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Use Streamlit in Snowflake to code in a secure environment

Snowflake is a single, global platform that powers the Data Cloud. If you want to use a secure platform with role-based access control, this is the option for you! This page walks you through creating a trial Snowflake account and building a "Hello world" app. Your trial account comes with an account credit so you can try out the service without entering any payment information.

Note For more information, see Limitations and unsupported features in the Snowflake documentation.

All you need is an email address! Everything else happens in your 30-day trial account.

Prerequisites

1. Go to signup.snowflake.com. (This link will open in a new tab.)

Create an account

Home / Get started / Installation / Use Snowflake

2. Fill in your information, and click "CONTINUE."

3. Select "Standard" for your Snowflake edition and "Amazon Web Services" for your cloud provider.

4. Choose the region nearest you, accept the terms, and click "GET STARTED."

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/fallback. Choose your cloud provider* Amazon Web Microsoft Azure Google Cloud Services Platform US West (Oregon) Check here to indicate that you have read and agree to the terms of the <u>Snowflake Self Service On Demand</u> **GET STARTED** 1. Answer a few questions to let us know more about yourself, or skip them.

note the subdomain. This is your Snowflake account identifier. https://<account_identifier>.snowflakecomputing.com)

3. Set your username and password. This will be an admin user account within your Snowflake account. Your Snowflake account can have multiple users within it. 4. If you are not signed in after setting your password, follow the instructions to enter your Snowflake account

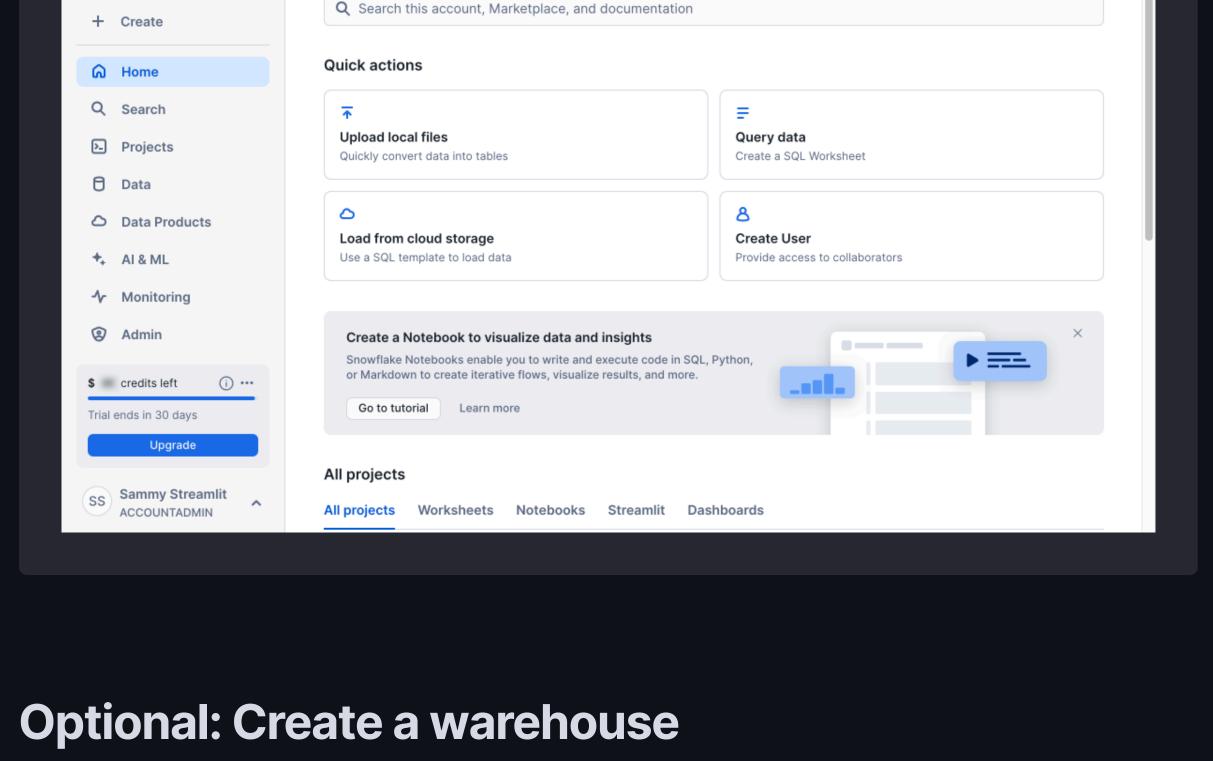
2. A message will display: "You're now signed up!" Go to your email, and click on the activation link. (Within your link,

