

Syncing data to Snowflake with Powered by Fivetran

Hands-on Lab



Before we start



Open [lab details doc](#)
(keep open in toolbar)



Ask questions!
(technical support is here to help)



Open [lab slide deck](#)



[AFTER EVENT]
Rewatch via on-demand
recording



What are we doing?

In the next 90 min, you will:

1. Spin up a trial Snowflake account
2. Launch a trial Fivetran account through Snowflake
3. Sync sample data to Snowflake using Fivetran
4. Use the Fivetran API to enable your users to
connect data to Snowflake themselves

Your instructors



Ripu Jain
Sr. Partner
Engineer



Jose Rosario
Sr. Sales
Engineer



Shane Swiderek
Product Marketing
Manager



Polling question #1

Have you used Snowflake or Fivetran prior to this workshop?

Standard Fivetran vs Powered by Fivetran

Standard Fivetran

Integrate data from internal systems for any use.



Powered by Fivetran

Integrate data from customers into your software product.



Snowflake Data Cloud



Snowflake Summit Innovation Areas



[See all sessions](#)

ENTERPRISE DATA FOUNDATION

Geometry support, Data Gov, Cost Gov,
On-Prem + Iceberg support

BRING DEV TO DATA

Snowpipe **Streaming**, MTs, Snowpark
Python, SQL ML (timeseries forecasting)

PRODUCTIZE DEVELOPMENT

Global **Data Clean Rooms**,
Marketplace Monetization

NATIVE APPS

Build and monetize apps, deploy them in
customer's snowflake account

CYBERSECURITY

Unify security data for enhanced visibility
and threat detection & response

UNISTORE

Work with transactional and analytical
data together, via **Hybrid Tables**

Snowflake Summit Innovation Areas

ENTERPRISE DATA FOUNDATION

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<https://www.snowflake.com/summit-sessions/>

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Build and monetize apps, deploy them in
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Unify security data for enhanced visibility
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UNISTORE

Work with transactional and analytical
data together, via **Hybrid Tables**

Snowflake Summit Innovation Areas

ENTERPRISE DATA FOUNDATION

• Performance & Geospatial:

- 10% average faster compute for AWS (in progress)
- 10% faster write-heavy workloads (GA)
- 5x faster searches on maps (PuPr soon)
- GEOMETRY support (PuPr soon)

• Governance

- Tag-based Masking (PuPr soon)
- Data Governance UI (PrPr soon)
- Column Lineage (PrPr soon)

• Cost Governance

- Resource Groups & Budgets (PrPr)

• Replication

- Client Redirect (GA soon)
- Pipeline Replication (PrPr)
- Account Replication (PuPr soon)

• Data Access

- External Tables for On-Premises (PrPr soon)
- Native Iceberg Tables in Snowflake (PrPr soon)

Snowflake Summit Innovation Areas

BRING
DEVELOPMENT TO
DATA

- **Streaming Pipelines**

- Snowpipe Streaming (PrPr)
- Materialized Tables (Dev)

- **Python**

- Snowpark for Python (PuPr)
- Unstructured Data Processing with Python (PrPr soon)
- Python Authoring (PrPr)
- Streamlit Integration (Dev)

- **Machine Learning**

- Large Memory Instances (Dev)
 - SQL ML (PrPr)
-

Snowflake Summit Innovation Areas

- **Collaboration:**

- Global Data Clean Rooms (PrPr)
- Listing Discovery Controls (PrPr)

- **Marketplace:**

- Access & Monetize Applications (PrPr), functions, and data
- Monetization (GA)

**PRODUCTIZE
DEVELOPMENT**

**NATIVE
APPLICATION
FRAMEWORK**

ACX IOM

aidentified

Affinio

ALT

Capital One Slingshot

coherent

Disruptiv
Data

elysium
ANALYTICS

FullContact

Goldman
Sachs

hobu



infoSecur

infutor
A Verisk Business

MATILLION

mdo
My Data Outlet

neustar
A TransUnion Company

/Live
Ramp

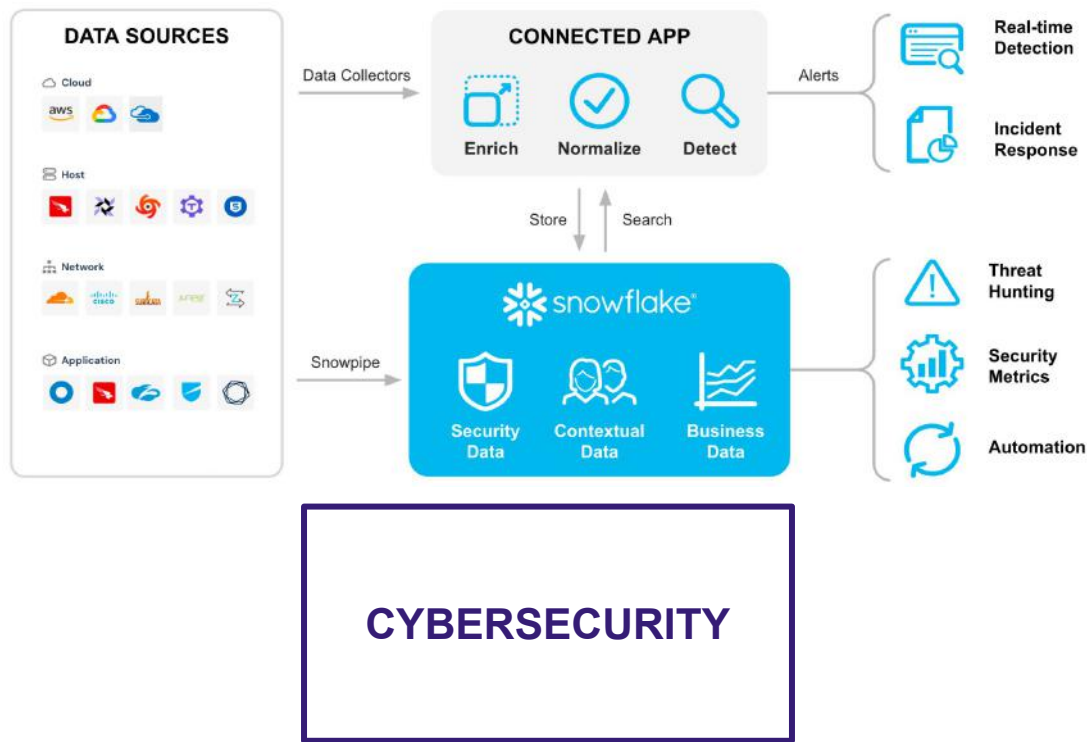
PROTEGRITY

ROBLING

segment

videoamp

Snowflake Summit Innovation Areas



Snowflake Summit Innovation Areas



Single Dataset

Power the future of modern development by immediately driving analytics on transactional data.



Transactional Workloads

Fast, single-row operations for simple and streamlined enterprise transactional app development directly on Snowflake.



All in Snowflake

Simplify architectures, eliminate data movement and have a unified approach to data governance.

UNISTORE

Snowflake Account Setup

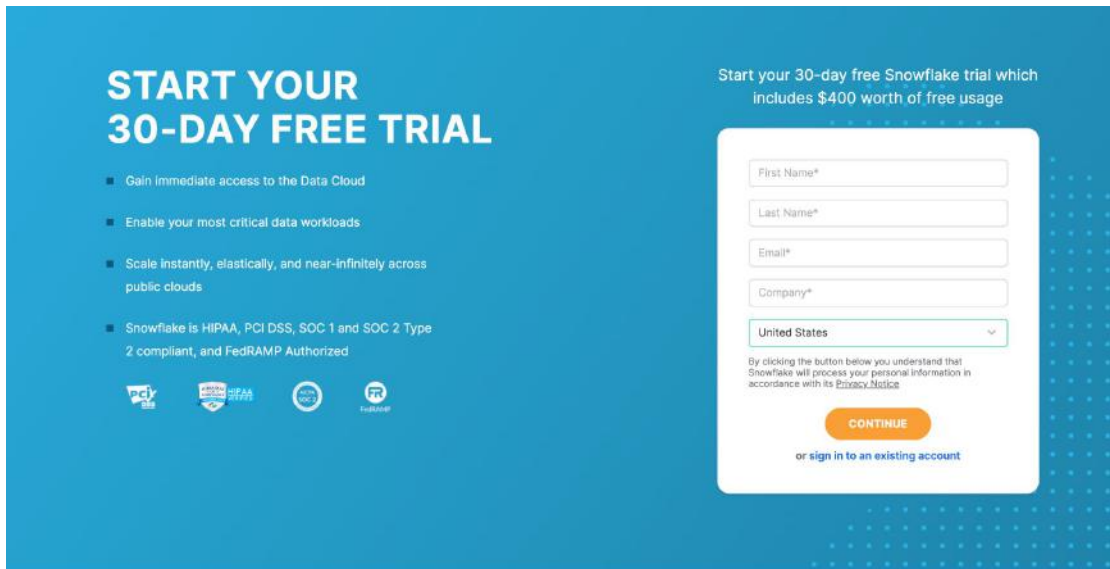
* If you already have an active Snowflake account (with ACCOUNTADMIN role access), but not a Fivetran account, you can log in to your snowflake and fast forward to [this slide](#).

** If you already have an active Snowflake account AND Fivetran account (with a non-Snowflake warehouse), go [here](#) to manually set up Snowflake as a destination.

Spin up a trial Snowflake account

Go to trial.snowflake.com

1. Complete the form
2. Click **CONTINUE**



The screenshot shows the Snowflake trial sign-up page. The background is blue with a pattern of small white dots. The main heading is "START YOUR 30-DAY FREE TRIAL" in white. Below it, there are four bullet points listing benefits: "Gain immediate access to the Data Cloud", "Enable your most critical data workloads", "Scale instantly, elastically, and near-ininitely across public clouds", and "Snowflake is HIPAA, PCI DSS, SOC 1 and SOC 2 Type 2 compliant, and FedRAMP Authorized". Below these are four logos: PCI, HIPAA, SOC 1, and SOC 2. To the right, there is a white box containing a form with fields for "First Name*", "Last Name*", "Email*", "Company*", and a dropdown for "United States". Below the form is a "CONTINUE" button and a link "or sign in to an existing account". Above the form, it says "Start your 30-day free Snowflake trial which includes \$400 worth of free usage".

START YOUR 30-DAY FREE TRIAL

- Gain immediate access to the Data Cloud
- Enable your most critical data workloads
- Scale instantly, elastically, and near-ininitely across public clouds
- Snowflake is HIPAA, PCI DSS, SOC 1 and SOC 2 Type 2 compliant, and FedRAMP Authorized

pci dss HIPAA SOC 1 SOC 2

Start your 30-day free Snowflake trial which includes \$400 worth of free usage

First Name*

Last Name*

Email*

Company*

United States

By clicking the button below you understand that Snowflake will process your personal information in accordance with its [Privacy Notice](#)

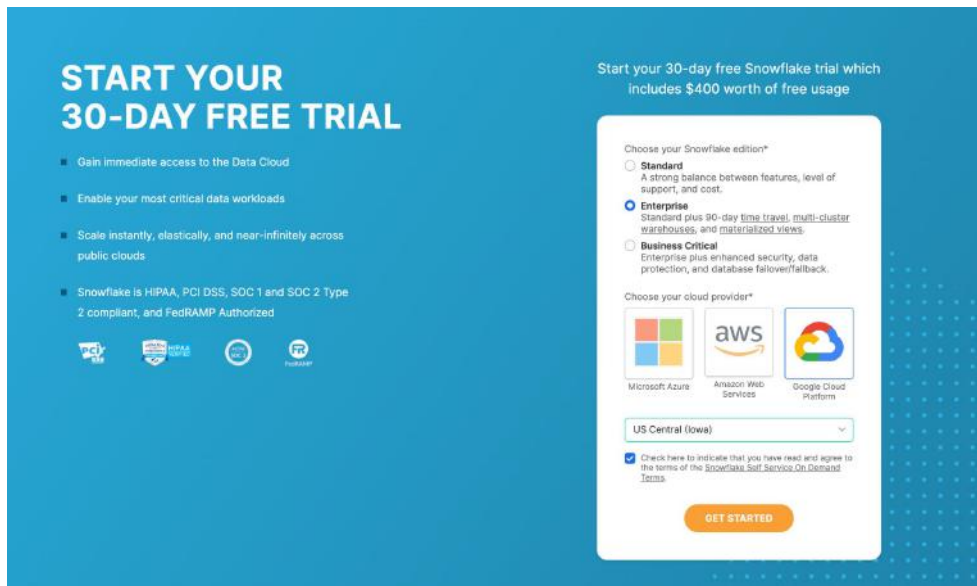
CONTINUE

[or sign in to an existing account](#)



Spin up a trial Snowflake account

1. Choose your preferred Snowflake edition
2. Choose your cloud provider
3. Select a Region
4. Check box to agree
5. Click **GET STARTED**



The screenshot shows the Snowflake trial sign-up interface. On the left, a blue banner contains the title 'START YOUR 30-DAY FREE TRIAL' and a list of benefits: 'Gain immediate access to the Data Cloud', 'Enable your most critical data workloads', 'Scale instantly, elastically, and near-ininitely across public clouds', and 'Snowflake is HIPAA, PCI DSS, SOC 1 and SOC 2 Type 2 compliant, and FedRAMP Authorized'. Below this are logos for PCI, HIPAA, SOC 1, and SOC 2. On the right, a white form area contains the text 'Start your 30-day free Snowflake trial which includes \$400 worth of free usage'. It has a section 'Choose your Snowflake edition*' with three radio buttons: 'Standard' (unselected), 'Enterprise' (selected), and 'Business Critical' (unselected). The 'Enterprise' option is described as 'Standard plus 90-day time travel, multi-cluster warehouses, and materialized views'. Below this is a section 'Choose your cloud provider*' with three icons: Microsoft Azure, Amazon Web Services, and Google Cloud Platform. A dropdown menu shows 'US Central (Iowa)' selected. At the bottom, there is a checked checkbox for 'Check here to indicate that you have read and agree to the terms of the Snowflake Self-Serve On-Demand Terms' and an orange 'GET STARTED' button.

START YOUR 30-DAY FREE TRIAL

- Gain immediate access to the Data Cloud
- Enable your most critical data workloads
- Scale instantly, elastically, and near-ininitely across public clouds
- Snowflake is HIPAA, PCI DSS, SOC 1 and SOC 2 Type 2 compliant, and FedRAMP Authorized

Start your 30-day free Snowflake trial which includes \$400 worth of free usage

Choose your Snowflake edition*

☐ **Standard**
A strong balance between features, level of support, and cost.

☒ **Enterprise**
Standard plus 90-day time travel, multi-cluster warehouses, and materialized views.

☐ **Business Critical**
Enterprise plus enhanced security, data protection, and database failover/failback.

Choose your cloud provider*

☐ Microsoft Azure

☐ Amazon Web Services

☐ Google Cloud Platform

US Central (Iowa)

☒ Check here to indicate that you have read and agree to the terms of the [Snowflake Self-Serve On-Demand Terms](#)

GET STARTED



Choose Snowflake edition and cloud provider

Scale instantly, elastically, and near-indefinitely across public clouds

Snowflake is HIPAA, PCI DSS, SOC 1 and SOC 2 Type 2 compliant, and FedRAMP Authorized

Standard plus 90-day time travel, 3 warehouses, and materialized view

☐ Business Critical
Enterprise plus enhanced security, protection, and database failovers

Choose your cloud provider*

☐ Microsoft Azure ☒ Amazon Web Services

US Central (Iowa)

☒ Check here to indicate that you have read the terms of the [Snowflake SaaS Service Level Terms](#)

GET STARTED

Select all squares with traffic lights

VERIFY



Start your 30-day free Snowflake trial which includes \$400 worth of free usage

YOU'RE NOW SIGNED UP! ✓

An email to activate your account has been sent to s.swiderek132@gmail.com (it may take a few minutes to arrive).

Why did you sign up for a Snowflake account today?

