

# Heroku + Data Cloud

## Hands-on-Lab (HOL)/Workshop

### INTRODUCTION

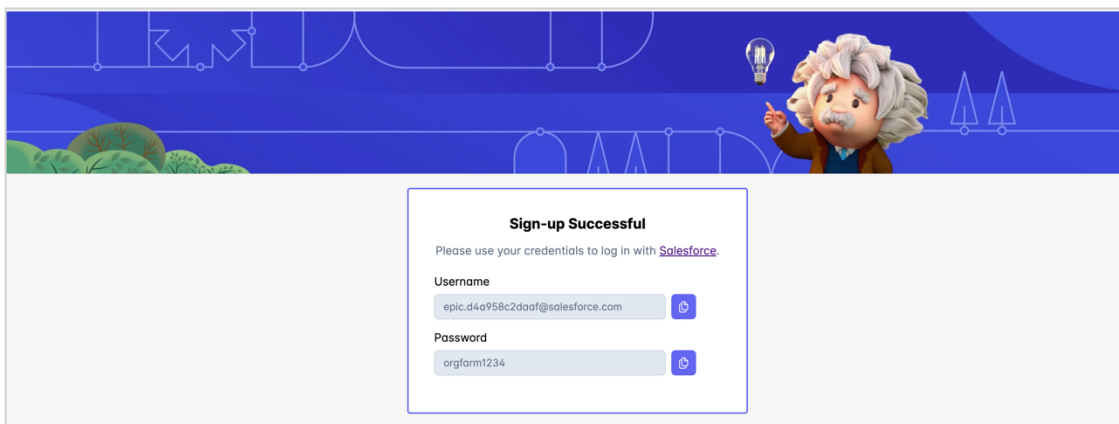
In this hands-on lab, you will learn how to connect your Heroku Postgres database to Salesforce Data Cloud, ingest data from a sample table, configure data actions that trigger webhooks, and verify that everything is working end-to-end. This lab will simulate how customer data flows from Heroku Postgres to Data Cloud, and how events can trigger external systems through webhooks.

### OVERVIEW OF THE LAB FLOW

- Establish a connection to your Data Cloud environment
- Set up the Heroku Postgres Connector for Data Cloud
- Synchronize sample data from Heroku Postgres to Data Cloud
- Set up a Data Action to send a message to a Heroku Webhook based on Data Cloud Events
- Verify & View the Data Action Event within the Webhook Event Viewer
- Ingest a new record from Heroku Postgres, watch it sync to Data Cloud
- Watch the Data Cloud Data Action event fire to the Heroku Webhook
- Watch the Webhook Viewer as events flow
- Think about how you might build rich, event-driven Heroku Apps that leverage Data Cloud

### PREREQUISITES

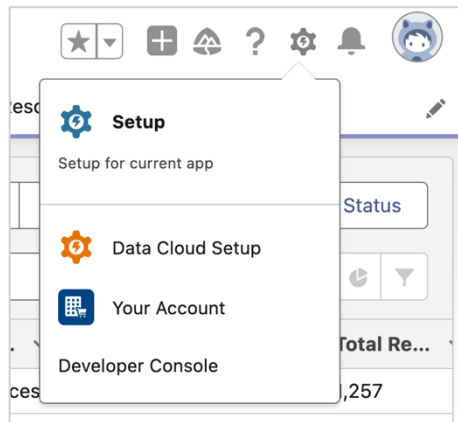
- Access to Salesforce Data Cloud
  - **Salesforce OrgFarm Data Cloud Orgs**
  - Event Code: 9osb2P
  - Event Name: Dreamforce 2024 - Rid 64
  - Signup Form: <http://sfdc.co/OrgFarmSignup>
    - You will receive a confirmation that looks as follows:



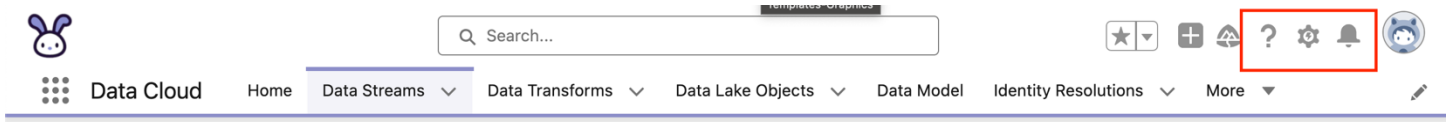
- Heroku Postgres database with credentials (provided for you below)
- Webhook URL for testing: <https://webhook.herokudemos.com>
- Completed the Login set up to your Salesforce Data Cloud instance (via email or above)

## STEP 1: LOG INTO DATA CLOUD->SETUP

- You should have received an email welcoming you to your Data Cloud instance, with instructions on how to verify and set up your login
- Log into your Data Cloud instance

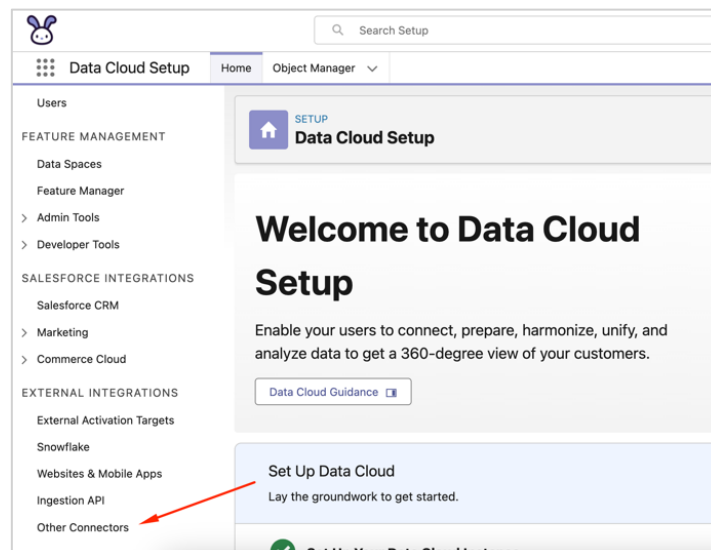


- Click the GEAR icon, Top Right of your environment
- Click Data Cloud Setup

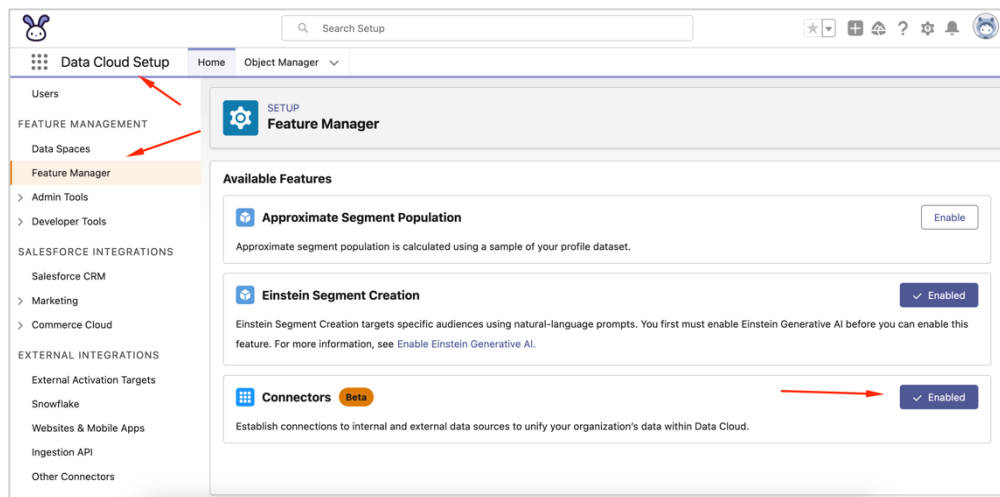


## STEP 2: CONFIGURE YOUR HEROKU POSTGRES CONNECTOR

- On the left side panel, scroll to the bottom and select **OTHER CONNECTORS**



- If required, you may need to enable **Additional Connectors**. To do this, go to **Setup->Search->Feature Manager** and Enable “**Connectors Beta**”

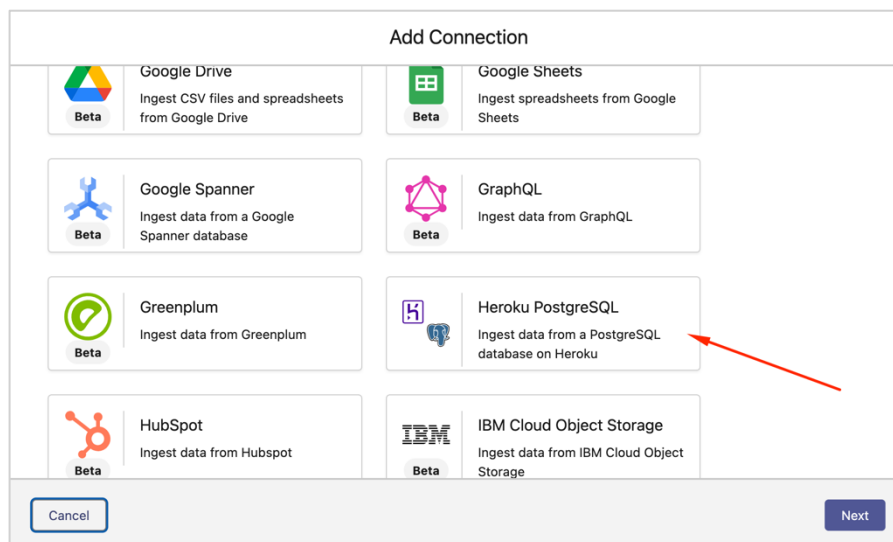


- On the Other Connectors screen, click **New**

The screenshot shows the Salesforce Setup interface for Connectors. The 'New' button is highlighted with a red arrow. Below the button is a table listing 7 connections.

