector, follow these quick steps:

- 1. Search if the connector is already available. If not, go ahead and create a new connector.
- 2. Register and develop connectors for different cloud services using the SDK or a Swagger file.
- Deploy the connector to the sandbox environment for testing.
- 4. Promote the connector for deployment to the production environment.

You can also:

- View the status of the deployment process for your connector.
- View and manage the connectors deployed in your organization in the sandbox and production environments.

For any assistance, reach out to the INFAConnect team at DLInfaConnect@informatica.com.

User roles

Roles determine the tasks that users can perform in INFAConnect.

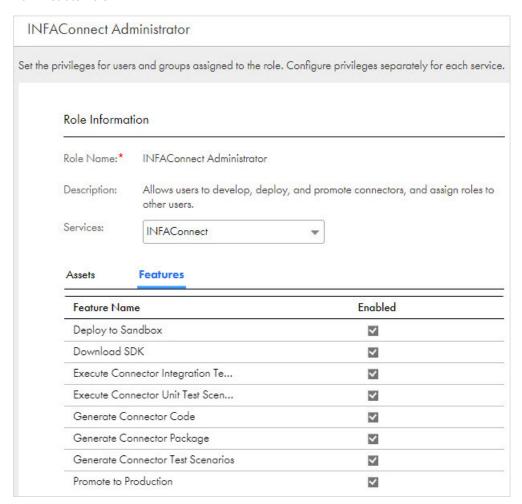
Before you can use INFAConnect, as an organization administrator, you must assign relevant roles to the users.

INFAConnect Administrator

Users with the INFAConnect Administrator have the following feature privileges:

- · Download the SDK.
- · Generate and run test scenarios.
- · Generate a connector package.
- Deploy connectors to sandbox and production environments.
- · Assign role to other users.

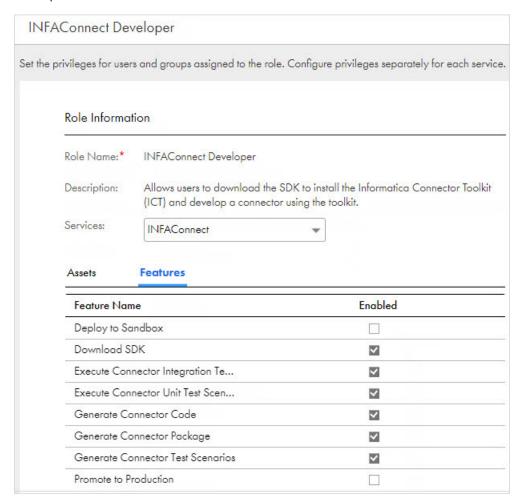
The following image shows an example of the default feature privileges assigned to the INFAConnect Administrator role:



INFAConnect Developer

Users with the INFAConnect Developer role can download the SDK to install the Informatica Connector Toolkit, generate and run test scenarios, and generate a connector package using the toolkit.

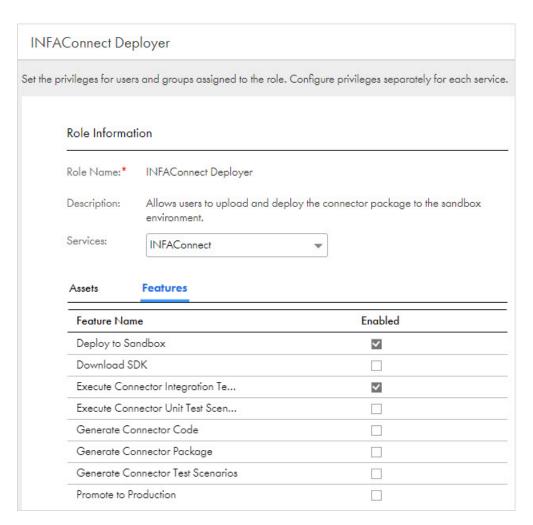
The following image shows an example of the default feature privileges assigned to the INFAConnect Developer role:



INFAConnect Deployer

Users with the INFAConnect Deployer role can run the integration test scenarios and deploy a connector to the sandbox environment.