☐ Company is considering Snowflake

☒ Virtual hands-on lab or demo

☐ Training or certification

☐ Attending an in-person event

☐ Personal learning and development

☐ Other

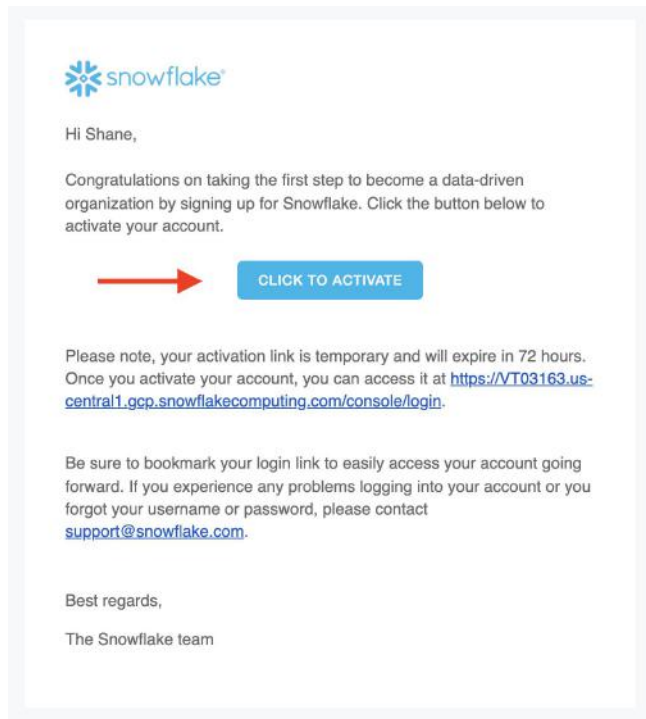
Submit



Open confirmation email and click 'CLICK TO ACTIVATE'

☐ ☆ **Snowflake Computing** **Activate Your Snowflake Account!** -

Email should take ~30 seconds to appear in your inbox



Create Username & Password and Sign in



Welcome to Snowflake!

Shane Swiderek, please choose a username and password to get started

Username

Username can contain only letters and numbers.

Password

Your password must be 8 - 256 characters and contain at least 1 number(s), 0 special character(s), 1 uppercase and 1 lowercase letter(s).

Confirm password

Get started



Sign in to Snowflake

Username

Password

Sign in



You're in!

SS

Shane Swiderek
ACCOUNTADMIN

Worksheets

Dashboards

Data

Marketplace

Activity

Admin

Help & Support

Learn

Support

Classic Console

38 days left in trial

Upgrade

Ok

F142437

Learn



Snowflake Trial
Understand your Snowflake Trial



Upload Your Data
Bring your local data into your trial

Foundations

Snowflake 101

Learn the basics of Snowflake, from terminology to concepts



Snowflake Architecture
Key concepts and architecture



Warehouses
Snowflake's parallel compute technology used for queries



Credits
Understand how Snowflake calculates your usage costs



Key Features
Snowflake's differentiators and key features



Users
Understand how to create and manage users



Access Controls
Understand how to manage access for users and roles



Snowflake Editions
Understand the differences between Snowflake editions



SnowSQL
Access Snowflake via CLI using SnowSQL



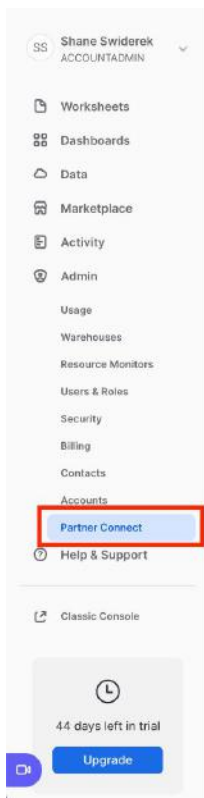
Setup Cost Controls
Hands on guides to understand cost controls

Loading Data

Snowflake is better with data. Bring in your data from wherever it lives



Click 'Admin' → 'Partner Connect'



Partner Connect

Search Partner Connect

All Categories Business Intelligence CI/CD Data Integration More ▾

Providers All Status All

Business Intelligence



Domo
High-leverage BI on Snowflake with mobile-first, intelligent apps for business.



Sigma
Maximize Snowflake's value. Governed self-service analytics & BI for all. Faster insights.



Sisense
Empowering builders to simplify complex data and transform it into powerful analytic apps.



ThoughtSpot
Search & AI-driven Analytics on all your data.

CI/CD



DataOps.live
CI/CD and DataOps for Snowflake. Truly agile data ingestion, modeling and transformation.



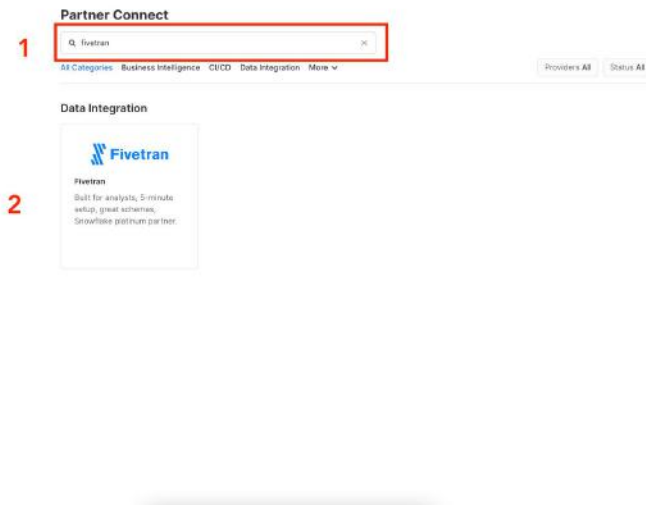
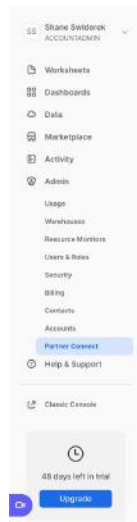
SqlDBM
Cloud Data Modeling for Snowflake. Develop DB/DW without writing a single line of code.

Data Integration



Find Fivetran Tile

1. Type '**Fivetran**' into search bar
2. Click Fivetran tile



Connect to Fivetran

Click **Connect**

Partner Connect

Q fivetr

All Categories

Data Integration

Fivetran

Built for setup

Snowflake

Connect to Fivetran

Fivetran requires the following information to create your new trial account: first name, last name, and email address.

In order to configure the connection with Snowflake, the following objects will be created in your Snowflake account:

Database	PC_FIVETRAN_DB
Warehouse	PC_FIVETRAN_WH (X-Small)
System User	PC_FIVETRAN_USER
System Password	Autogenerated & Randomized
System Role	PC_FIVETRAN_ROLE Role PUBLIC will be granted to the PC_FIVETRAN_ROLE Role PC_FIVETRAN_ROLE will be granted to the SYSADMIN role

Optional Grant ▾

By clicking on connect you are instructing Snowflake to create the above objects and provide all of the above information to Fivetran. Fivetran's processing of this information, and your use of Fivetran, are governed solely by Fivetran's [Terms of Use](#) and Fivetran's [Privacy Policy](#) and not your agreement with Snowflake.

Please contact [Snowflake Support](#) if you have questions about connecting with Fivetran

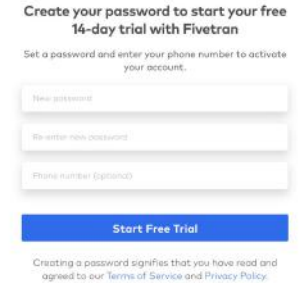
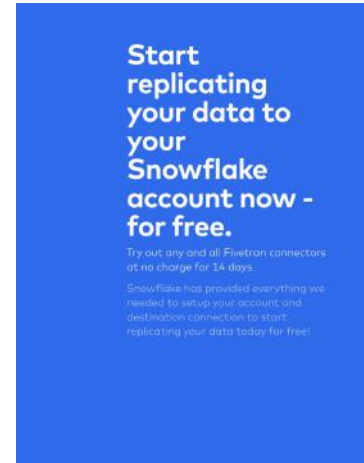
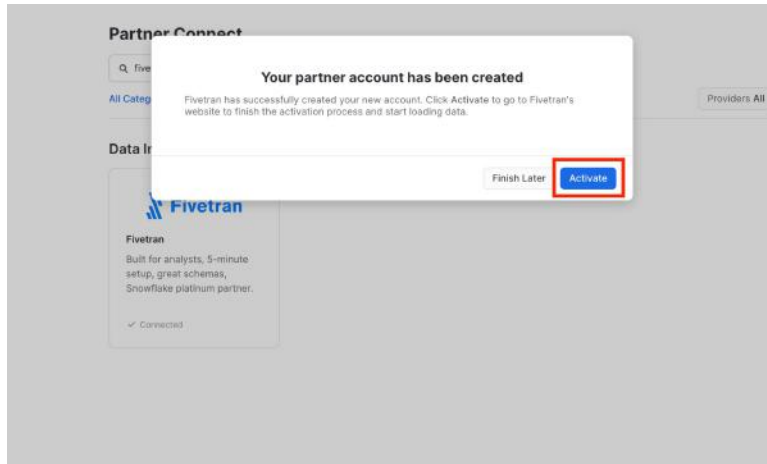
Close **Connect**

Takes ~1 min to connect



Activate your Fivetran account

12 character min for password



NOTE: KEEP SNOWFLAKE TAB OPEN IN YOUR BROWSER!

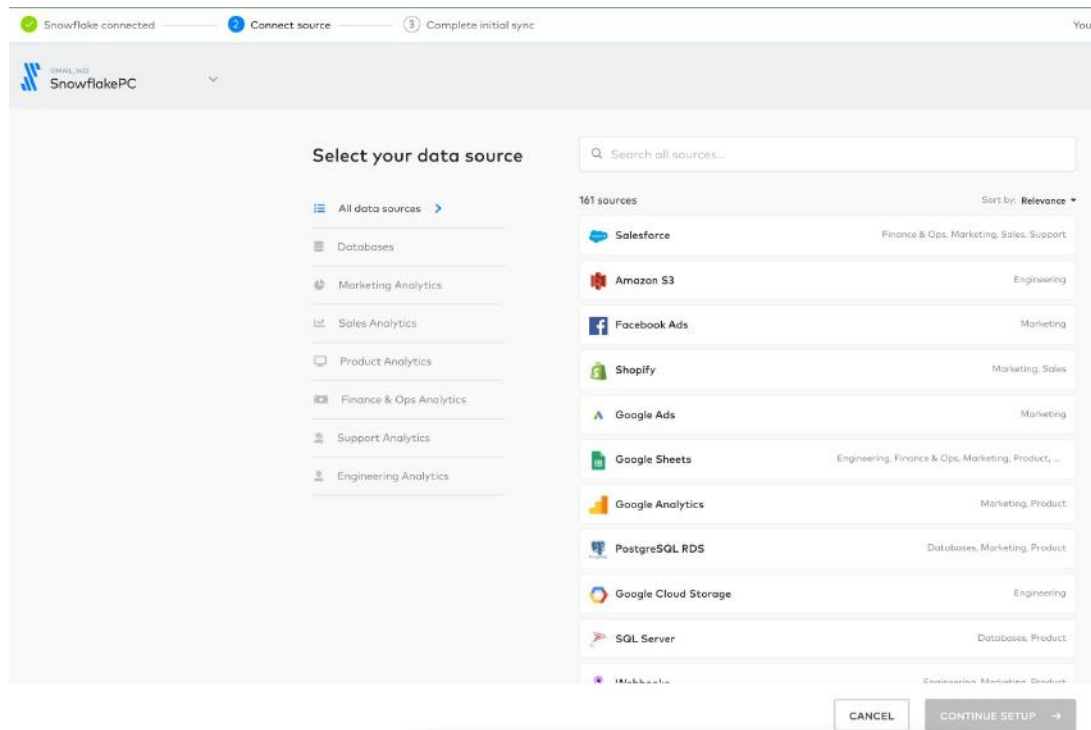


Polling question #2

Which best describes your data integration
use case?

Welcome to Fivetran

See full list of Fivetran connectors [here](#)



Once on this screen, skip to [slide 42](#) to continue



Fivetran Account Setup

If you have an existing Fivetran account:

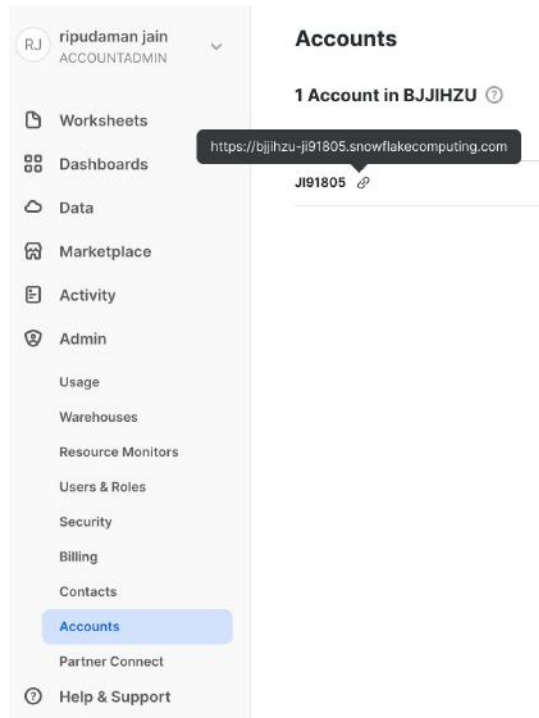
1. **created** through Snowflake Partner Connect, go [here](#) to start your connector setup in Fivetran.
Your Snowflake destination is already set up.
2. **not created** through Snowflake Partner Connect, go [here](#) to set up Snowflake as a destination.

[Optional] Copy your Account info from Admin → Accounts

navigate to **Admin** → **Accounts**, and click on the link icon next to the Account name to copy the account name URL to your clipboard. Paste it somewhere.

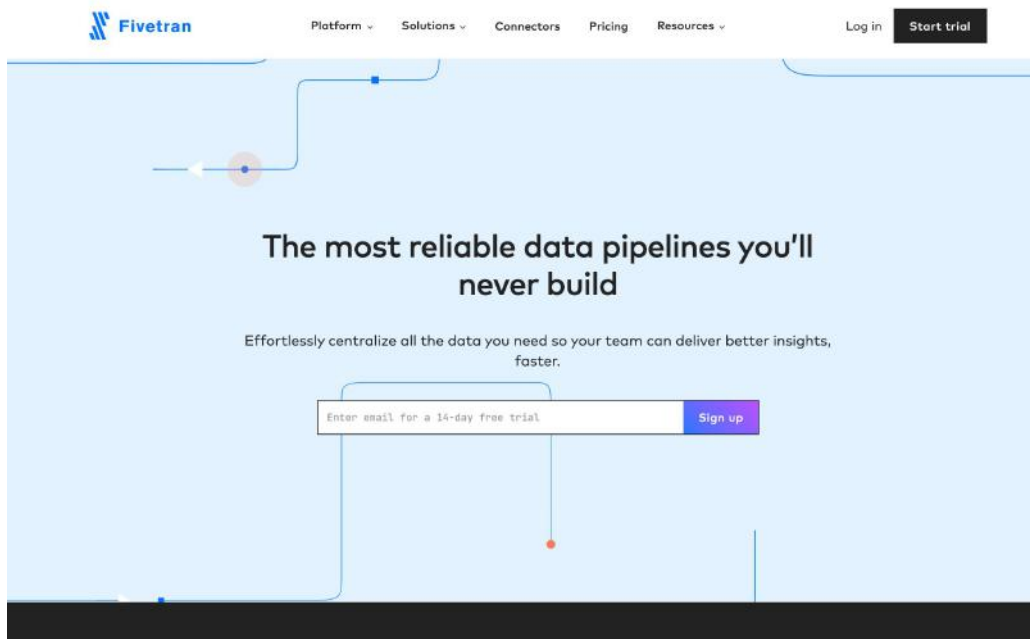
You'll need it when [manually setting up Snowflake as a destination in Fivetran](#).

💡 This step is only required if you did not complete the previous steps to connect Snowflake to Fivetran using **Partner Connect**.



Setup a Fivetran account

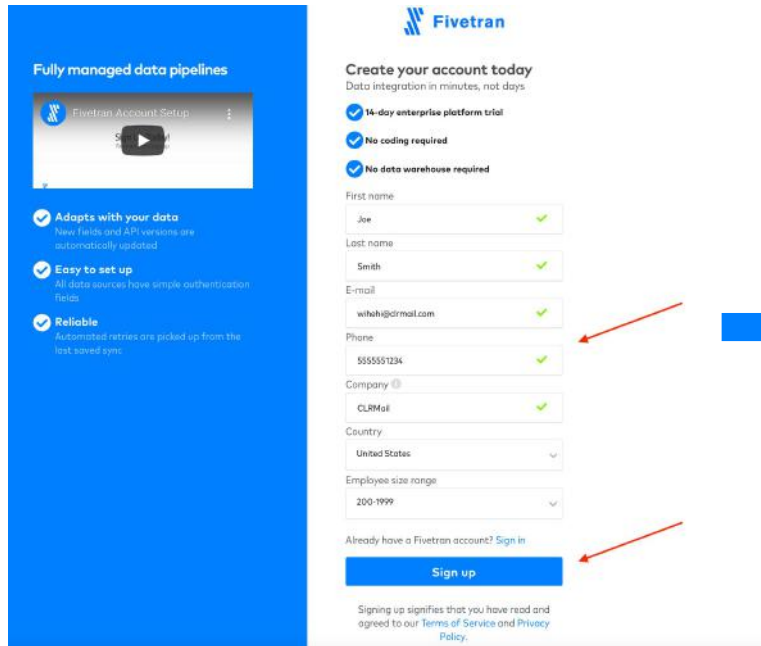
1. Go to <https://fivetran.com> and click on the **Start trial** button on the top right of the page.



