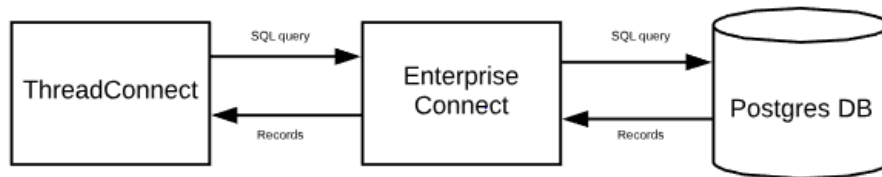


QUERY POSTGRES DB USING EC CLIENT



To perform select operation on Postgres database using Enterprise-Connect Controller service running on Client mode.

Created by K Sanghavi



KEY ATTRIBUTES

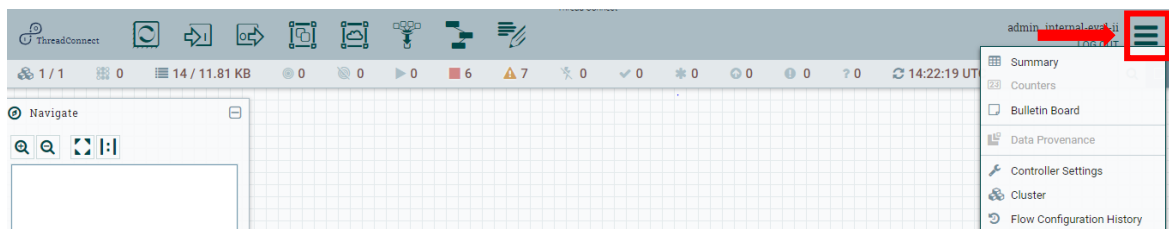
- `ExecuteSQL`: executes the 'search' SQL command on the specified (postgres) database. ExecuteSQL fetches records from 'code' column of 'ectest' table.
- `ConvertAvroToJSON`: converts incoming AVRO data into its corresponding JSON format

CONTROLLER SERVICES USED

- `EnterpriseConnectAgent`: EC agent is configured to run on client mode establishing a secure connection to an existing EC server running on the data source end (Postgres DB) to facilitate data transfer or data access.
- `DBCConnectionPool`: connects to the specified postgres database via EC client.


STEPS FOR EC AGENT CONFIGURATION

1. To view the Configuration tab for Enterprise Connect Agent, click the Global menu on the top right corner of the canvas UI (highlighted in the below image).





- Click Controller Settings in the drop down which brings up separate dialog window. Switch to Enterprise Connect Tab of the Controller Settings window.




- To setup EC agent click on  button, to open the configuration window. The EC agent supports two modes Client and Server mode. Based on the usecase EC agent it can be setup as Client or Server. Based on the mode, additional fields must be provided on clicking NEXT button.

The screenshot shows the 'New EC Agent - General Details' configuration window. It has a title bar with a close button. The form contains several input fields: 'Name' (a text box), 'Mode' (a dropdown menu currently set to 'Client'), 'Agent ID' (a text box), 'Service URI' (a text box), 'Gateway URI' (a text box), 'UAA URI' (a text box), and 'UAA Client' (a text box). At the bottom right, there are two buttons: 'CANCEL' and 'NEXT'.

- After filling the required fields are set, click on ADD button. Once the EC agent has been added it can enabled by clicking  button and disabled using  button. The Enterprise Connect tab lists all the agents that has been created.

The screenshot shows the 'NiFi Settings' dialog window, with the 'ENTERPRISE CONNECT' tab selected. Below the tabs, there's a table listing the configured EC agents. The table has columns for Name, Mode, Resource Host, Resource Port, Listening Port, and State. There are two entries in the table: 'ec-client-7991' and 'prasad-ec-test'.

Name	Mode	Resource Host	Resource Port	Listening Port	State
ec-client-7991	Client			7991	Enabled
prasad-ec-test	Client	localhost	8000	7990	Disabled

- To edit an existing agent entry, click on  settings button which opens a dialog window. Click on the properties tab to view and edit the properties. Click APPLY button to save the changes.

NOTES

- The template requires:
 1. Postgres DB with following requirements:
 - DB Name: postgres
 - Table Name: ectest
 - Database Driver Location: Postgresql JDBC Driver jar location (download from <https://jdbc.postgresql.org/download.html>)
 2. EC server setup on the Postgres DB end.
- Carefully check that EC agent and database configuration details are updated across the **entire** flow when configuring a new database connection.