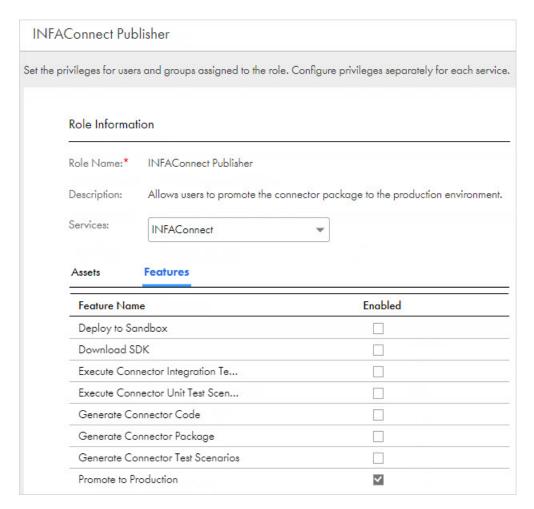
The following image shows an example of the default feature privileges assigned to the INFAConnect Deployer role:



INFAConnect Publisher

Users with the INFAConnect Publisher role can promote a connector package for deployment to the production environment.

The following image shows an example of the default feature privileges assigned to the INFAConnect Publisher role:



For more information on how to assign roles to a user, see "Assign roles" on page 10.

Assign roles

As an organization administrator or INFAConnect administrator, when you create or edit a user, you can assign roles to the user.

Perform the following steps to assign roles:

- 1. On the My Services page, select **Administrator**.
- 2. In Administrator, select Users.
- 3. Click the user name to edit a user or click **Add User** to create a new user.
- 4. In the Assigned User Groups and Roles section, select the roles that you want to assign to the user.

nabled	Group Name	Enabled	Role Name
	No data to display		Dataloader Admin
			Deployer
			Designer
			INFAConnect Administrator
			INFAConnect Deployer
			INFAConnect Developer
			INFAConnect Publisher

5. Click Save.

For more information on how to create or edit a user, see <u>Creating a user</u>.

CHAPTER 2

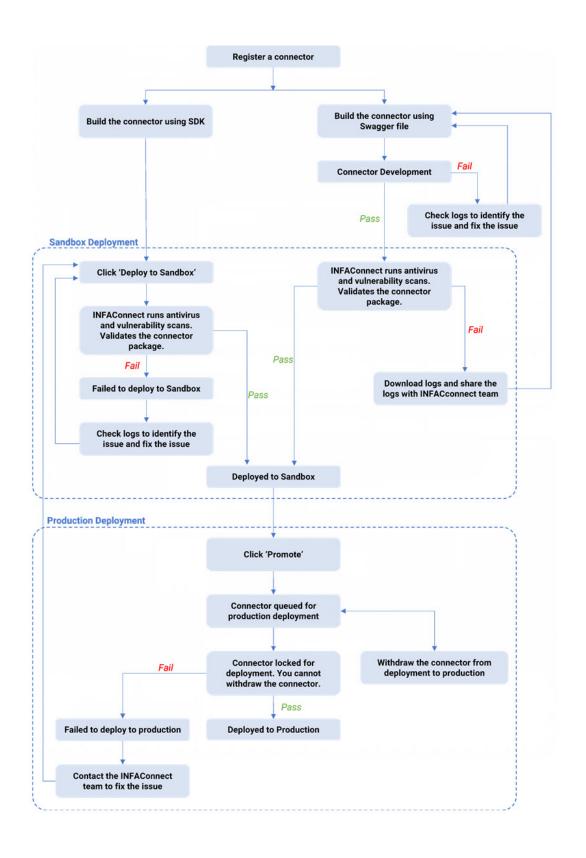
Create a connector

Use INFAConnect to create, test, and deploy connectors of your choice.

