

Getting Started with Informatica Intelligent Cloud Services on Google Cloud Platform

Abstract

This article explains how to get started with Informatica Intelligent Cloud Services™ on Google Cloud Platform (GCP). The instructions in this article apply to the IICS instance on the GCP POD only.

Supported Versions

- Informatica Intelligent Cloud Services GCP Beta (Dec 2019)

Table of Contents

Introduction.	2
Getting started.	2
Step 1. Activate IICS from GCP marketplace.	2
Step 2. Install a Secure Agent (runtime environment).	9
Step 3. Configure connections.	13
Step 4. Create a mapping to load a CSV file into Google Cloud Storage.	17
Step 5. Create a mapping to load a CSV file into Google BigQuery.	22
Next steps.	25

Introduction

Welcome to Getting Started with Informatica Intelligent Cloud Services on Google Cloud Platform.

Informatica Intelligent Cloud Services (IICS) is the only complete platform for cloud integration and data management. IICS Data Integration lets you easily connect to a variety of cloud, on-premises, mobile, and social data sources to ensure you can efficiently share your relevant and trustworthy business information. To help you better engage with your customers and realize the potential of your SaaS investments, IICS goes beyond traditional point-to-point integration vendors. Informatica offers the most complete suite of enterprise data management in the Integration Platform as a Service (iPaaS) market.

As the proven leader in cloud integration with hundreds of connectors, more than 9,500 customers, and having processed trillions of transactions per month in the cloud (and counting), the IICS visual design interface is designed for non-technical business users and incorporates best practices and templates that accelerate your deployment of cloud apps.

This article will provide you an opportunity to experience the power of IICS for Google Cloud Platform (GCP). You will learn how easy it is to synchronize data from a CSV file to Google Cloud Storage and BigQuery without writing a single line of code.

Getting started

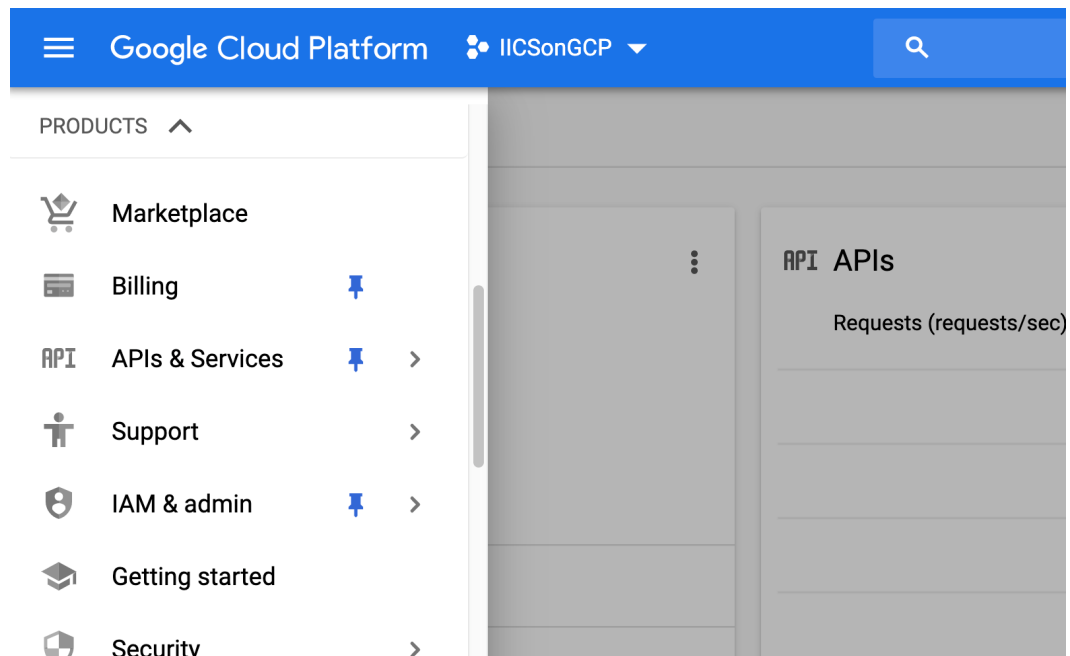
Getting started with IICS on GCP consists of just a few steps.

Step 1. Activate IICS from GCP marketplace

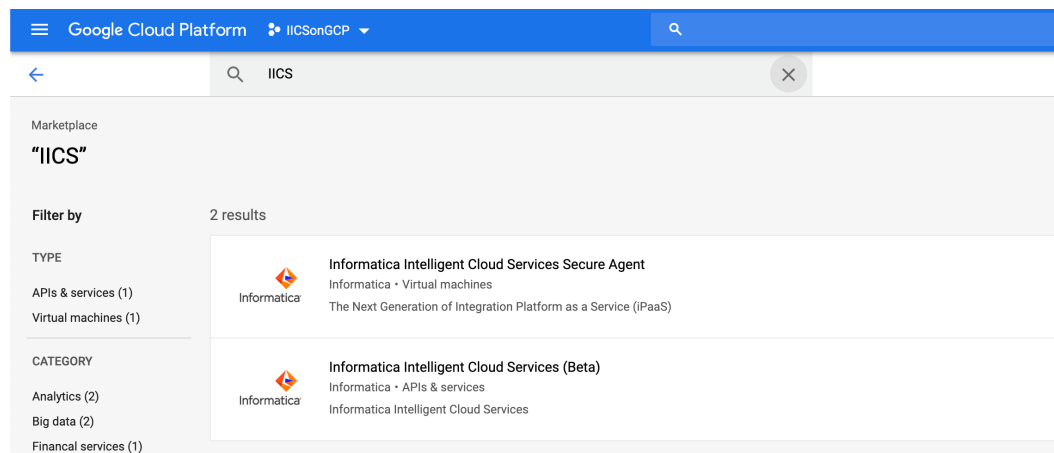
IICS is listed in GCP Marketplace. Go to the Marketplace to activate IICS.

1. Using the Google Chrome browser, log in to [GCP Console](#).

2. Select **Marketplace** from the menu:




3. Search for **IICS** and click **Informatica Intelligent Cloud Services (Beta)**:



4. Click **Activate**:

Google Cloud Platform

IICSonGCP



Informatica Intelligent Cloud Services (Beta)

Informatica

Informatica Intelligent Cloud Services

Runs on
Informatica Cloud Servers

Type
APIs & services

Last updated
12/18/19, 3:12 PM

Category
[Analytics](#)
[Big data](#)

Overview

Informatica Intelligent Cloud Services

Organizations need a better, faster, more reliable approach to integrate and deliver timely data and analytics to the lines of business that rely on data. Whether you're delivering cloud analytics or planning to build a data warehouse on-premises or on Google Cloud BigQuery, you need a high-performance, easy-to-use data integration service that connects to on-premises data sources and cloud applications to seamlessly integrate high volumes of data, so that you can get up and running quickly.