identifier, and then enter your username and password. If you've accidentally closed your browser, you can sign in at app.snowflake.com.

Congratulations! You have a trial Snowflake account. The displayed interface is called Snowsight. Snowsight provides a web-based, graphical user interface for your Snowflake account. The default page is "Home," which provides popular quick actions to get started. You can access your "Projects"

in the left navigation or at the bottom of your "Home" page. "Projects" include worksheets, notebooks, Streamlit apps, and dashboards. Check out the Snowflake docs for a quick tour.)

******snowflake Home PREVIEW



1. In the lower-left corner under your name, confirm that your current role is "ACCOUNTADMIN." If it isn't, click your name, hover over "Switch Role," and select "ACCOUNTADMIN."

you can create another warehouse.

2. In the left navigation, select "Admin" → "Warehouses." 3. In the upper-right corner, click the blue " + Warehouse" button.

Warehouses provide compute resources for tasks and apps in your Snowflake account. Your trial account already has an

XS warehouse which you can use. This is named "COMPUTE_WH." However, if you want to use more compute resources,

4. Enter "STREAMLIT_WH" for the name and select a type and size. The default type and size are "Standard" and "X-Small," respectively. Click "Create Warehouse."

1. In the left navigation, select "**Data**" → "**Databases**."

3. Enter "STREAMLIT_DB" for the name, and click "Create."

Create a database

snowflake

+ AI & ML

Databases provide storage for data and apps in your Snowflake account. Your trial account comes with a shared database of sample data, but you must create a new database in your account to store your app files.

Yay! You now have a new database to hold all your Streamlit apps.

Q Search

> A SNOWFLAKE

2. In the upper-right corner, click the blue " + Database" button.

> 🗟 SNOWFLAKE_SAMPLE_DATA 3 Databases Q Search + Create → STREAMLIT_DB NAME 🛧 SOURCE OWNER Q Search ACCOUNTADN 1 day ago SNOWFLAKE_... Projects ☐ STREAMLIT_DB ▲ ACCOUNTADN 3 minut... Data Databases Add Data Data Products

◆ Monitoring Admin \$ credits left (i) *** Trial ends in 30 days Upgrade The databases in the above screenshot are as follows: • "SNOWFLAKE:" A built-in database that stores meta data for your account. • "SNOWFLAKE_SAMPLE_DATA:" A shared database with sample data. • "STREAMLIT_DB:" Your new database where you'll put your Streamlit files.

Databases

+ Database

Source All C

CREAT..

1 day ago

+ Streamlit App

Q Search

• App title: "Hello World" App location: "STREAMLIT_DB" and "PUBLIC"

Create a "Hello World" Streamlit app

1. In the left navigation, select "Projects" → "Streamlit."

3. Enter your app details as follows:

******snowflake

+ Create

Q Search

▶ Projects

Worksheets

5. Optional: Explore the example app.

import streamlit as st

st.write("Hello World")

Hooray! You just wrote a Streamlit app.

}_

8. Change st.write to st.title:

Your app now displays the larger title text.

can sign in at app.snowflake.com.

st.write("Hello World")

• App warehouse: "COMPUTE_WH" (default) or "STREAMLIT_WH" (if you created a new warehouse) If you can't select your database, refresh the page to ensure that the interface is displaying current information.