To create and use a new connector, register the connector, build the connector using the SDK or a Swagger file, and then deploy the connector.

The deployment process includes sandbox deployment and production deployment. After testing the connector in sandbox, you can promote the connector for production deployment.

The following flowchart explains the deployment process for sandbox and production:

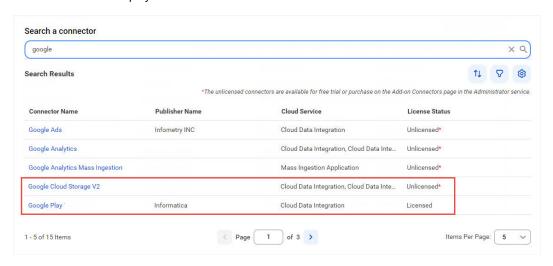


Step 1. Search a connector

The connector you plan to develop might already be available for use. Search from a list of available connectors developed by Informatica and its partners.

Specify the connector name in the search bar and press enter.

The search results display the licensed and unlicensed connectors.



The **Licensed** connectors are those that are already available in your organization and ready to be consumed. The **Unlicensed** connectors are available for free trial or purchase on the **Add-on Connectors** page in Administrator.

If the connector is not available, you can go ahead and create a new connector.

Step 2. Build a connector

Register the new connector and then use the SDK or a Swagger file to build the connector for use in different cloud services.

Before you build a connector, register the new connector to reserve the connector name with Informatica.

Use the following methods to build a connector:

Use SDK

Download the SDK to install the Informatica Connector Toolkit on your machine to build a connector that uses JDBC drivers, third-party libraries, or REST APIs.

The SDK contains the installer files for the toolkit. The Informatica Connector Toolkit is an Eclipse plugin that adds the wizards and menus to the Eclipse IDE to develop, test, and deploy a connector.

You can build a connector using the toolkit and then deploy the connector in sandbox and production environments using INFAConnect.

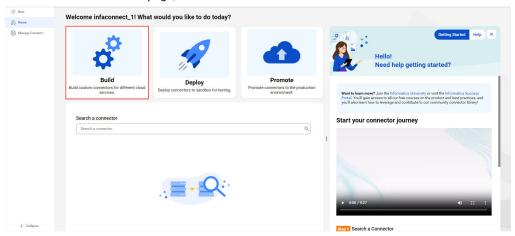
Use Swagger file

Use a Swagger JSON or an OpenAPI JSON file to build a connector in INFAConnect.

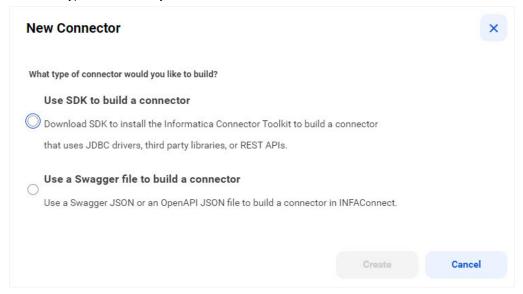
Register a connector

Register a new connector to reserve the connector name with Informatica.

1. On the INFAConnect home page, click Build.



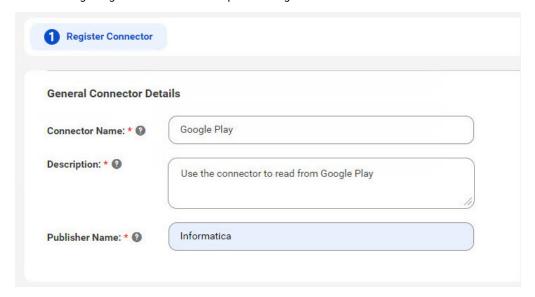
2. Select the type of connector you want to build.



