IlabServiceBroker Database

[IlabServiceBrokerDatabase.htm - uqlpayne 22 Aug 2013]

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Requirements

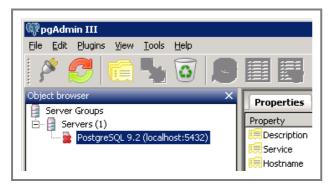
- PostgreSQL 9.2 is installed and running.
- The UQ-iLab-ServiceBroker-Java GitHub repository has been downloaded as a ZIP file from:

https://github.com/uqlpayne/UQ-iLab-ServiceBroker-Java

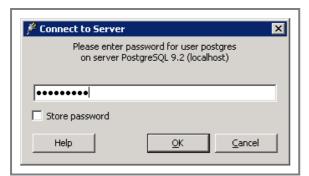
PostgreSQL pgAdmin III

• Run the PostgreSQL pgAdmin III program.

In the *Object browser* panel, right-click *PostgeSQL 9.2 (localhost:5432)* and select *Connect* from the popup menu to display the *Connect to Server* window.

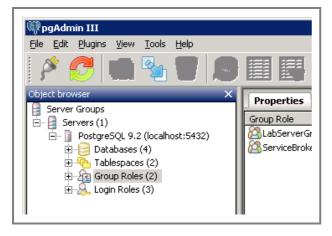


Enter the password for the user *postgres* and click the *OK* button.



Create Group Role

• In the Object browser panel, right-click Group Roles and select New Group Role... from the popup menu to display the New Group Role... window.



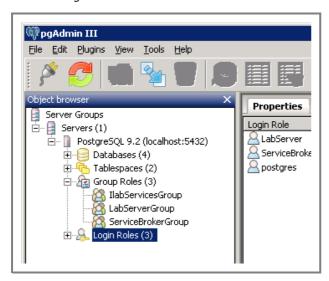
For Role name, enter IlabServicesGroup.



Click the OK button to close the New Group Role... window.

Create Login Role

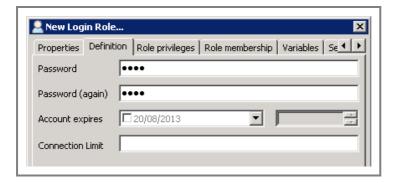
• In the *Object browser* panel, right-click *Login Roles* and select *New Login Role...* from the popup menu to display the *New Login Role...* window.



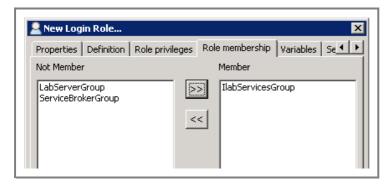
Select the *Properties* tab. For *Role name*, enter IlabServices.



Select the Definition tab. For Password and Password (again), enter ilab.



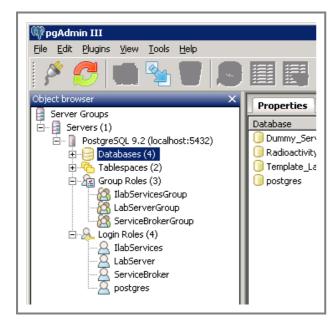
Select the *Role membership* tab. In the left panel under *Not Member*, select *IlabServicesGroup* and click the >> button.



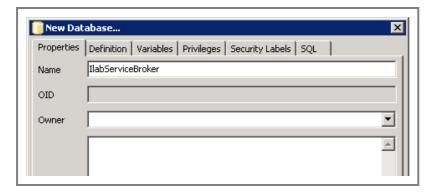
Click the OK button to save the changes and close the New Login Role... window.

Create Database

• In the Object browser panel, right-click Databases and select New Database... from the popup menu to display the New Database... window.

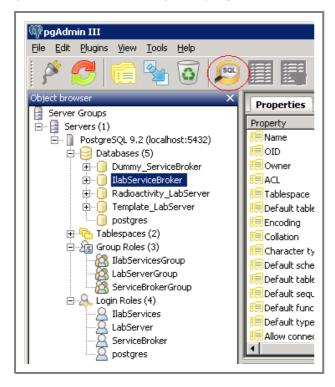


Select the *Properties* tab. For *Name*, enter <code>IlabServiceBroker</code>.

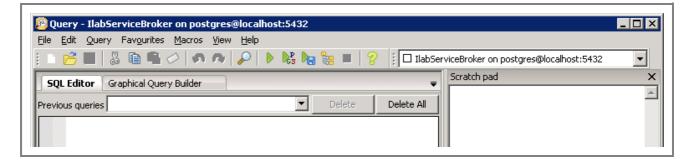


Click the OK button to save the changes and close the New Database... window.

