

ExperimentStorage Database

[ExperimentStorageDatabase.htm - uqlpayne 22 Aug 2013]

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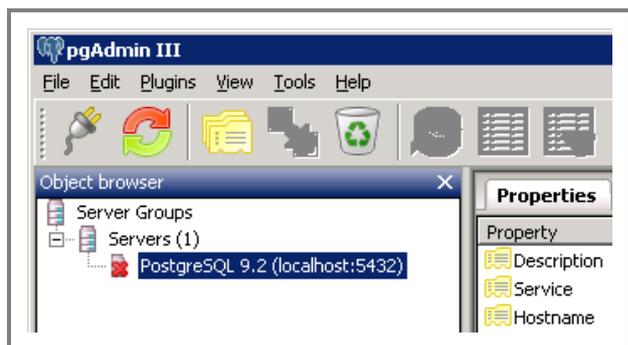
Requirements

- 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>
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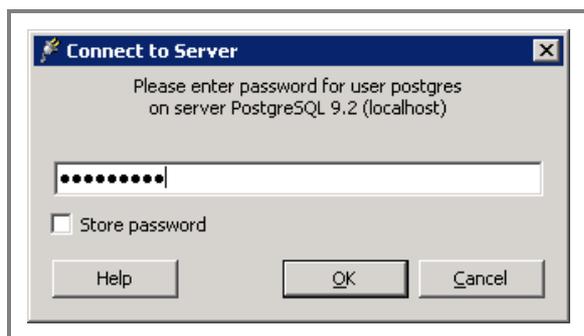
PostgreSQL pgAdmin III

- Run the PostgreSQL *pgAdmin III* program.

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



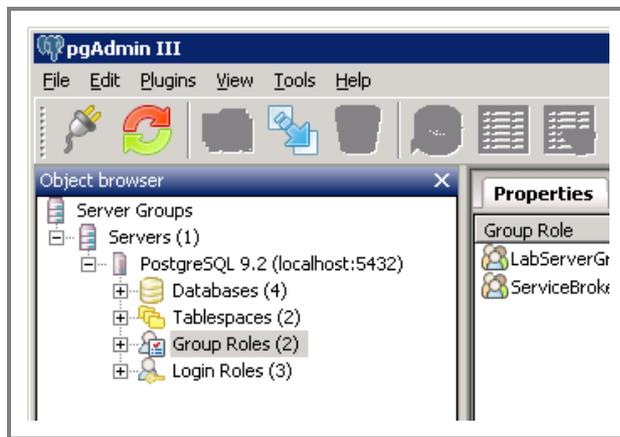
Enter the password for the user *postgres* and click the *OK* button.



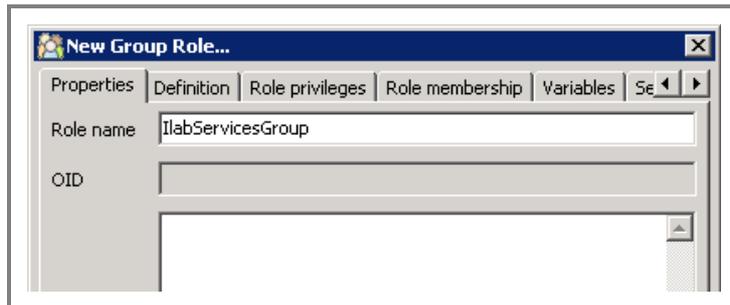
Create Group Role

If you have already completed the *IlabServiceBroker Database* tutorial then you will have already created an *IlabServices* Group Role for the database and can skip this section.

- 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`.

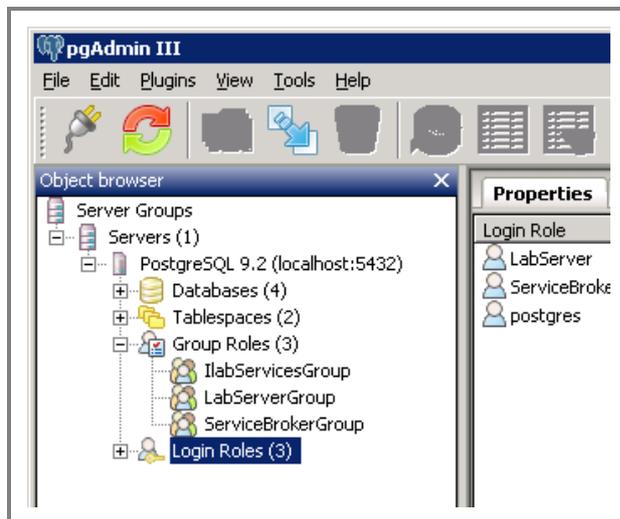


Click the *OK* button to close the *New Group Role...* window.