Connection Name	Connection Type	Connector Method	Status	Last Modified
1 Heroku Logs	Google Big Query	Source	Active	Dec 07, 2023, 02:43 PM
2 BigQuery Demo	Google Big Query	Source	Active	Dec 07, 2023, 01:51 PM
3 fx-postgres	Heroku PostgreSQL	Source	Active	Jun 05, 2024, 12:20 PM
4 My_Heroku_PG_Connecti...	Heroku PostgreSQL	Source	Active	May 31, 2024, 02:39 PM
5 fx-datalake-commerce	Heroku PostgreSQL	Source	Active	May 31, 2024, 11:54 AM
6 fx-datalake-datacloud	Heroku PostgreSQL	Source	Active	Dec 18, 2023, 11:19 AM
7 fx-datalake-public	Heroku PostgreSQL	Source	Active	Jun 12, 2024, 11:31 AM

- On the **Add Connection** screen, find **Heroku Postgres** and click **Next**



- On the **New Heroku PostgreSQL Source** screen, fill in each property using the **Connection Details** listed below. Be sure to select **“Username and password of cloud account for authentication”** NOT **“Mutual TLS based authentication”**
- Heroku Postgres Database Connection Details**

The screenshot displays the 'New Heroku PostgreSQL Source' configuration form. It includes the following fields and sections:

- Connection Name:** DF HOL Heroku Postgres
- Connection API Name:** DF\_HOL\_Heroku\_Postgres
- Authentication Details:**
  - Username:** u7l23h4a5j9400
  - Password:** (masked with dots)
  - Authentication Method:** Username and password of cloud account for authentication (selected, indicated by a red arrow)
- Connection Details:**
  - Connection URL:** ec2-44-219-92-244.compute-1.amazonaws.com
  - Schema:** public (indicated by a red arrow)
  - Database:** d2fmuir1paa17l
- Test Connection:** A button that has been clicked, resulting in a green checkmark and the message 'Connection was established.'
- Navigation:** 'Back' and 'Save' buttons at the bottom.

- DATABASE\_URL:** postgres://u7l23h4a5j9400:p010763123fb8e1a4ca577dc0a094b9bf2c2e9775e1291fa16a4a374181ec7b93@ec2-44-219-92-244.compute-1.amazonaws.com:5432/d2fmuir1paa17l
  - Connection Name:** give it any name you'd like
  - Connection API Name:** this will auto-populate
  - Username:** u7l23h4a5j9400

- **Password:**  
p010763123fb8e1a4ca577dc0a094b9bf2c2e9775e1291fa16a4a374181ec7b93
- **Server Name:** ec2-44-219-92-244.compute-1.amazonaws.com
- **Port:** 5432
- **Database:** d2fmuir1paa17l
- **Schema:** public
- **Table:** dreamforce\_hol

- Click **Test** to verify the connection works as desired before moving on
- Assuming all goes well, click **Save**

SETUP > Connectors

**DF HOL Heroku Postgres** [Edit] [Delete] [Test]

Status	Last Modified Date	Connector Method
Active	9/14/2024, 12:35 PM	Ingress

**Authentication Details**

Username: u7l23h4a5j9400 Password: \*\*\*\*

Authentication Method: Username and password of cloud account for authentication

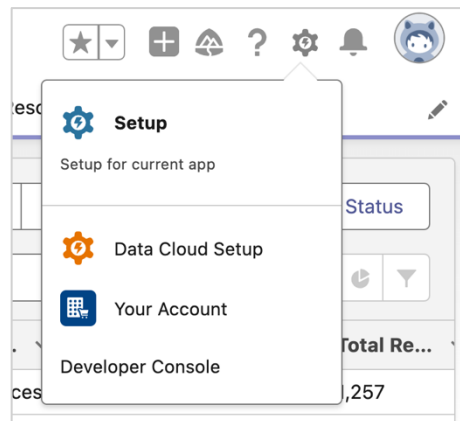
**Connection Details**

Connection URL: ec2-44-219-92-244.compute-1.amazonaws.com Schema: public

Database: d2fmuir1paa17l

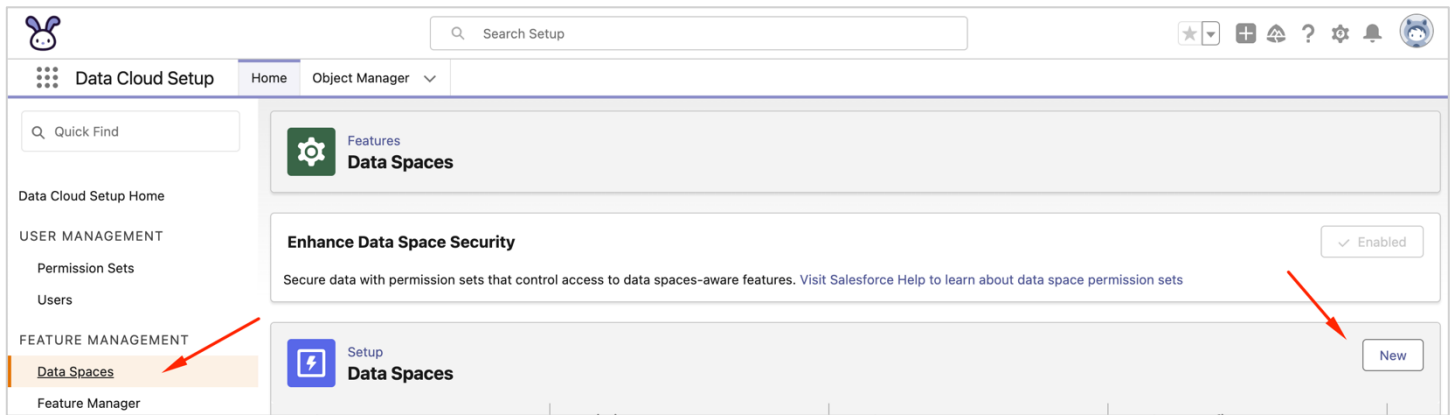
### STEP 3: CONFIRM/CREATE A DATA SPACE

- Click **Data Cloud Setup**



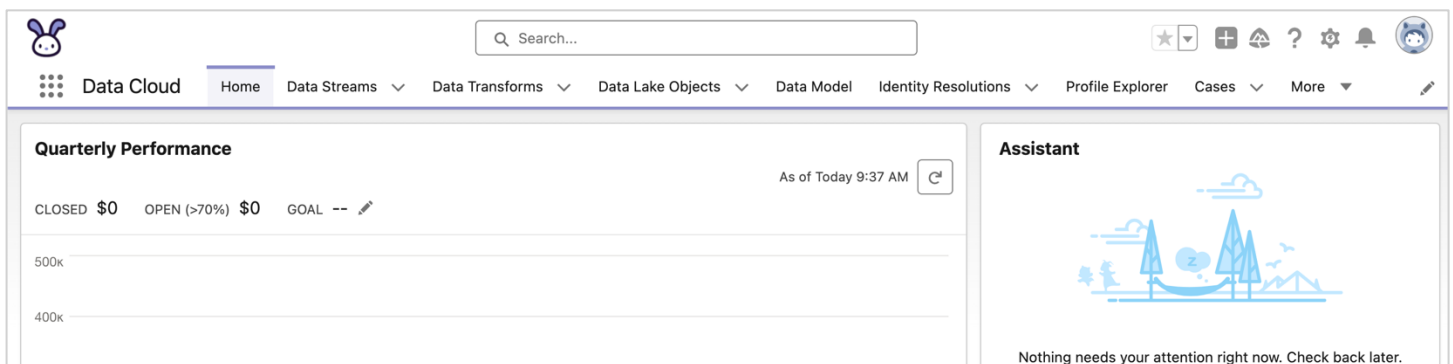
- Click **Data Spaces**

- If you do not have a **Default Data Space** present (the name does not matter), then simply click **New** to create a New Data Space