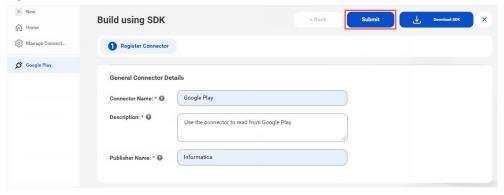
3. On the **Register Connector** tab, specify the following details:

Property	Description
Connector Name	Name of the connector. Each connector name must be unique. The connector name can contain alphanumeric characters, spaces, and underscore (_). Maximum length is 100 characters.
Description	Description of the connector. Maximum length is 4000 characters.
Publisher Name	Name of the publisher who owns the connector. The publisher name can contain alphanumeric characters, spaces, ampersand (&), and underscore (_). Maximum length is 100 characters.

The following image shows the fields required to register a connector:



- 4. To proceed, perform one of the following actions based on the method you select to build the connector:
 - If you select the SDK method, click Submit.



• If you select the Swagger file method, click Next.



Build the connector using SDK

Install the Informatica Connector Toolkit and the Eclipse IDE package to build a connector.

Download the SDK to install the Informatica Connector Toolkit. The SDK contains the installer files for the Informatica Connector Toolkit.

When you run the Informatica Connector Toolkit installer, the installer installs the Informatica Connector Toolkit Eclipse plug-in in the Eclipse IDE.

You can also upgrade an existing SDK if you have already installed the Informatica Connector Toolkit earlier.

After you register a connector, click Download SDK.



For more information about the Eclipse versions that you can use with the Informatica Connector Toolkit, see Eclipse versions.

For more information about how to install the toolkit, see<u>install the Informatica Connector Toolkit</u>

Use Informatica Connector Toolkit

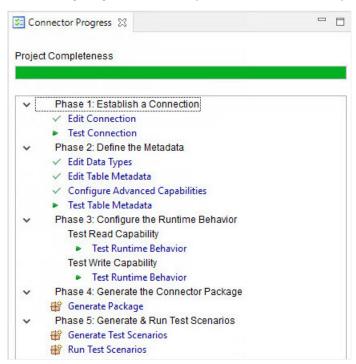
Open the Eclipse IDE and use the Informatica Connector Toolkit to build a connector.

The process of building a connector consists of five phases.

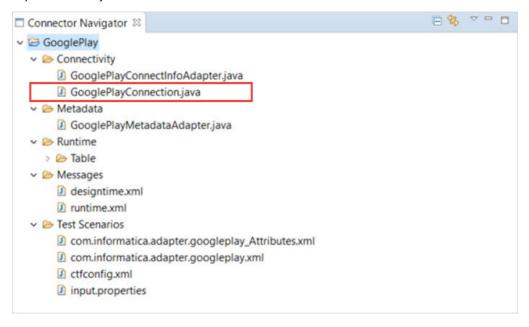
1. Establish a connection.

Define the connection attributes, create connection pages, and add third-party libraries required to connect to the data source.

The following image shows the five phases of connector development:



While building a connector, the toolkit autogenerates code for each phase based on the connector capabilities that you choose.



2. Define the connector metadata.

Define the data types, object metadata, and the connector capabilities.

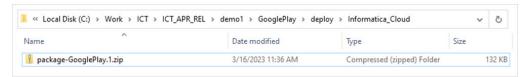
3. Configure the runtime behavior of the connector.

Configure the runtime behavior that defines how the connector performs operations, such as, establish a connection, close a connection, prepare SQL statements, and run SQL statements.

You can set up the runtime implementation for each object.

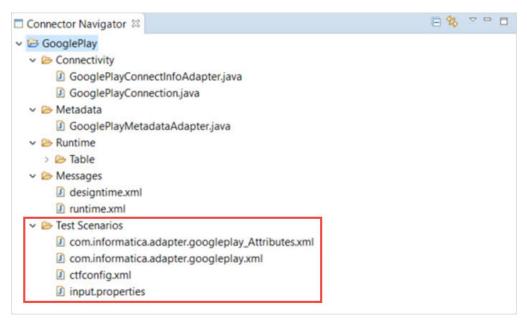
4. Generate the connector package.

After you develop the connector, the toolkit bundles the connector artifacts and generates the connector package.