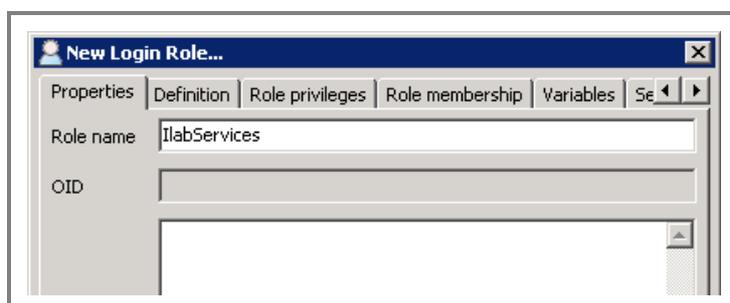
Create Login Role

If you have already completed the *IlabServiceBroker Database* tutorial then you will have already created an *IlabServices* Login Role for the database and can skip this section.

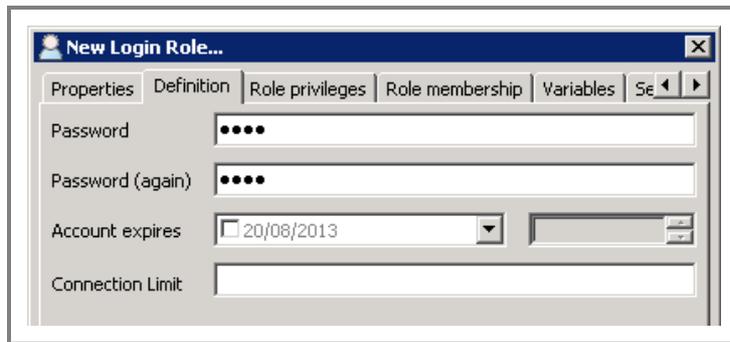
- In the *Object browser* panel, right-click *Login Roles* and select *New Login Role...* from the popup menu to display the *New Login Role...* window.



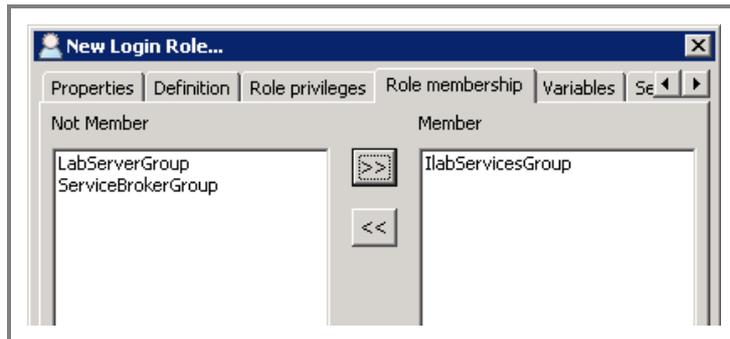
Select the *Properties* tab. For *Role name*, enter `IlabServices`.



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



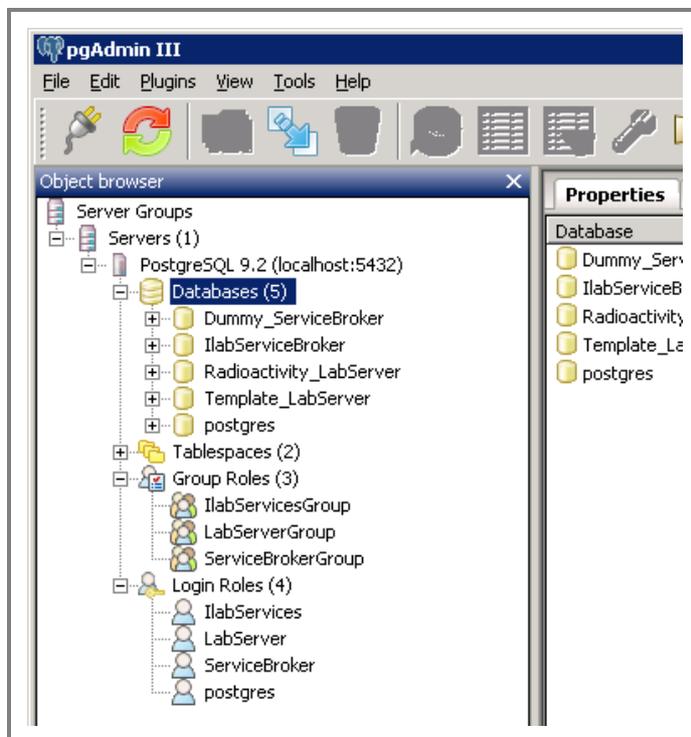
Select the *Role membership* tab. In the left panel under *Not Member*, select *IlabServicesGroup* and click the *>>* button.