Fill out Fivetran Account sign-up form and click 'Sign up'

Enter information into form fields and click **Sign up**.

A message prompting you to verify your email should appear in your browser.



Fivetran

Create your account today
Data integration in minutes, not days

- ✓ 14-day enterprise platform trial
- ✓ No coding required
- ✓ No data warehouse required

First name
Joe ✓

Last name
Smith ✓

E-mail
wiheh@clrmal.com ✓

Phone
5555551234 ✓

Company ⓘ
CLRMal ✓

Country
United States ✓

Employee size range
200-1999 ✓

Already have a Fivetran account? [Sign in](#)

Sign up

Signing up signifies that you have read and agreed to our [Terms of Service](#) and [Privacy Policy](#).

✓ Verification email sent to: wihehi@clrmal.com



Please verify your email

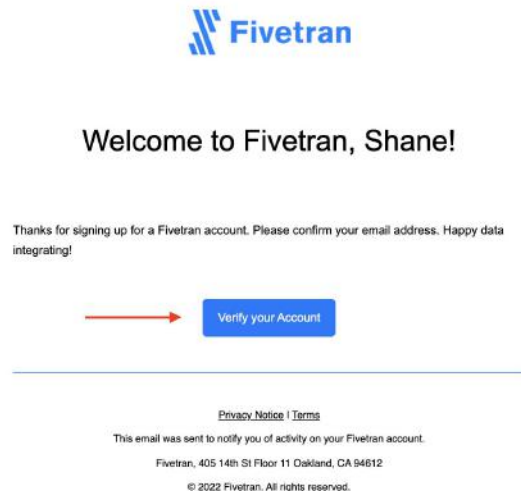
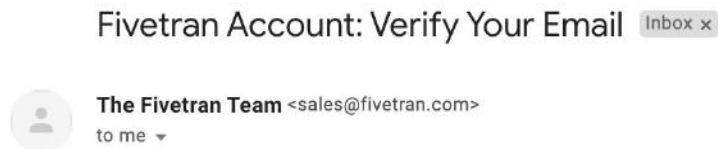
To verify your address, please check your email and click the verification link.

[Logout](#)

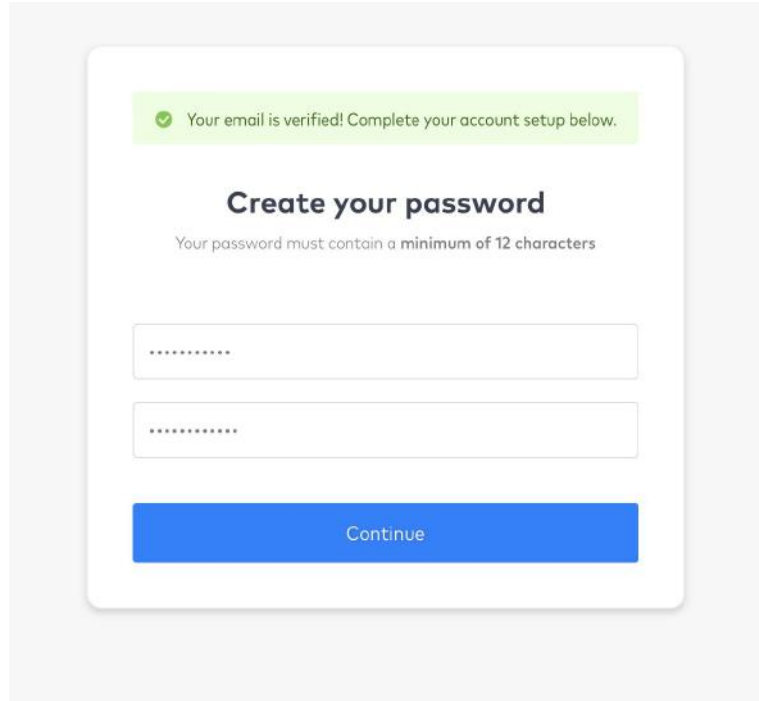
[Resend email](#)



Find confirmation email and click 'Verify your Account'



Create your Fivetran account password



A screenshot of a web form for creating a Fivetran account password. The form is centered on a light gray background. At the top, a green banner with a checkmark icon contains the text "Your email is verified! Complete your account setup below." Below this, the heading "Create your password" is displayed in bold, followed by the requirement "Your password must contain a minimum of 12 characters". There are two input fields for the password, each showing a series of dots. At the bottom of the form is a blue button labeled "Continue".

✓ Your email is verified! Complete your account setup below.

Create your password

Your password must contain a minimum of 12 characters

.....

.....

Continue



Manual Destination Setup in Fivetran UI

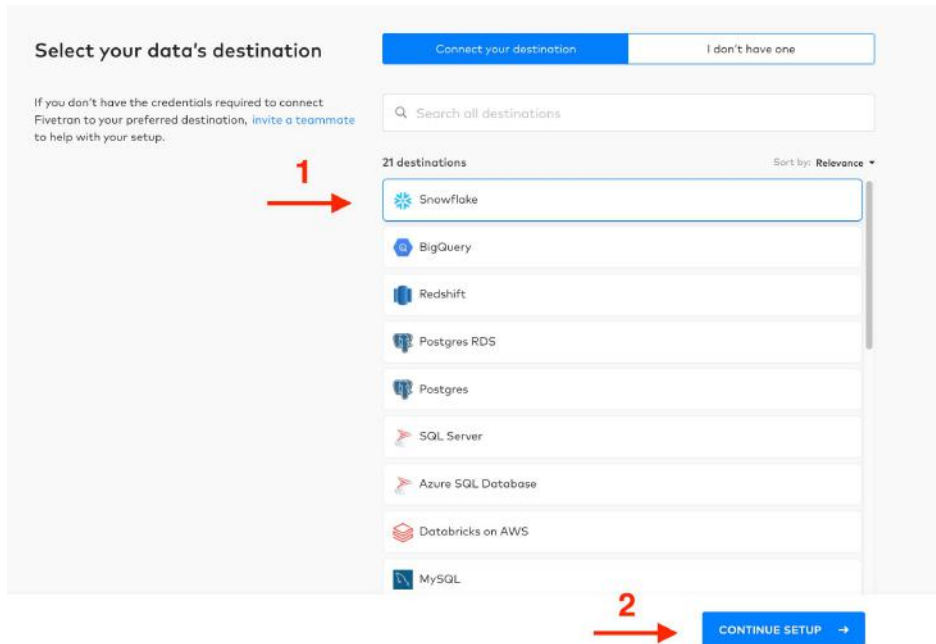
If you have an existing Fivetran account created through Snowflake Partner Connect, go [here](#) to start your connector setup in Fivetran. Your Snowflake destination is already set up.

Select Snowflake as your Destination

1. Click **Snowflake**
2. Click **CONTINUE SETUP**

*If you've completed the sign up process prior to this lab, click

Destination on the left-hand side of the main Fivetran dashboard to set up your destination



Complete the Snowflake destination setup form per the instructions on the right-hand side of the setup form page

 **Snowflake** [\(Change\)](#)

Follow the setup guide on the right to connect your data destination to Fivetran. If you need help accessing the source system, [invite a teammate](#) to complete this step.

Host *

jj46184.us-central1.gcp.snowflakecomputing.com

Port *

443

User *

fivetran_user

Database

fivetran

Auth *

PASSWORD

Password *

Role

If not specified, Fivetran will use the user's default role

Data processing location

US

This is where Fivetran will operate and run computation on data. Please whitelist the [Fivetran US IPs](#) in your firewall as required.

Cloud provider

GCP

SAVE & TEST

Setup Guide

loads data incrementally and consumes very little compute resources. Fivetran operations may have to contend with your queries for the shared resources.

STEP 2

Run script in Snowflake warehouse

- Log in to your Snowflake data warehouse.
- Copy the following script to a new [worksheet](#) and select the All Queries checkbox:

```
begin;

-- create variables for user / password / role / warehouse / database (needs to be upper case)
set role_name = 'FIVETRAN_ROLE';
set user_name = 'FIVETRAN_USER';
set user_password = 'password123';
set warehouse_name = 'FIVETRAN_WAREHOUSE';
set database_name = 'FIVETRAN_DATABASE';

-- change role to securityadmin for user / role steps
use role securityadmin;

-- create role for fivetran
create role if not exists identifier($role_name);
grant role identifier($role_name) to role SYSADMIN;

-- create a user for fivetran
create user if not exists identifier($user_name)
password = $user_password
default_role = $role_name
default_warehouse = $warehouse_name;

grant role identifier($role_name) to user identifier($user_name);

-- change role to sysadmin for warehouse / database steps
use role sysadmin;

-- create a warehouse for fivetran
create warehouse if not exists identifier($warehouse_name)
warehouse_size = xsmall
warehouse_type = standard
auto_suspend = 60
auto_resume = true;
```



Complete the Snowflake destination setup form per the instructions on the right-hand side of the setup form page



Snowflake

Follow the setup guide on the right to connect your data destination to Fivetran. If you need help accessing the source system, [invite a teammate](#) to complete this step.

Host *

fivetran.snowflakecomputing.com

Port *

443

User *

joser

Database

PBF

Auth *

PASSWORD

Password *

Role

If not specified, Fivetran will use the user's default role

Connection Method

☒ Connect directly

Fivetran will connect directly to your database. You may have to create a security rule to allow access. This is the simplest method.

SAVE & TEST

Setup Guide

Updated 9 hours ago

Edit on GitHub

Follow our setup guide to connect your Snowflake data warehouse to Fivetran.

Prerequisites

To connect Snowflake to Fivetran, you need the following:

- A Snowflake account with the appropriate permissions to create a user and warehouse for Fivetran.
- Fivetran account owner permission to add destinations.

IMPORTANT: In Snowflake, if you use double quotes around an [identifier](#) name, it makes the identifier name case-sensitive. We recommend using the `create <identifier> <identifier_name>` or the `create <identifier> "IDENTIFIER_NAME"` format. See [Snowflake's documentation on identifiers](#) for more information.

Setup instructions

STEP 1

Choose Snowflake warehouse type

You can choose to create an exclusive warehouse for Fivetran or use an existing warehouse:



- You can create and use an exclusive warehouse for Fivetran. Fivetran operations will



Complete fields in Fivetran setup form



Snowflake [\(Change\)](#)

Follow the setup guide on the right to connect your data destination to Fivetran. If you need help accessing the source system, [invite a teammate](#) to complete this step.

Host *

Port *

User *

Database

Auth *

Password *

Role

If not specified, Fivetran will use the user's default role

Data processing location

This is where Fivetran will operate and run computation on data.

Please whitelist the [Fivetran US IPs](#) in your firewall as required.

SAVE & TEST

Setup Guide

running the warehouse.

- * You can use a shared warehouse to reduce your warehouse running cost. Fivetran loads data incrementally and consumes very little compute resources. Fivetran operations may have to contend with your queries for the shared resources.

STEP 2 Run script in Snowflake warehouse

- 1 Log in to your Snowflake data warehouse.
- 2 Copy the following script to a new [worksheet](#) and select the All Queries checkbox:

```
begin;

-- create variables for user / password / role / warehouse / database (needs to be upper)
set role_name = 'FIVETRAN_ROLE';
set user_name = 'FIVETRAN_USER';
set user_password = 'password123';
set warehouse_name = 'FIVETRAN_WAREHOUSE';
set database_name = 'FIVETRAN_DATABASE';

-- change role to securityadmin for user / role steps
use role securityadmin;

-- create role for fivetran
create role if not exists identifier($role_name);
grant role identifier($role_name) to role SYSADMIN;

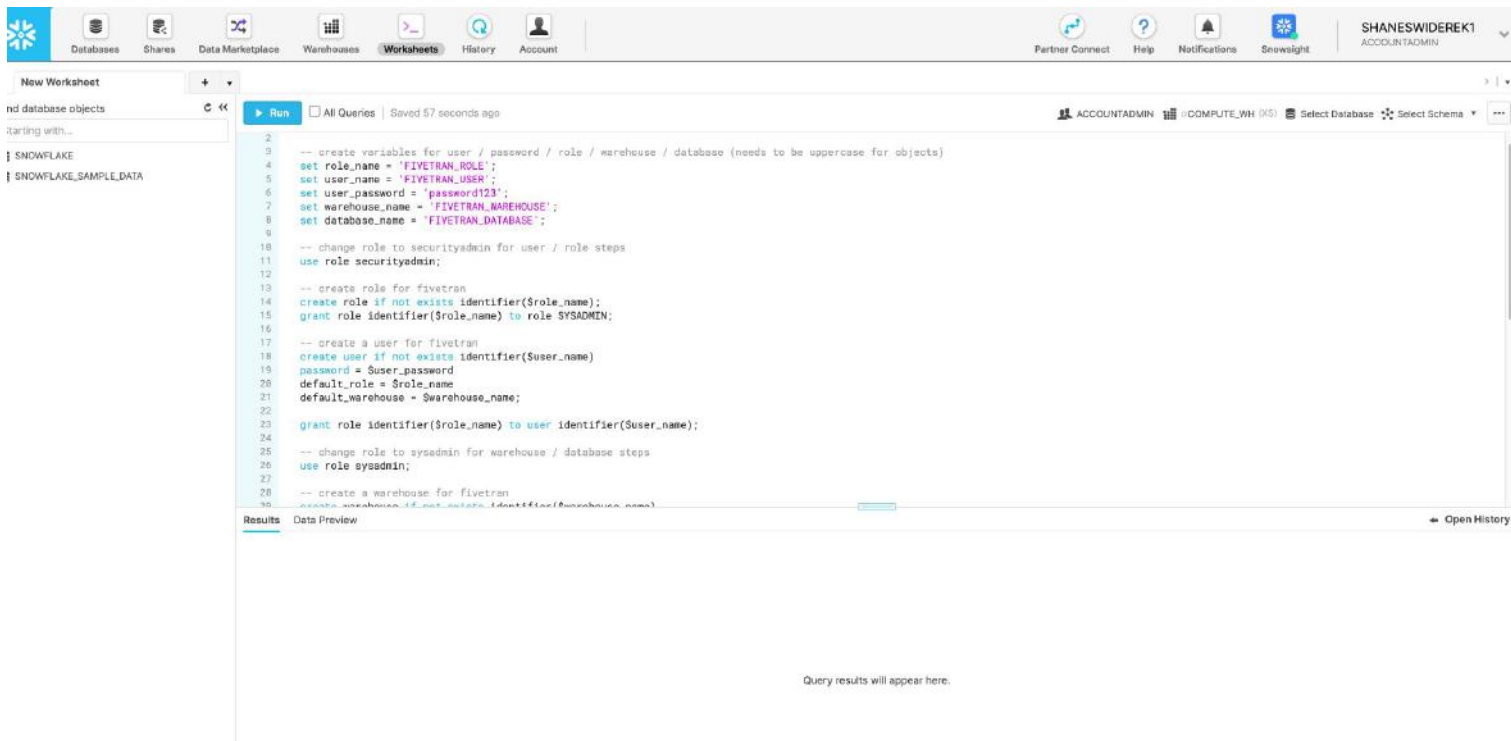
-- create a user for fivetran
create user if not exists identifier($user_name)
password = $user_password
default_role = $role_name
default_warehouse = $warehouse_name;

grant role identifier($role_name) to user identifier($user_name);

-- change role to sysadmin for warehouse / database steps
use role sysadmin;
```



Paste script in Snowflake Worksheet



The screenshot displays the Snowflake Worksheet interface. The top navigation bar includes icons for Databases, Shares, Data Marketplace, Warehouses, Worksheets (active), History, and Account. On the right, there are links for Partner Connect, Help, Notifications, and Snowsight, along with the user name SHANESWIDEREK1 and the role ACCOUNTADMIN.

On the left sidebar, there is a "New Worksheet" button and a list of database objects, including "SNOWFLAKE" and "SNOWFLAKE_SAMPLE_DATA".