5. Generate and run test scenarios.

Use the toolkit to autogenerate test scenarios to quickly perform unit and integration testing for your connector.



To understand the step-by-step process of building a connector, see Build a connector.

Build the connector using Swagger file

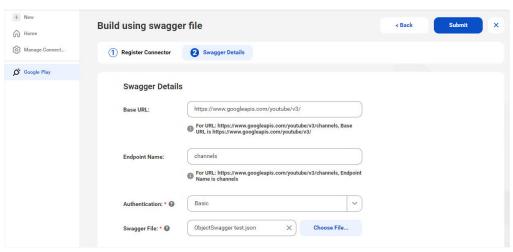
After you register a connector, specify the Swagger details to build a connector.

Use a Swagger JSON or an OpenAPI JSON file to build a connector in INFAConnect.

1. In the Swagger Details tab, specify the following details:

Property	Description	
Base URL	Base URL of the application. For example, for the endpoint URL https://www.googleapis.com/youtube/v3/channels, the base URL is https://www.googleapis.com/youtube/v3/.	
Endpoint Name	Name of the endpoint in the REST API. For example, for the endpoint URL https://www.googleapis.com/youtube/v3/channels, endpoint name is channels.	
Authentication	Authentication type to connect to the application. Select one of the following authentication types: - Basic. Uses the user name and password for authentication. - OAuth 1.0. Uses the OAuth 1.0 open standard protocol to authorize access to user resource without exposing the user's credentials. - OAuth 2.0. Uses the OAuth 2.0 open standard protocol to authorize access to user resource without exposing the user's credentials. - Token. Uses a token to authenticate and validate a user for secure access. - API Key. Uses a unique API key for each user to authenticate requests. - No Authentication. Does not require authentication.	
Swagger File	Swagger JSON or an OpenAPI JSON file that defines the structure, operations, parameters, and responses of an API.	

The following image shows the Swagger details required to build a connector:



2. Click Submit.

The connector is submitted for deployment to sandbox. You don't need to manually submit the connector for deployment to sandbox.

Step 3. Deploy a connector to sandbox

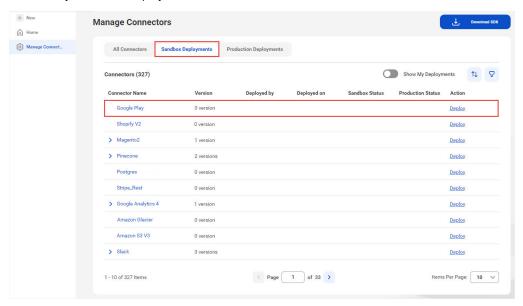
After you build a connector using SDK, add the connector package, and deploy the connector to the sandbox environment for testing.

During the deployment process, INFAConnect conducts an antivirus scan on the connector package, validates the structure of the package, and performs a vulnerability scan.

1. On the INFAConnect home page, click Deploy.



Alternatively, on the **Manage Connectors** page, click **Sandbox Deployments**, and then click **Deploy** for the connector you want to deploy to sandbox.

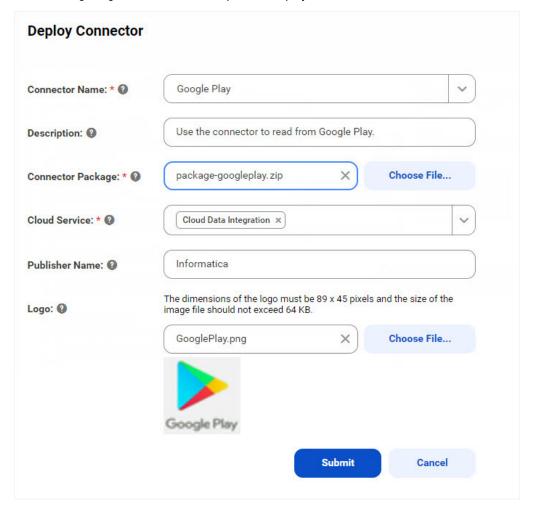


2. In the **Deploy Connector** window, specify the following details:

Property	Description
Connector Name	Name of the connector. Select the connector that you want to deploy.
Description	Description of the connector. Maximum length is 4000 characters.

