

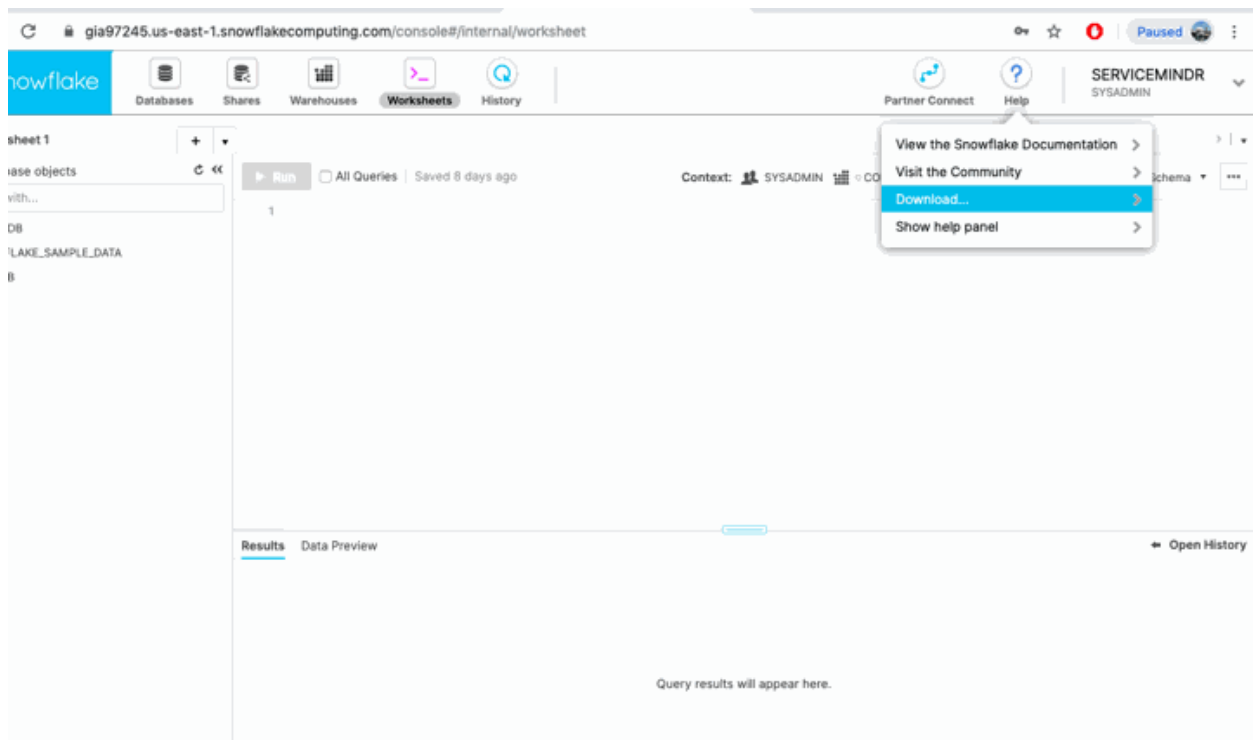
Install and configure SnowSQL

SnowSQL is the command-line interface for accessing your Snowflake instance.

