

Informatica® Cloud Application Integration July 2024

Synchronize Salesforce Contacts with Database Contacts

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Preface

Use Synchronize Salesforce Contacts with Database Contacts to learn how to synchronize Salesforce contacts with Database contacts. This guide assumes that you have an understanding of the Salesforce Connector and JDBC Connector concepts.

CHAPTER 1

Synchronize Salesforce Contacts with Database Contacts recipe overview

The Synchronize Salesforce Contacts with Database Contacts recipe is a platform event-based recipe.

When a contact is created or updated in Salesforce, a Salesforce platform event triggers the process. The process searches for a contact in the database by ID and assigns a Salesforce contact. The process then searches for a matching contact in the database and creates or updates the contact based on the search results without manual intervention. You can use any database that JDBC Connector supports for synchronization.

With this recipe, you can synchronize Salesforce contacts with database contacts without any manual intervention.

Prerequisites for configuring a Salesforce Platform Event to subscribe to Contact object creation or change

Salesforce connections in Application Integration support the Salesforce Streaming API. You can configure an event source in a Salesforce connection to subscribe to Salesforce platform events and PushTopic queries. You can use the event source in a process to consume changes in real-time.

For more information about setting up Salesforce platform events, see the Informatica Knowledge Base article 000181147.

To set up the Salesforce platform event to subscribe to Contact object creation or change, perform the following steps:

Step 1: Create a platform event

Step 2: Create a new connected app

Step 3: Set object permissions

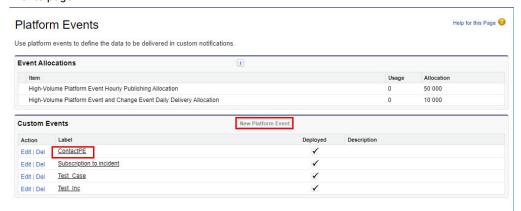
Step 4: Create a trigger to generate an event

Create a platform event

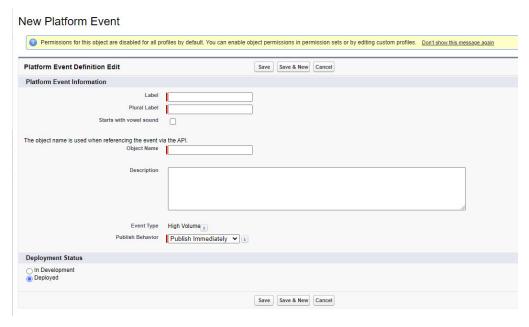
To create a platform event in Salesforce, perform the following steps:

- 1. Log in to the Salesforce organization.
- 2. Go to Setup > Develop > Platform Events, and then click New Platform Event.

The following image shows the **New Platform Event** button and the platform event name on the **Platform Events** page:



3. In the **Platform Event Information** section, enter the details in the **Label**, **Plural Label**, and **Object Name** fields, and select **Publish Immediately** in the **Publish Behavior** field as shown in the following image:



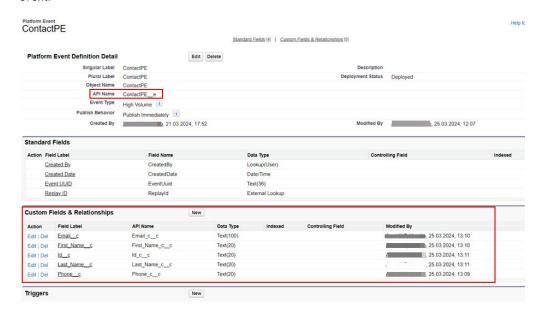
4. Click Save.

The Salesforce platform event is created successfully. Note the **API Name** field value. You will need to enter it in the **Event Consumer** field while configuring the Salesforce connection.

5. Open the Salesforce platform event that you just created.

In the Custom Field & Relationships section, add the custom fields named Email_c, First_Name_c,
 Id_c, Last_Name_c, and Phone_c with the Text data type.