Property	Description	
Connector Package	The connector package generated by Informatica Connector Toolkit. Upload the connector package zip file.	
Cloud Service	The cloud service category to publish the developed connector.	
Publisher Name	Name of the publisher who owns the connector.	
	The publisher name can contain alphanumeric characters, spaces, ampersand (&), and underscore (_).	
	Maximum length is 100 characters.	
Logo	The image file that contains the logo of the connector.	
	The file must be in PNG or JPEG format and the file size must not exceed 64 KB. The dimensions of the logo must be 89 x 45 pixels.	

The following image shows the fields required to deploy a connector to sandbox:



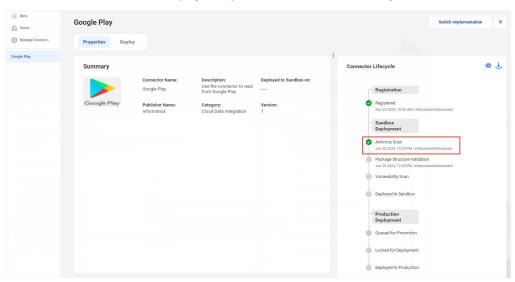
3. Click Submit.

4. When the connector is submitted for deployment, click View the status to view the status of sandbox deployment.



The connector details are displayed.

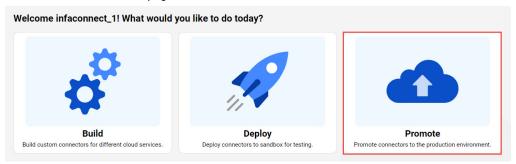
You can view the status of the deployment process and also download logs.



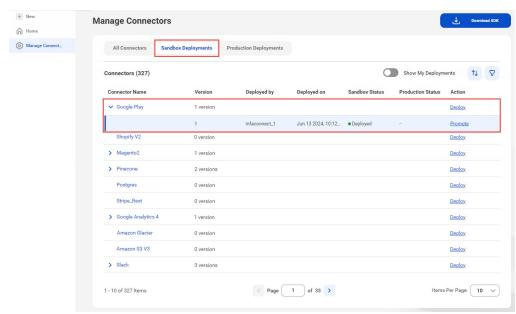
Step 4. Promote a connector to production

After you test a connector in the sandbox environment, you can promote the connector for deployment in the production environment.

1. On the INFAConnect home page, click **Promote**.



Alternatively, go to the Manage Connectors page, and then click Sandbox Deployments.



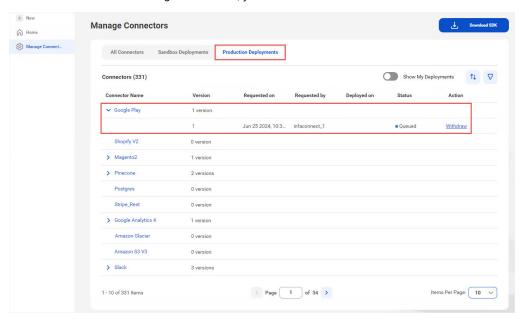
2. Click **Promote** for the connector you want to promote to production.

A request is sent to Informatica to make the connector available in the production environment.

After you click **Promote**, the connector status reflects that it is queued for deployment to the production environment.

The status of production deployment can be viewed in both the **Sandbox Deployments** and **Production Deployments** tabs.

If the status of a connector is Queued, you can withdraw the connector from deployment to production if needed. After the status changes to Locked, you cannot withdraw the connector.



If you need any assistance after the status changes to Locked, reach out to the INFAConnect team at DLInfaConnect@informatica.com.