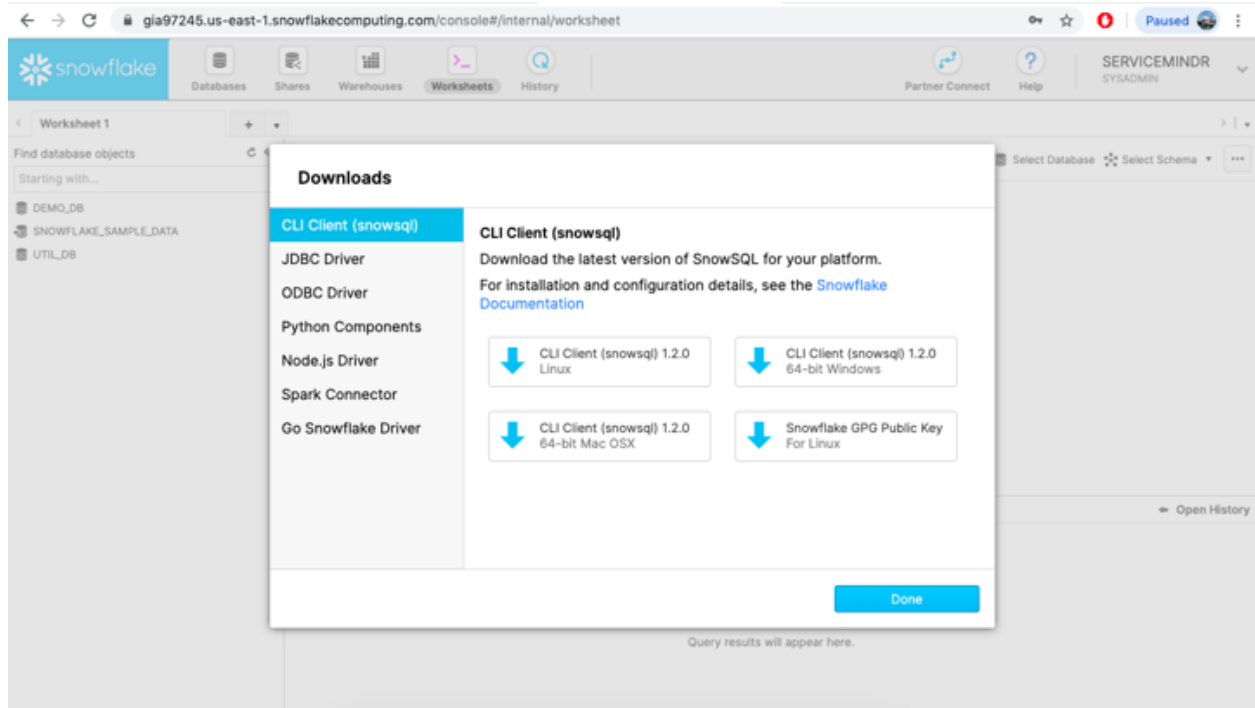
The following is a quick "how to" guide for setting it up.

Installation

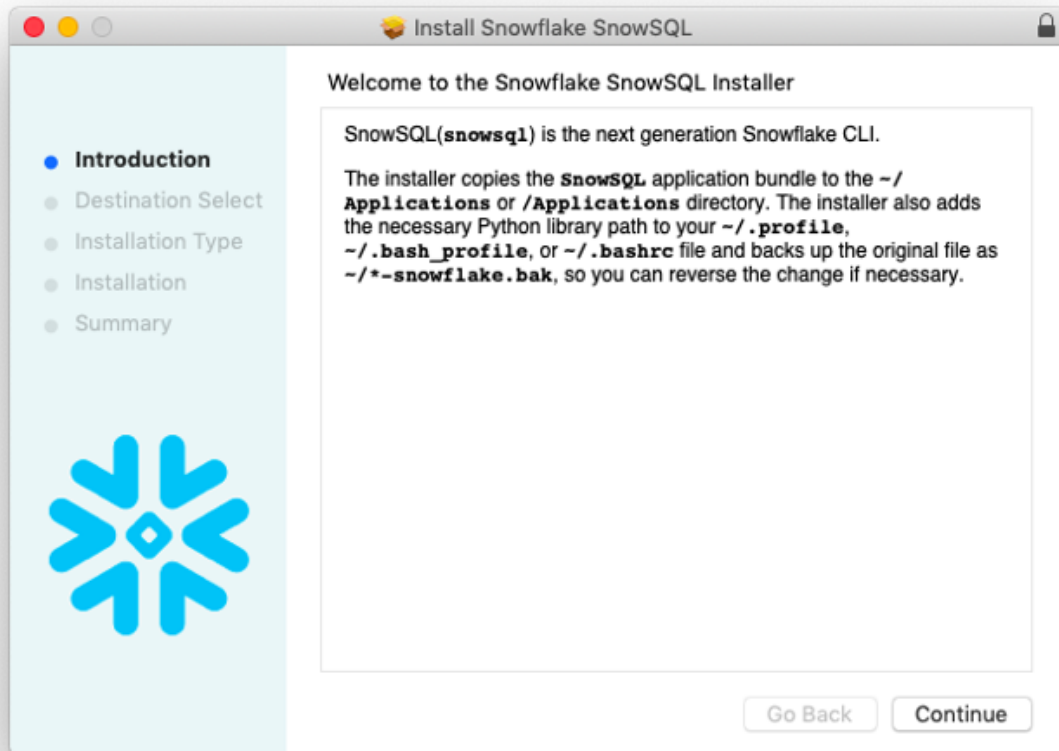
After logging into your Snowflake web interface, the SnowSQL installer is available via Help -> Download:

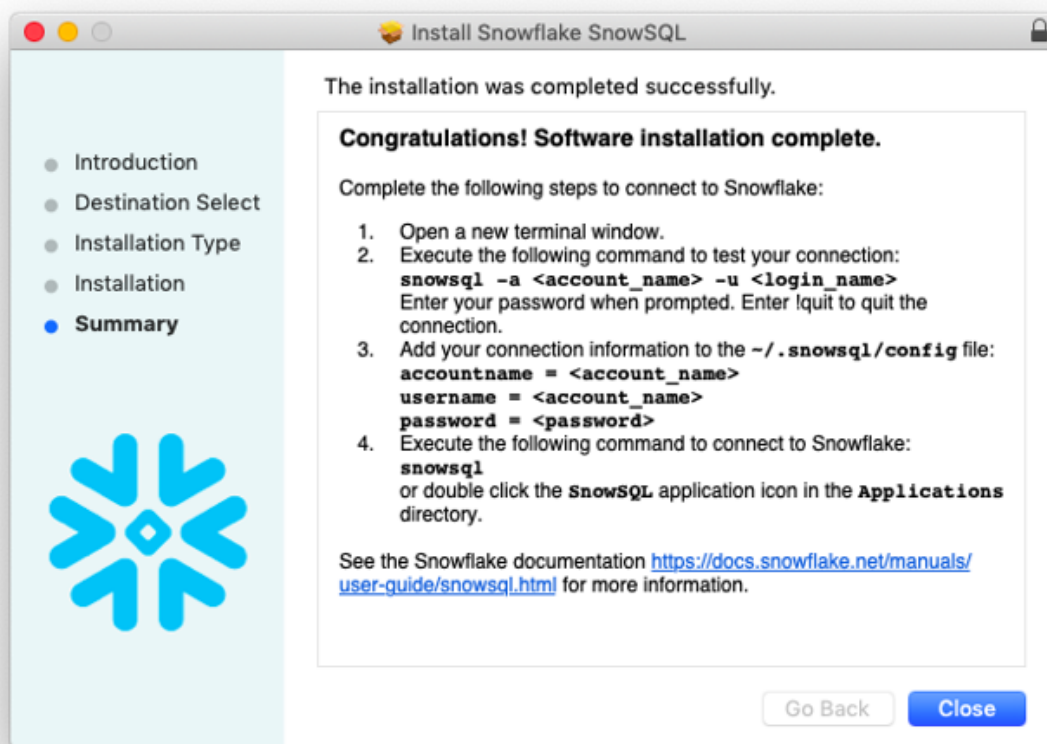


You'll need to select the appropriate version for your machine:



..and install it:





To verify installation, simply open a terminal window and run snowsql. If installed properly, you will receive a list of connection and option flags:

```
$ snowsql
Usage: snowsql [OPTIONS]
Options:
  -a, --accountname TEXT      Name assigned to your Snowflake account. If
                              you are not on us-west-2 or AWS deployment,
                              append the region and platform to the end,
                              e.g., <account>.<region> or
                              <account>.<region>.<platform>Honors
                              $SNOWSQL_ACCOUNT.
  -u, --username TEXT         Username to connect to Snowflake. Honors
                              $SNOWSQL_USER.
  -d, --dbname TEXT           Database to use. Honors $SNOWSQL_DATABASE.
  -s, --schemaname TEXT       Schema in the database to use. Honors
                              $SNOWSQL_SCHEMA.
  -r, --rolename TEXT         Role name to use. Honors $SNOWSQL_ROLE.
  -w, --warehouse TEXT        Warehouse to use. Honors $SNOWSQL_WAREHOUSE.
  -h, --host TEXT             Host address for the connection. Honors
                              $SNOWSQL_HOST.
  -p, --port INTEGER          Port number for the connection. Honors
                              $SNOWSQL_PORT.
  --region TEXT               (DEPRECATED) Append the region or any sub
```

domains before snowflakecomputing.com to the end of accountname parameter after a dot. e.g., accountname=<account>.<region>

--m, --mfa-passcode TEXT Token to use **for** multi-factor **authentication** (MFA)

--mfa-passcode-in-password Appends the MFA passcode to the end of the password.

--abort-detached-query Aborts a query **if** the connection between the client and server **is** lost. By **default**, it won't abort even **if** the connection **is** lost.

--probe-connection Test connectivity to Snowflake. This option **is** mainly used to print **out** the TLS/SSL certificate chain.

--proxy-host TEXT (DEPRECATED. Use HTTPS_PROXY and HTTP_PROXY environment variables.) Proxy server hostname. Honors \$SNOWSQL_PROXY_HOST.

--proxy-port INTEGER (DEPRECATED. Use HTTPS_PROXY and HTTP_PROXY environment variables.) Proxy server port number. Honors \$SNOWSQL_PROXY_PORT.