App title

6. In the left code editor, delete everything, and replace it with the following:

Hello World

App location ①

☐ STREAMLIT_DB

2. In the upper-right corner, click the blue " + Streamlit App" button.

roles and permissions to choose who can create and access apps.)

4. Click "Create." (Note that the app will run with the rights of "ACCOUNTADMIN" for simplicity. You can curate your

Create Streamlit App

App will run with rights of (a) ACCOUNTADMIN

∨ S PUBLIC

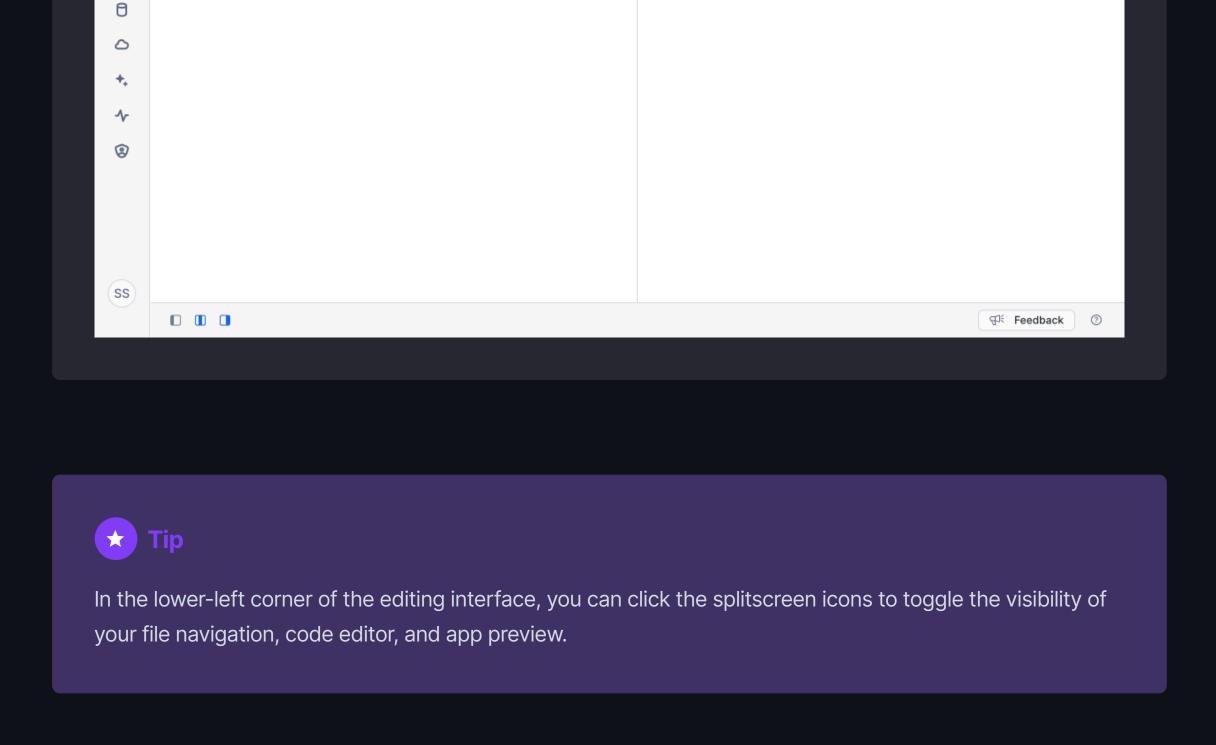
Notebooks App warehouse ① STREAMLIT_WH Dashboards App Packages Cancel Data Data Products Get started with Streamlit Apps Make your Snowflake data come alive with + AI & ML powerful Streamlit apps that your entire company can use ◆ Monitoring Admin Your new app is prefilled with example code and opens in editing mode. The left panel shows your code. The right panel shows the resulting app.

If you want to return to the sample code later, you can always make another app to edit the same example again.