Switch the connector type

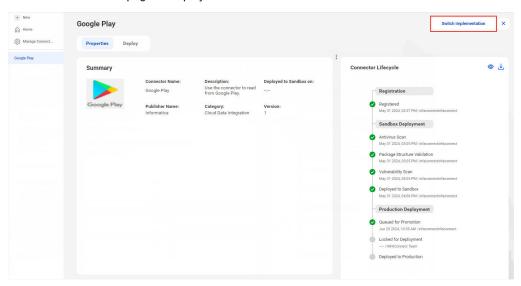
After you build a connector, you can switch the connector type. You can switch the connector type between SDK to Swagger file.

SDK to Swagger file

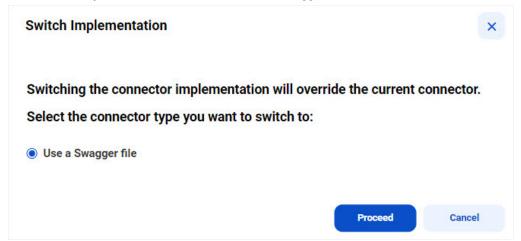
Specify the Swagger details and upload a swagger file to switch the connector type from SDK to Swagger file.

- 1. Go to Manage Connectors page.
- 2. On the All Connectors tab, click the connector name.

The Connector details page is displayed.



- 3. Click Switch Implementation.
- 4. In the Switch Implementation window, select Use a Swagger file.



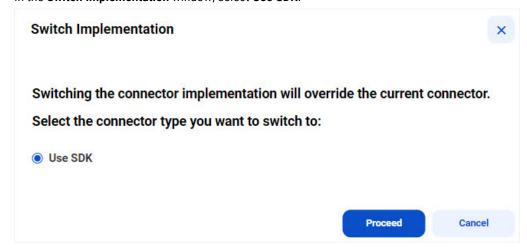
- 5. Click Proceed.
- 6. Go to Manage Connectors page and click the ellipsis button for your connector.
- 7. Click Edit Connector.
- 8. Enter the Swagger details for the connector.
- Click Submit.

Swagger file to SDK

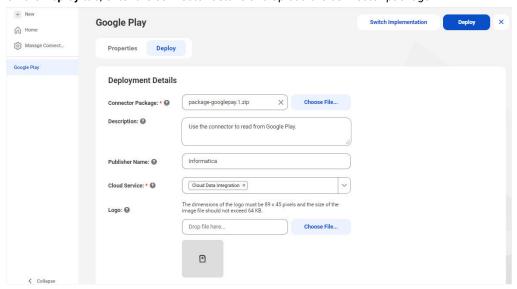
Specify the connector details and upload the connector package to switch the connector type from Swagger file to SDK.

- Go to Manage Connectors page.
- 2. On the **All Connectors** tab, click the connector name. The Connector details page is displayed.
- 3. Click Switch Implementation.

4. In the Switch Implementation window, select Use SDK.



- Click Proceed.
- 6. On the **Deploy** tab, enter the connector details and upload the connector package.



7. Click Deploy.

When the connector is deployed successfully, click View the status.

The connector details are displayed on the **Properties** tab. You can view the status of the deployment process and also download logs.

CHAPTER 3

Manage connectors

After you deploy a connector to sandbox or production, you can view the details and status of all the connectors available in your organization.

The Manage Connectors page lists the connectors deployed in your organization, including those deployed in sandbox and in production. The page also outlines the available actions you can take for the deployed connectors in both sandbox and production environments.

All connectors

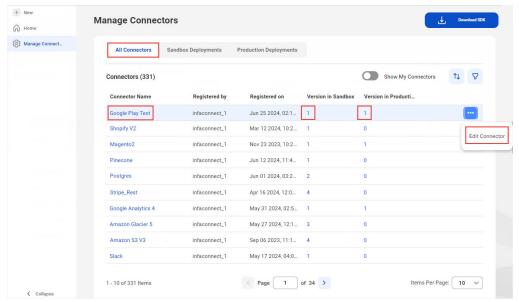
The **All Connectors** tab lists all the connectors in your organization and the latest version of the connectors available in the sandbox and production environments.