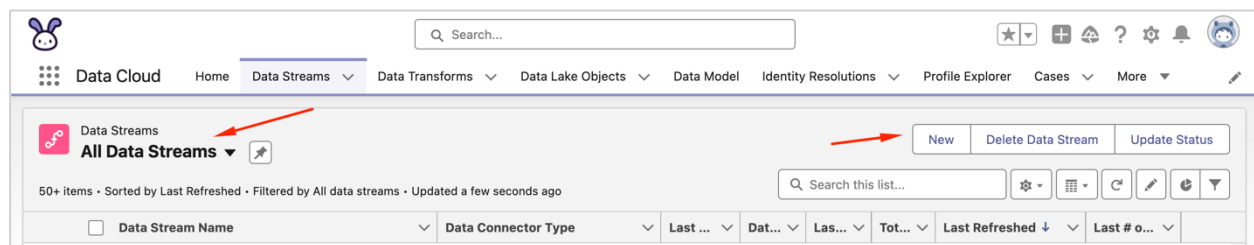


## STEP 4: CONFIGURE YOUR DATA CLOUD DATA STREAM INGESTION

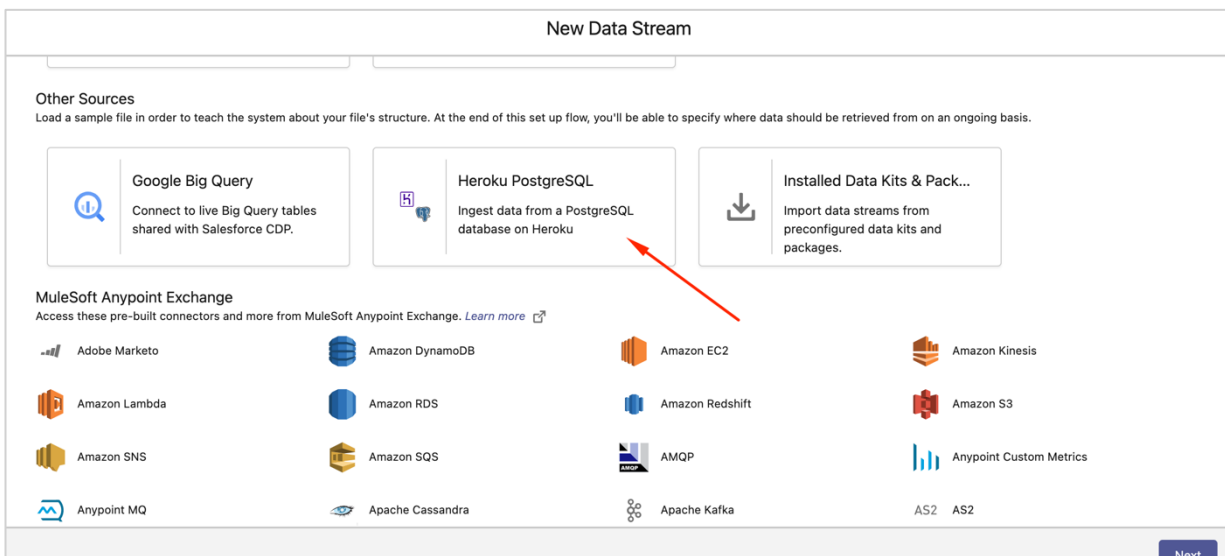
- Exit out of **Data Cloud Setup** and return to the main Data Cloud **Home** tab within the Data Cloud Application



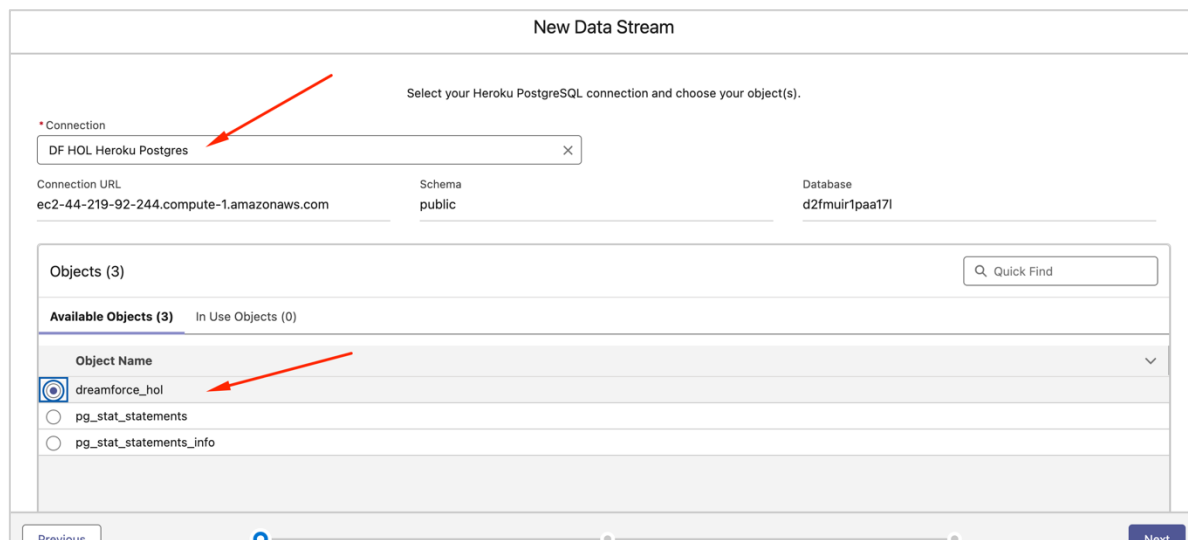
- Click **Data Streams** from the top Tab bar, then select “**Recently Viewed**” (if applicable) and select **All Data Streams** to ensure you are seeing all available Data Streams (you may repeat this step in the future if you cannot see a created Data Stream for some reason)
- Click **New** to create a **New Data Stream**



- In the **New Data Stream** popup, select **Heroku PostgreSQL** and click **Next**



- Click the **Connection** drop-down and select the name of the **Heroku PostgreSQL Connection** you created in **Data Cloud Setup** previously
- Click the “**dreamforce\_hol**” Object from the **Available Objects** list



- On the next New Data Stream page, configure your screen as follows:
  - **Data Lake Object:** New Data Lake Object
  - **Data Lake Object Label:** DF HOL Heroku Postgres
  - **Properties:**
    - **Category:** Other
    - **Primary Key:** select “pkid” from the list of fields
    - **Record Modified Field:** select “event\_datetime” from the list of fields
    - **Organizational Unit Identifier:** select “event\_source” from the list

- **Supported Fields:** select **all** to include all fields in the Data Stream

**New Data Stream**

Select the data lake object your data will land in, configure object details, and manage your fields.

\* Data Lake Object: New Data Lake Object

\* Data Lake Object Label: DF HOL Heroku Postgres

\* Data Lake Object API Name: DF\_HOL\_Heroku\_Postgres

**Properties**

Category: ☐ Profile ☐ Engagement ☒ Other

You can't change the Category after saving the data stream. Consider billing and functional implications when making this decision. [Learn More](#) [in Help](#)

\* Primary Key: pkid

☐ Use Composite Key

Record Modified Field: event\_datetime

Organization Unit Identifier: event\_source

**dreamforce\_hol (12)** New Formula Field

**Supported Fields (9)** Unsupported Fields (0) Lineage Fields (3) Formula Fields (0)

	Source Header	Field Label	Field API Name	Data Type
1	<input checked="" type="checkbox"/> email_address	email_address	email_address	Text
2	<input checked="" type="checkbox"/> event_datetime	event_datetime	event_datetime	DateTime (MM/dd/yyyy HH:mm:ss.SSS)
3	<input checked="" type="checkbox"/> event_id	event_id	event_id	Text
4	<input checked="" type="checkbox"/> event_source	event_source	event_source	Text
5	<input checked="" type="checkbox"/> event_type	event_type	event_type	Text
6	<input checked="" type="checkbox"/> first_name	first_name	first_name	Text
7	<input checked="" type="checkbox"/> last_name	last_name	last_name	Text
8	<input checked="" type="checkbox"/> phone_number	phone_number	phone_number	Number
9	<input checked="" type="checkbox"/> pkid	pkid	pkid	Text

Previous Next

- On the final screen, ensure the **Data Stream Name** is correct, select the **Default Data Space** (or one you created) is selected
- Select **Incremental** for **Refresh Mode**
- Ensure “**event\_datetime**” is still selected for **Record Modified Date-time**
- Leave all other fields alone including **Schedule->Frequency** which should remain at **None**

**New Data Stream**

\* Record Modified Date-time: event\_datetime

Delete Record Flag: Select an Option

Refresh Source: Heroku PostgreSQL

Connection: DF HOL Heroku Postgres

Connection URL: ec2-44-219-92-244.compute-1.amazonaws.com

Schema: public

Database: d2fmuir1paa171

\* Object Name: dreamforce\_hol

Filter:

**Schedule**

\* Frequency: None

☒ Refresh Data Stream Immediately

Previous Deploy

## STEP 5: VERIFY YOUR HEROKU POSTGRES DATA STREAM

- Go back to the **Data Stream** tab on the Data Cloud application

- Verify your Heroku Postgres Data Stream is saved and the **Last Run Status** shows either **Pending** or **Success**

The screenshot shows the Salesforce Data Cloud interface. At the top, there's a navigation bar with tabs like 'Data Cloud', 'Home', 'Data Streams', 'Data Transforms', 'Data Lake Objects', 'Data Model', 'Identity Resolutions', 'Profile Explorer', 'Data Shares', and 'More'. The 'Data Streams' tab is selected.