Build enterprise-level integration workloads in minutes or hours, not in days or weeks. Built on a next-generation microservices-driven integration platform as a service (PaaS) platform with Informatica Intelligent Cloud Services (IICS), Informatica® Cloud Data Integration enables you to connect hundreds of applications and data sources across on-premises and cloud. Easy-to-use drag-and-drop interfaces enable users to build integrations quickly with no coding required. It also offers prebuilt templates and integration wizards to accelerate your data warehousing initiatives.

Activate your Informatica Intelligent Cloud Services (Beta) service before using

Activate

5. Click **Register with Informatica**:

Google Cloud Platform

IICSonGCP

New Informatica Intelligent Cloud Services (Beta) subscription

1 Subscribe

2 Activate

To activate the service, register with Informatica on their website. When you are done, return to this page to make sure that the service has been activated.

Safeguard your Informatica account information. Google does not store third-party account details.

Register with Informatica

About Informatica Intelligent Cloud Services (Beta)

Plan summary

Trial (\$0.00/mo)

- Cloud Data Integration
- Connectivity

Technical details

Runs on	Informatica Cloud Servers
Type	Managed services

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Google is providing this software or service "as-is" and will not perform any ongoing maintenance. Ongoing upgrades and maintenance are your responsibility.

6. Fill in the form, and click **Start Your Free Trial**:



Informatica Intelligent Cloud Services

Email Address:*

☐ Use my email address as my username

Username:*

First Name:*

Last Name:*

Job Title:*

Phone Number:*

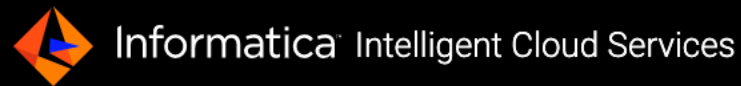
Organization:*

Country:*

☐ I have read & agreed to the [Subscription Agreement](#)

Start Your Free Trial

7. Check your email, and click **Confirm Account** in the email.
8. Set your password, security question, and answer, and then click **Log In**:



Set Up Your Password

Your User Name

ewidjaja_iics_on_gcp

Your New Password

Confirm New Password

Your Security Question

Your Security Question's Answer

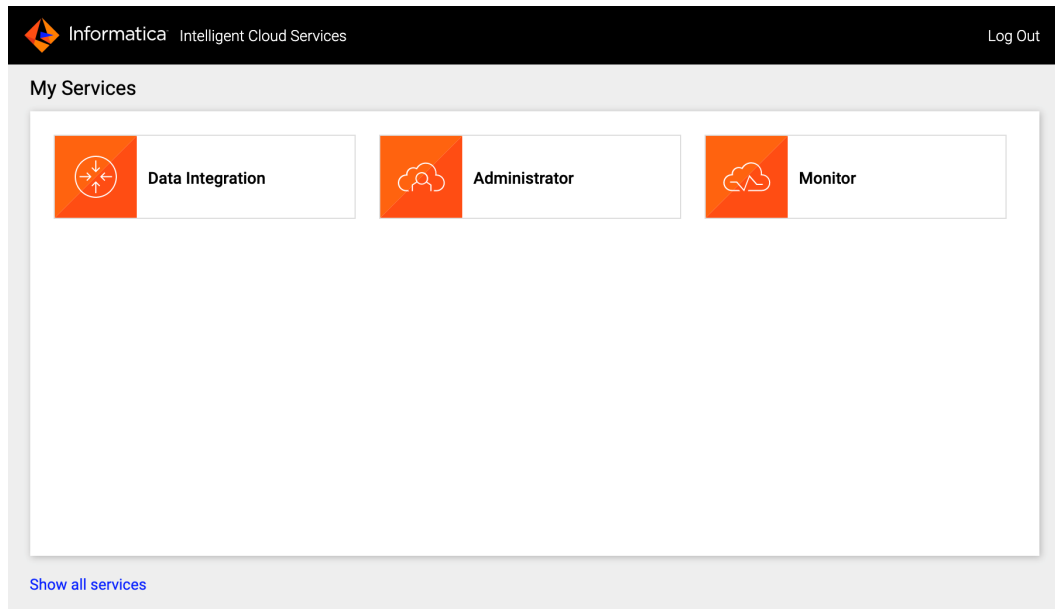
Log In

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Informatica will use data provided here in accordance with our [Privacy Policy](#)

[Check the system status](#)

9. After successful login, you see the **My Services** page:



10. In GCP Marketplace, click **Your solutions** to view your IICS subscription:



Google Cloud Platform

IICSonGCP

←

Your solutions

Solution	Type	Status
<div> <div>Informatica</div> <div>Informatica Intelligent Cloud Services (Beta)</div> <div>by Informatica</div> </div>	<div>Managed service</div> <div>Plan: Trial</div>	<div>✓ Subscribed on 1/21/20</div>

To view in-use APIs and Services, visit the [API Dashboard](#).

Visit [Compute Engine](#) for Operating Systems (OS) solutions that are not deployed via Deployment Manager

Step 2. Install a Secure Agent (runtime environment)

A Secure Agent is a small footprint application that enables secure communication across the firewall between your organization and IICS. It enables IICS to get through the firewall to access application, relational database, and file sources and targets in your on-premises network.

In this step, you launch a Secure Agent on a Google Compute Engine from the Marketplace.

The Secure Agent is listed in GCP Marketplace. Go to the Marketplace to launch it.

1. Search for IICS and click **Informatica Intelligent Cloud Services Secure Agent**:

Google Cloud Platform

IICSonGCP

←

Q

IICS

×

Marketplace

"IICS"

Filter by

2 results

TYPE

APIs & services (1)

Virtual machines (1)

CATEGORY

Analytics (2)

Big data (2)

Financial services (1)

Informatica

Informatica Intelligent Cloud Services Secure Agent

Informatica · Virtual machines

The Next Generation of Integration Platform as a Service (iPaaS)

