Snowflake Authentication

Overview

The Alchemer Snowflake integration uses key-pair authentication to authenticate.

Snowflake API Credentials

What You Need

- A Snowflake account identifier
- A Snowflake username
- A private key file (.pem) generated for your Snowflake user

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How to Set Up Key-Pair Authentication in Snowflake

1. Generate a key pair

On your local machine, generate a private key and a corresponding public key:

1. Generate a private key:
    - `openssl genrsa -out private_key.pem 2048`
2. Generate the public key from the private key:
    - `openssl rsa -in private_key.pem -pubout -out public_key.pem`

2. Assign the public key to your Snowflake user

1. Log in to Snowflake with a user that has the `SECURITYADMIN` role or higher.
2. Open the public key file (`public_key.pem`) and copy the key content — everything between (but not including) the `-----BEGIN PUBLIC KEY-----` and `-----END PUBLIC KEY-----` lines.
3. Run the following SQL, replacing the placeholders with your values:
    - `ALTER USER your_username SET RSA_PUBLIC_KEY='<paste public key content here>';`

3. Note your Snowflake account identifier

- Your account identifier follows the format `orgname-accountname` or the legacy format `accountname.region.cloud` .
- You can find it in the Snowflake UI under **Admin → Accounts**, or in the URL of your Snowflake instance.

Need more help? Click here for Snowflake's key-pair authentication documentation.

Authenticate Snowflake in Alchemer

After setting up key-pair authentication in Snowflake, add your credentials to the Alchemer Snowflake integration. Credentials are securely stored in Alchemer and can be reused.

How to Authenticate

1. Start a New Authentication

- Inside any Snowflake integration action, select **New Authentication**.

2. Enter Your Snowflake Credentials

Provide the following:

- **Account Identifier:** Your Snowflake account identifier (e.g., `orgname-accountname`)
- **Username:** The Snowflake username associated with the public key
- **Private Key:** The contents of your `private_key.pem` file

3. Save Your Authentication

- Select **Create**.
- Once created:
  - The authentication is saved and reused for all Snowflake actions
  - You only need to update it if your key pair or account credentials change

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