The following image shows the API name and the fields that you created in the Salesforce platform event:

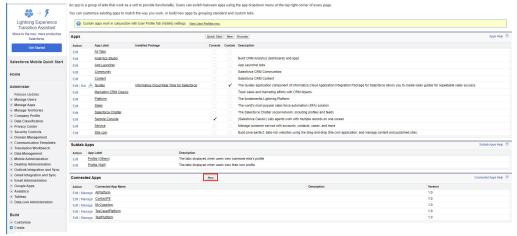


Create a new connected app

In the connected app, you provide the necessary permissions and consume the platform event. From this connected app, you will get the consumer key and consumer secret that you will need while configuring the Salesforce connection.

Go to Setup > Build > Create > Apps > Connected Apps, and then click New.

The following image shows the **New** button in the **Connected Apps** section on the **Apps** page:



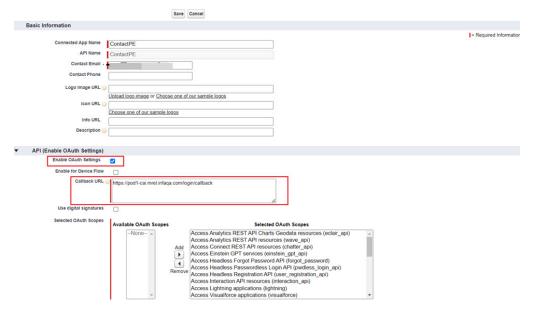
- 2. Enter the details in the Connected App Name, API Name, and Contact Email fields.
- 3. Select the Enable OAuth Settings option.
- 4. In the Callback URL field, enter the callback URL as shown in the following format:

https://<pod name>.informaticacloud.com/login/callback

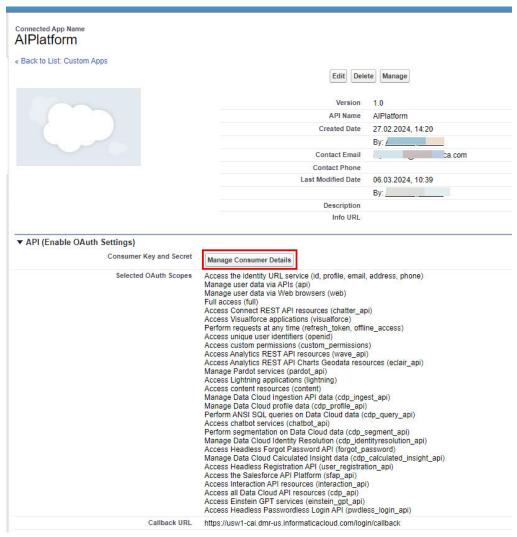
5. Provide the necessary access in the **Selected OAuth Scopes** field. If you are not sure about the access, select all the options from the **Available OAuth Scopes** section, and click **Add**.

The selected options are displayed in the **Selected OAuth Scopes** section.

The following image shows the **Connected App Name** page:



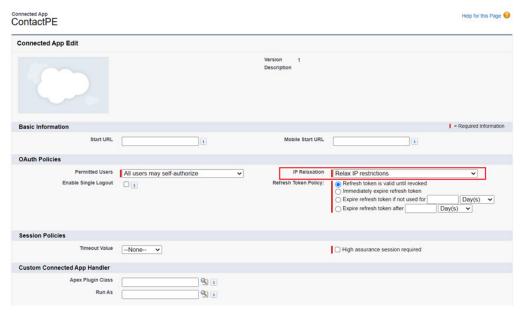
- 6. Click Save.
- 7. Go to the API (Enable OAuth Settings) section and click Manage Consumer Details as shown in the following image:



The Consumer Key and Consumer Secret fields are displayed.

- 8. Save the consumer key and consumer secret values for your future use.
- Click Manage > Edit policies > IP Relaxation.

The following image shows the IP Relaxation field in the Connected App Edit page:



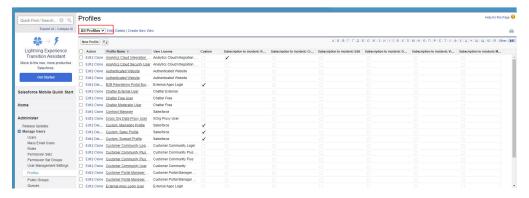
- 10. Select Relax IP restrictions in the IP Relaxation field.
- 11. Click Save.