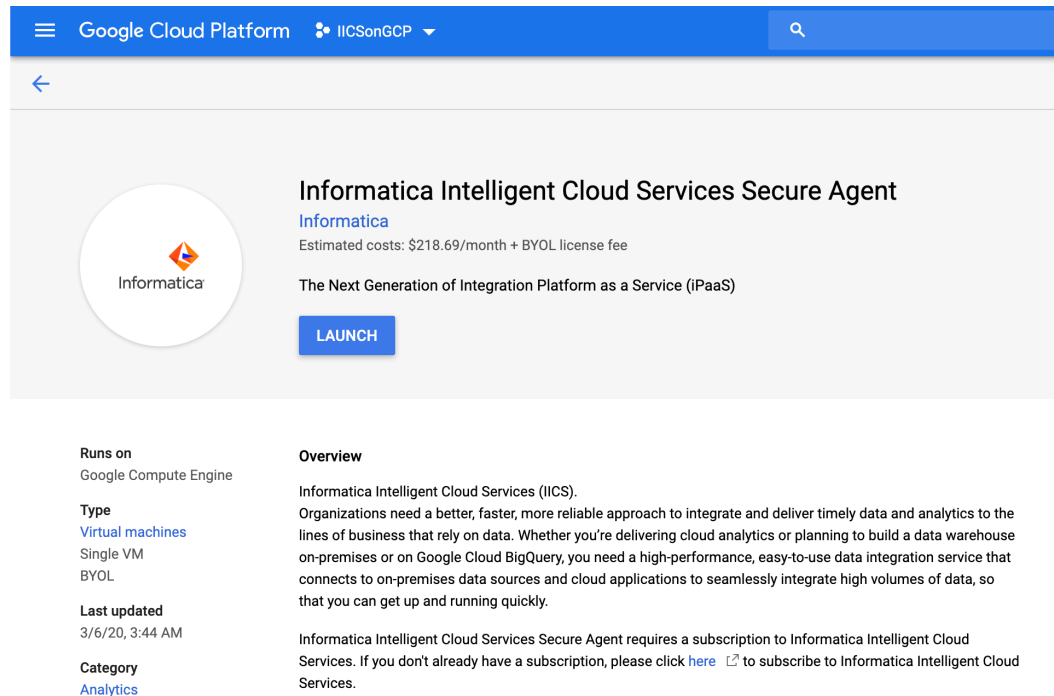
Informatica

Informatica Intelligent Cloud Services (Beta)

Informatica · APIs & services

Informatica Intelligent Cloud Services

2. Click **LAUNCH**:



Informatica Intelligent Cloud Services Secure Agent
Informatica
Estimated costs: \$218.69/month + BYOL license fee
The Next Generation of Integration Platform as a Service (iPaaS)
LAUNCH

Runs on
Google Compute Engine

Type
[Virtual machines](#)
Single VM
BYOL

Last updated
3/6/20, 3:44 AM

Category
[Analytics](#)

Overview
Informatica Intelligent Cloud Services (IICS). Organizations need a better, faster, more reliable approach to integrate and deliver timely data and analytics to the lines of business that rely on data. Whether you're delivering cloud analytics or planning to build a data warehouse on-premises or on Google Cloud BigQuery, you need a high-performance, easy-to-use data integration service that connects to on-premises data sources and cloud applications to seamlessly integrate high volumes of data, so that you can get up and running quickly.
Informatica Intelligent Cloud Services Secure Agent requires a subscription to Informatica Intelligent Cloud Services. If you don't already have a subscription, please click [here](#) to subscribe to Informatica Intelligent Cloud Services.

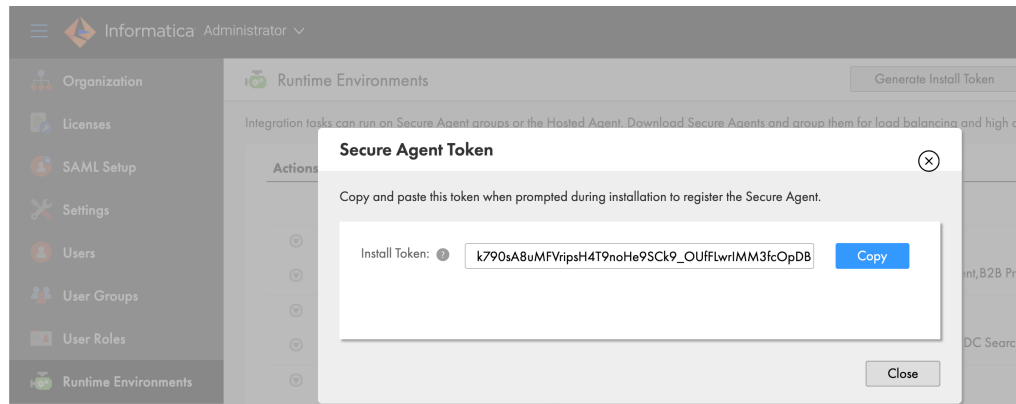
3. Enter the following information on the **New Informatica Intelligent Cloud Services Secure Agent deployment** page and accept the default values for all other properties:

Property	Description
Region	Select a region or accept the default value.
Operating System	Select Linux.
Username	Enter your IICS user name.
Install Token	Paste the Secure Agent install token that you get from the IICS Administrator service.*

* Perform the following steps to get the install token:

- Log in to IICS.
- Select **Administrator**, and then click **Runtime Environments**.
- Click **Generate Install Token**.

- d. Click **Copy** to copy the install token string:



4. Click **Deploy**:

Google Cloud Platform

IICSonGCP

New Informatica Intelligent Cloud Services Secure Agent deployment

Deployment name

iics-secure-agent-1

Virtual Machine Configuration

Region

us-west1-b

Operating System

Linux

Machine Type

4 vCPUs

15 GB memory

Customize

Networking

Network

default

Subnetwork

default (10.138.0.0/20)

Informatica Intelligent Cloud Services Account Details

Username

ewidjaja_iics_on_gcp

Install Token

Secure Agent registration requires an install token. To get the install token, login to your IICS account and use the Generate Install Token option in Administrator

k790sA8uMFVripsH4T9noHe9Sck9_OUfFLwrlMM3fcOpDB7mnZGJP7rgWtsHh6

☒ I accept the [GCP Marketplace Terms of Service](#).

Deploy

Informatica

Informatica Intelligent Cloud Services Secure Agent overview

Solution provided by Informatica

Software

Operating System

Windows / Linux (2016 / 7.6)

Software

Informatica IICS Secure Agent (Winter 2019)

Launching a BYOL solution

Informatica Intelligent Cloud Services Secure Agent is a BYOL (Bring Your Own License) solution. Marketplace will deploy this solution, but you are responsible for purchasing and managing the license directly from the provider.

Terms of Service

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When the deployment completes, you will see the following page:

Google Cloud Platform

IICSonGCP

Deployment Manager

Deployments

Type registry

iics-secure-agent-1

DELETED

Overview - iics-secure-agent-1

Informatica - iics-secure-agent-1

my-waiter-waiter-jinja

isa1-startup-config-config

isa1-startup-waiter-config-waiter

firewallrule-default-isa1-compute-v1-firewalls

infa-sa-node-infa-sa-server-jinja

infa-secure-agent-isa1-vm-instance

Informatica

Informatica Intelligent Cloud Services Secure Agent

Solution provided by Informatica

Secure Agent Public IP

35.197.94.31

Secure Agent Private IP

Private DNS

MORE ABOUT THE SOFTWARE

Get started with Informatica Intelligent Cloud Services Secure Agent

Suggested next steps

Read the getting started guide

The getting started guide and other useful information can be found in the [Informatica Intelligent Cloud Services documentation](#).