• In the Object browser panel, under Databases, click IlabServiceBroker and then click the Execute arbitrary SQL queries toolbar button to open a Query window.



Check that the *IlabServiceBroker* database is selected in the dropdown list. If not, tables and functions will be created or overwritten in the selected database.



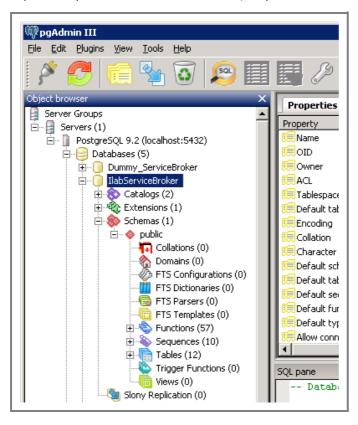
For each of the following SQL scripts in the *UQ-iLab-ServiceBroker-Java/Database/PostgreSQL* folder, in the order shown, execute the query by selecting *Query->Execute* from the menu.

- 1. IlabServiceBroker_Tables.sql
- 2. ProcessAgent_Tables.sql
- 3. IlabServiceBroker_Procedures.sql
- 4. ProcessAgent_Procedures.sql
- 5. IlabServiceBroker_Defaults.sql

All queries should complete successfully producing various results in the Output pane. Close the Query window.

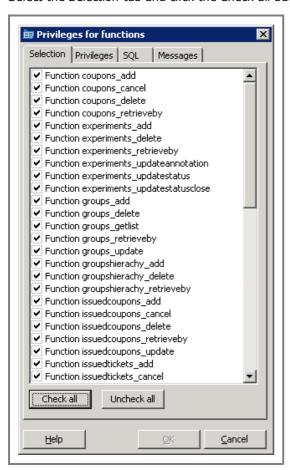
Update Privileges

• In the *Object browser* panel, expand the *IlabServiceBroker* node and then expand the *Schemas* node. Finally, expand the *public* node so that *Functions*, *Sequences* and *Tables* are visible.



Right-click Functions and select Grant Wizard... from the popup menu to display the Privileges for functions window.

Select the Selection tab and click the Check all button.

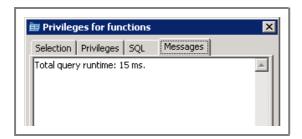


Select the *Privileges* tab. In the *Privileges* field, select *group IlabServicesGroup* from the dropdown list and check *EXECUTE*.

Click the Add/Change button.



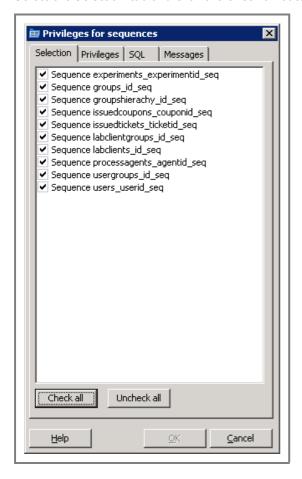
Click the OK button to save the changes.



Click the *Done* button to close the *Privileges for functions* window.

• In the *Object browser* panel, right-click *Sequences* and select *Grant Wizard...* from the popup menu to display the *Privileges for sequences* window.

Select the Selection tab and click the Check all button.

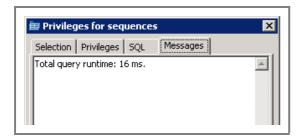


Select the *Privileges* tab. In the *Privileges* field, select *group IlabServicesGroup* from the dropdown list and check *ALL*.

Click the Add/Change button.



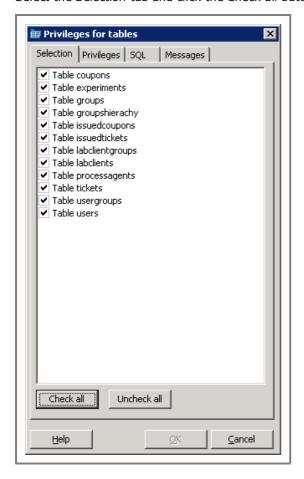
Click the *OK* button to save the changes.



Click the Done button to close the Privileges for sequences window.

• In the *Object browser* panel, right-click *Tables* and select *Grant Wizard...* from the popup menu to display the *Privileges for tables* window.

Select the Selection tab and click the Check all button.



Select the *Privileges* tab. In the *Privileges* field, select *group IlabServicesGroup* from the dropdown list and check *ALL*.

Click the Add/Change button.



Click the OK button to save the changes.



Click the *Done* button to close the *Privileges for tables* window.

What's Next

The ExperimentStorage Database tutorial (see ExperimentStorageDatabase.pdf).