Set object permissions

To set up the platform event with the necessary permissions, perform the following steps:

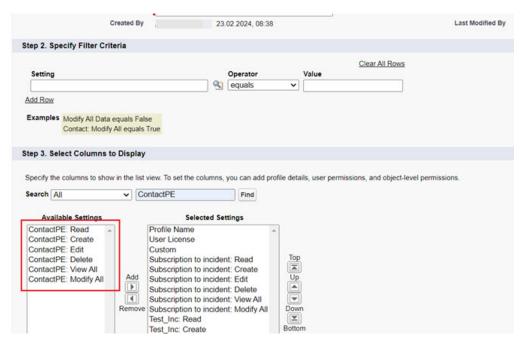
 Go to Setup > Manage Users > Profiles, and then click Edit next to the profile name, or if you are not sure, click Edit next to All Profiles.

The following image shows the list of profiles on the Profiles page:



- 2. In the Select Columns to Display section, select Object Permissions in the Search field.
- 3. In the Available Settings section, select the platform event that you just created.
- 4. Add all the required permissions.

The following image shows the settings in the Select Columns to Display section:



Click Save.

You can use this platform event in the Salesforce connection in Application Integration, and the Salesforce connection can be used in a real-time process to consume Salesforce events.

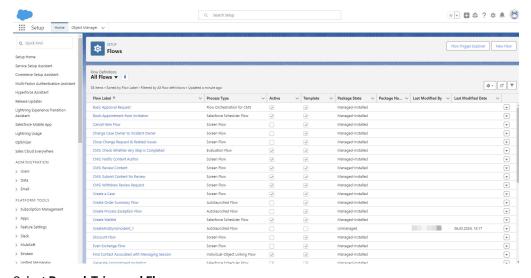
Create a trigger to generate an event

To create a trigger to generate an event, perform the following steps:

Note: Informatica recommends that you use the Salesforce Lightning Experience as Salesforce plans to retire Process Builder and recommends building automation in Flow Builder.

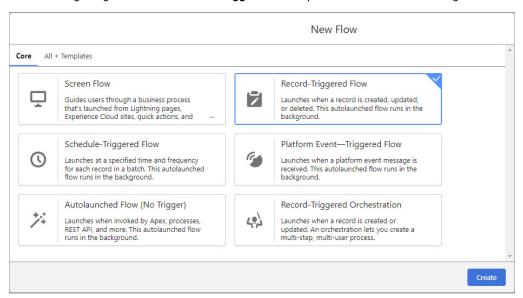
1. Go to Setup > Process Automation > Flows, and then click New Flow.

The following image shows the list of flows on the Flows page:

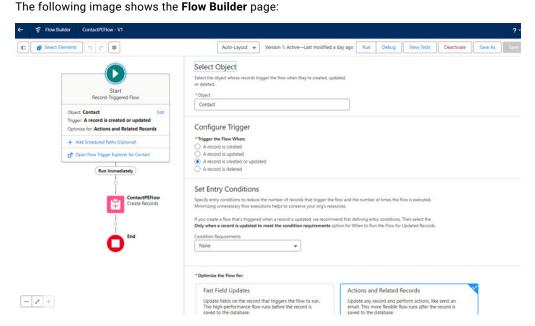


2. Select Record-Triggered Flow.

The following image shows the **Record-Triggered Flow** option on the **New Flow** dialog box:



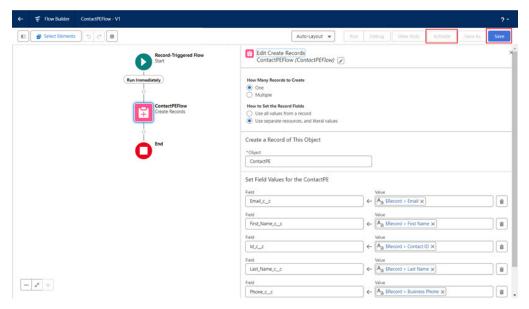
- 3. Click Create.
- 4. In the Object field, select the object as Contact.
- 5. In the **Configure Trigger** section, select the **A record is created or updated** option.