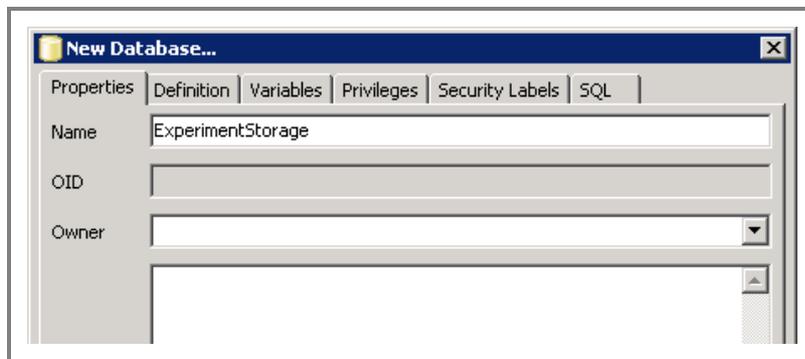
Click the *OK* button to save the changes and close the *New Login Role...* window.

Create Database

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

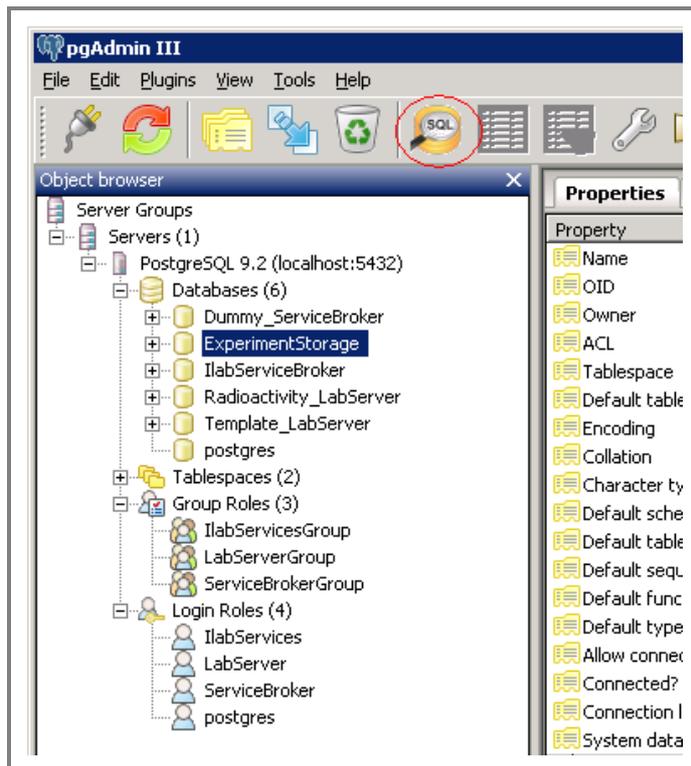


Select the *Properties* tab. For *Name*, enter `ExperimentStorage`.

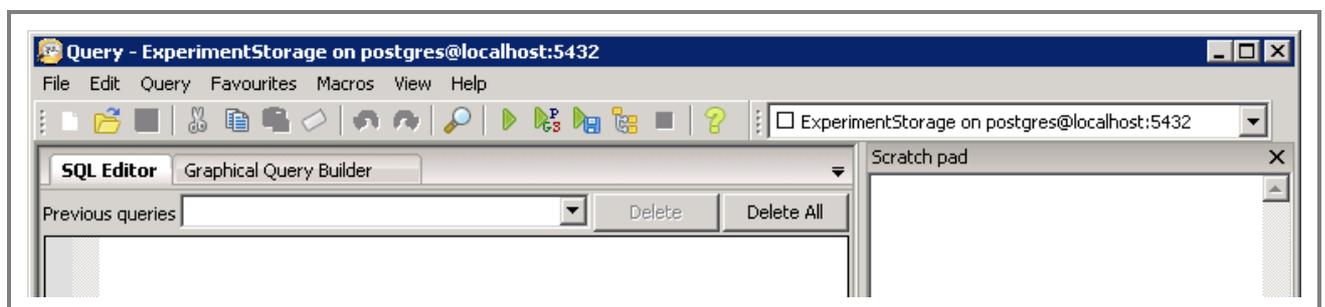


Click the **OK** button to save the changes and close the *New Database...* window.

