Set up DataSync Agent to share to SAP Hana

Gold

You can configure your Perspectium DataSync Agent to share data from ServiceNow or Salesforce to an SAP Hana database by changing some additional configurations in your **agent.xml** file.

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.

Procedure

To set up your DataSync Agent to share application data to an SAP Hana database, follow these steps:

1

Add the SAP Hana JDBC driver

Add the **ngdbc.jar** JDBC driver that was created upon installation of SAP Hana to your DataSync Agent's **extlib** directory.

2

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.

3

Access your agent.xml configuration file

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

4

Update database directives to point to SAP Hana

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>	**hana**
<database_server>	URL/IP address for your SAP Hana database
<database_port>	Port number for your SAP Hana database
<database_user>	Username used to access your SAP Hana database
<database_password>	Password used to access your SAP Hana database
<database_parms>	characterencoding=UTF-8

<enable_upsert/>	Enable upserts so the Agent performs an upsert (update or insert) on a record in the database when processing a message. By default, when the Agent receives a **.bulk** message, it will query for a record to see if it exists and then update it if it does (and insert if it doesn't) but using the upsert action, we let SAP Hana handle it for us. This option can help with better performance on large tables that have hundreds of millions or billions of records.

5

Add the <uppercase_columns/> directive

Within the **<subscribe>** **<task>** directive(s), nest the **<uppercase_columns/>** directive to enforce proper column formatting in SAP Hana.

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>
             </share>
             <subscribe>
             <task instances="4">
            <task_name>test_hana2_subscribe</task_name>
            <message_connection password="encrypted:vlOtU71yu8N
/EFIJH85SSBtaIt7qEEfvqiqft9VZyYE=" use_basic_consume="false" user="admin" queue="psp.out.
testhana2">https://lab.perspectium.net</message_connection>
            <instance_connection password="encrypted:vlOtU71yu8N/EFIJH85SSPN9aF0P5
/YViVwPEVFcGW4=" user="admin">https://dev17175.service-now.com</instance_connection>
            <handler>com.perspectium.replicator.sql.SQLSubscriber</handler>
            <decryption_key>The cow jumped over the moon</decryption_key>
            <database_type>hana</database_type>
            <database_server>192.168.0.61</database_server>
            <database_port>39013</database_port>
            <database_user>SYSTEM</database_user>
            <database_password>Perspectium123</database_password>
            <database_parms>characterEncoding=UTF-8</database_parms>
            <database>SystemDB</database>
                  <uppercase_columns/>
         </task>
      </subscribe>
      <max_reads_per_connect>4000</max_reads_per_connect>
      <polling_interval>5</polling_interval>
      <skip_message_set_processing/>
   </agent>
</config>
```

6

Save your agent.xml file

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

7

Run your DataSync Agent

After configuring your **agent.xml** file to support replication to your SAP Hana database, start running your DataSync Agent again.

Similar topics

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- Database indexes
- Set up DataSync Agent to share to MySQL
- DataSync for ServiceNow (Replicator)

Contact Perspectium Support

US: 1 888 620 8880

UK: 44 208 068 5953

- Get started with the DataSync Agent

support@perspectium.com