

Set up DataSync Agent to share to MS SQL Server or MS Azure SQL Server

Gold

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

NOTE: A DataSync Agent configured to share to a MS SQL Server database or a Microsoft Azure SQL Server database will create large fields (fields defined with a size of 251+ characters) with a searchable **nvarchar(max)** data type.

Prerequisites

- ⚠ First, you will need to install a [DataSync Agent](#) Agent.
- ⚠ You will also need to [create a ServiceNow dynamic share/bulk share](#) or [create a Salesforce dynamic share/bulk share](#).
- ⚠ Make sure to [stop running your DataSync Agent](#) before making any Agent configuration changes.
- ⚠ Finally, you will need to create a database in the server you choose, MS SQL Server or MS Azure SQL Server, that will store data replicated via the DataSync Agent.

Procedure

To set up your DataSync Agent to share application data to a MS SQL Server database or MS Azure SQL Server database, follow these steps:

1

Install and configure your DataSync Agent

Follow the steps to install the [DataSync Agent for ServiceNow](#) 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 the server you choose: MS SQL Server or MS Azure SQL Server

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
<database_type>	sqlserver
<database_server>	URL for your MS SQL Server database. If MS SQL Server is installed locally, enter localhost
<database_port>	1433 The agent also supports using an instance name when the SQL server is using dynamic ports. For example you can enter the value \\MSSQLSERVER here
<database_user>	Username used to access your MS SQL Server database or MS Azure SQL Server database
<database_password>	Password used to access your MS SQL Server database or MS Azure SQL Server database

<database_parms>	loginTimeout=30 NOTE: This is optional, but entering this parameter will force the DataSync Agent to wait for 30 seconds after a connection error before attempting to reconnect to MS SQL Server or MS Azure SQL Server
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Add the <skip_database_creation/> directive

Locate the <task> directive(s) in your <subscribe> directive, nest the following directive:

Directive	Description
<skip_database_creation/>	Bypasses the dynamic creation of the replicated database NOTE: This directive is added for a MS SQL Server replication scenario with the DataSync Agent, as you must create the database used for replication in MS SQL Server before configuring your DataSync Agent

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>servicenow_to_mssqlserver</task_name>
        <message_connection password="encrypted:v1OtU71yu8N/EFIJH85SSBtaIt7qEEfvqigft9VZyYE=" queue="psp.out.replicator.test" use_basic_consume="false" user="exampleuser">https://example.perspectium.net</message_connection>
        <instance_connection password="encrypted:v1OtU71yu8N/EFIJH85SSPN9aF0P5/YViVwPEVFcGW4=" user="test.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>sqlserver</database_type>
        <database_server>localhost</database_server>
        <database_port>1433</database_port>
        <database_user>perspectium</database_user>
        <database_password>perspectium123</database_password>
        <database_parms/>
        <database_column_max_size>251</database_column_max_size>
        <database>psp_repl</database>
        <skip_database_creation/>
      </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 MS SQL Server database, [start running your DataSync Agent](#) again.

Similar topics

- [Set up DataSync Agent to share to HP Vertica](#)
- [Database indexes](#)
- [Set up DataSync Agent to share to MySQL](#)
- [DataSync for ServiceNow \(Replicator\)](#)
- [Get started with the DataSync Agent](#)

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