Below the navigation bar, there's a section for the 'Data Stream' named 'DF HOL Heroku Postgres'. It includes buttons for '+ Follow', 'Refresh Now', 'Add Source Fields', and 'New Formula Field'. Below this, there's a table with columns: Stream Type, Data Stream Status, Last Run Status, Last Refreshed, Last Processed Records, and Total Records. The 'Last Run Status' is 'Pending'.

On the right side, there's a 'Data Mapping' section. It contains a message about data mappings having ethics, privacy, and consent considerations. Below this, it says 'Only mapped fields or objects with relationships can be used for segmentation and insights'. At the bottom of this section, it shows 'Data Space: Main Consumer Apps', 'Fields mapped: 0/0', and a 'Start' button.

## STEP 6: MAP THE DATA STREAM TO THE DATA MODEL

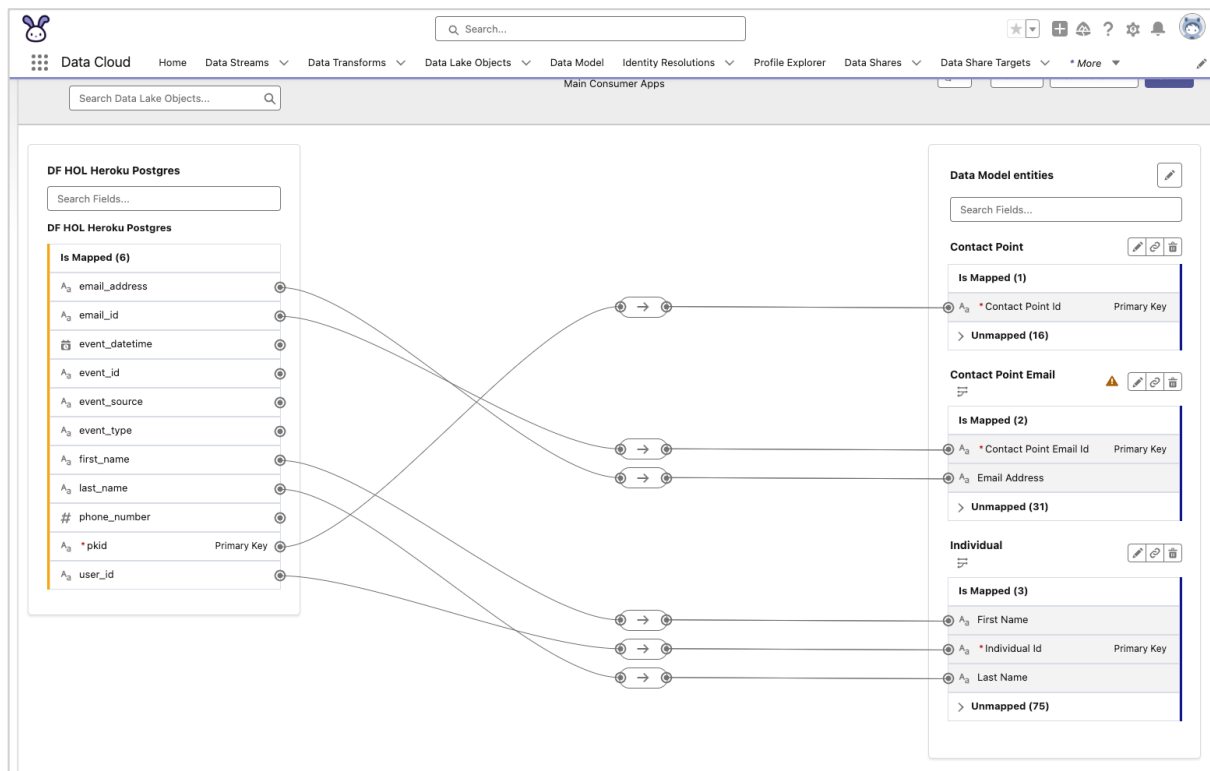
- From within the **Data Cloud App**, click **Data Streams** and locate your Heroku Postgres Data Stream
- On the right side, under **Data Mapping**, click **Start**

This screenshot is similar to the previous one, but the 'Last Run Status' is now 'Success' and the 'Last Refreshed' time is '9/14/2024, 10:37 AM'. The 'Last Processed Records' and 'Total Records' are both '50'.

The 'Data Mapping' section on the right is the same, but a red arrow points to the 'Start' button, indicating the next step in the process.

- On the right side, under Data Model entities, click Select Objects and select the following:


- **Individual**
- **Contact Point**
- **Contact Point Email**
- You'll notice some of the fields, like **Email Address**, automatically are mapped for you
- Map the following fields and then hit **Save**:
  - pkid -> Individual.Individual ID
  - email\_id -> Contact Point Email Id
  - user\_id -> Individual.Individual ID



## STEP 7: VERIFY THE DATA FROM HEROKU POSTGRES HAS BEEN INGESTED

- Click on **Data Explorer** on the Top Menu
- Select your **Data Space** -> Select **Data Lake Object** -> Select your **Heroku Postgres Data Stream Name**

- You should now see all rows that have been ingested from Heroku Postgres via the Heroku Postgres for Data Cloud Connector



★


+

🔍

?

⚙️

🔔



Data Cloud

Home

Data Streams

Data Transforms

Data Lake Objects

Data Model


Identity Resolutions

Profile Explorer

Data Shares

Data Explorer

More

 Data Explorer

Objects

Copy SQL

Edit Columns

🔗

⌵

Data Space

Main Consumer Apps

Object

Data Lake Object

DF HOL Heroku Postgre

Total Columns

21

📅

Date and time values use your time zone settings.

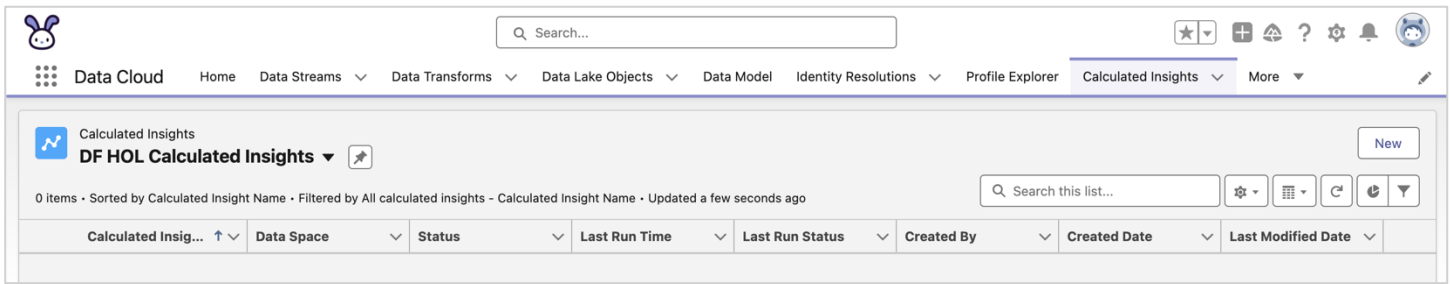
<input type="checkbox"/>	Data Source	Data Source Obj...	email_address	email_id	event_datetime	event_id	event_source	event_type	first_name
<input type="checkbox"/>	HerokuPostgres_DF_HO...	HerokuPostgres_DF_HO...	xholloway@gmail.com	0dc0273d-a2ad-45b2-b...	5/14/2020, 03:40 PM	5b7cf1c4-2123-4596-b...	heroku	order_placed	Alison
<input type="checkbox"/>	HerokuPostgres_DF_HO...	HerokuPostgres_DF_HO...	stacie83@doyle-jones.biz	44719d7b-dbf5-41ad-8...	3/13/2020, 10:26 PM	cc93c993-5e27-44b9-...	heroku	view_product	Joseph
<input type="checkbox"/>	HerokuPostgres_DF_HO...	HerokuPostgres_DF_HO...	reillyjennifer@mays-zim...	07b78985-e339-4b35-...	7/19/2024, 09:36 AM	e17bf159-a92d-45a3-9...	heroku	order_placed	Steven
<input type="checkbox"/>	HerokuPostgres_DF_HO...	HerokuPostgres_DF_HO...	qmiller@gmail.com	67169430-4d20-4882-...	11/23/2020, 01:30 PM	8a250711-5b9e-4b66-8...	heroku	order_placed	Vanessa
<input type="checkbox"/>	HerokuPostgres_DF_HO...	HerokuPostgres_DF_HO...	robertsemily@yahoo.com	ce671d64-24f3-4ed9-8...	2/9/2020, 10:51 AM	6e0dea11-cad1-4619-8b...	heroku	order_placed	Brooke
<input type="checkbox"/>	HerokuPostgres_DF_HO...	HerokuPostgres_DF_HO...	tamara66@villa.com	e32412bc-6e1b-4be6-b...	12/4/2020, 12:51 AM	e3c82d46-f954-4903-...	heroku	order_placed	Kim
<input type="checkbox"/>	HerokuPostgres_DF_HO...	HerokuPostgres_DF_HO...	hayesbrandon@clark.com	69f3c93f-3b0c-4062-a...	4/10/2023, 11:10 PM	ab6cc862-eb24-4cf6-b...	heroku	view_product	Sarah
<input type="checkbox"/>	HerokuPostgres_DF_HO...	HerokuPostgres_DF_HO...	thomaspeters@hotmail.c...	30263829-41f2-4c58-b...	4/1/2023, 02:15 AM	98588ce4-05b1-4643-...	heroku	order_placed	Alec