The main workspace shows a SQL script with the following content:

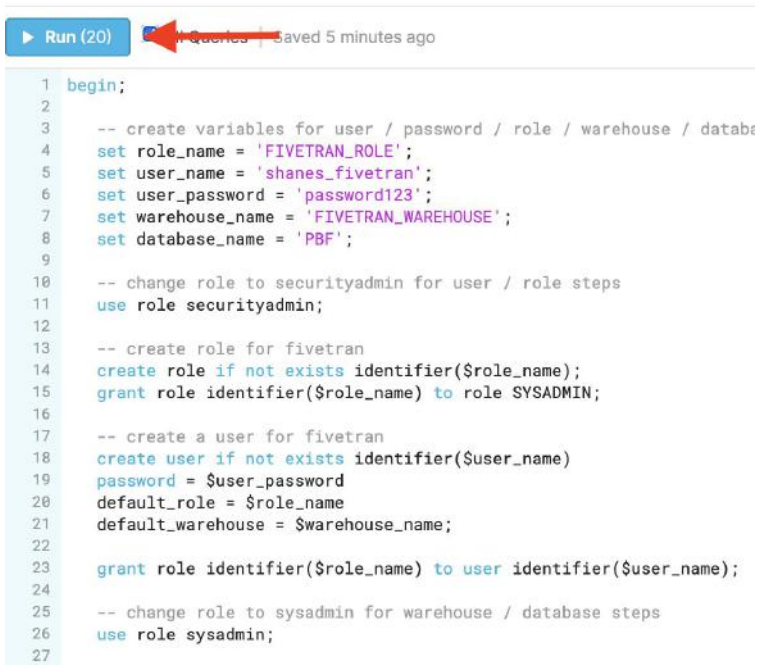
```
2
3 -- create variables for user / password / role / warehouse / database (needs to be uppercase for objects)
4 set role_name = 'FIVETRAN_ROLE';
5 set user_name = 'FIVETRAN_USER';
6 set user_password = 'password123';
7 set warehouse_name = 'FIVETRAN_WAREHOUSE';
8 set database_name = 'FIVETRAN_DATABASE';
9
10
11 -- change role to securityadmin for user / role steps
12 use role securityadmin;
13
14 -- create role for fivetran
15 create role if not exists identifier($role_name);
16 grant role identifier($role_name) to role SYSADMIN;
17
18 -- create a user for fivetran
19 create user if not exists identifier($user_name)
20 password = $user_password
21 default_role = $role_name
22 default_warehouse = $warehouse_name;
23
24 grant role identifier($role_name) to user identifier($user_name);
25
26 -- change role to sysadmin for warehouse / database steps
27 use role sysadmin;
28
29 -- create a warehouse for fivetran
30 create warehouse if not exists identifier($warehouse_name);
```

Below the script, there is a "Results" tab and a "Data Preview" section. The "Data Preview" section shows the message: "Query results will appear here."



Run the script

Click **Run**



```
1 begin;
2
3   -- create variables for user / password / role / warehouse / database
4   set role_name = 'FIVETRAN_ROLE';
5   set user_name = 'shanes_fivetran';
6   set user_password = 'password123';
7   set warehouse_name = 'FIVETRAN_WAREHOUSE';
8   set database_name = 'PBF';
9
10  -- change role to securityadmin for user / role steps
11  use role securityadmin;
12
13  -- create role for fivetran
14  create role if not exists identifier($role_name);
15  grant role identifier($role_name) to role SYSADMIN;
16
17  -- create a user for fivetran
18  create user if not exists identifier($user_name)
19  password = $user_password
20  default_role = $role_name
21  default_warehouse = $warehouse_name;
22
23  grant role identifier($role_name) to user identifier($user_name);
24
25  -- change role to sysadmin for warehouse / database steps
26  use role sysadmin;
27
```



Review execution results

1. Confirm the script was executed successfully in the **Results** section
2. See your newly created database in the left menu

The screenshot displays a Snowflake SQL worksheet interface. On the left sidebar, under 'Find database objects', the database 'PBF' is highlighted with a red box. The main area shows a SQL script with 27 lines of code, including variable assignments, role creation, user creation, and grants. The script is executed, and the 'Results' tab is active. A red box highlights the 'Results' section, which shows a single row with the status 'Statement executed successfully.'.

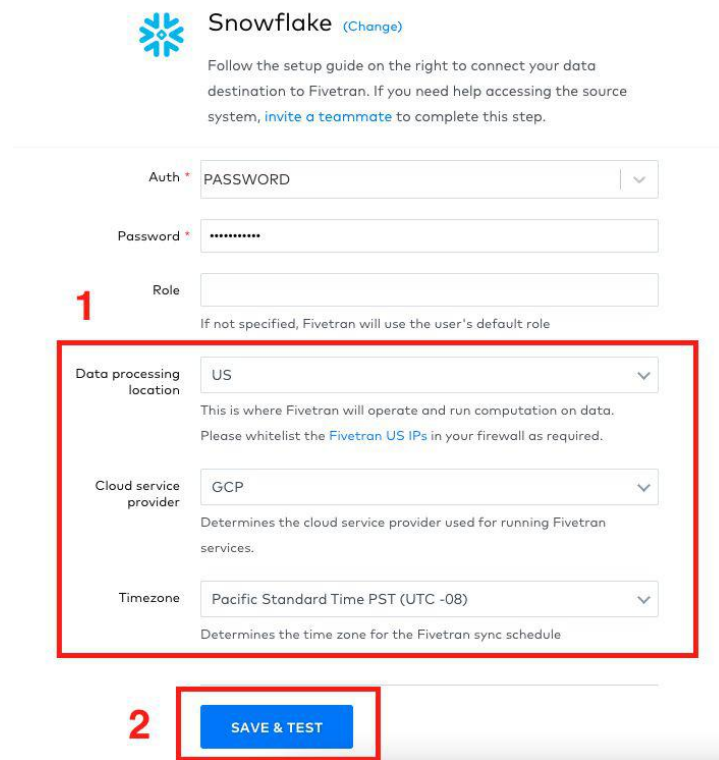
```
1 begin;
2
3 -- create variables for user / password / role / warehouse / da
4 set role_name = 'FIVETRAN_ROLE';
5 set user_name = 'shanes_fivetran';
6 set user_password = 'password123';
7 set warehouse_name = 'FIVETRAN_WAREHOUSE';
8 set database_name = 'PBF';
9
10 -- change role to securityadmin for user / role steps
11 use role securityadmin;
12
13 -- create role for fivetran
14 create role if not exists identifier($role_name);
15 grant role identifier($role_name) to role SYSADMIN;
16
17 -- create a user for fivetran
18 create user if not exists identifier($user_name)
19 password = $user_password
20 default_role = $role_name
21 default_warehouse = $warehouse_name;
22
23 grant role identifier($role_name) to user identifier($user_name)
24
25 -- change role to sysadmin for warehouse / database steps
26 use role sysadmin;
27
```

Query ID	SQL	28ms	1 rows
1	Statement executed successfully.		



Submit Fivetran Destination form

1. Choose a data processing location, cloud provider, and preferred timezone
2. Click **Save & Test**



The screenshot shows the Fivetran destination configuration interface for Snowflake. At the top, the Snowflake logo is followed by the text "Snowflake (Change)". Below this, a paragraph instructs the user to follow the setup guide on the right to connect their data destination to Fivetran, and provides a link to "invite a teammate" for help. The form contains several input fields: "Auth" with a dropdown menu set to "PASSWORD", "Password" with a masked input field, and "Role" with an empty text field. A red number "1" is placed to the left of the "Role" field, and a note below it states "If not specified, Fivetran will use the user's default role". Below these fields, a red box highlights a section containing three dropdown menus: "Data processing location" set to "US", "Cloud service provider" set to "GCP", and "Timezone" set to "Pacific Standard Time PST (UTC -08)". Each dropdown has a descriptive text block below it. At the bottom of the form, a red number "2" is placed to the left of a blue button labeled "SAVE & TEST", which is also enclosed in a red box.

 **Snowflake** [\(Change\)](#)

Follow the setup guide on the right to connect your data destination to Fivetran. If you need help accessing the source system, [invite a teammate](#) to complete this step.

Auth * ▼

Password *

1 Role

If not specified, Fivetran will use the user's default role

Data processing location ▼

This is where Fivetran will operate and run computation on data. Please whitelist the [Fivetran US IPs](#) in your firewall as required.

Cloud service provider ▼

Determines the cloud service provider used for running Fivetran services.

Timezone ▼

Determines the time zone for the Fivetran sync schedule

2 **SAVE & TEST**



Once all of the destination connection tests have been successfully completed, click 'Continue' to proceed



Snowflake

Connection tests:



Host Connection



Validate Passphrase



Default Warehouse Test



Database Connection



Permission Test



All connection tests passed!

BACK

CONTINUE

Congratulations! You've successfully connected a destination to Fivetran!



Connector Setup in the Fivetran UI

The sample data provided in this workshop will be available for 30 days following the event. After that, you'll need to connect to your own data.

Create a PostgreSQL RDS connector

Snowflake connected — 2 Connect source — 3 Complete initial sync Your 14-day trial

Select your data source

Search all sources...

167 sources Sort by: Relevance

- Salesforce Finance & Ops, Marketing, Sales, Support
- Google Ads Marketing
- Shopify Marketing, Sales
- Facebook Ads Marketing
- Amazon S3 Engineering
- SQL Server Databases, Product
- Google Analytics Marketing, Product
- Google Drive Engineering, Finance & Ops, Marketing, Product, ...
- PostgreSQL RDS** Databases, Marketing, Product
- Fivetran Log

1 → 2

CANCEL CONTINUE SETUP →



Configure PostgreSQL RDS connector

GO TO SECTION 4
of [lab details doc](#) to
find setup credentials

* Find your name range and
use the associated
configuration details to set up
your connector



PostgreSQL RDS

Follow the setup guide on the right to connect your data source to Fivetran. If you need help accessing the source system, [invite a teammate](#) to complete this step.

Destination schema *
prefix

postgres_rds

Each replicated schema is prefixed with `postgres_rds_`. This prefix **cannot be changed** after you test the connector or save for later.

Host *

g1-postgres-rds-xmin-training.cdlr2bxd5wn1.us-west-2.rds.amazonaws.com

Port *

5432

User *

fivetran

Password *

Database *

postgres

Connection Method

☒ **Connect directly**
Fivetran will connect directly to your database. You may have to create a security rule to allow access. This is the simplest method.

☐ **Connect via an SSH tunnel**

SAVE & TEST

Setup Guide

Follow these instructions to replicate your Amazon RDS PostgreSQL destination using Fivetran.

Prerequisites

To connect your Amazon RDS PostgreSQL database to Fivetran:

- * PostgreSQL version 8.4 - 13.x
- * An RDS account with an account administrator role
- * Access to your database server
- * Access to your database host's machine
- * Your database host's IP (e.g., 1.2.3.4) or domain (your.server.com)
- * Your database's port (usually 5432)
- * TLS enabled on your database. Follow Amazon's [TLS setup](#) guide.
- * (If you want to connect using SSH) An SSH server

Setup instructions

STEP 1

 Choose connection method (TLS required)

IMPORTANT: You *must* have TLS enabled on your database to connect to Fivetran.

Decide whether to connect your database to Fivetran directly or via an SSH tunnel. How you configure your security groups in later steps will differ based on your choice.



When finished, click 'Save & Test'



PostgreSQL RDS

Follow the setup guide on the right to connect your data source to Fivetran. If you need help accessing the source system, [invite a teammate](#) to complete this step.

To ensure a secure connection to your database, Fivetran uses the enterprise method.

☐ **Connect via an SSH tunnel**
Fivetran will connect to a separate server in your network which provides an SSH tunnel to your database. This method is necessary if your database is in an inaccessible subnet.

☒ **Detect Changes via XMIN**
This method detects new or changed rows via the XMIN system column, but is not capable of detecting deleted rows.

☐ **Logical Replication of the WAL using the test_decoding plugin**
This method replicates new, changed and deleted rows by tailing the write-ahead log (WAL) using a logical slot. This is more efficient than the XMIN method, but requires more setup and monitoring.

Update Method

SAVE & TEST

Setup Guide

Follow these instructions to replicate your data source to Fivetran destination using Fivetran.

Prerequisites

To connect your Amazon RDS PostgreSQL database to Fivetran, you must have the following prerequisites:

- * PostgreSQL version 8.4 - 13.x
- * An RDS account with an account administrator role
- * Access to your database server
- * Access to your database host's master user
- * Your database host's IP (e.g., 1.2.3.4)
- * Your database's port (usually 5432)
- * TLS enabled on your database. Follow the instructions to enable TLS on your database.
- * (If you want to connect using SSH)

Setup instructions

STEP 1 Choose connection method

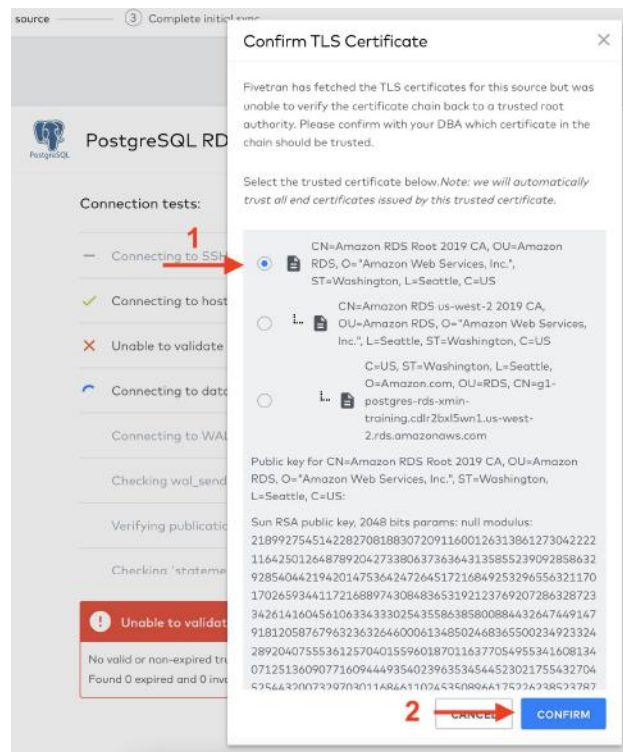
IMPORTANT: You *must* have TLS enabled on your database.

Decide whether to connect your database using an SSH tunnel or the enterprise method.



Confirm TLS Certificate

1. Click required TLS
(Transport Layer Security /
SSL) certificate
2. Click **Confirm** to proceed
with the connection setup
steps

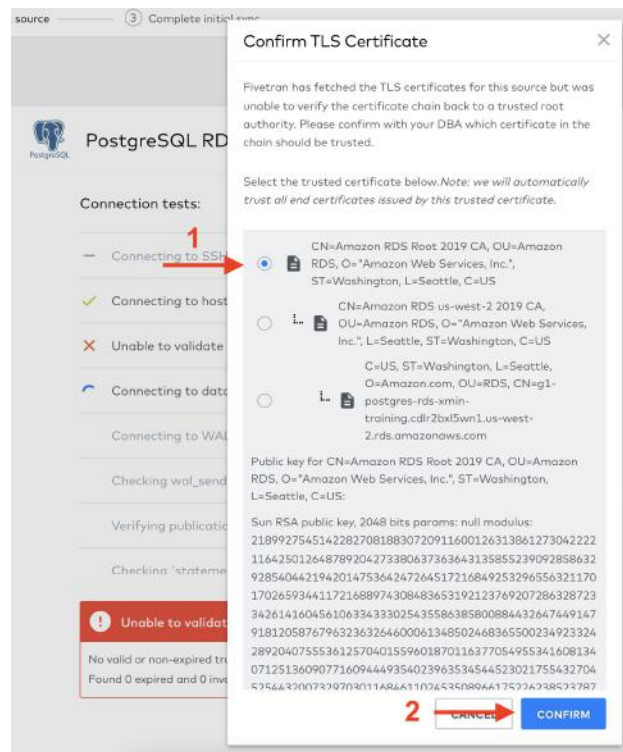


Setup tests run
(< 1.5 min to complete)



Confirm TLS Certificate

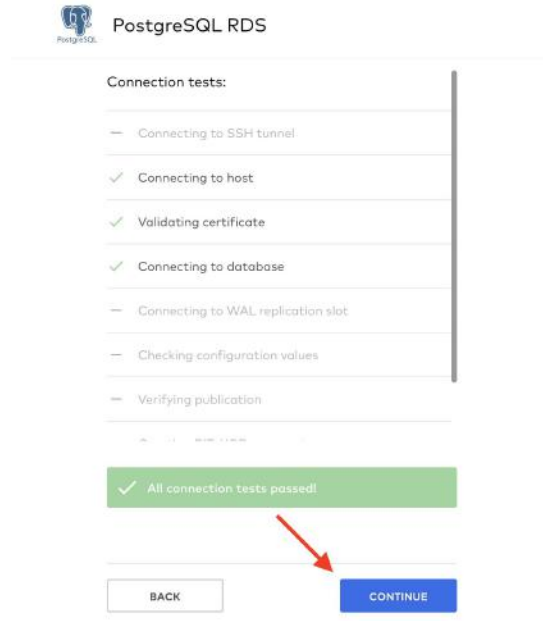
1. Click required TLS
(Transport Layer Security /
SSL) certificate
2. Click **CONFIRM** to
proceed with the
connection setup steps