7. In the upper-right corner, click the blue " **Run**" button to make the running app reflect your changes.

 Streamlit Apps Hello World ▼ import streamlit as st

Hello World



import streamlit as st st.title("Hello World")

9. In the upper-right corner, click the blue " > Run" button to make the running app reflect your changes.

Return to your app

If you don't see your app, check that your role is set to "ACCOUNTADMIN" as described in Optional: Create a

When you want to view or edit your app again, you can return to it through Snowsight. If you are returning to the site, you

10. Optional: Make more edits to your app. You must interact with your app or click the blue " > Run" button to display

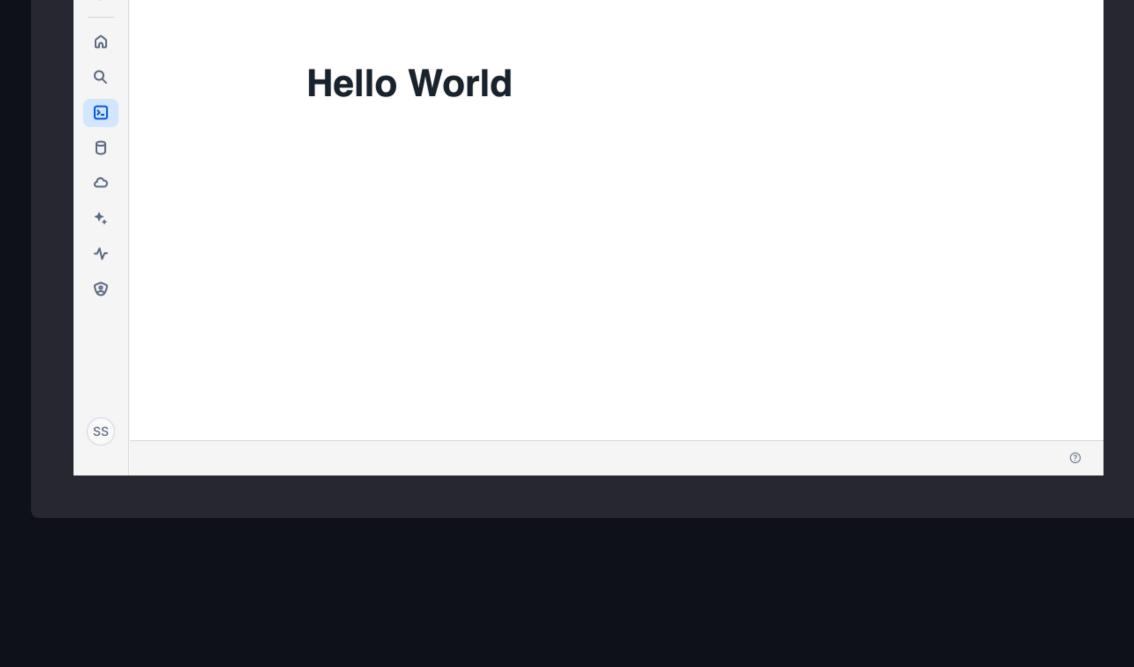
the changes. This is different from a local environment where you can save your changes to trigger a rerun.

1. In the left navigation, select "Projects" → "Streamlit." 2. In your list of apps, click "Hello World."

11. To return to Snowsight, in the upper-left corner, click " < Streamlit Apps."

warehouse. 3. Your app will open in viewing mode. To edit your app, in the upper-right corner, click "**Edit**."

Streamlit Apps Hello World •



← Previous: Use GitHub Codespaces

What's next? Read about our Basic concepts and try out more commands in your app. Or, create more apps in Snowflake! You can reuse your warehouse and database, so you don't need to repeat those steps.

For more information about creating and managing Streamlit in Snowflake apps, check out the Snowflake docs.

Still have questions? Our forums are full of helpful information and Streamlit experts.

> **Contact Us Community** \sum © 2025 Snowflake Inc. Cookie policy

Next: Fundamentals →

Return to your app What's next?

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