## STEP 8: CREATE A CALCULATED INSIGHT

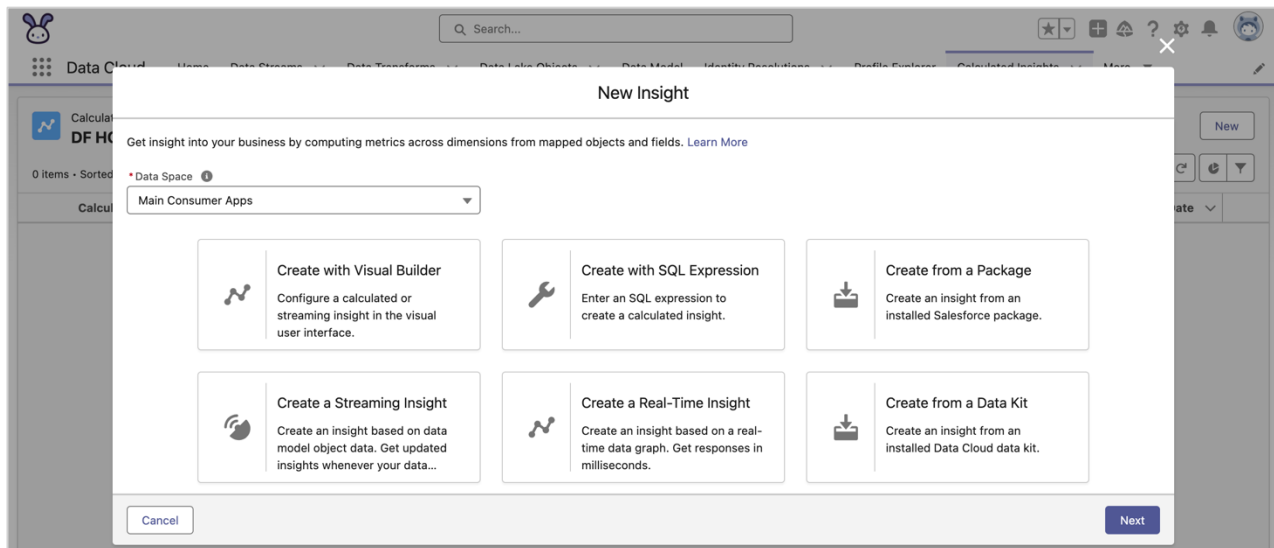
For this exercise, we'll create a Calculated Insight that we will then use to trigger a Data Action when the value changes. The full sequence will look something like:

**Data is synchronized from Postgres->Calculated Insight value changes->Data Action fires**

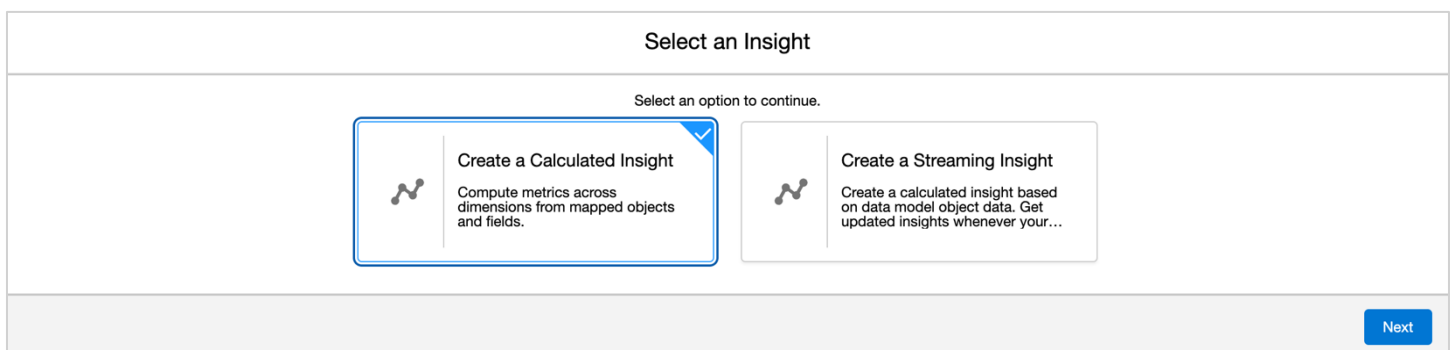
- Click **Calculated Insights** from the **Data Cloud App** Top Tab



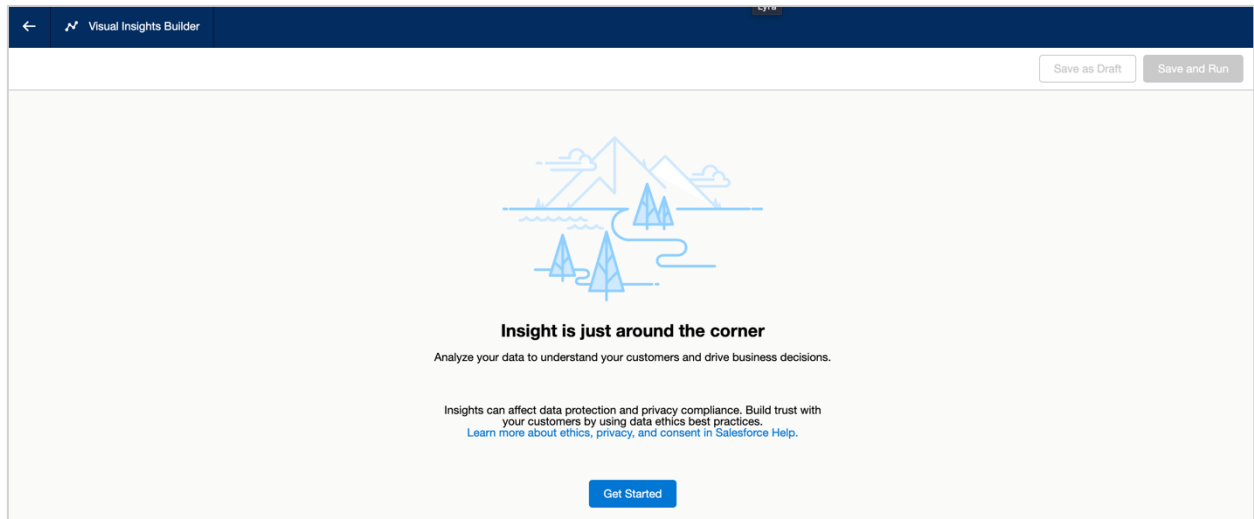
- Click **New**
- Select your **Data Space**