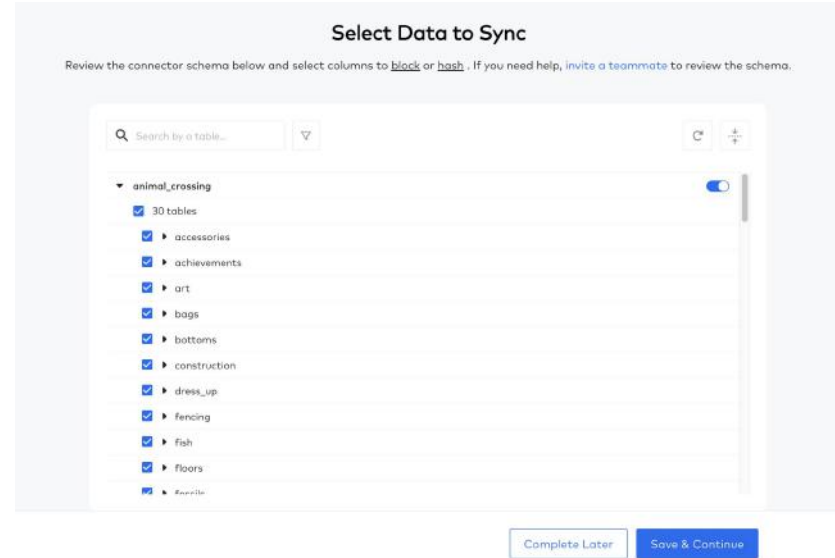
Confirm and resume setup tests
(< 1 minute to complete)



Once all of the connector setup steps have been successfully completed, click 'CONTINUE' to proceed



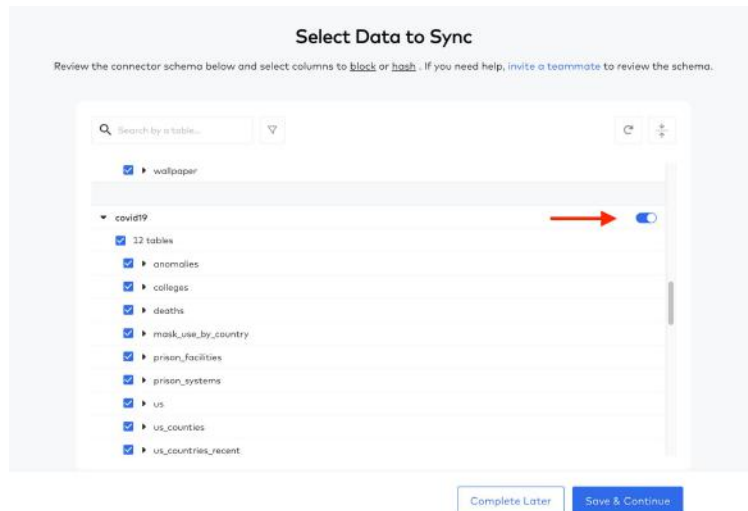
Congratulations! You've connected a data source to Fivetran.



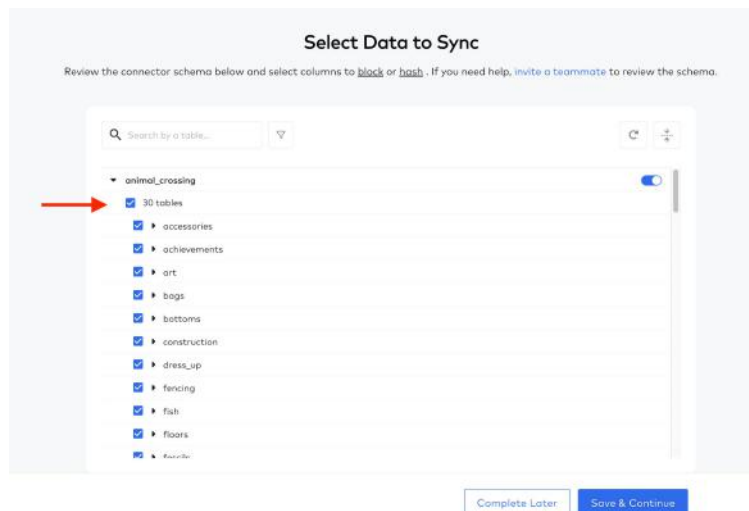
Sync sample data from PostgreSQL to Snowflake

If you're completing this workshop 30+ days after the event, you'll need to connect to your own data. The sample data will no longer be available.

Select your source data



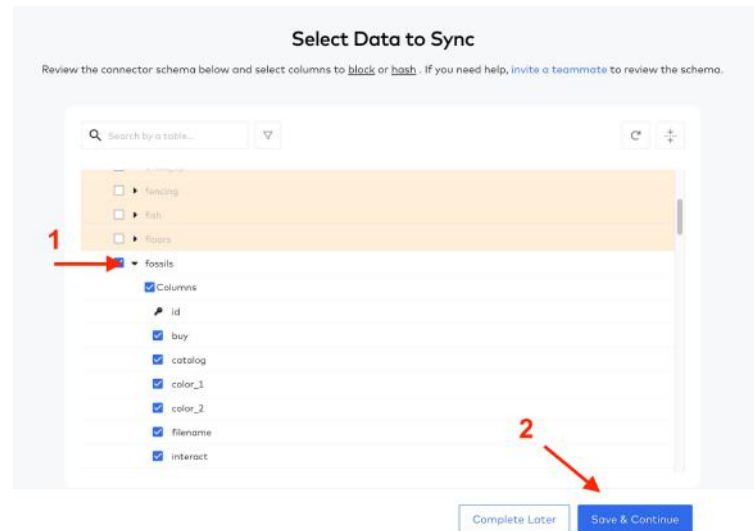
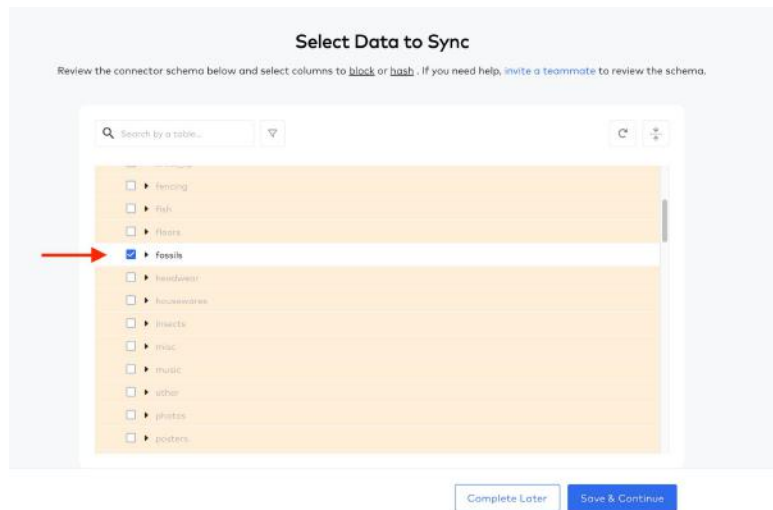
Scroll down and click toggle for every schema except for **animal_crossing**. All data (except for the animal_crossing data) should now be grayed out.



Scroll up and click check box next to **30 tables** to deselect all tables from the sync



Select a table to sync



Click check box next to **fossils** table

1. Click the toggle next to **fossils** to see all of the columns within the table
2. Click **Save & Continue**



Click Continue to start syncing your data

How would you like to handle changes?

Your data source's schema may change in the future. This setting allows you to choose which new source data to sync to your destination, depending on the needs of your organization.

- ☒ **Allow all**
We will allow all new schemas, tables and columns
- ☐ **Allow columns**
We will block new schemas and configurable tables, but allow new columns
- ☐ **Block all**
We will block all new schemas, configurable tables and columns

Continue



Wait for initial sync to complete

PostgreSQL RDS
postgres_rds

Status Logs Schema Usage Setup Connected

Your data is ready to sync!

Your connector is ready to sync source data to your destination! Syncing may take time depending on how late it will begin.

Start Initial Sync

Sync History

4:00 PM 6:00 PM 8:00 PM 10:00 PM 12:00 AM 2:00 AM 4:00 AM

Extract Process Load PAUSE

Click **Start Initial Sync**



PostgreSQL RDS
postgres_rds

Status Logs Schema Usage Setup Connected

Your connector is currently syncing data...

We'll notify you by e-mail once your initial historical sync is complete. Your free trial won't begin until...

Syncing data - First time syncing data for this connector
Historical sync

Sync History

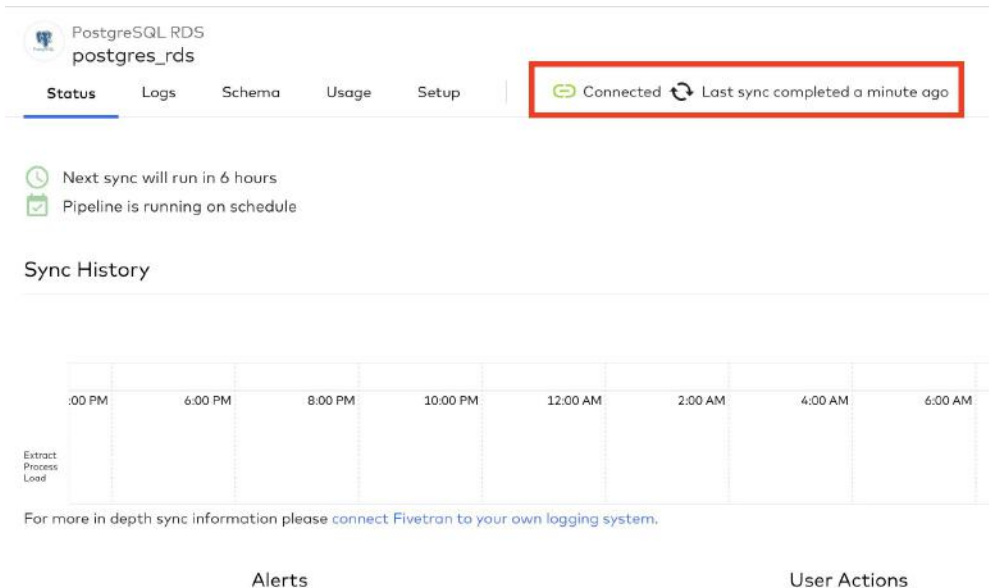
4:00 PM 6:00 PM 8:00 PM 10:00 PM 12:00 AM 2:00 AM 4:00 AM

Extract Process Load PAUSE

For more in-depth sync information please connect Fivetran to your own logging system.

Your data is now syncing. The first time syncing data for this connector should take **1 - 2 minutes**.

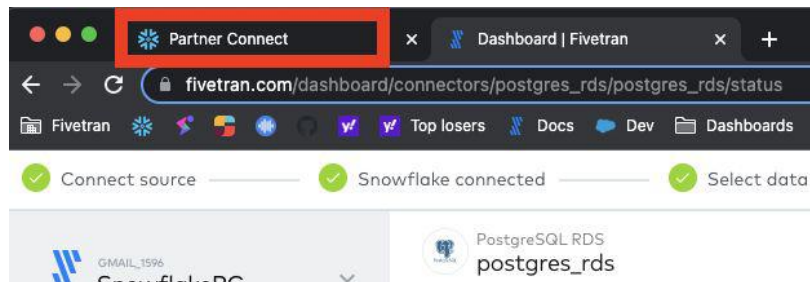
Wait for initial sync to complete



Your sync is complete!

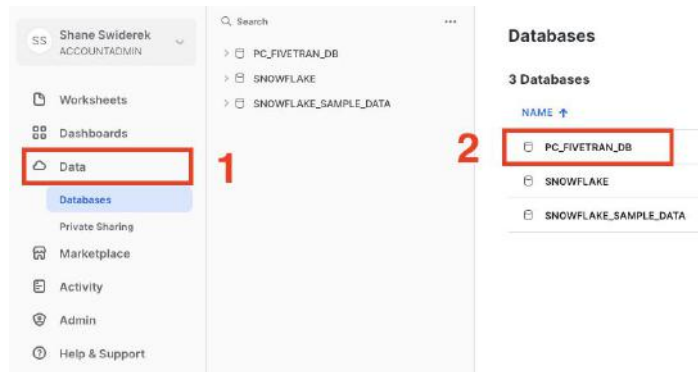


Confirm data was successfully synced to Snowflake



Click Snowflake tab to return to Snowflake

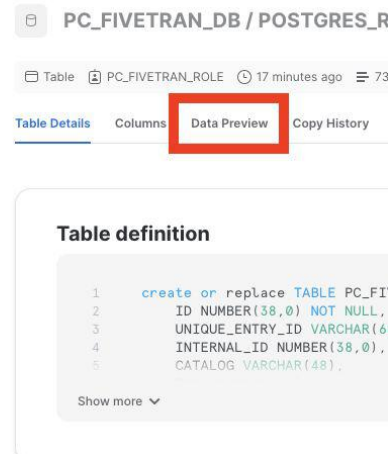
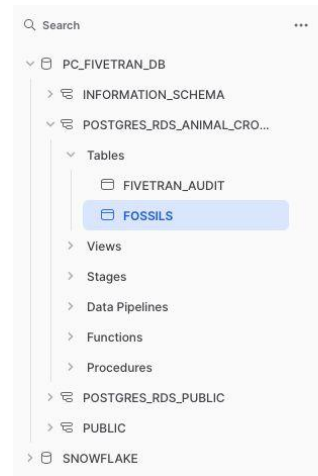
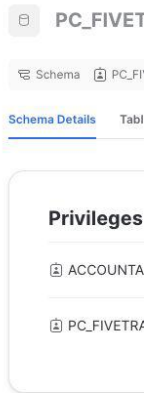
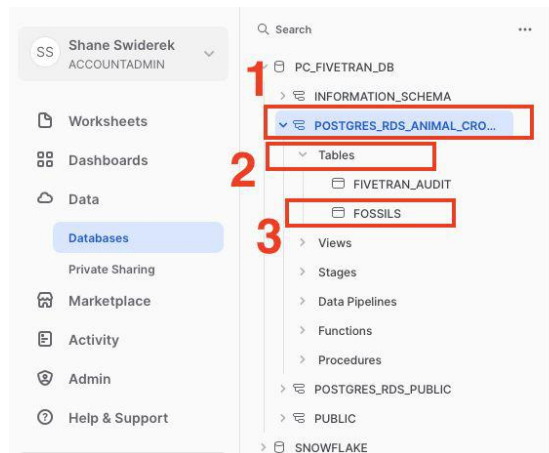
*DON'T CLOSE FIVETRAN TAB



1. Click **Data** in left menu
2. Click PC_FIVETRAN_DB database



Explore data



1. Click **PostgreSQL RDS schema**
2. Click **Tables**
3. Click **FOSSILS**

Click **Data Preview**



Explore data pt 2

Table PC_FIVETRAN_ROLE 18 minutes ago 73 9.0KB

Table Details Columns **Data Preview** Copy History

• COMPUTE_WH 73 Rows • Updated just now

	ID	UNIQUE_ENTRY_ID	INTERNAL_ID	CATALOG	BUY	SELL	IN
1	1	LQkRP3kBn3T2jBboF	4,664	Not for sale	NFS	2,000	N
2	2	ANAhATcHWvAGEhRnt	294	Not for sale	NFS	1,200	N
3	3	ojNKn4YRrmPI2gPo	295	Not for sale	NFS	1,100	N
4	4	QQjxKmQ8Aac9cSoM2	169	Not for sale	NFS	3,500	N
5	5	wLWBm2R727RC3qSL2	171	Not for sale	NFS	2,500	N
6	6	5QNzf5buPckabN6cR	170	Not for sale	NFS	3,000	N



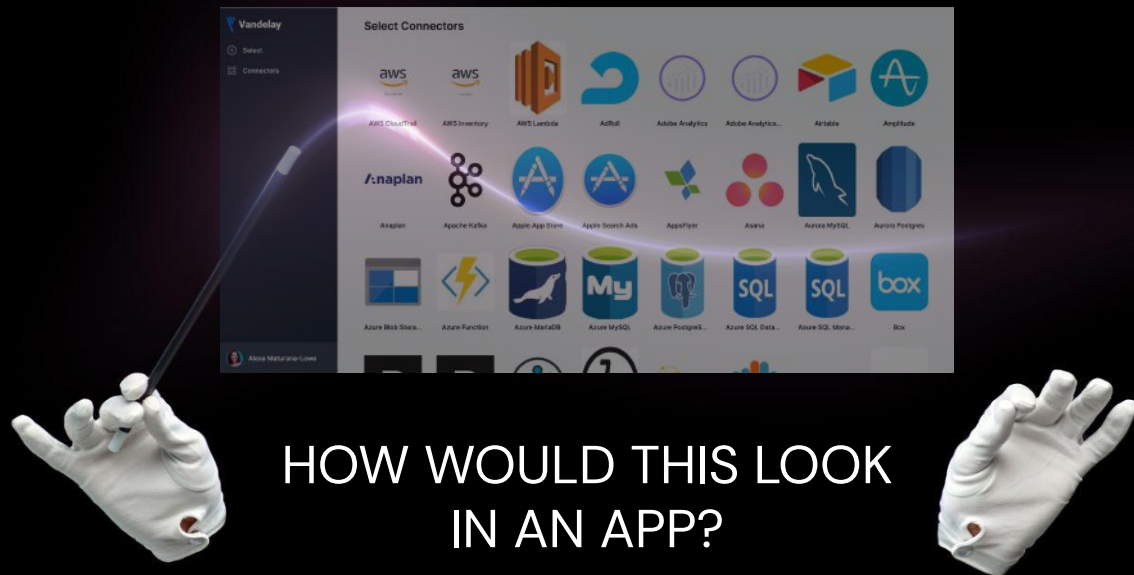
Congrats! Your data has
(hopefully) synced to
Snowflake.