Documentation

Informatica Intelligent Cloud Services

IICS Data Sheet

How to Guide

How to deploy and configure the Secure Agent on GCP

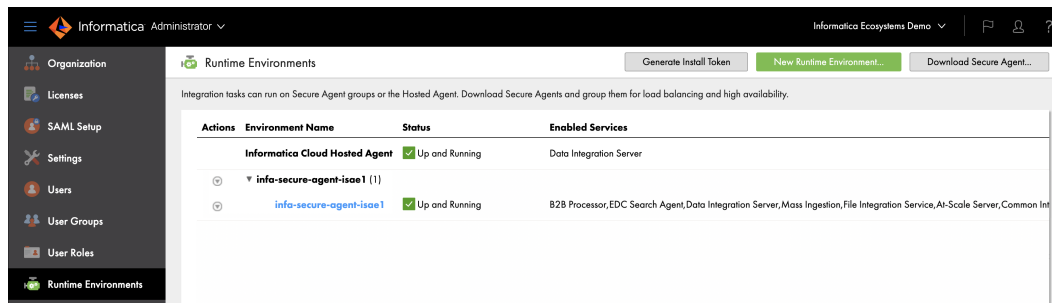
Support

Community support is available. [Go to Informatica support](#)

Template properties

SHOW MORE

You should also see the Secure Agent listed on the **Runtime Environments** page in Administrator:



Note: Your runtime environment should be listed with the status "Up and Running" before you continue to the next step. If you see the status "Not all the services are running," wait 5-10 minutes for the agent to finish starting up and installing updates.

Step 3. Configure connections

Informatica supports more than 300 connectors. A connector is a pre-built integration that allows you to connect to data sources and targets.

In this step, you configure Flat File, Google Cloud Storage, and Google BigQuery connections.

Configure a flat file connection

Configure a flat file connection on the **Connections** page in the Administrator service.

1. In Administrator, click **Connections**.
2. Click **New Connection** in the top right corner of the screen.
3. Enter a name and optional description for the connection.
4. Select **Flat File** as the connection type.
5. Configure the following properties:

Property	Description
Runtime Environment	Select the runtime environment that you created.
Directory	Enter the directory where the flat files are stored or click Browse to select the directory. The directory must be accessible by all Secure Agents in the selected runtime environment. Note: If you click Browse and get an error that says, "The runtime environment cannot get the requested file system information...", see KB article 498540 on Informatica Network.
Date Format	Select the date format for the files that will use this connection.
Code Page	Select the code page for the files that will use this connection. If you use a flat file connection with the Shift-JIS code page and a UTF data object, be sure to install fonts that fully support Unicode.

6. To test the connection, click **Test Connection**.

You should see the message, "The test for this connection was successful":

✓ The test for this connection was successful.

Connection Details

Connection Name: *	<input type="text" value="FlatFile_gettingstarted"/>
Description:	<input type="text"/>
Type: * ?	<div>Flat File</div>

Flat File Connection Properties ?

Runtime Environment: * ?	<div>Runtime_Asrlxdm02</div>
Directory: *	<div>/home/ksubbarao/FlatFiles</div> <div>Browse...</div>
Date Format: *	<div>MM/dd/yyyy HH:mm:ss</div>
Code Page: *	<div>MS Windows Latin 1</div>

7. Click **Save** to save the connection.

For more information about configuring a flat file connection, see [this topic](#) in the IICS *Connections* guide.

Configure a Google Cloud Storage V2 connection

Configure a Google Cloud Storage V2 connection on the **Connections** page in the Administrator service.

1. In Administrator, click **Connections**.
2. Click **New Connection** in the top right corner of the screen.
3. Enter a name and optional description for the connection.
4. Select **Google Cloud Storage V2** as the connection type.
5. Configure the following properties:

Property	Description
Runtime Environment	Select the runtime environment that you created.
Service Account ID	Enter the client_email value present in the JSON file that you download after you create a service account.
Service Account Key	Enter the private_key value present in the JSON file that you download after you create a service account.
Project ID	Enter the project_id value present in the JSON file that you download after you create a service account. If you create multiple projects with the same service account, enter the ID of the project that contains the bucket that you want to connect to.

For information about creating service accounts, see [this GCP guide](#).

6. To test the connection, click **Test Connection**.

You should see the message, "The test for this connection was successful":

✓ The test for this connection was successful.

Connection Details

Connection Name: *	<input type="text" value="GoogleCloudStorage_gettingstarted"/>
Description:	<input type="text"/>
Type: ?	<div>Google Cloud Storage V2</div>

Google Cloud Storage V2 Properties ?

Runtime Environment: ?	<div>Runtime_Asrlxdm02</div>
------------------------	------------------------------

Connection Section

Service Account ID: ?	<input type="text" value="iicsongcp010920@iicsongcp.iam.gserviceaccount.c"/>
Service Account Key: ?	<input type="text" value="• •"/>
Project ID: ?	<input type="text" value="iicsongcp"/>

7. Click **Save** to save the connection.

For more information about configuring a Google Cloud Storage V2 connection, see [this topic](#) in the IICS *Connections* guide.

Configure a Google BigQuery V2 connection

Configure a Google BigQuery V2 connection on the **Connections** page in the Administrator service.

1. In Administrator, click **Connections**.
2. Click **New Connection** in the top right corner of the screen.
3. Enter a name and optional description for the connection.
4. Select **Google BigQuery V2** as the connection type.
5. Configure the following properties:


Property	Description
Runtime Environment	Select the runtime environment that you created.
Service Account ID	The client_email value present in the JSON file that you download after you create a service account.


Property	Description
Service Account Key	The private_key value present in the JSON file that you downloaded after you create a service account. Note: Ensure that the service account key contains no leading or trailing spaces.
Project ID	Specifies the project_id value present in the JSON file that you download after you create a service account.
Storage Path	Path in Google Cloud Storage where the Secure Agent creates a local stage file to store the data temporarily. This is required when the write mode is set to bulk instead of streaming.
Connection Mode	Mode that you want to use to read data from or write data to Google BigQuery.
Schema Definition File Path	Directory on the Secure Agent machine where the Secure Agent must create a JSON file with the sample schema of the Google BigQuery table. The JSON file name is the same as the Google BigQuery table name.
Dataset ID	Name of the dataset that contains the source table and target table that you want to connect to.

For information about creating service accounts, see [this GCP guide](#).

6. To test the connection, click **Test Connection**.

You should see the message, "The test for this connection was successful":

 **Google BigQuery Test Drive**

 **The test for this connection was successful.**

Connection Details

Connection Name:*

Google BigQuery Test Drive

Description:

Type:*

Google Big Query (Informatica Cloud)

Google Big Query Connection Properties

Runtime Environment:*

win2012r2-20180202

Service Account ID:*

gcptestdrive@analytical-poet-162318.iam.gservice

Service Account Key:*

• • • • • • • •

Project ID:*

analytical-poet-162318

Storage Path:

gs://staging-analytical-poet-162318

Connection mode:*

Simple

Schema Definition File Path:

gs://staging-analytical-poet-162318

Dataset ID:*

TestDrive

7. Click **Save** to save the connection.

For more information about configuring a Google BigQuery V2 connection, see [this topic](#) in the IICS *Connections* guide.