- Click **Create a Calculated Insight** and click **Next**



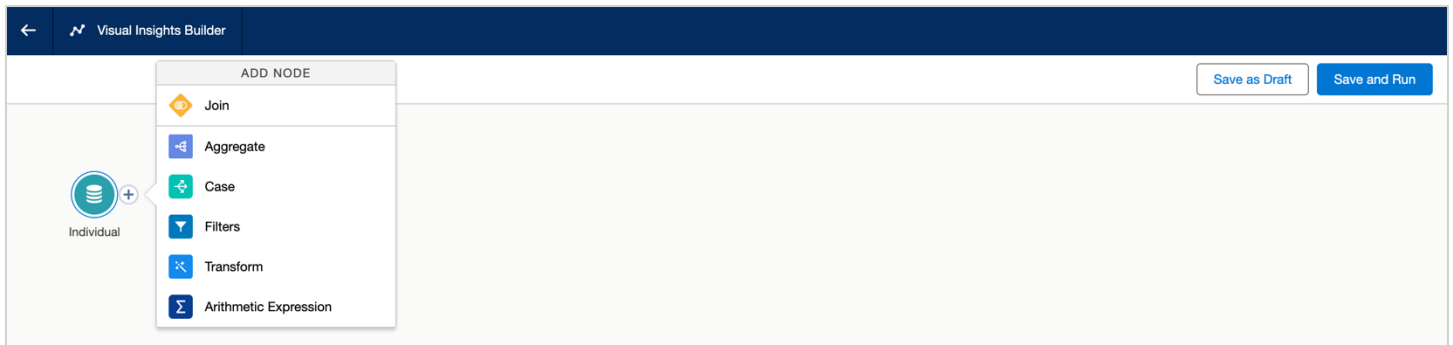
- Select **Create with Visual Builder**



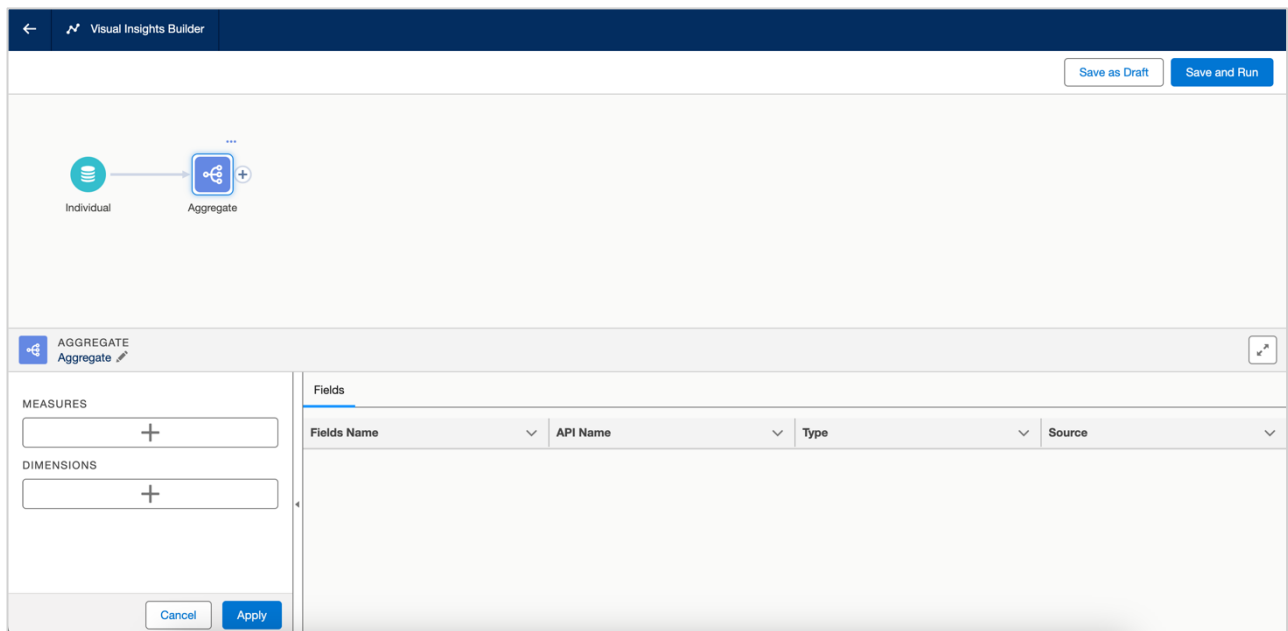
- Click **Get Started**
- Search for **Individual** in the search box and select it

Select Input Data		
<input type="text" value="Individual"/>		
Object Label	Type	FIELDS (INDIVIDUAL)
<input checked="" type="radio"/> Individual	Standard	Search Fields
<input type="radio"/> Unified Individual 1001	Derived	<input type="text"/>
<input type="radio"/> Unified Individual 1002	Derived	Fields
<input type="radio"/> Unified Link Individual 1001	Bridge	Birth Date
<input type="radio"/> Unified Link Individual 1002	Bridge	Created Date
		Current Employer Name
		Data Source
		Data Source Object
		First Name
		Individual Id
		Internal Organization
		Key Qualifier First Name KQ
		Key Qualifier Individual Id KQ
		Key Qualifier Last Name KQ

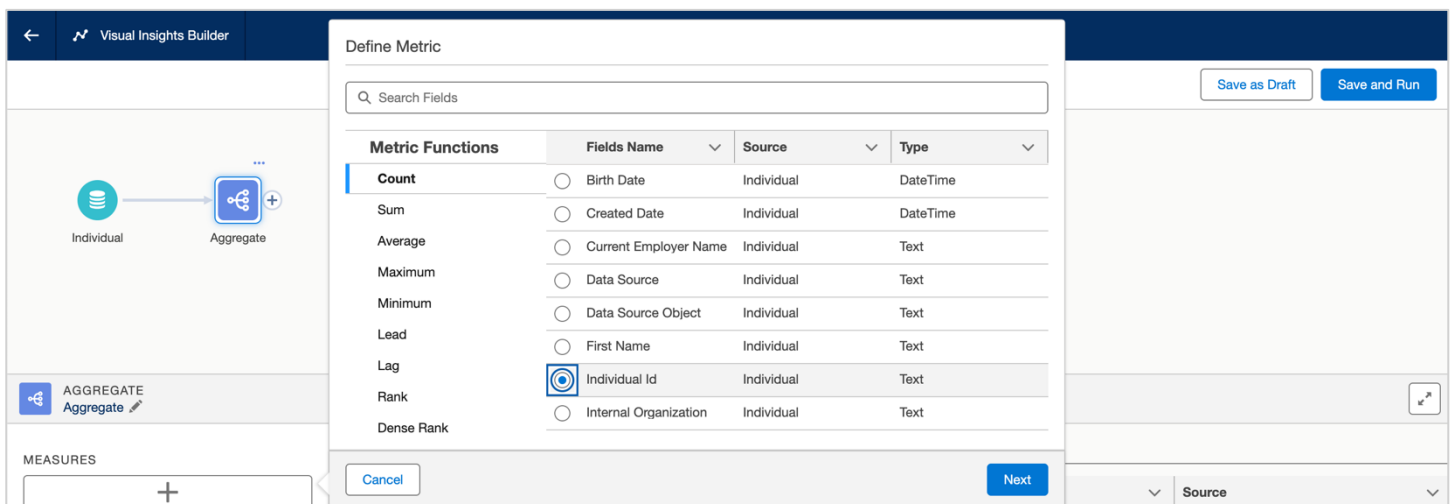
- Click the + sign next to the **Individual** icon



- Click **Aggregate**



- Click **Measures** and Select **COUNT** from the list of **METRIC FUNCTIONS**, Click Next
- Select **Individual ID** from the list of fields



- When asked, give your Metric a name, something like **Count of Heroku Postgres Records**
- Click **Apply**
- Click **Save and Run**
- When prompted, give your Insight a name, something like **DF HOL Insight**
- For the Schedule, select **Every 1 Hour**
- Click **Enable**
- Your **Calculated Insight** will now be ready for us to use in the next Step

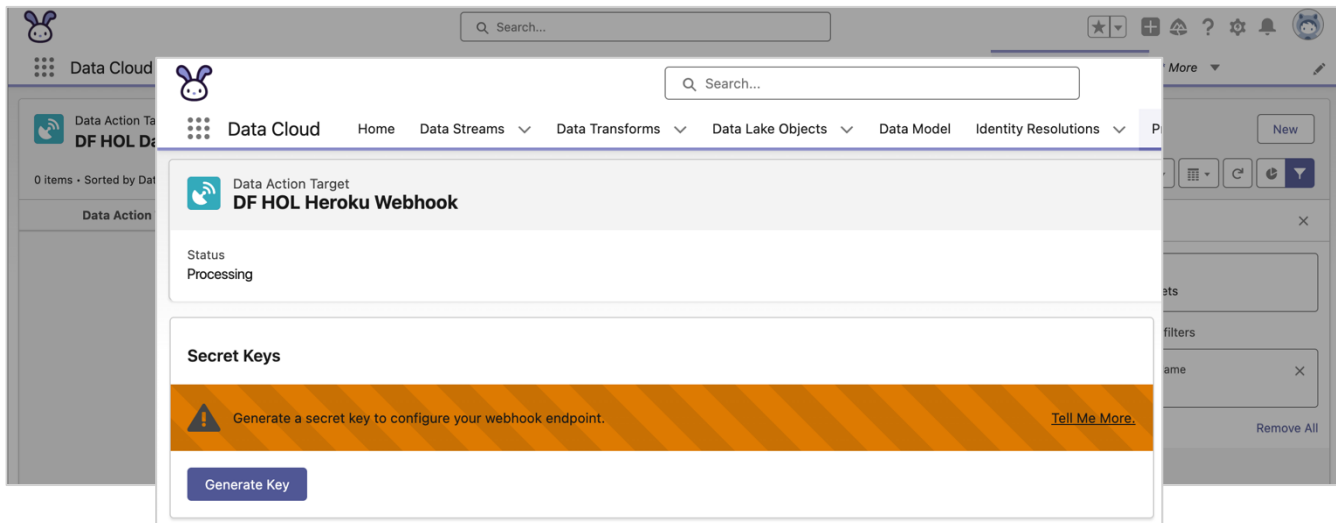
The screenshot shows the Data Cloud interface. At the top is a navigation bar with a search bar and various icons. Below it is a menu bar with options like Home, Data Streams, Data Transforms, Data Lake Objects, Data Model, Identity Resolutions, Profile Explorer, Calculated Insights (selected), and More. The main content area displays the 'Calculated Insight' for 'DF HOL Insight'. It includes a header with a 'Follow' button and action buttons (Edit, Disable, Clone). Below this is a table with columns: Data Space (Main Consumer Apps), Status (Active), Last Run Time, and Last Run Status. A 'Details' tab is selected, showing fields for Insight Name (DF HOL Insight), API Name (DF\_HOL\_Insight\_\_cio), Description, Insight Type (Calculated), and Schedule (Every 1 Hour). On the right, there is a 'Post' section with a 'Share' button and a search bar for the feed.