Polling question #3

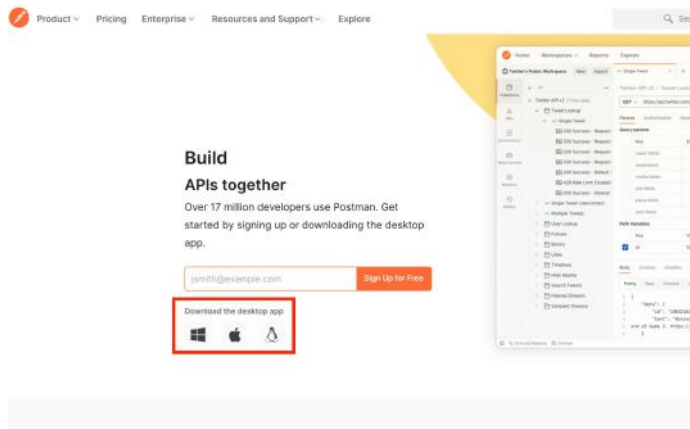
How do you feel about the pace of the lab?

Fivetran Connector Setup via REST API & Connect Cards



HOW WOULD THIS LOOK
IN AN APP?

Download and install Postman



Download Postman

Download the app to quickly get started using the Postman API Platform. Or, if you prefer a browser experience, you can try the new web version of Postman.

The Postman app

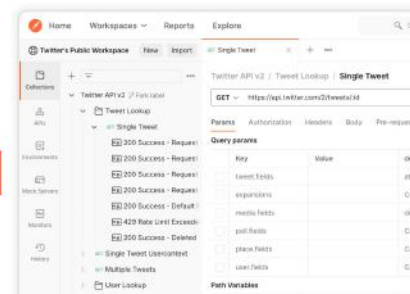
The ever-improving Postman app (a new release every week) gives you a full-featured Postman experience.



By downloading and using Postman, I agree to the [Privacy Policy](#) and [Terms](#).

Version 9.8.3 [Release Notes](#) [Product Roadmap](#)

Not your OS? Download for Windows (x64) or Linux (x64)



1. Go to postman.com
2. Click the icon representing your computer's operating system (Windows, MacOS, Linux)

2. Click to download
 - a. If using MacOS, see which chip is in your computer by clicking Apple Icon > About this Mac. You'll see your chip type next to 'Processor'

*If you already have Postman and are logged in, go to **Workspaces** and hang out for a few min

*Should take 15 - 30 seconds to download depending on your internet speed



Open Postman desktop app

The Postman app

The ever-improving Postman app (a new release every week) gives you a full-featured Postman experience.

Mac Intel Chip

Mac Apple Silicon

By downloading and using Postman, I agree to the [Privacy Policy](#) and [Terms of Service](#).

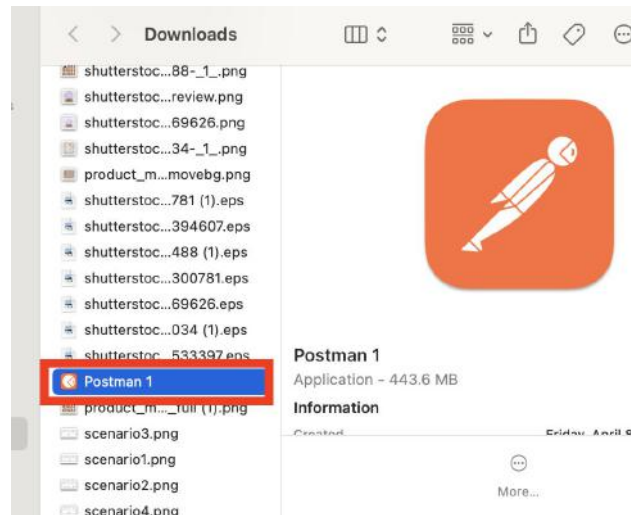
Version 9.18.2 · [Release Notes](#) · [Product Roadmap](#)

Not your OS? Download for Windows (x64) or Linux (x64)

Postman v9.16.0....zip

1. Click to open zip file

*Should take 15 - 30 seconds to download depending on your internet speed



2. Double click to open Postman desktop application

*View above will vary depending on your operating system





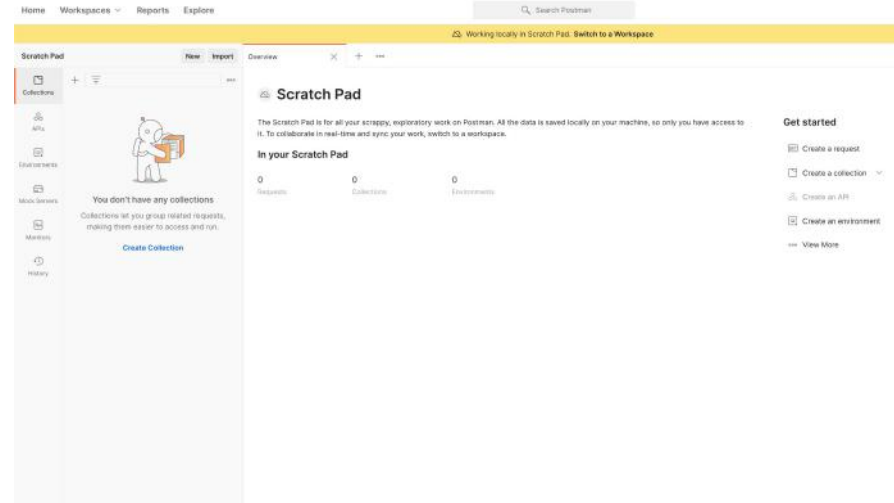
Open Postman desktop app pt 3

Create an account or sign in

Create Free Account

Sign in

Create your account or sign in later? [Skip and go to the app](#)



1. Click **Skip and go to the app**

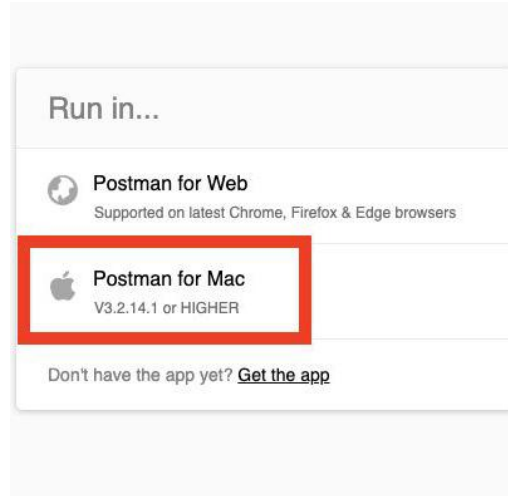
Welcome to Postman!



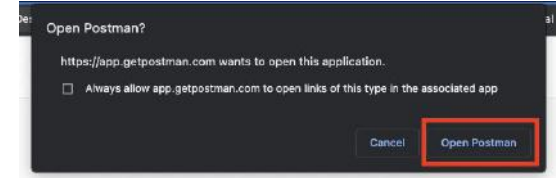


Import Fivetran REST API Collection

1. Click [here](#) to import Fivetran REST API Collection into Postman



2. Click the **Postman for [your OS]** option

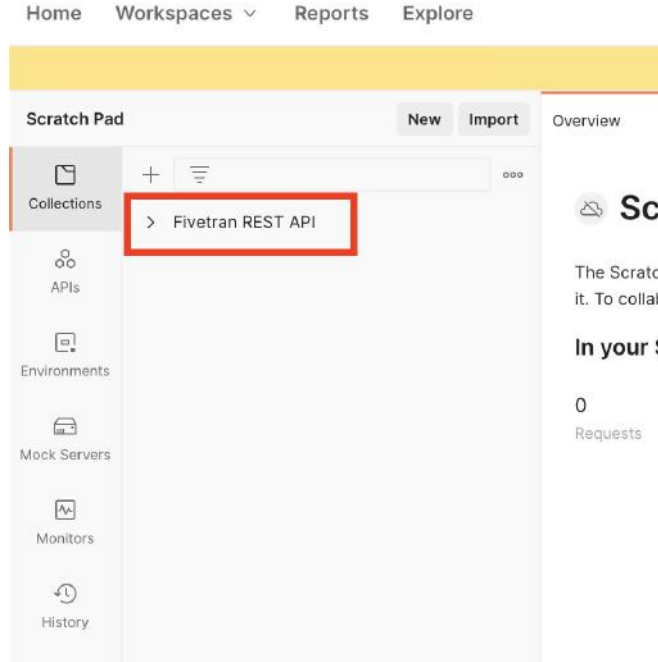


3. Click **Open Postman**





Import Fivetran REST API Collection pt 2

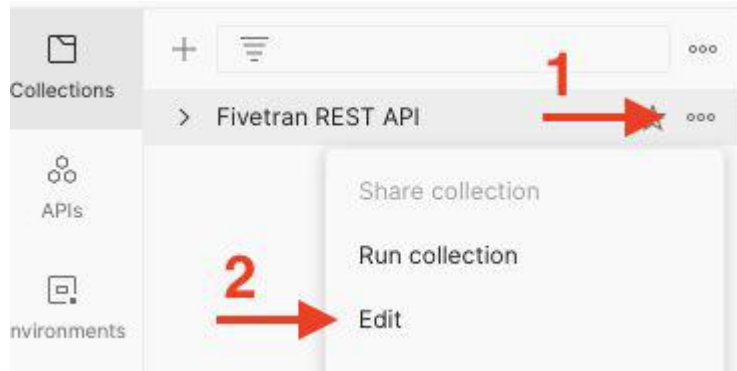


You should now see **Fivetran REST API** listed in your Collections

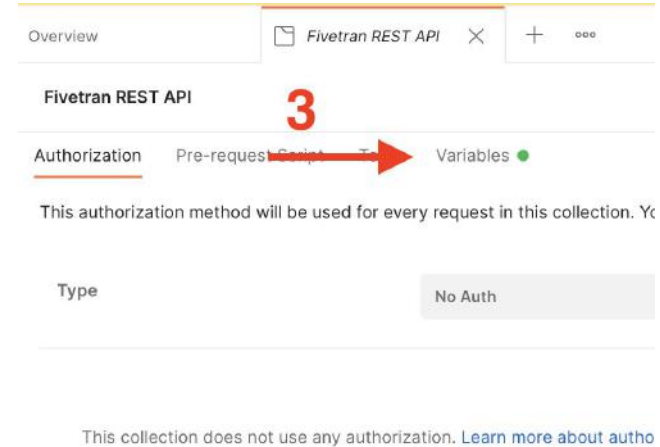




Prepare to connect Postman to your FT account



1. Click three dots next to Fivetran REST API Collection name
2. Click **Edit**

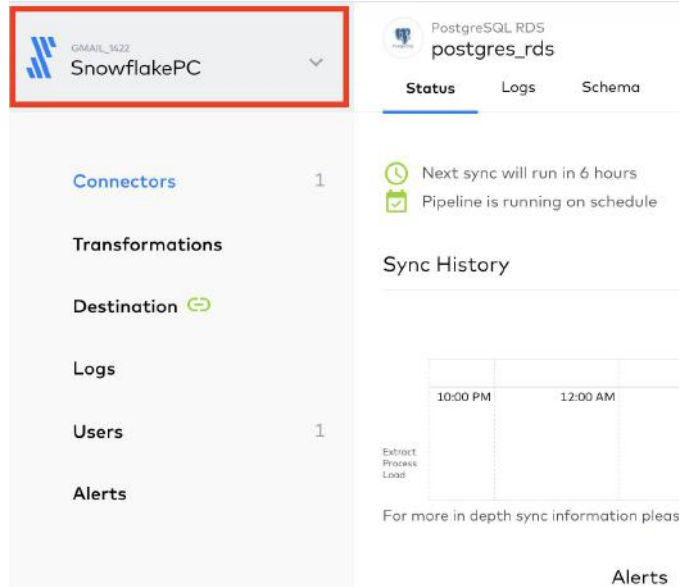


3. Click **Variables**

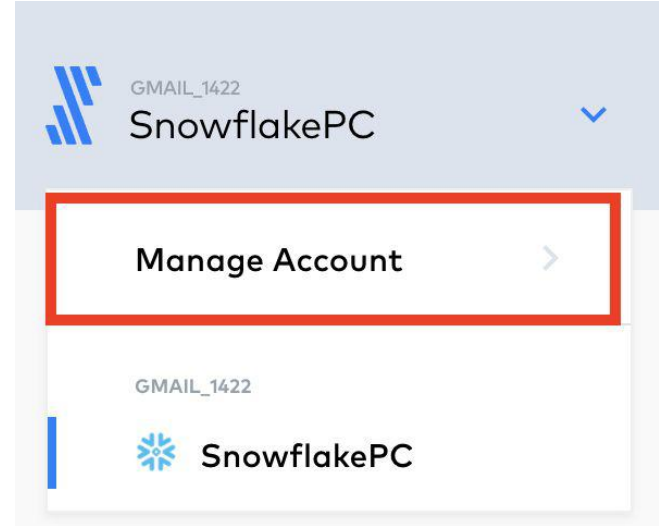




Go back to Fivetran and obtain your API key



In your Fivetran dashboard, click
button in left menu

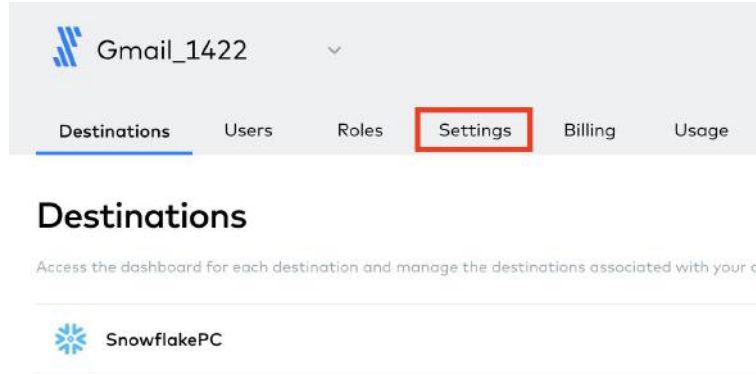


Click **Manage Account**

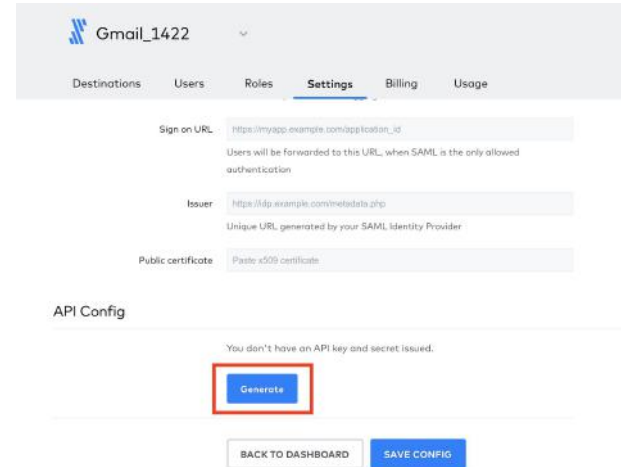




Obtain your API key pt 2



Click **Settings**



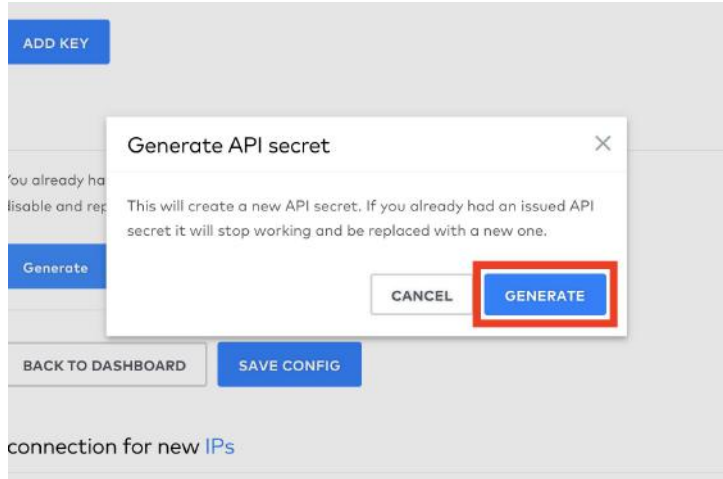
Scroll down and click **Generate** button

* If you already have an API key and secret, pull them up now instead of generating new ones

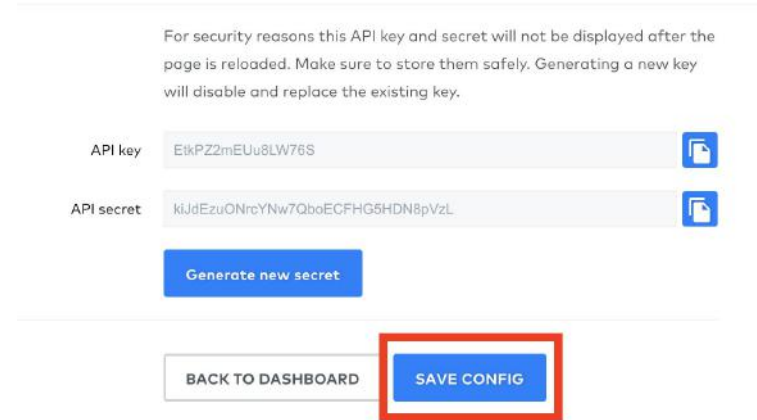




Obtain your API key pt 3



Click **Generate** button to confirm you want to create a new key and secret



Click **Save Config** button to save the generated key and secret to your account





Obtain your API key pt 3

For security reasons this API key and secret will not be displayed after the page is reloaded. Make sure to store them safely. Generating a new key will disable and replace the existing key.