--proxy-user TEXT (DEPRECATED. Use HTTPS_PROXY and HTTP_PROXY environment variables.) Proxy server username. Honors \$SNOWSQL_PROXY_USER. Set \$SNOWSQL_PROXY_PWD **for** the proxy server password.

--authenticator TEXT Authenticator: 'snowflake', 'externalbrowser' (to use any IdP and a web browser), or https://<your_okta_account_name>.okta.com (to use Okta natively).

-v, --version Shows the current SnowSQL version, or uses a specific version **if** provided **as a value**.

--noup Disables auto-upgrade **for this** run. If no version **is** specified **for -v**, the latest version **in** ~/.snowsql/ **is** used.

-D, --variable TEXT Sets a variable to be referred **by** &<var>. -D tablename=CENUSTRACKONE or --variable db_key=\$DB_KEY

-o, --option TEXT Set SnowSQL options. See the options reference **in** the Snowflake documentation.

-f, --filename PATH File to execute.

-q, --query TEXT Query to execute.

--config PATH Path and name of the SnowSQL configuration file. By **default**, ~/.snowsql/config.

-P, --prompt Forces a password prompt. By **default**, \$SNOWSQL_PWD **is** used to **set** the password.

-M, --mfa-prompt Forces a prompt **for** the second token **for** MFA.

-c, --connection TEXT Named **set** of connection parameters to use.

--single-transaction Connects with autocommit disabled. Wraps BEGIN/COMMIT around statements to execute them **as** a single transaction, ensuring all commands complete successfully or no change **is** applied.

--private-key-path PATH Path to **private** key file **in** PEM format used

	for key pair authentication. Private key file is required to be encrypted and passphrase is required to be specified in environment variable
	<code>\$SNOWSQL_PRIVATE_KEY_PASSPHRASE</code>
<code>-U, --upgrade</code>	Force upgrade of SnowSQL to the latest version.
<code>-K, --client-session-keep-alive</code>	Keep the session active indefinitely, even if there is no activity from the user..
<code>--disable-request-pooling</code>	Disable request pooling. This can help speed up connection failover
<code>-, --help</code>	Show this message and exit.

Configuration

As indicated above, SnowSQL has a host of connection params and settings, and allows variable declaration and substitution. You won't need to be familiar with [all the options](#) to hit the ground running, but I definitely recommend leveraging `~/.snowsql/config` to persist your connection details and personal preferences.

Create `~/.snowsql/config`

```
$ touch ~/.snowsql/config
```

Add your connection details to the `[connections]` section.

The first few lines of your `~/.snowsql/config` file should look like the following:

```
[connections]
accountname = YOUR_ACCOUNT_NAME
username = YOUR_USERNAME
password = YOUR_PASSWORD
```

Connect SnowSQL from prompt:

Sudo snowsql -a ix21114.ap-south-1

User: sreenivaskalahasti

Password:

* SnowSQL * v1.2.21

Type SQL statements or !help

sreenivaskalahasti#COMPUTE_WH@(no database).(no schema)>!help

+-----+-----+-----+-----+			
--+			
Command	Use	Aliases	Description
+-----+-----+-----+-----+			
-			
!abort	!abort <query id>		Abort a query
!connect	!connect <connection name>		Create a new connection
!define	!define <variable>=<value>		Define a variable as the given value
!edit	!edit <query>		Opens up a text editor. Useful for writing longer queries. Defaults to last query
!exit	!exit	!disconnect	Drop the current connection
!help	!help	!helps, !h	Show the client help.
!options	!options	!opts	Show all options and their values
!pause	!pause		Pauses running queries.
!print	!print <message>		Print given text
!queries	!queries help, <filter>=<value>, <filter>		Lists queries matching the specified filters. Write <queries> help for a list of filters.
!quit	!quit	!q	Drop all connections and quit SnowSQL
!rehash	!rehash		Refresh autocompletion
!result	!result <query id>		See the result of a query
!set	!set <option>=<value>		Set an option to the given value
!source	!source <filename>, <url>	!load	Execute given sql file
!spool	!spool <filename>, off		Turn on or off writing results to file
!system	!system <system command>		Run a system command in the shell
!variables	!variables	!vars	Show all variables and their values
+-----+-----+-----+-----+			
--+			

sreenivaskalahasti#COMPUTE_WH@(no database).(no schema)>use TRAINING_DB;