You can perform the following tasks on the All Connectors tab:

View the deployment status

Click the connector name to view the deployment status of the latest version of the connector.

The following image shows the All Connectors tab:



View the connector versions

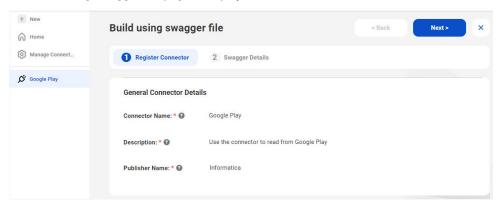
Click the version number in sandbox and production to view the details of the connector versions on the **Sandbox Deployments** tab and **Production Deployments** tab, respectively.

Edit a connector

If you created a connector using a Swagger file, you can edit the connector. You cannot edit a connector created using SDK.

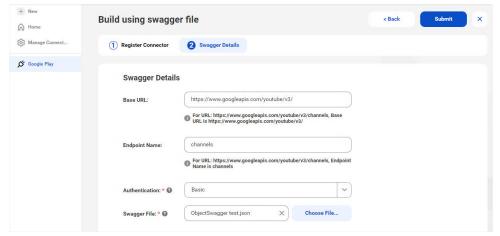
Perform the following steps to edit a connector:

Click the ellipsis button for the connector you want to edit, and then click Edit Connector.
 The Build using Swagger file page is displayed.



You cannot edit the connector details on the Register Connector tab.

- 2. Click Next.
- 3. On the Swagger Details tab, edit the swagger details, and then click Submit.



For more information about the building a connector using a Swagger file, see <u>"Build the connector using Swagger file"</u> on page 20.

Sandbox deployments

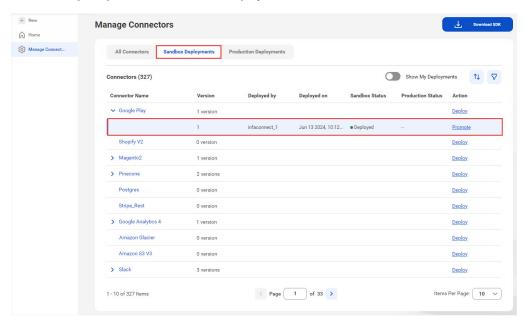
Deploy a connector to sandbox, promote a connector to production, and view the status of sandbox and production deployment.

You can perform the following tasks on the Sandbox Deployments tab:

Deploy a connector

Click **Deploy** to deploy a connector to sandbox.

The following image shows the Sandbox Deployments tab:



Promote a connector

After testing the connector in sandbox, if you want to deploy your connector to the production environment, click **Promote**.

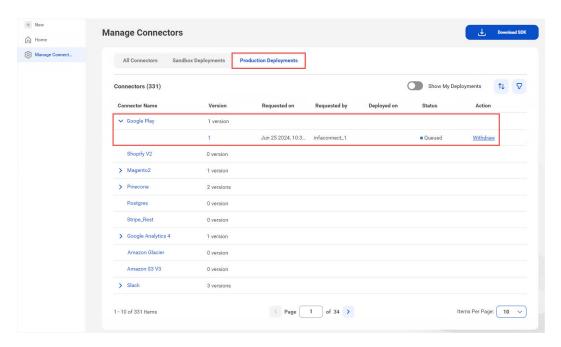
Production deployments

View the connectors promoted for deployment to production and the status of production deployment.

After you click **Promote**, the connector status reflects that it is queued for deployment to the production environment. At this stage, you have the flexibility to withdraw the connector from production deployment if needed.

After the status changes to Locked, you cannot withdraw the connector. The connector is then deployed to the production environment.

The following image shows the **Production Deployments** tab:



For information regarding the deployment schedule and the release in which the connector will be deployed, reach out to the INFAConnect team at $\underline{\text{DLInfaConnect@informatica.com}}.$

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