API key 

API secret 

[Generate new secret](#)

[BACK TO DASHBOARD](#) [SAVE CONFIG](#)

Click button to copy API key to your clipboard

Overview **Fivetran REST API** + ...

Fivetran REST API  0    ...

Authorization Pre-request Script Tests **Variables** 

These variables are specific to this collection and its requests. [Learn more about collection variables.](#)

	VARIABLE	INITIAL VALUE ⓘ	CURRENT VALUE ⓘ	...	Persist All	Reset All
☒	base_url	https://api.fivetran.com...	https://api.fivetran.com/v1			
☒	api_key		EtkPZ2mEUu8LW76S			
☒	api_secret					
	Add a new variable					

Return to Postman and paste API key into its associated Current Value field





Obtain your API key pt 3

For security reasons this API key and secret will not be displayed after the page is reloaded. Make sure to store them safely. Generating a new key will disable and replace the existing key.

API key

API secret

[Generate new secret](#)

[BACK TO DASHBOARD](#) [SAVE CONFIG](#)

1. Return to Fivetran and click button to copy API secret to your clipboard

Overview **Fivetran REST API** + ...

Fivetran REST API

Authorization Pre-request Script Tests **Variables**

These variables are specific to this collection and its requests. [Learn more about collection variables.](#)

	VARIABLE	INITIAL VALUE ⓘ	CURRENT VALUE ⓘ	...	Persist All	Reset All
☒	base_url	https://api.fivetran.com...	https://api.fivetran.com/v1			
☒	api_key		EtkPZ2mEUu8LW76S			
☒	api_secret		kJdEzuONrcYNw7QboECFHG5HDN8pVzL			
	Add a new variable					

2. Return to Postman and paste API secret into its associated Current Value field
3. Click **Save**

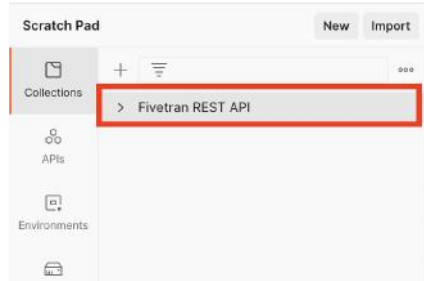


You're now ready to start submitting requests to the Fivetran API!

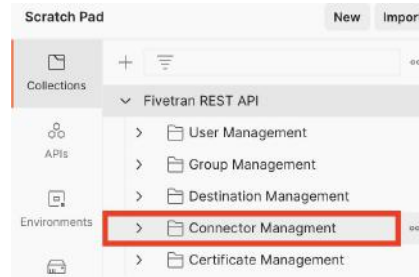




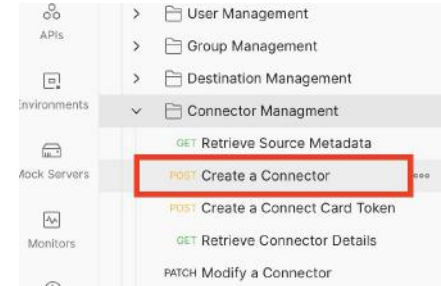
Create a connector using the Fivetran API



1. Click **Fivetran REST API Collection**



2. Click **Connector Management**

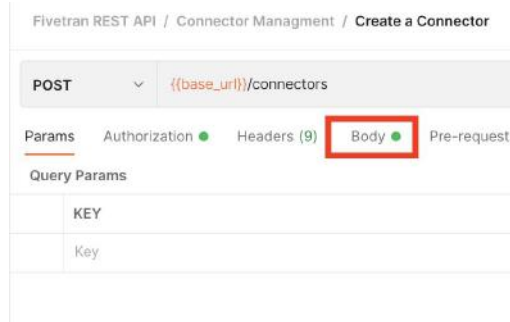


3. Click **Create a Connector**





Create a connector using the Fivetran API pt 2



Click **Body**



Delete all contents of **Body** payload

The request body will be pre-populated with a generic Fivetran Connector Creation JSON payload for the POST request. We will be overwriting this request body with a pre-formatted JSON payload to create a PostgreSQL RDS connector for this demo.



Find your assigned request body



1. Go to [Section 5](#) in the lab details doc

Last name	Database	Request body
-----------	----------	--------------

A - F ↑	G1	<pre>{ "service": "postgres_rds", "group_id": "", "run_setup_tests": false, "config": { "schema_prefix": "postgres_rds_api", "host": "g1-postgres-rds-xmin-training-odr2btf5w1.us-west-2.rds.amazonaws.com", "port": 5432, "database": "postgres", "user": "fivelran", "password": "dAgV4HvIDKnyRQupJUB", "update_method": "XMIN" } }</pre>
G - O	G2	<pre>{ "service": "postgres_rds", "group_id": "", "run_setup_tests": false, "config": { "schema_prefix": "postgres_rds_api", "host": "g2-postgres-rds-xmin-training-odr2btf5w1.us-west-2.rds.amazonaws.com", "port": 5432, "database": "postgres", "user": "fivelran", "password": "dAgV4HvIDKnyRQupJUB", "update_method": "XMIN" } }</pre>

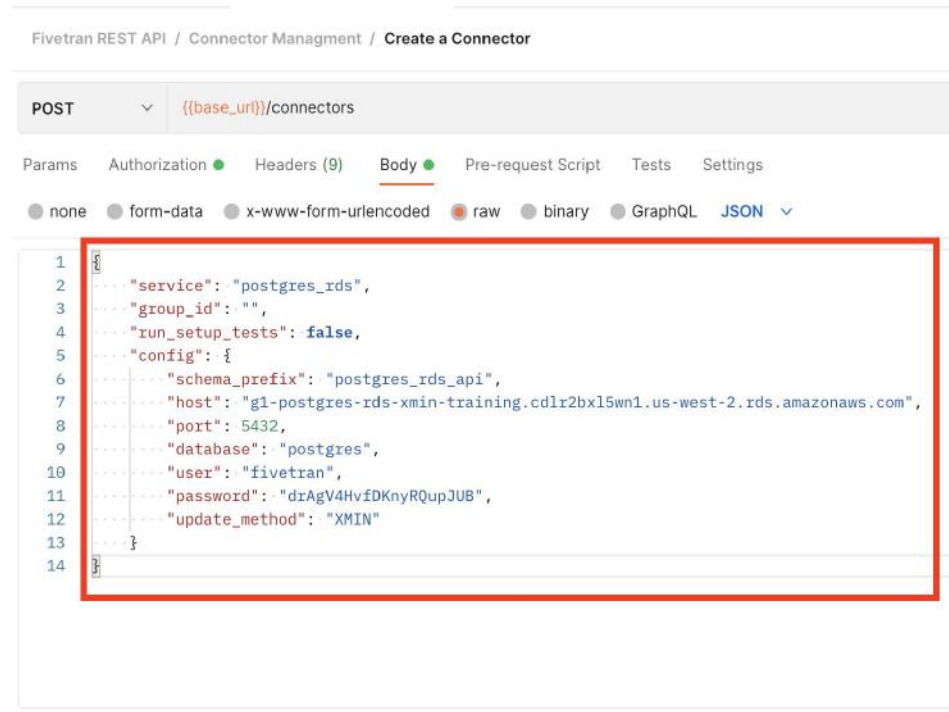
2. Find row associated with your last name
3. Copy **Request body** for your row





Create a connector using the Fivetran API pt 3

Paste **Request body** into
Postman



Return to Fivetran dashboard & obtain Group ID



For security reasons this API key and secret will not be displayed after the page is reloaded. Make sure to store them safely. Generating a new key will disable and replace the existing key.

API key

B8FJiNoGLRjSBbj3



API secret

CR9MRLOoXX2TbAQ4dVzrOFYGzIRHcqMf



Generate new secret

BACK TO DASHBOARD

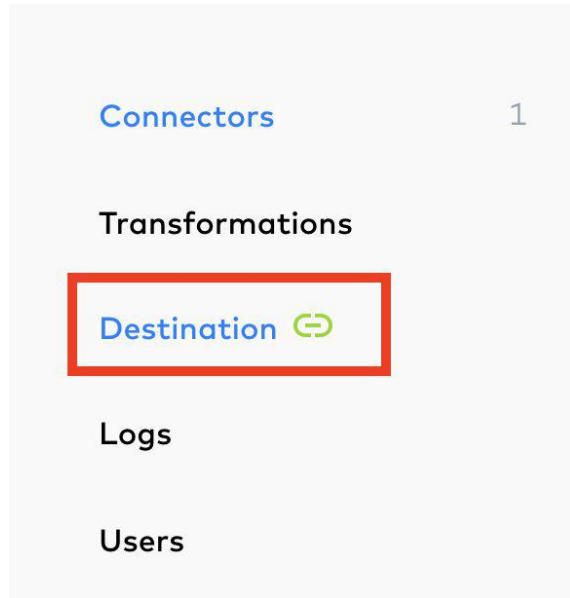
SAVE CONFIG

Click **BACK TO DASHBOARD**

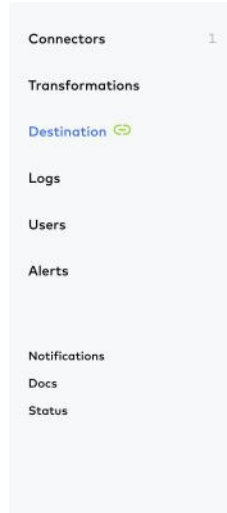




Return to Fivetran dashboard & obtain Group ID



Click **Destination** in left menu



Snowflake Warehouse

Snowflake is an elastic data warehouse

Connection Details

Host:	SK20292.us-central1.gcp.snowflakecomputing.com
Port:	443
Database:	PC_FIVETRAN_DB
Auth:	PASSWORD
User:	PC_FIVETRAN_USER
Connection Type:	Directly
Password:	*****
Default Time Zone:	Pacific Standard Time PST (UTC -08)
Data processing location:	US
Cloud service provider:	GCP
Cloud region:	us-east4
Destination Group ID:	ceded_earners

Copy your Group ID

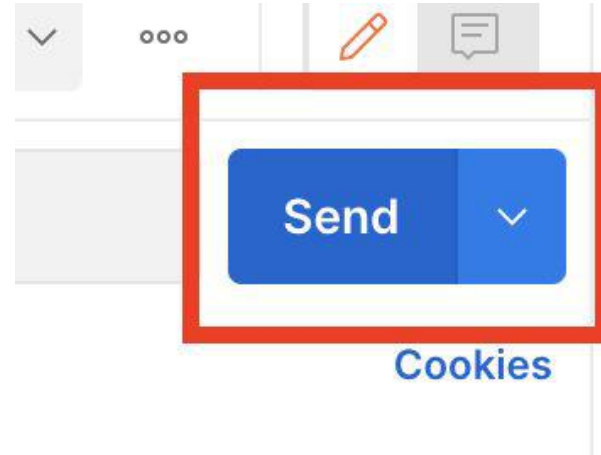
NOTE: You can also obtain your Group ID by submitting a body-less request to the [Group Details endpoint](#). But for the purposes of this workshop, we will manually paste it to the Create a Connector request parameter.





Submit your Create a Connector request

```
1 {  
2   ... "service": "postgres_rds",  
3   ... "group_id": "logarithm_stress",  
4   ... "paused": "true",  
5   ... "trust_fingerprints": "false",
```



1. Go back to Postman and paste your Fivetran **group_id** value into its parameter

2. Click **Send** to submit your Create a Connector request

*Should take 5 - 10 seconds





Submit your Create a Connector request pt 2

Body Cookies Headers (9) Test Results

Pretty

Raw

Preview

Visualize

JSON



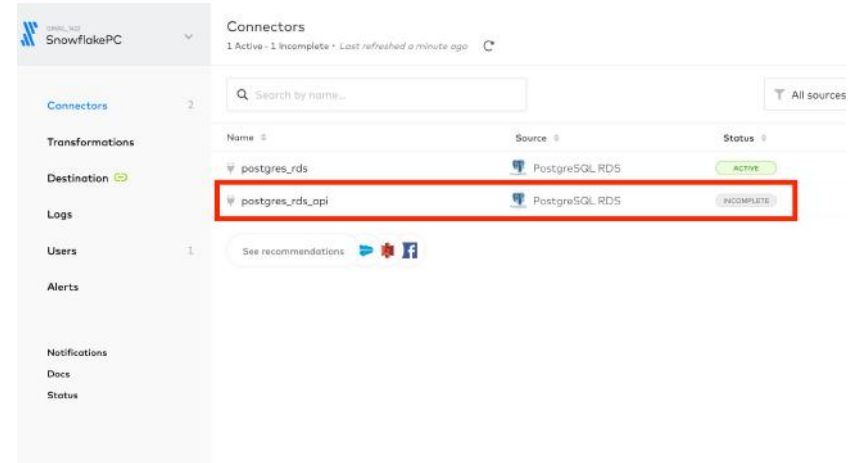
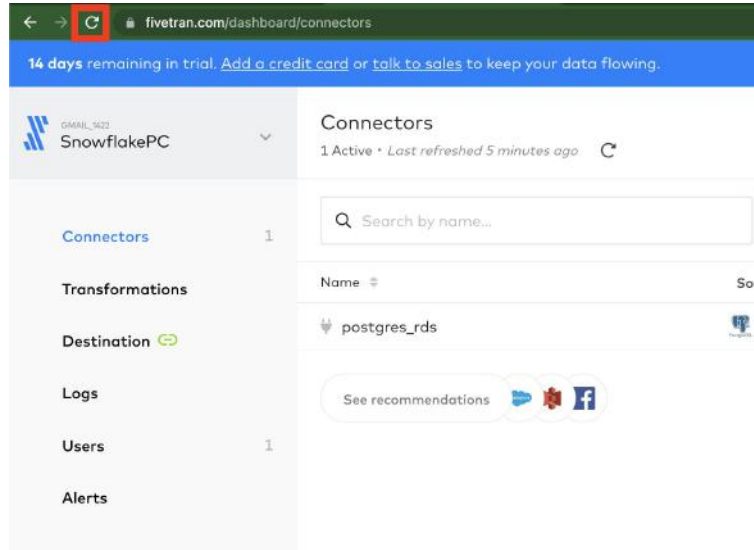
```
1  {
2    "code": "Success",
3    "message": "Connector has been created",
4    "data": {
5      "id": "sandstone_capped",
6      "group_id": "logarithm_stress",
7      "service": "postgres_rds",
8      "service_version": 3,
9      "schema": "postgres_rds_api",
10     "connected_by": "stating_recent",
11     "created_at": "2022-01-26T06:38:27.662083Z",
12     "succeeded_at": null,
13     "failed_at": null,
14     "paused": true,
15     "pause_after_trial": false,
16     "sync_frequency": 360,
17     "schedule_type": "auto".
```

You've successfully created
a connector through the
Fivetran API!





Did it really work?



1. Return to your Fivetran dashboard
2. Click **Connectors** in the left menu
3. Click the Refresh button in the browser

Voila! See your API-created connector. Now we just need to pass in the authentication parameters using Connect Cards to complete its setup.