- 6. Add a new element in the flow builder space, Data > Create Records.
- 7. Enter values in the Label and API Name fields.
- 8. In the How Many Records to Create field, select One.
- 9. In the How to Set the Record Fields field, select Use separate resources, and literal values.
- In the Create a Record of This Object section, enter the name of the Salesforce platform event you created in the Object field.

11. In the **Set Field Values for the ContactPE** field, map the fields in the Salesforce platform event using the **{!\$Record}** in the **Value** field.

The following image shows the **Set Field Values for the ContactPE** field where you can map the fields in the Salesforce platform event using the **{!\$Record}** in the **Value** field:



12. Click Save and Activate.

After completing these steps, you have the event consumer, consumer key, and consumer secret values for setting up the Salesforce connection in Application Integration.

CHAPTER 2

Synchronize Salesforce Contacts with Database Contacts recipe contents

The Synchronize Salesforce Contacts with Database Contacts recipe contains multiple assets such as app connections and process.

The following image shows the assets that the Synchronize Salesforce Contacts with Database Contacts recipe package contains:



Synchronize Salesforce Contacts with Database Contacts recipe assets

The following table lists the assets that the Synchronize Salesforce Contacts with Database Contacts recipe package contains:

Asset Name	Asset Type	Description
JDBCConnectionContact	App Connection	JDBC connection used to connect to the database that stores contact details.
SalesforceConnectionContact	App Connection	Salesforce connection with the contacts filter.
Synchronize Salesforce Contacts with Database Contacts	Process	When a contact is created or updated in Salesforce, a Salesforce platform event triggers the process. The process searches for a contact in the database by ID and assigns a Salesforce contact. The process then searches for a matching contact in the database and creates or updates the contact based on the search results.

CHAPTER 3

Using the Synchronize Salesforce Contacts with Database Contacts recipe

To use the Synchronize Salesforce Contacts with Database Contacts recipe, you must perform the following steps manually:

- Step 1: Copy and access the recipe
- Step 2: Configure and publish the SalesforceConnectionContact connection
- Step 3: Configure and publish the JDBCConnectionContact connection
- Step 4: Configure and publish the process

Copying and accessing the recipe

To copy and access the recipe content, perform the following steps:

- 1. Open the Synchronize Salesforce Contacts with Database Contacts recipe and click Use.
- 2. Select the location where you want to copy the recipe, and then click Continue.
- In the Copying the recipe dialog box, click OK.
 It might take some time for the recipe to get copied. You will receive a notification when the recipe is ready for use.
- 4. After the recipe is copied, click **Explore** to access the recipe content.
- 5. Navigate to the project or folder where you copied the recipe or enter the recipe name in the **Find** box. All the assets in the recipe are displayed as shown in the following image:



Configuring and publishing the Salesforce connection

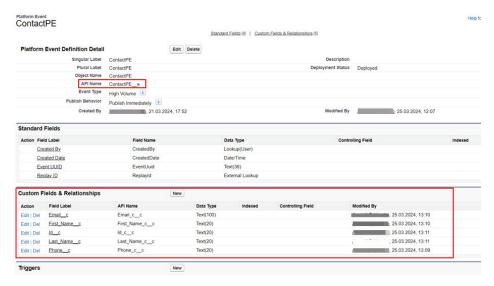
To configure and publish the Salesforce connection, perform the following steps:

- 1. Open the SalesforceConnectionContact connection.
- 2. In the Type field, select Salesforce.
- 3. In the Run On field, select the Secure Agent.
- 4. In the Authentication Type field, select Password or OAuth as required.