Step 4. Create a mapping to load a CSV file into Google Cloud Storage

The Data Integration Mapping Designer allows you to define data integration flow in a visual designer interface. It starts from defining the data source to read data from, applying transformations based on your requirements on that data set, and then writing the resulting data set to the data target.

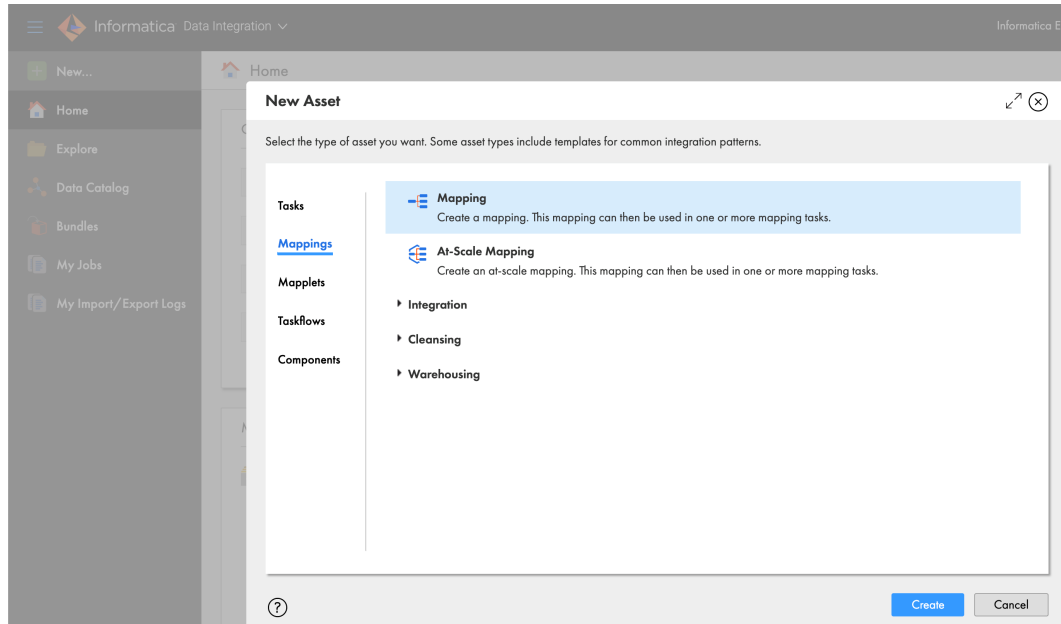
In this step, you load a CSV file from the flat file directory configured in flat file connection and write it to Google Cloud Storage. Please [download the CSV file](#) and place it in the flat file directory.

For information about transferring files to Google Compute Engine, see [this GCP guide](#).

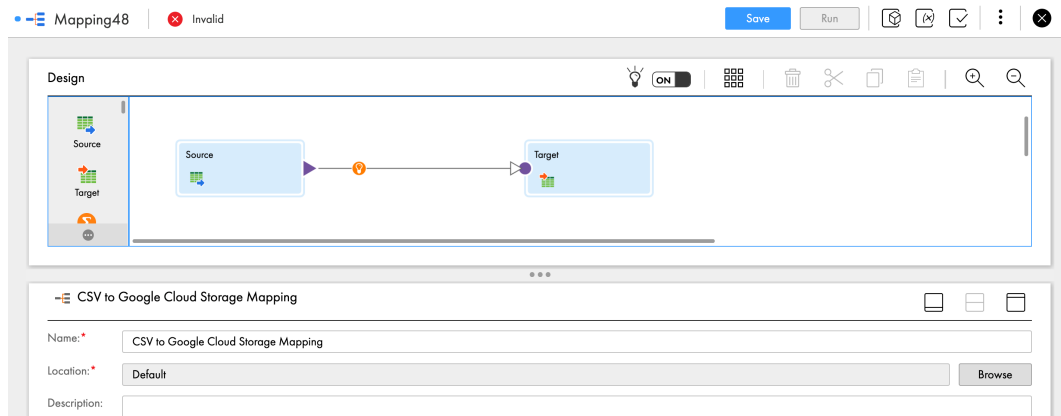
If you still have the Administrator service open, click **Administrator** next to the Informatica logo in the top left corner of the screen. Then select **Data Integration** from the menu.

1. In Data Integration, click **New** to open the **New Asset** dialog box.

2. In the **New Asset** dialog box, click **Mappings** in the menu on the left, select **Mapping**, and click **Create**:

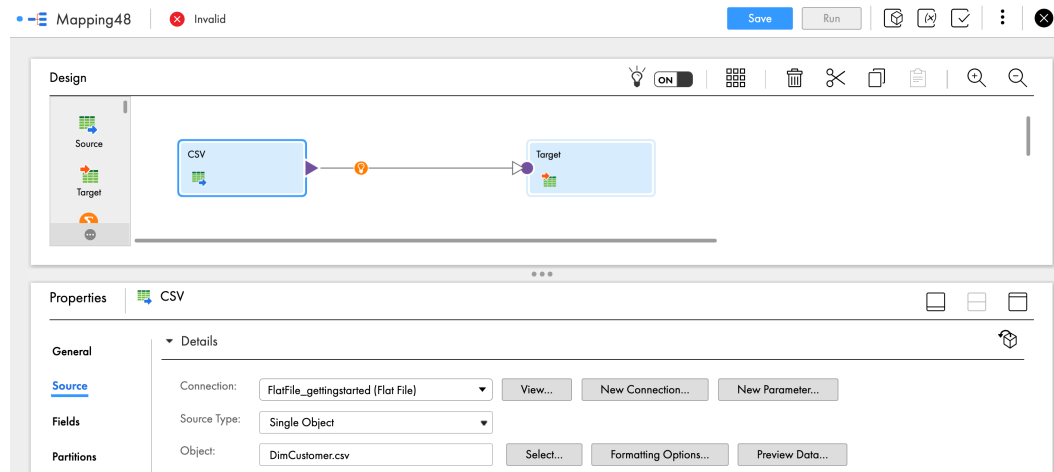


3. When the mapping opens, enter the mapping name in the **Name** field:

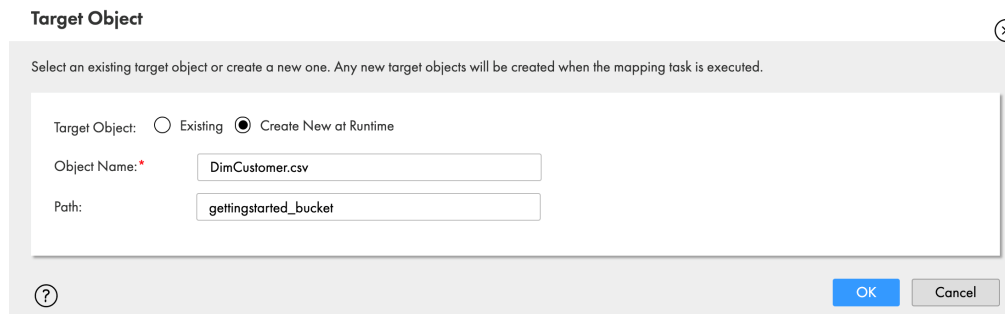


4. Click the Source transformation in the canvas.
5. On the **General** tab, update the name of the Source transformation to reflect the actual object.
In this case, the source is a CSV file.
6. Click the **Source** tab, and perform the following steps:
 - a. In the **Connection** field, select the flat file connection that you created.
 - b. Click **Select** next to the **Object** field to select the CSV file.
IICS treats flat files as CSV by default. You can change the formatting by clicking **Formatting Options**.

- c. Optionally, click **Preview Data** if you want to view the first few rows of the data file.



7. Click the **Target** transformation in the canvas.
8. On the **General** tab, update the name of the Target transformation to reflect the actual object. In this case, the target is Google Cloud Storage.
9. Click the **Target** tab, and perform the following steps:
 - a. In the **Connection** field, select the Google Cloud Storage V2 connection that you created.
 - b. Click **Select** next to the **Object** field to create the target file.
 - c. Select **Create New at Runtime**.
 - d. In the **Object Name** field, enter the name of the target file that will be created.
 - e. In the **Path** field, enter the name of the Google Cloud Storage bucket where the file will be stored:



For information about creating Google Cloud Storage buckets, see [this GCP guide](#).

- f. Click **Formatting Options**, select **Flat** for the format type, and then click **OK**:

Formatting Options ⓧ

Format Type: Flat ▾

Schema Source: Derived from input fields when creating a new target.

delimiter

escapeChar

qualifier

Qualifier Mode MINIMAL ▾

Code Page UTF-8 ▾

Header Line Number

First Data Row

Target Header With Header ▾

Distribution Column

☐ escapeCharacterDataRetained

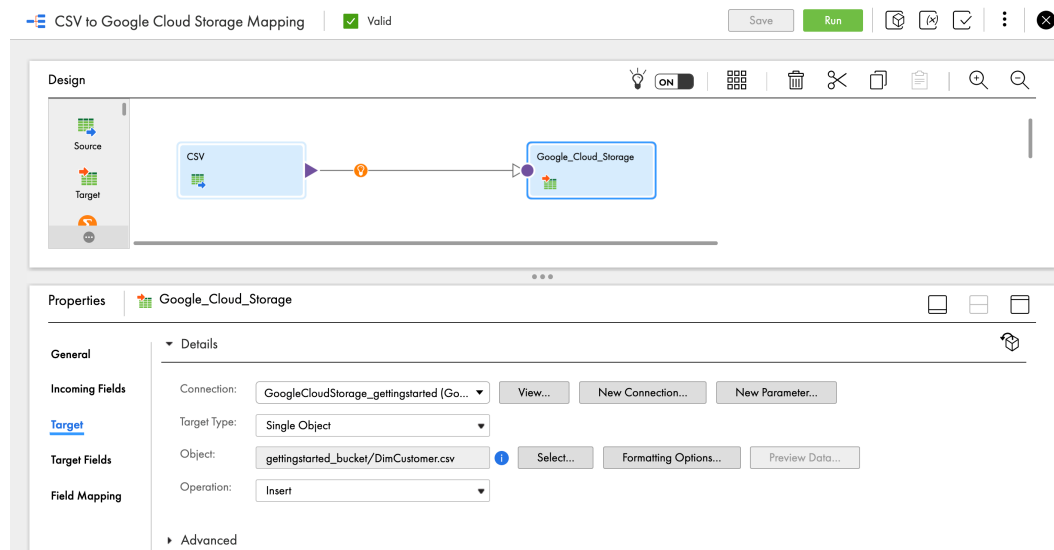
maxRowsToPreview

rowDelimiter

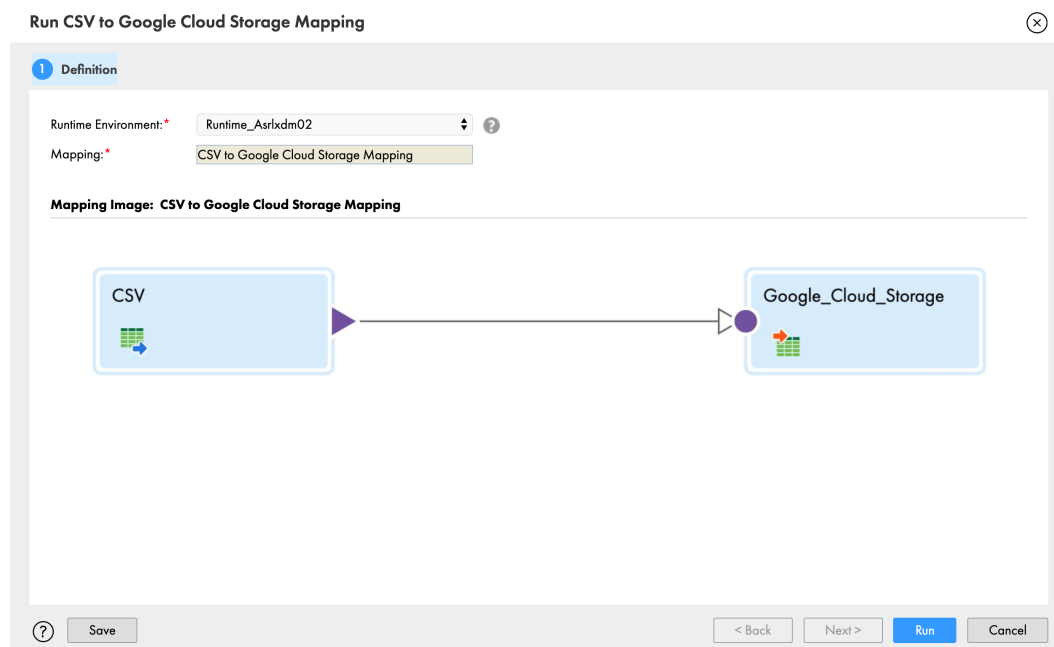
? OK Cancel

10. Click **Save**.

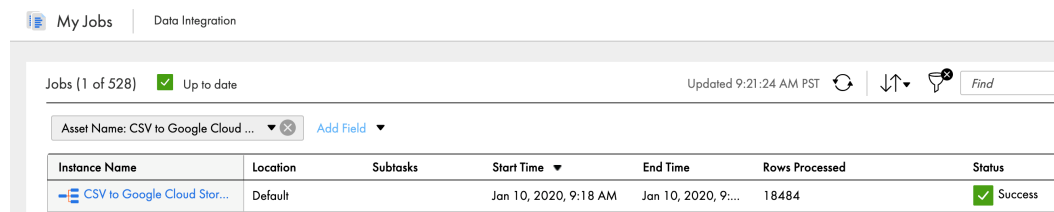
11. Click **Run** in the top right corner of the screen:



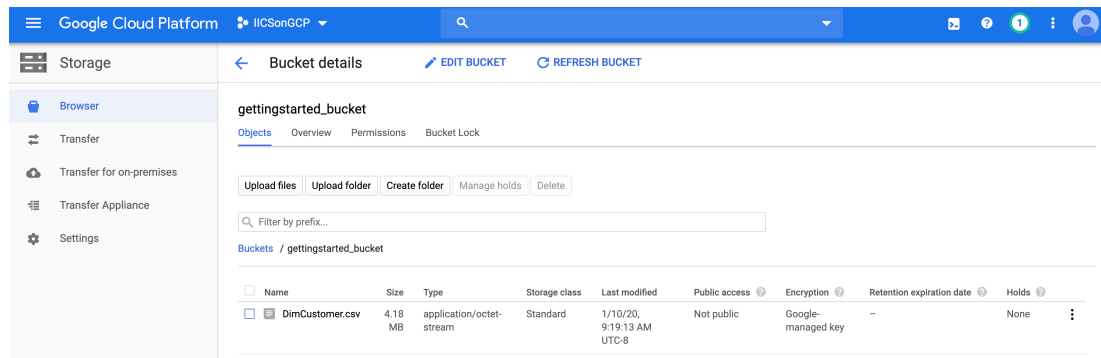
12. Select the runtime environment, and then click **Run**:



13. Click **My Jobs** to open the job activity page:



The target file is created in the Google Cloud Storage bucket:

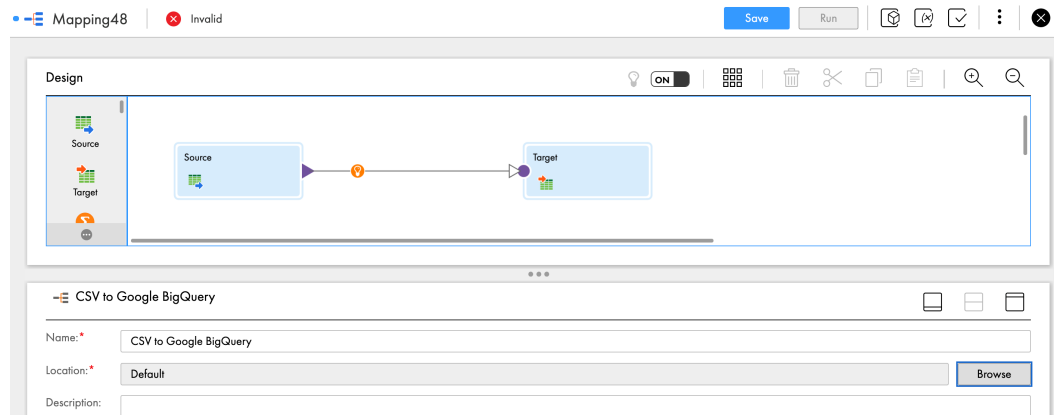


For more information about creating mappings, see the Data Integration [Mappings guide](#).

Step 5. Create a mapping to load a CSV file into Google BigQuery

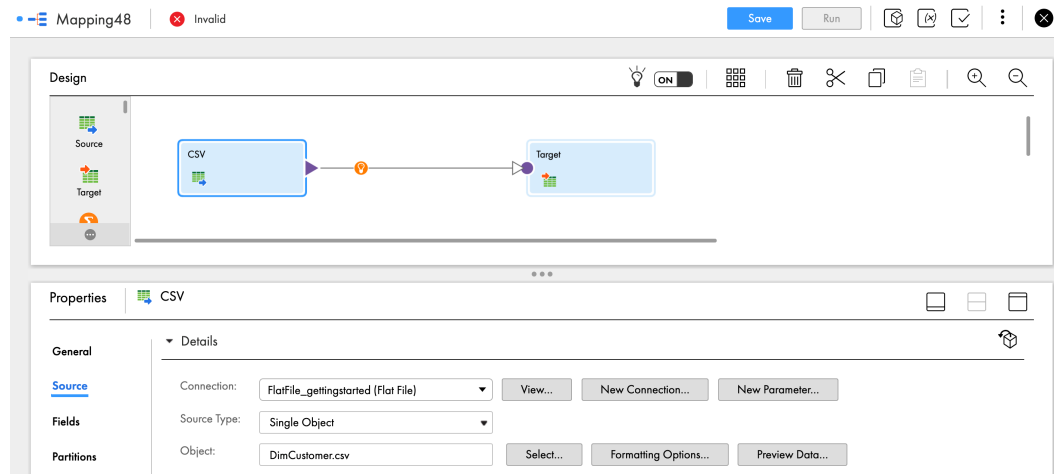
In this step, you load a CSV file from the flat file directory configured in flat file connection and write it to a table created during runtime in Google BigQuery. Use the same CSV file that you used in the previous step.

1. In Data Integration, click **New** to open the **New Asset** dialog box.
2. In the **New Asset** dialog box, click **Mappings** in the menu on the left, select **Mapping**, and click **Create**.
3. When the mapping opens, enter the mapping name in the **Name** field:

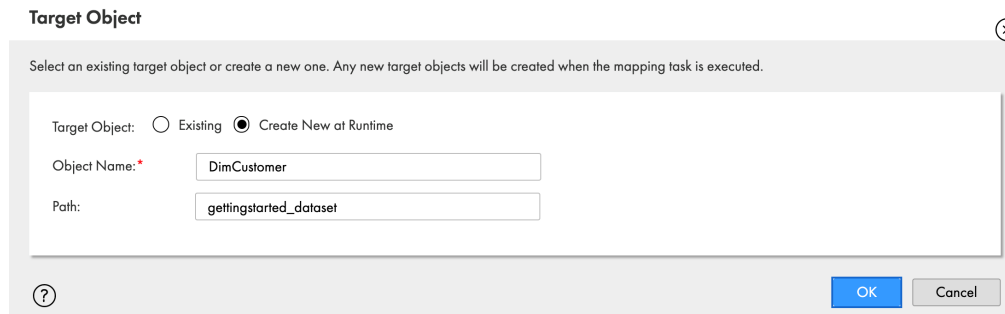


4. Click the Source transformation in the canvas.
5. On the **General** tab, update the name of the Source transformation to reflect the actual object.
In this case, the source is a CSV file.
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 - a. In the **Connection** field, select the flat file connection that you created.
 - b. Click **Select** next to the **Object** field to select the CSV file.
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- c. Optionally, click **Preview Data** if you want to view the first few rows of the data file.