+-----+

| status |

|-----|

| Statement executed successfully. |

+-----+

1 Row(s) produced. Time Elapsed: 0.740s

sreenivaskalahasti#COMPUTE_WH@TRAINING_DB.PUBLIC>show databases;

```

+-----+-----+-----+-----+-----+-----+
| created on | name | is default | is current | origin | owner | comment |
| options | retention_time |
+-----+-----+-----+-----+-----+
| 2022-01-09 05:50:52.078 -0800 | OUR_FIRST_DATABASE | N | N | | ACCOUNTADMIN |
| 1 |
| 2022-01-02 08:12:50.161 -0800 | S3_TO_SNOWFLAKE | N | N | | ACCOUNTADMIN |
| 1 |
| 2022-01-01 06:52:23.299 -0800 | SNOWFLAKE | N | N | SNOWFLAKE.ACCOUNT USAGE |
| 1 |
| 2022-01-01 06:52:27.797 -0800 | SNOWFLAKE_SAMPLE_DATA | N | N | SFC_SAMPLES.SAMPLE_DATA |
ACCOUNTADMIN | Provided by Snowflake during account provisioning | 1 |
| 2022-01-09 05:47:44.610 -0800 | TRAINING_DB | N | Y | | ACCOUNTADMIN |
| 1 |

```

5 Row(s) produced. Time Elapsed: 0.156s

sreenivaskalahasti#COMPUTE_WH@TRAINING_DB.PUBLIC>show TABLES;

```

+-----+-----+-----+-----+-----+-----+-----+-----+
| created on | name | database name | schema name | kind | comment | cluster by | rows | bytes |
owner | retention_time | automatic clustering | change tracking | search_optimization |
search_optimization_progress | search_optimization_bytes | is_external |
+-----+-----+-----+-----+-----+-----+-----+
| 2022-01-09 05:49:55.808 -0800 | EMP_BASIC | TRAINING_DB | PUBLIC | TABLE | | 0 | 0 |
ACCOUNTADMIN | 1 | OFF | OFF | OFF | NULL | NULL |
N |

```

1 Row(s) produced. Time Elapsed: 0.163s

sreenivaskalahasti#COMPUTE_WH@TRAINING_DB.PUBLIC>use OUR_FIRST_DATABASE;

```

+-----+
| status |
+-----+
| Statement executed successfully. |
+-----+

```

1 Row(s) produced. Time Elapsed: 0.143s

sreenivaskalahasti#COMPUTE_WH@OUR_FIRST_DATABASE.PUBLIC>show tables;

```

+-----+-----+-----+-----+-----+-----+-----+-----+
| created on | name | database name | schema name | kind | comment | cluster by | rows |
bytes | owner | retention_time | automatic clustering | change tracking | search_optimization |
search_optimization_progress | search_optimization_bytes | is_external |
+-----+-----+-----+-----+-----+-----+-----+
| 2022-01-09 05:52:24.313 -0800 | LOAN_PAYMENT | OUR_FIRST_DATABASE | PUBLIC | TABLE | | 0 |
0 | ACCOUNTADMIN | 1 | OFF | OFF | OFF | NULL |
NULL | N |

```

1 Row(s) produced. Time Elapsed: 0.144s

sreenivaskalahasti#COMPUTE_WH@OUR_FIRST_DATABASE.PUBLIC>SELECT CURRENT_WAREHOUSE();

```

+-----+
| CURRENT_WAREHOUSE() |
+-----+

```



```

|-----|
| COMPUTE WH |
+-----+
1 Row(s) produced. Time Elapsed: 0.144s
sreenivaskalahasti#COMPUTE_WH@OUR_FIRST_DATABASE.PUBLIC>use WAREHOUSE TRAINING_WH:
+-----+
| status |
|-----|
| Statement executed successfully. |
+-----+
1 Row(s) produced. Time Elapsed: 0.146s
sreenivaskalahasti#TRAINING_WH@OUR_FIRST_DATABASE.PUBLIC>SELECT CURRENT_WAREHOUSE():
+-----+
| CURRENT_WAREHOUSE() |
|-----|
| TRAINING_WH |
+-----+
1 Row(s) produced. Time Elapsed: 0.290s
sreenivaskalahasti#TRAINING_WH@OUR_FIRST_DATABASE.PUBLIC>SELECT CURRENT_SCHEMA():
+-----+
| CURRENT_SCHEMA() |
|-----|
| PUBLIC |
+-----+
1 Row(s) produced. Time Elapsed: 2.137s
sreenivaskalahasti#TRAINING_WH@OUR_FIRST_DATABASE.PUBLIC>

```