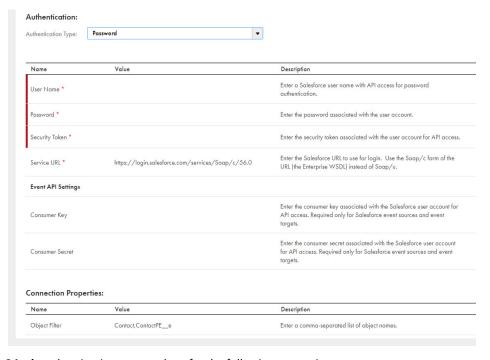
Based on the authentication type selected, perform one of the following steps:

- For Password authentication:
 - 1. Enter values for the following properties:
 - •User Name: Salesforce developer account user name.
 - Password: Salesforce developer account password.
 - Security Token: Salesforce security token.
 - 2. In the **Event API Settings** section, enter values in the **Consumer Key** and **Customer Secret** fields. For information about generating the **Consumer Key** and **Customer Secret** values, see <u>"Create a new connected app" on page 8</u>.

3. In the **Connection Properties** section, in the **Object Filter** field, enter the API name of the Salesforce platform event prefixed with **Contact**. For example, **Contact,ContactPE_e**. The following image shows the API name of the Salesforce platform event:



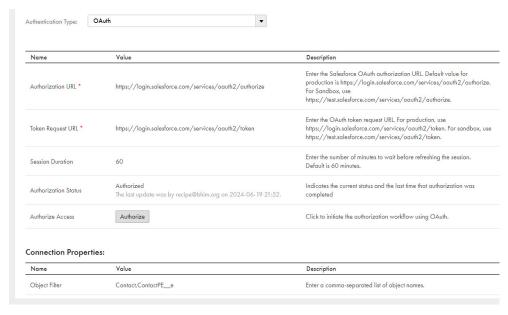
The following image shows the **SalesforceConnectionContact** connection detail page with the authentication type set to **Password**:



- For **OAuth** authentication, enter values for the following properties:
 - Authentication URL: Endpoint used to make OAuth authorization requests to Salesforce.
 - Token Request URL: Endpoint used to make OAuth token requests to Salesforce.
 - Session Duration: Number of minutes after which the OAuth token expires.
 - Authorize access: Click Authorize > enter Salesforce developer account credentials > click Allow.

The OAuth authentication process starts. You can check the current authorization status in the **Authorization Status** property.

The following image shows the **SalesforceConnectionContact** connection detail page with the authentication type set to **OAuth**:



On the Event Sources tab, enter the API name of the Salesforce platform event prefixed with /event/ in the Event Consumer field. For example, /event/ContactPE__e.

When the Salesforce platform event is called, the event refers to the value specified in this field.

Note: Ensure that the value in the **Event Consumer** field is the same as the event consumer you created for the platform event in the Salesforce organization.

6. Save and publish the connection.

Configuring and publishing the JDBC connection

Before configuring the JDBC connection, perform the following steps:

Create a database to store contacts.
 The following snippet is an example for creating database in MySQL:

```
CREATE DATABASE `ip1`;
CREATE TABLE `sfdc_contact_sync` (

`First_Name` varchar(50) DEFAULT NULL,
`Last_Name` varchar(45) NOT NULL,
`Account_Name` varchar(100) DEFAULT NULL,
`Contact_ID` varchar(45) NOT NULL,
`Phone` varchar(20) DEFAULT NULL,
`Home_Phone` varchar(20) DEFAULT NULL,
`Mobile_Phone` varchar(20) DEFAULT NULL,
`Other_Phone` varchar(20) DEFAULT NULL,
`Fax` varchar(20) DEFAULT NULL,
`Email` varchar(45) DEFAULT NULL,
`Title` varchar(45) DEFAULT NULL,
`Malling Street` varchar(100) DEFAULT NULL,
```

```
`Malling_City` varchar(45) DEFAULT NULL,
   `Malling_State` varchar(45) DEFAULT NULL,
   `Malling_Zip` varchar(20) DEFAULT NULL,
   `Malling_Country` varchar(20) DEFAULT NULL,
   `Decription` varchar(5000) DEFAULT NULL,
   PRIMARY KEY ('Contact_ID`),
   UNIQUE KEY 'CONTACT_ID_UNIQUE` ('Contact_ID`)
   ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

- To use a MySQL database, you can download the mysql-connector-j-8.0.33.jar driver or any other appropriate JDBC driver from https://dev.mysql.com/downloads/connector/j/.
- To use a Microsoft SQL Server database, you can download the mssql-jdbc-6.4.0.jre8.jar driver or any other appropriate JDBC driver from https://mvnrepository.com/artifact/com.microsoft.sqlserver/mssql-jdbc/6.4.0.jre8.

To configure and publish the JDBC connection, perform the following steps:

- 1. Open the JDBCConnectionContact connection.
- 2. In the Type field, select JDBC Generic Cloud Adapter.
- 3. In the Run On field, select the Secure Agent.
- 4. In the OData-Enabled field, select Yes.
- 5. In the OData Cloud Access Enabled field, select Yes.
- 6. In the Connection Properties section, enter values for the following properties:

Property	Description
JDBC Connection URL	The URL schema for the database. Use the corresponding schema for the following databases: - IBM DB2: jdbc:db2:// <server>:<port>/<database> - Microsoft SQL Server: jdbc:sqlserver://<host>:<port>;databaseName=<database> - MySQL: jdbc:mysql://<host>:<port>/<database></database></port></host></database></port></host></database></port></server>
	<pre>If you encounter an issue, append ?useSSL=false&allowPublicKeyRetrieval=true to the JDBC Connection URL. For example, jdbc:mysql://<host>:<port>/? useSSL=false&allowPublicKeyRetrieval=true Oracle: jdbc:oracle:thin:@//<host>:<port>/<service> - PostgreSQL: jdbc:postgresql://<host>:<port>/<database></database></port></host></service></port></host></port></host></pre>
JDBC Jar Directory	The path to the JDBC driver .jar file. For example, you can enter the following directory: C:/jdbc If you do not specify a directory path, the Secure Agent gets the .jar file from the process- engine/ext directory. You must specify one of the following values for the JDBC connection to work successfully: JDBC JAR directory. If you choose to specify the JDBC JAR directory, you can place the .jar file in any directory and specify the directory in the JDBC Jar Directory field. JDBC driver class name. If you choose to specify the JDBC driver class name, you must place the JDBC driver .jar file in the following directory: process-engine/ext

Property	Description
JDBC Driver Class Name	The name of the JDBC driver class. Based on the database, you can specify one of the following driver class names: - IBM DB2: com.ibm.db2.jcc.DB2Driver - Microsoft SQL Server: com.microsoft.sqlserver.jdbc.SQLServerDriver - MySQL: com.mysql.jdbc.Driver - Oracle: oracle.jdbc.OracleDriver - PostgreSQL: org.postgresql.Driver
	 You must specify one of the following values for the JDBC connection to work successfully: JDBC JAR directory. If you choose to specify the JDBC JAR directory, you can place the .jar file in any directory and specify the directory in the JDBC Jar Directory field. JDBC driver class name. If you choose to specify the JDBC driver class name, you must place the JDBC driver .jar file in the following directory: process-engine/ext
Schema	The schema name, which varies by database. Use the following guidelines for the schema name: - IBM DB2: Use the schema name to specify the correct object. - Microsoft SQL Server: Use the schema name to specify the correct object. - MySQL: Optional. The schema name is the database name. - Oracle: Optional. The schema name is the user name. - PostgreSQL: Use the schema name to specify the correct object. If the JDBC connection URL does not provide enough context, you must enter a schema name to fetch the metadata.
User name	User name to connect to the database.
Password	Password to connect to the database.

7. Save and publish the connection.

Configuring and publishing the process

- 1. Open the Synchronize Salesforce Contacts with Database Contacts process.
- 2. On the Start tab of the Start step, select the Secure Agent from the Run On list.
- 3. Optionally, you can change the tracing level from **Verbose** to **None** on the **Advanced** tab.
- 4. Save and publish the process.