7. Click the **Target** transformation in the canvas.
8. On the **General** tab, update the name of the Target transformation to reflect the actual object. In this case, the target is Google BigQuery.
9. Click the **Target** tab, and perform the following steps:
 - a. In the **Connection** field, select the Google BigQuery V2 connection that you created.
 - b. Click **Select** next to the **Object** field to create the target file.
 - c. Select **Create New at Runtime**.
 - d. In the **Object Name** field, enter the name of the target file that will be created.
 - e. In the **Path** field, enter the name of the Google BigQuery dataset where the table will be created:



For information about creating Google BigQuery datasets, see [this GCP guide](#).

10. Click **Save**.
11. Click the **Field Mapping** tab.

When you create a new target object, IICS automatically creates and maps fields from incoming fields, which come from the source dataset in this case, to the target:

Properties | Google_BigQuery

Fields will be mapped automatically, as you have chosen to create a new target object when you run the mapping task.

General

Incoming Fields: (29 of 29 mapped) Find

Field Name
CustomerKey
GeographyKey
CustomerAlternateKey
Title
FirstName
MiddleName
LastName
NameStyle
BirthDate
MaritalStatus
Suffix
Gender
EmailAddress
YearlyIncome
TotalChildren

Target Fields: (29 of 29 mapped) Find

Field Name	Mapped Field
CustomerKey	CustomerKey
GeographyKey	GeographyKey
CustomerAlternateKey	CustomerAlternateKey
Title	Title
FirstName	FirstName
MiddleName	MiddleName
LastName	LastName
NameStyle	NameStyle
BirthDate	BirthDate
MaritalStatus	MaritalStatus
Suffix	Suffix
Gender	Gender
EmailAddress	EmailAddress
YearlyIncome	YearlyIncome
TotalChildren	TotalChildren

Target

Target Fields

[Field Mapping](#)

12. Click **Run** in the top right corner of the screen:

CSV to Google BigQuery | Valid

Save Run

Design

Source Target

CSV Google_BigQuery

Properties | Google_BigQuery

General

Incoming Fields

Target

Target Fields

Field Mapping

Details

Connection: GoogleBigQuery_gettingstarted (Google... View... New Connection... New Parameter...

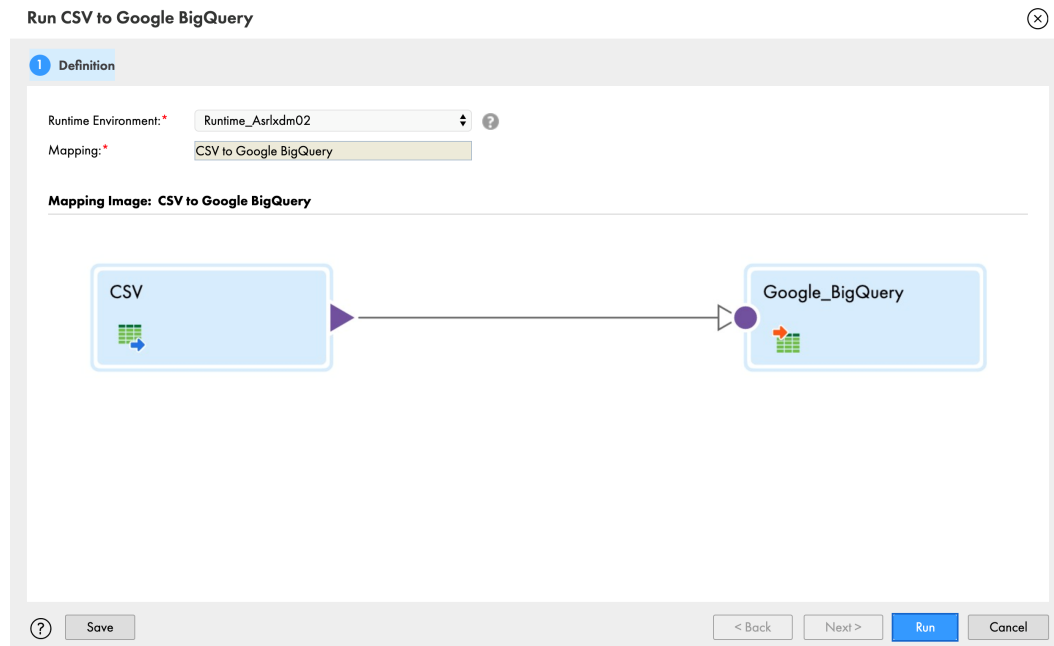
Target Type: Single Object

Object: gettingstarted_dataset/DimCustomer Select... Preview Data...

Operation: Insert

Advanced

13. Select the runtime environment, and then click **Run**:



14. Click **My Jobs** to open the job activity page:

My Jobs | Data Integration

Jobs (2 of 530) ☒ Up to date Updated 9:59:55 AM PST

Asset Name: CSV to Google BigQuery Add Field

Instance Name	Location	Subtasks	Start Time	End Time	Rows Processed	Status
CSV to Google BigQuery-2	Default		Jan 10, 2020, 9:55 AM	Jan 10, 2020, 9:...	18484	<input checked="" type="checkbox"/> Success

The target table is created in the Google BigQuery dataset:

Google Cloud Platform IICS on GCP

BigQuery FEATURES & INFO SHORTCUTS + COMPOSE NEW QUERY

Query history Saved queries Job history Transfers Scheduled queries Reservations BI Engine Resources + ADD DATA

Query editor HIDE EDITOR FULL SCREEN

DimCustomer QUERY TABLE COPY TABLE DELETE TABLE EXPORT

Schema Details Preview

Row	CustomerKey	GeographyKey	CustomerAlternateKey	Title	FirstName	MiddleName	LastName	NameStyle	BirthDate	MaritalStatus	Suffix	Gender	Em
1	11000	26	AW00011000	null	Jon	V	Yang	0	1971-10-06	M	null	M	jon2
2	11001	37	AW00011001	null	Eugene	L	Huang	0	1976-05-10	S	null	M	eug
3	11002	31	AW00011002	null	Ruben	null	Torres	0	1971-02-09	M	null	M	rube
4	11003	11	AW00011003	null	Christy	null	Zhu	0	1973-08-14	S	null	F	chri
5	11004	19	AW00011004	null	Elizabeth	null	Johnson	0	1979-08-05	S	null	F	eliza

Next steps

Congratulations on completing these Getting Started tasks!

There is much more that you can do with IICS. Please check out the [Cloud Data Integration documentation](#) on Informatica Network to find out more.

If you want to learn more about Informatica Intelligent Cloud Services on Google Cloud Platform, please [contact us](#).

Author

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