

# Set up DataSync Agent to share to Snowflake

## Fluorine

You can configure your Perspective DataSync Agent to share data from ServiceNow or Salesforce to a Snowflake database by changing some additional [configurations in your agent.xml file](#).

**NOTE:** The **Snowflake JDBC driver 3.8.0** will come packaged with your Perspective DataSync Agent in order to address a known issue with use of OSCP for certificate revocation status.

## Prerequisites

- ⚠ First, you will need to install a [DataSync Agent](#).
- ⚠ You will also need to [create a ServiceNow dynamic share/bulk share](#) or [create a Salesforce dynamic share/bulk share](#).
- ⚠ Finally, make sure to [stop running your DataSync Agent](#) before making any Agent configuration changes.

## Procedure

To set up your DataSync Agent to share application data to a Snowflake database, follow these steps:

1

### Install and configure your DataSync Agent

Follow the steps to install the [DataSync Agent](#) or the [DataSync for Salesforce Agent](#) and [make sure that your agent.xml file is configured correctly](#).

2

### Access your agent.xml configuration file

Navigate to the directory where you saved your **agent.xml** file when installing your DataSync Agent.

3

### Update database directives to point to Snowflake

Open your **agent.xml** file in a text editing application. Then, locate the **<task>** directive(s) within your **<subscribe>** directive, and update the following database-related directives:

Directive	Value to enter
<b>&lt;database_type&gt;</b>	<b>snowflake</b>
<b>&lt;database_server&gt;</b>	URL for your Snowflake database
<b>&lt;database_port&gt;</b>	<b>1433</b>
<b>&lt;database_user&gt;</b>	Username used to access your Snowflake database
<b>&lt;database_password&gt;</b>	Password used to access your Snowflake database

**NOTE:** If you want to send data to specific warehouses or schemas in Snowflake, you will need to have the following [privileges granted to your Snowflake user account](#):

- **warehouse:** usage
- **database:** usage
- **schema:** usage, create table

Then, request the **databases.xml** file for your DataSync Agent by [contacting Perspective Support](#). Once you've received the **databases.xml** file, follow these steps:

- Open the file in a text-editing application and locate the configurations for **<database\_type>snowflake</database\_type>**. Within the parent **<database>** directive, locate the **<database\_uri>** directive and delete the **schema=public&amp;** from within this directive's value.
- Locate the **<database\_uri\_database\_parms>** directive and replace the **?** within this directive's value with **&amp;**;

## 4

- Save the **databases.xml** file and put the file within the **conf** directory that was created upon [installation of your DataSync Agent](#).
- Still within the DataSync Agent **conf** directory, locate and then open the **agent.xml** file in a text-editing application.
- Within the **agent.xml** file, locate the **<database\_parms>** directive and add the following for this directive's value: **warehouse=MY\_WAREHOUSE&schema=MY\_SCHEMA** (where **MY\_WAREHOUSE** is the Snowflake warehouse you want to share data to and **MY\_SCHEMA** is the Snowflake schema you want to share data to).

## Add directive(s) for Snowflake

Locate the **<task>** directive(s) within your **<subscribe>** directive, and nest the following directive:

Directive	Description
<b>&lt;ensure_table_exists/&gt;</b>	Self-closing tag that runs a check to ensure the Snowflake database table exists

**NOTE:** If using a DataSync for ServiceNow Agent, it is also recommended to nest [the <use\\_cache/> directive](#) within each **<task>** directive for **<subscribe>**.

Your **agent.xml** file should look similar to the example shown below:

```
<?xml version="1.0" encoding="ISO-8859-1" standalone="no"?>
<config>
  <agent>
    <share/>
    <subscribe>
      <task instances="4">
        <task_name>OnDemandAgent_subscribe</task_name>
        <message_connection password="encrypted:v10tU71yu8N
/EFIJH85SSpbQ5/gZDZBSjYcHe6gjfJI=" queue="psp.out.replicator.snowflakeexample"
use_basic_consume="false" user="exampleuser">https://exampleperspectium.net<
/message_connection>
          <instance_connection password="
examplepassword" user="example.user">https://myinstance.service-now.com</instance_connection>
          <handler>com.perspectium.replicator.sql.SQLSubscriber</handler>
          <decryption_key>The cow jumped over the moon</decryption_key>
          <database_type>snowflake</database_type>
          <database_server>example.snowflakecomputing.com<
/database_server>
          <database_user>exampleuser</database_user>
          <database_password>examplepassword</database_password>
          <database_parms>warehouse=example_warehouse&
schema=example_schema&role=example_role</database_parms>
          <database>psp_repl</database>
          <use_cache/>
          <ensure_table_exists/>
        </task>
      </subscribe>
      <max_reads_per_connect>4000</max_reads_per_connect>
      <polling_interval>5</polling_interval>
      <skip_message_set_processing/>
    </agent>
  </config>
```

## 5

## Save your agent.xml file

Save the changes you made to your **agent.xml** file and close the file.

## 6

## Run your DataSync Agent

After configuring your **agent.xml** file to support replication to your Snowflake database, [start running your DataSync Agent](#) again.

## Similar topics

---

- [DataSync for ServiceNow manual setup](#)
- [DataSync for ServiceNow Agent](#)
- [Get started with the DataSync for ServiceNow Agent](#)
- [Install the DataSync for ServiceNow Agent](#)
- [Start/stop the DataSync for ServiceNow Agent](#)

## Contact Perspective Support

---



**US: 1 888 620 8880**

**UK: 44 208 068 5953**

**[support@perspectium.com](mailto:support@perspectium.com)**