## STEP 9: CREATE A DATA ACTION TARGET & ACTION ON NEW RECORDS

For this final exercise, we will set up a Data Action to fire an event to our Heroku Webhook so our Heroku Application can be notified, gather the relevant payload information, and translate that into a meaningful feature or personalization or engagement activity.

- Click **Data Action Targets** from within the **Data Cloud App**
- Click **New Data Action Target**
- Populate the values as follows:
  - **Data Action Target Name:** DF HOL Heroku Webhook
  - **Data Action Target API Name:** This will auto-populate
  - **Data Action Target Type:** Webhook
  - **URL to Publish:** <https://webhook.herokudemos.com/sfdc>

- Click **Save**



- Click **Generate Key**
- Click **Data Actions** from the **Data Cloud App** Top Tab
- Click **New Data Action**
- Select the **Data Action Target** you created in the preview step above and click **Next**

New Action			
<b>Data Action Target</b> Choose where to send the payload when the change data event triggers. ⓘ			
Data Action Target Name	Target Type	Created By	Modified Date
<input type="radio"/> Atlis AI Webhook	Webhook	David Baliles	Sep 12, 2024
<input type="radio"/> Atlis AI Zap	Webhook	David Baliles	Sep 12, 2024
<input type="radio"/> Data Cloud Demo Web Event Target	Salesforce Platform Event	David Baliles	Apr 16, 2024
<input type="radio"/> DF HOL Heroku Webhook	Webhook	David Baliles	Sep 16, 2024
<input checked="" type="radio"/> Dreamforce DAT	Webhook	Demo User	Sep 10, 2024
<input type="radio"/> Ecommerce Demo Target	Salesforce Platform Event	David Baliles	Jul 15, 2023
<input type="radio"/> Heroku Click Events Target	Salesforce Platform Event	David Baliles	Feb 17, 2024
<input type="radio"/> herokuClickEventWebhookTarget	Webhook	David Baliles	Sep 12, 2024
<input type="radio"/> Test DataCloud SDK Action Target (cwall)	Webhook	Demo User	Sep 04, 2024

- Select your **Data Space**
- In **Object Type**, select **Calculated Insight**

- In **Primary Object**, select the name you gave your **Calculated Insight** and hit **Next**

New Action

\* Data Space

Main Consumer Apps

\* Object Type

Calculated Insight

\* Primary Object

DF HOL Insight

Data Action Target

DF HOL Heroku Webhook Webhook

Data Space

Main Consumer Apps

Primary Object

DF HOL Insight  
Calculated Insight

Back

✓

Next

- For the next screen, select all of the following attributes:
  - **Event Rules:** Record Created, Record Updated, Record Deleted
  - **Action Rules:** leave the default
  - **Trigger Data Action for Updated Records:** leave the default

New Action

Event Rules ⓘ

Select record actions that trigger the action.

☒ Record Created
 ☒ Record Updated
 ☒ Record Deleted

Action Rules

\* Publish data when:

All Conditions are Met (AND)

+ Add Condition

Trigger Data Action for Updated Records ⓘ

☒ (Default) Every time a record update meets these conditions
 ☐ Only the first time a record update meets these conditions

Data Action Target

DF HOL Heroku Webhook Webhook

Data Space

Main Consumer Apps

Primary Object

DF HOL Insight  
Calculated Insight

Event Rules

Record Created

OR

Record Updated

OR

Record Deleted

Back

✓

✓

Next

- Click **Next**

- Give your **Data Action** a name and click **Save and Publish**

### New Action

**Action Name**

**Action API Name**

**Description**

This Data Action will fire when the Count of Individual IDs changes

[Back](#)

[Save and Publish](#)

**Data Action Target**

DF HOL Heroku Webhook Webhook

**Data Space**

Main Consumer Apps

**Primary Object**

DF HOL Insight Calculated Insight

**Event Rules**

Record Created **OR** Record Updated **OR** Record Deleted

- Your **Data Action** is now ready to fire back to the **Heroku Webhook** as soon as that Calculated Insight value changes

[Data Cloud](#)
[Home](#)
[Data Streams](#)
[Data Transforms](#)
[Data Lake Objects](#)
[Data Model](#)
[Identity Resolutions](#)
[Profile Explorer](#)
[Data Shares](#)
[Data Actions](#)
[More](#)

**Data Action**  
**DF HOL Data Action**

[Delete](#)
[Edit](#)

**Data Space**

[Main Consumer Apps](#)

**Status**

Active

**Created By**

David Baliles, 9/16/2024, 7:13 AM

**Managed By**

Data Cloud User

**Created Date**

9/16/2024, 7:13 AM

**Last Modified Date**

9/16/2024, 7:13 AM

**Configuration** Details

**Action Targets (1)**

	Data Action Target Name	Status	Target Type
1	DF HOL Heroku Webhook	ACTIVE	Webhook

**Event Rules**

Record Created **OR** Record Updated **OR** Record Deleted

**Conditions**

None

Post

Poll

Question

[Share](#)

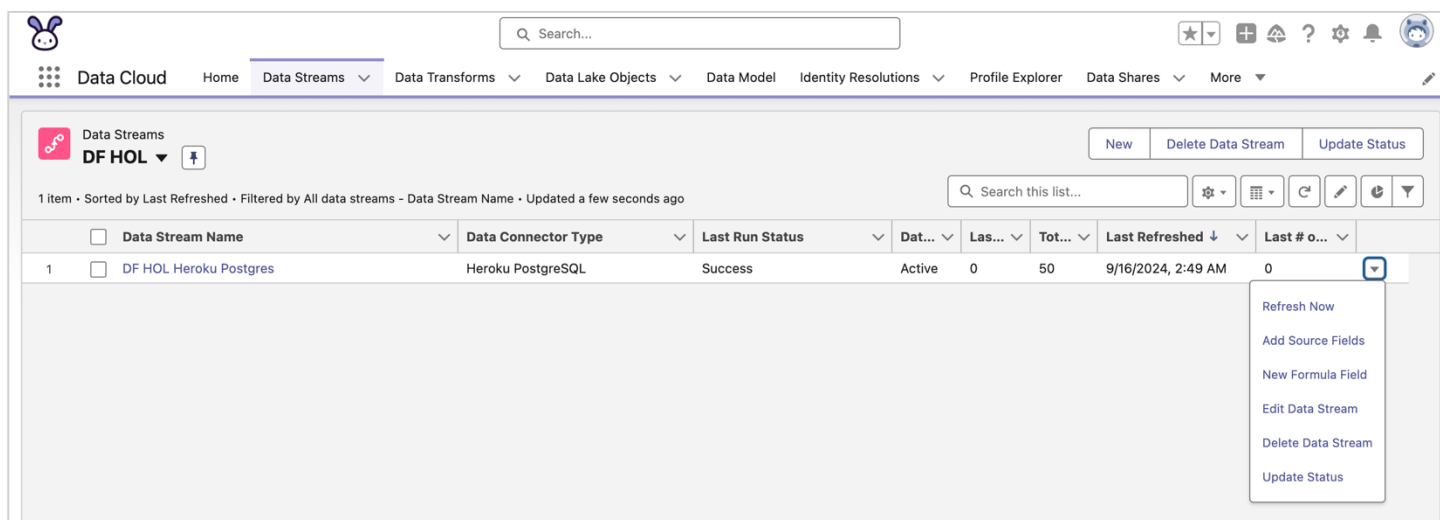
## STEP 10: SEND IN NEW RECORDS - WATCH THE EVENTS FIRE TO HEROKU

For this final exercise, we'll see everything flow back to the Heroku Webhook, where we can explore all the possibilities for what a Heroku App might do with this new ability to leverage Data Cloud and Heroku together to drive more personalized, real-time applications

**Your Workshop Leader(s) will now send some new records into your Heroku Postgres database, which will trigger your Heroku Postgres Connector for Data Cloud to ingest the new records.**

To Refresh these new records without waiting for the sync schedule to kick in, perform the following:

- Click **Data Streams**
- Select your Heroku Postgres Data Lake (created by the Data Stream)
- In the drop-down selector on the far right, click **Refresh Now**