Retrieve the Connector ID

Body Cookies Headers (9) Test Results

Pretty

Raw

Preview

Visualize

JSON



```
1 {
2   "code": "Success",
3   "message": "Connector has been created",
4   "data": {
5     "id": "sandstone_capped",
6     "group_id": "logarithm_stress",
7     "service": "postgres_rds",
8     "service_version": 3,
9     "schema": "postgres_rds_api",
10    "connected_by": "stating_recent",
11    "created_at": "2022-01-26T06:38:27.662083Z",
12    "succeeded_at": null,
```

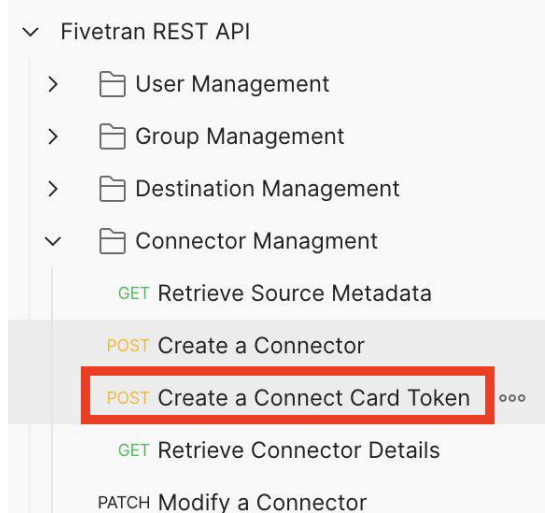
Copy the Connector ID from your response.

You will use this to create a 'Connect Card token' in the next step.





Use Connector ID to request a Connect Card token



Click **Create a Connect Card Token** from your Collection menu

Fivetran REST API / Connector Management / Create a Connect Card Token

POST `{{base_url}}/connectors/{{connector_id}}/connect-card-token`

Params Authorization Headers (8) Body Pre-request Script Test

Delete **{{connector_id}}** placeholder from request (make sure both curly braces are deleted)

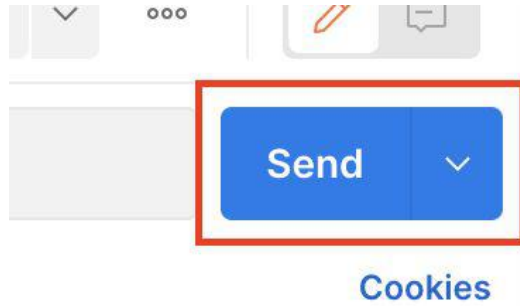
POST `{{base_url}}/connectors/sandstone_capped/connect-card-token`

Paste the **Connector ID** you copied from the previous set of steps





Use Connector ID to request a Connect Card token



Click **Send** to request a Connect Card token for your PostgreSQL connector



Your response should look like this^

- NOTE: The lifetime of this token is **one day**



Create Connect Card token URL



Redirect URI

This is the address end-users will be sent to after finishing the Connect Card authentication workflow

1. Copy the following URL and paste in your browser's address bar:

`https://fivetrn.com/connect-card/setup?redirect_uri=https://pbfdemo.com&auth={connect_card_token}`

- a. After the lab, you can find details about this URL [here](#) in our REST API docs

2. Return to Postman and copy your Connect Card token





2. Paste your Connect Card token in its place. Your URL should look like the one below:

https://fivetran.com/connect-card/setup?redirect_uri=https://pbfdemo.com&auth=eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJkIjp7ImxvZ2luljpwcnVILCJ2ZXJpZmlyYXRpb24iOmZhbnHNILCJyZXNldCI6ZmFsc2UsImpvaW4iOmZhbnHNILCJiYWNRc3RhZ2UiOmZhbnHNILCJzaWduZXliOmZhbnHNILCJlbWFpbCI6bnVsbcwidXNlcil6ImdydW50X3JlZmluYW5jZSIsImFjY291bnQoiOiJndWlkcm9wX2NvdXJOZW91c2x5Iiwia3JvdXAiOiJOcmVhdGlzZV9wdXJpZnkiLCJjb25uZWNObz3liOiJhc2NlbnRlZF9kaWFnbm9zZXMiLCJtZXRob2QiOiJQYmZDYXJklwiYmFja3NOYWdlUmVkaXIjY3Rpb24iOmZhbnHNILCJleHRlcm5hbFNpZ25lcil6ZmFsc2UsImJhY2tzdGFnZVZpcnR1YWxzNWZlZXJzaGlwljpmYWxzZSwiaWRlbnRpdHkiOmZhbnHNIfSwiaWF0IjojOTMyNjA4fQ.6jTLFCzegJVzMslrmOanMoRgjV1vHK6BCbO1J5hCRA4

3. Press **Enter / Return** on your keyboard

See your Connect Card

Connect your PostgreSQL RDS data using Fivetran

Vandelay Industries uses Fivetran to replicate data from this source securely. Data transfer is encrypted end-to-end and your credentials will never be made available. Click on "I understand" to authorize data extraction from **PostgreSQL RDS**. It should only take a few minutes.

I understand →

By clicking "I understand", you are governed by our [Terms of Service](#) and [Privacy Policy](#).

You did it!

You created a Connect Card. Your end-user can use this to authenticate the connector you created so that you can load their data into Snowflake.



Go through Connect Card flow to understand the end-user experience

Click **I understand** button

Connect your PostgreSQL RDS data using Fivetran

Gmail_1422 uses Fivetran to replicate data from this source securely. Data transfer is encrypted end-to-end and your credentials will never be made available. Click on "I understand" to authorize data extraction from **PostgreSQL RDS**. It should only take a few minutes.

I understand →

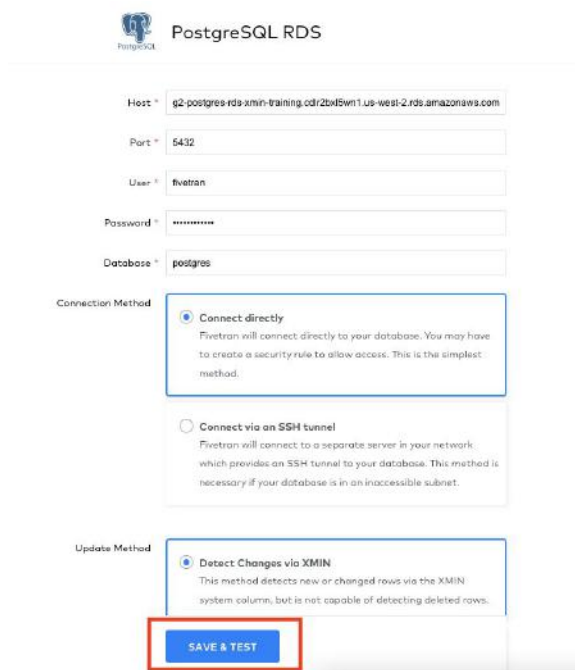
By clicking "I understand", you are governed by our [Terms of Service](#) and [Privacy Policy](#).



Go through Connect Card flow to understand the end-user experience pt 2

Click **SAVE & TEST**

*Normally your end-user would populate these fields themselves. To save time in this workshop, we've populated them for you by passing the info in as parameters in our API request.



The screenshot shows a 'PostgreSQL RDS' connection configuration form. It includes fields for Host, Port, User, Password, and Database. Below these is the 'Connection Method' section with two options: 'Connect directly' (selected) and 'Connect via an SSH tunnel'. At the bottom is the 'Update Method' section with one option: 'Detect Changes via XMIN'. A red rectangular box highlights the 'SAVE & TEST' button at the bottom right of the form.

PostgreSQL RDS

Host * g2-postgres-rds-xmin-training.cdr2bx5wn1.us-west-2.rds.amazonaws.com

Port * 5432

User * fivegran

Password *

Database * postgres

Connection Method

☒ Connect directly
Fivegran will connect directly to your database. You may have to create a security rule to allow access. This is the simplest method.

☐ Connect via an SSH tunnel
Fivegran will connect to a separate server in your network which provides an SSH tunnel to your database. This method is necessary if your database is in an inaccessible subnet.

Update Method

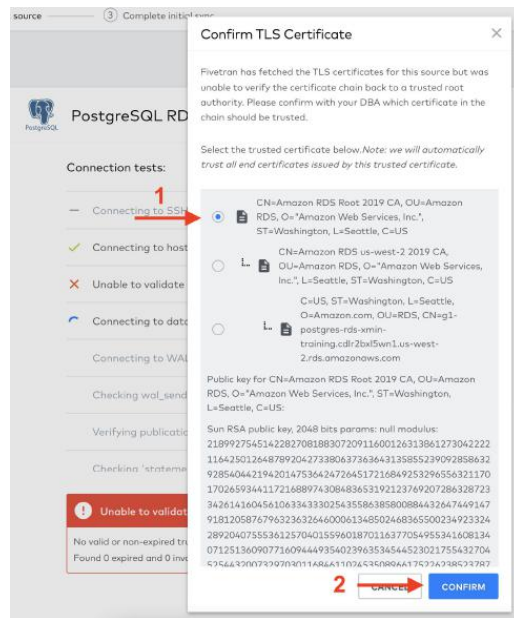
☒ Detect Changes via XMIN
This method detects new or changed rows via the XMIN system column, but is not capable of detecting deleted rows.

SAVE & TEST

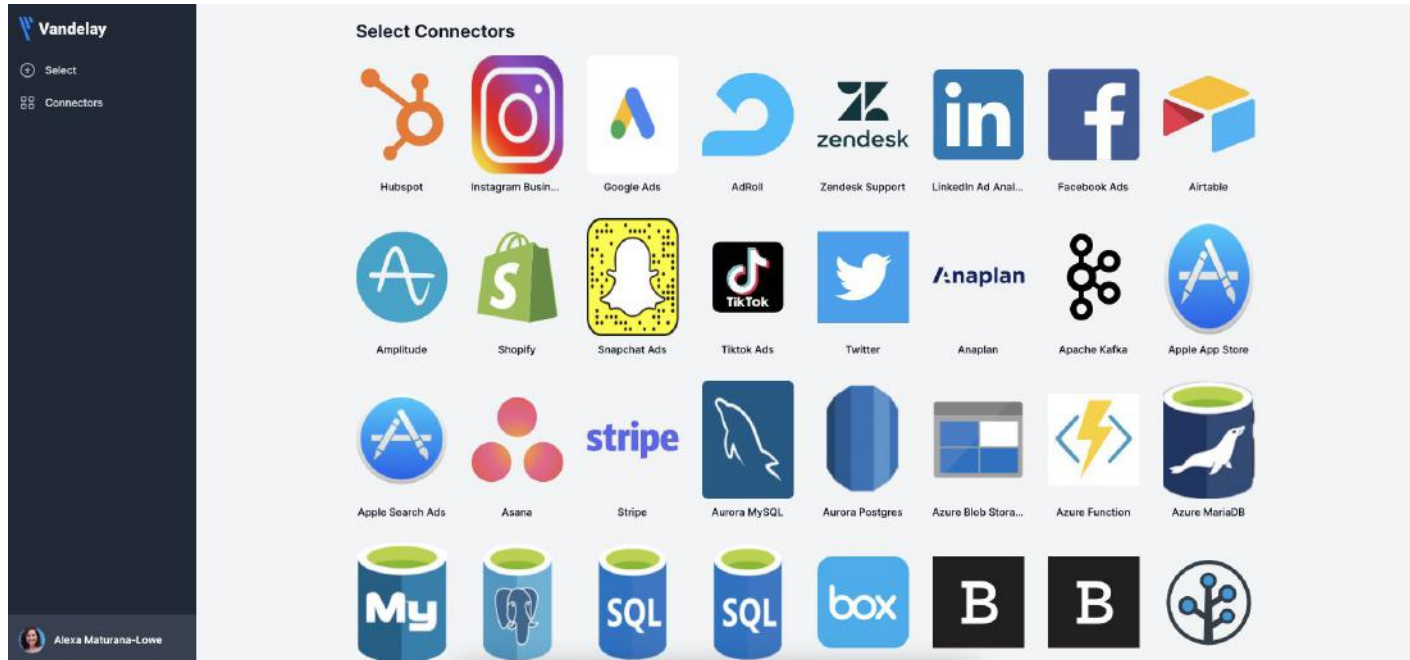


Go through Connect Card flow to understand the end-user experience pt 3

1. Click required TLS
(Transport Layer Security /
SSL) certificate
2. Click **Confirm** to proceed
with the connection setup
steps



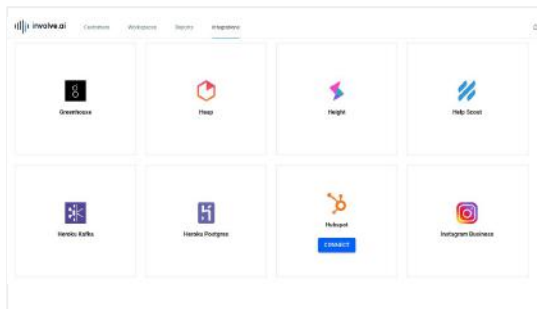
Once setup tests complete, you will be redirected to the URL we specified earlier



Connect Card implementation: Involve

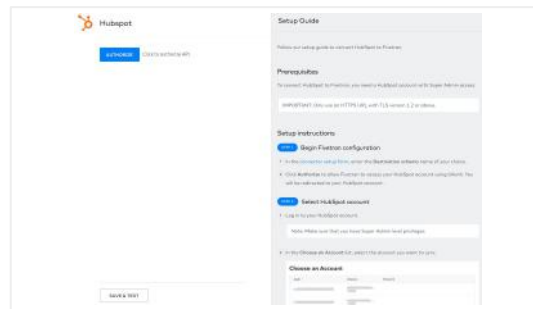


Involve Integrations page



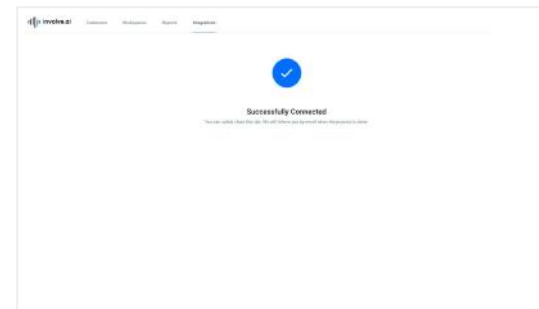
User selects a data source

Fivetran Connect Card popup



User enters credentials for their data source and clicks "Save & Test"

Involve Integration status page



A connection is formed between the data source and Fivetran. The user is notified that the connection attempt was successful.

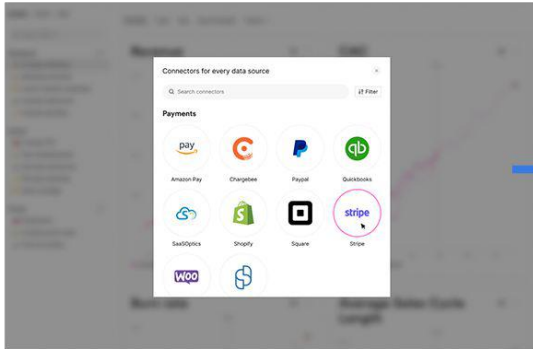
Case study ([web](#), [pdf](#))



Connect Card implementation: Daydream

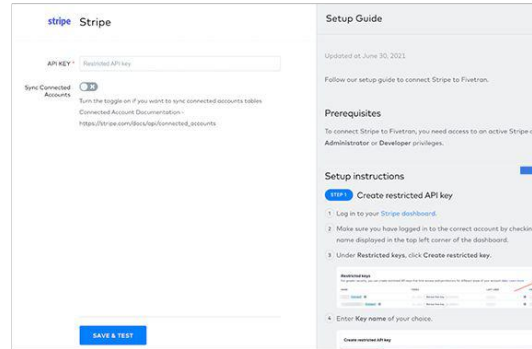
Daydream

Daydream connector selection popup



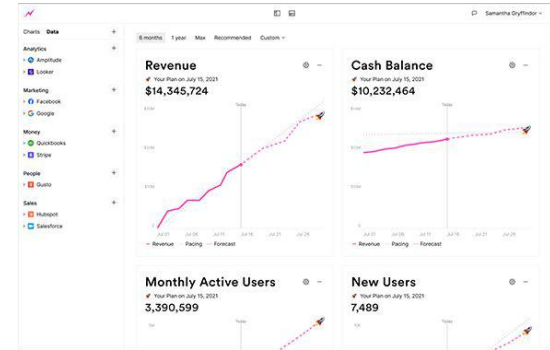
User selects a data source

Fivetran Connect Card popup



User enters credentials for their data source and clicks "Save & Test"

Daydream dashboard



A connection is formed between the data source and Fivetran. The user is returned to the Daydream dashboard.



You Did It!

In this workshop you:

- ✓ Set up a Snowflake account
- ✓ Set up a Fivetran account
- ✓ Synced data to Snowflake with Fivetran
- ✓ Used Fivetran API to allow end-users to connect data to Snowflake themselves

Ready for more?



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[PBF Quick Start Guide](#)



[Webinar] [Jump-start your data monetization journey](#)



[PBF demo w/ technical specialist](#)



[Hands on Lab] [Zero to Snowflake](#)



[PBF Startup Program](#)

Polling question #4

How much of the lab were you able to complete?