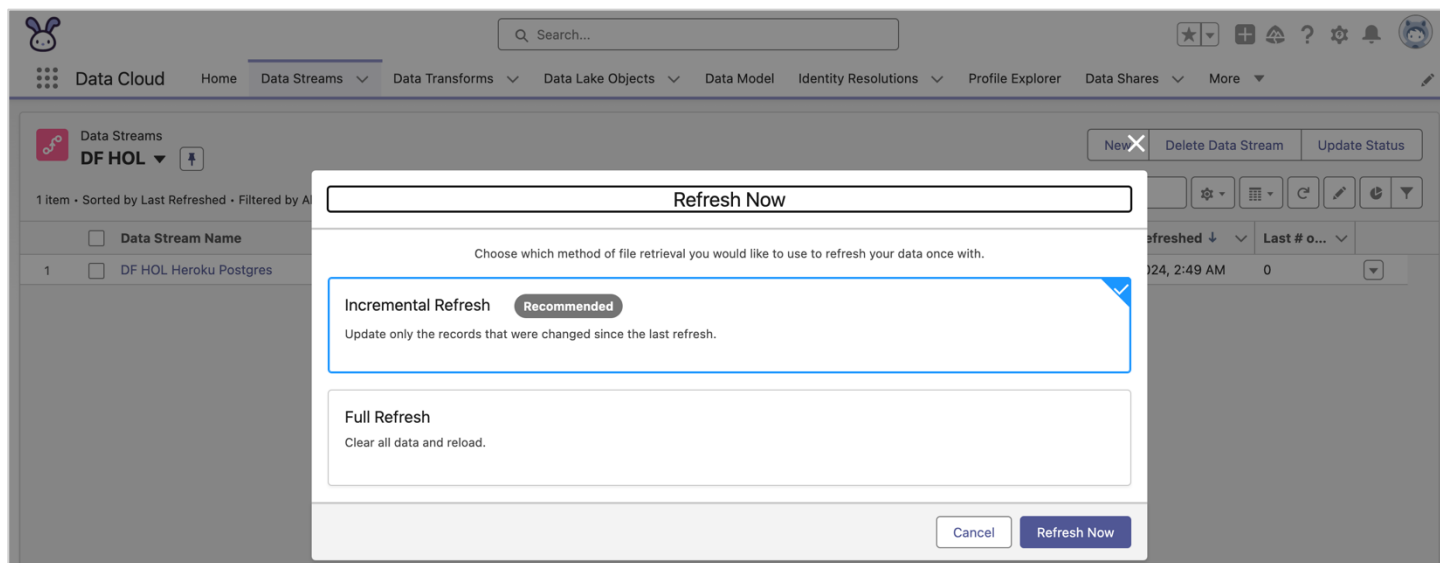


The screenshot shows the Data Cloud interface with the 'Data Streams' tab selected. A table lists data streams, and a dropdown menu is open for the 'DF HOL Heroku Postgres' stream, showing the 'Refresh Now' option.

	Data Stream Name	Data Connector Type	Last Run Status	Dat...	Las...	Tot...	Last Refreshed	Last # o...
1	DF HOL Heroku Postgres	Heroku PostgreSQL	Success	Active	0	50	9/16/2024, 2:49 AM	0

- Refresh Now
- Add Source Fields
- New Formula Field
- Edit Data Stream
- Delete Data Stream
- Update Status

- Select **Incremental Refresh** when prompted



The screenshot shows the 'Refresh Now' dialog box in the Data Cloud interface. The 'Incremental Refresh' option is selected, and the 'Full Refresh' option is also visible.

**Refresh Now**

Choose which method of file retrieval you would like to use to refresh your data once with.

**Incremental Refresh** Recommended  
Update only the records that were changed since the last refresh.

**Full Refresh**  
Clear all data and reload.















Cancel Refresh Now

- ## Stream Refresh

switching to a full demo of everything we just completed but in a real-world scenario.

## STEP 11: OBSERVE OUR DATA ACTION ON THE HEROKU WEBHOOK

- <https://webhook.herokuapp.com/webhook-events>

Webhook Events		Time	Events	Source
<div> <div></div> <div>Archived Events</div> </div>		09/16/2024 07:34:35	{ "EventType": "CDCEvent", "EventPrompt": "INSERT", "PayloadPrevValue": "", "ActionDeveloperName": "DF_HOL_Data_Action", "PayloadCurrentValue": "15877", "CreatedBy": "00000000-0000-0000-0000-000000000000", "Data": { "Offset": { "string": "15877" }, "EventType": { "string": "CDCEvent" }, "CreatedBy": "00000000-0000-0000-0000-000000000000" } }	
		09/16/2024 06:09:02	{ "id": "7b6e4a5d-0bfa-4a77-aeb3-2ce9ea0afa00", "data": { "Offset": { "string": "15877" }, "EventType": { "string": "CDCEvent" }, "CreatedBy": "00000000-0000-0000-0000-000000000000" } }	
		09/16/2024 06:09:02	{ "id": "66b1ae67-4f64-4bcd-b95e-6bfcd285b191", "data": { "Offset": { "string": "15878" }, "EventType": { "string": "CDCEvent" }, "CreatedBy": "00000000-0000-0000-0000-000000000000" } }	
		09/16/2024 06:09:02	{ "id": "7b6e4a5d-0bfa-4a77-aeb3-2ce9ea0afa00", "data": { "Offset": { "string": "15877" }, "EventType": { "string": "CDCEvent" }, "CreatedBy": "00000000-0000-0000-0000-000000000000" } }	
		09/16/2024 04:25:02	{ "id": "610bf6ae-8874-4a85-a26a-011d495a36b9", "data": { "Offset": { "string": "15862" }, "EventType": { "string": "CDCEvent" }, "CreatedBy": "00000000-0000-0000-0000-000000000000" } }	
		09/16/2024 04:25:02	{ "id": "689ed38b-1df3-4f05-aa2b-d28998f8bdd9", "data": { "Offset": { "string": "15863" }, "EventType": { "string": "CDCEvent" }, "CreatedBy": "00000000-0000-0000-0000-000000000000" } }	
		09/16/2024 09:25:01	{ "EventType": "CDCEvent", "EventPrompt": "INSERT", "PayloadPrevValue": "", "ActionDeveloperName": "Atlas_AI_Click_Events", "PayloadCurrentValue": "15878", "CreatedBy": "00000000-0000-0000-0000-000000000000", "Data": { "Offset": { "string": "15878" }, "EventType": { "string": "CDCEvent" }, "CreatedBy": "00000000-0000-0000-0000-000000000000" } }	
		09/16/2024 06:09:02	{ "id": "66b1ae67-4f64-4bcd-b95e-6bfcd285b191", "data": { "Offset": { "string": "15878" }, "EventType": { "string": "CDCEvent" }, "CreatedBy": "00000000-0000-0000-0000-000000000000" } }	
		09/16/2024 04:25:02	{ "EventType": "CDCEvent", "EventPrompt": "INSERT", "PayloadPrevValue": "", "ActionDeveloperName": "Atlas_AI_Click_Events", "PayloadCurrentValue": "15864", "CreatedBy": "00000000-0000-0000-0000-000000000000", "Data": { "Offset": { "string": "15864" }, "EventType": { "string": "CDCEvent" }, "CreatedBy": "00000000-0000-0000-0000-000000000000" } }	
		09/16/2024 09:25:32	{ "EventType": "CDCEvent", "EventPrompt": "INSERT", "PayloadPrevValue": "", "ActionDeveloperName": "Atlas_AI_Click_Events", "PayloadCurrentValue": "15878", "CreatedBy": "00000000-0000-0000-0000-000000000000", "Data": { "Offset": { "string": "15878" }, "EventType": { "string": "CDCEvent" }, "CreatedBy": "00000000-0000-0000-0000-000000000000" } }	
		09/16/2024 04:25:02	{ "id": "dccb9b99-b716-4945-bf71-6d27ef7a66f9", "data": { "Offset": { "string": "15864" }, "EventType": { "string": "CDCEvent" }, "CreatedBy": "00000000-0000-0000-0000-000000000000" } }	
		09/16/2024 09:38:06	{ "EventType": "CDCEvent", "EventPrompt": "INSERT", "PayloadPrevValue": "", "ActionDeveloperName": "Atlas_AI_Click_Events", "PayloadCurrentValue": "15878", "CreatedBy": "00000000-0000-0000-0000-000000000000", "Data": { "Offset": { "string": "15878" }, "EventType": { "string": "CDCEvent" }, "CreatedBy": "00000000-0000-0000-0000-000000000000" } }	
		09/16/2024 09:38:06	{ "EventType": "CDCEvent", "EventPrompt": "INSERT", "PayloadPrevValue": "", "ActionDeveloperName": "Atlas_AI_Click_Events", "PayloadCurrentValue": "15878", "CreatedBy": "00000000-0000-0000-0000-000000000000", "Data": { "Offset": { "string": "15878" }, "EventType": { "string": "CDCEvent" }, "CreatedBy": "00000000-0000-0000-0000-000000000000" } }	
		09/16/2024 06:09:02	{ "id": "66b1ae67-4f64-4bcd-b95e-6bfcd285b191", "data": { "Offset": { "string": "15878" }, "EventType": { "string": "CDCEvent" }, "CreatedBy": "00000000-0000-0000-0000-000000000000" } }	

- Data Stream are displayed with the **Data Cloud** logo.

## CONCLUSION: WHAT HAVE WE LEARNED HERE TODAY?

Today we've learned how to begin using two key areas of the Heroku + Data Cloud platform, leveraging the Data Exchange to sync Heroku Postgres data to Data Cloud, and how to send Intelligent Insights to Heroku Apps based on Events. If you're interested in learning more, please visit our Heroku + Data Cloud sessions here at Dreamforce or visit [www.heroku.com](https://www.heroku.com)