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



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



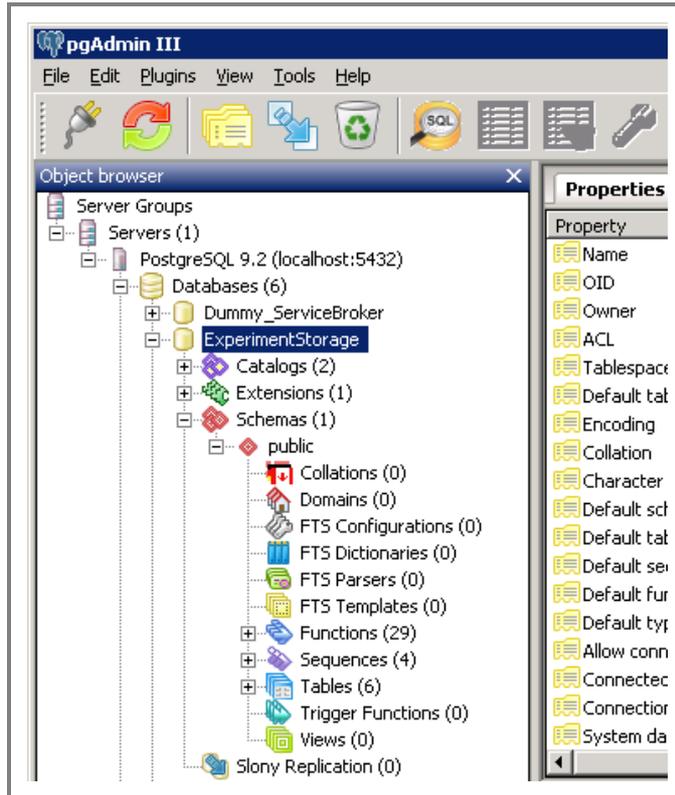
For each of the following SQL scripts in the *UQ-iLab-ServiceBroker-Java/Database/PostgreSQL* folder, in the order shown, execute the query by selecting *Query->Execute* from the menu.

- ExperimentStorage_Tables.sql*
- ProcessAgent_Tables.sql*
- ExperimentStorage_Procedures.sql*
- ProcessAgent_Procedures.sql*
- ExperimentStorage_Defaults.sql*

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

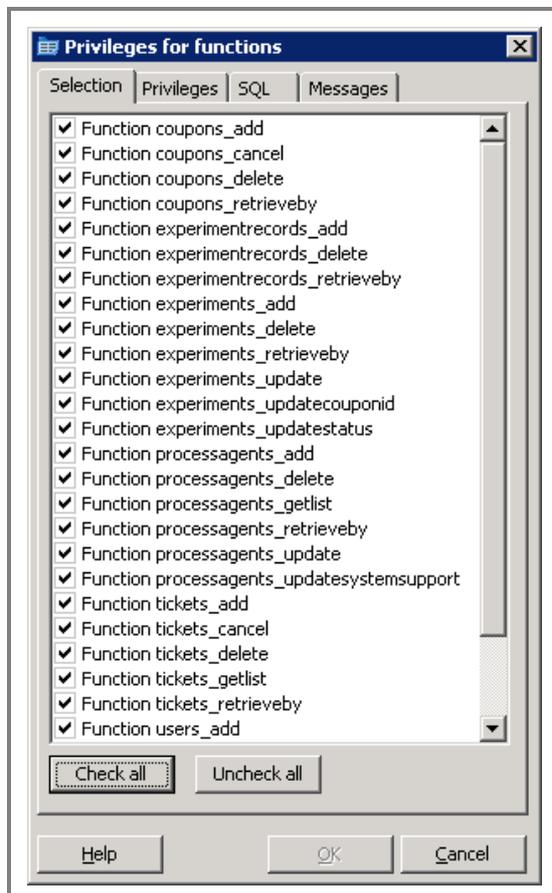
Update Privileges

- In the *Object browser* panel, expand the *ExperimentStorage* 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.

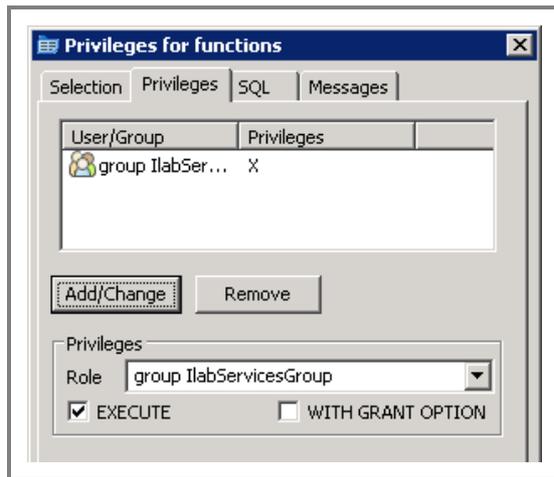
Select the *Selection* tab and click the *Check all* button.



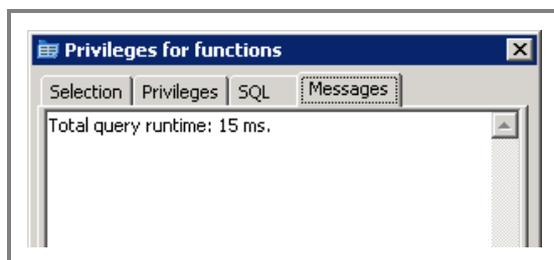
Select the *Privileges* tab. In the *Privileges* field, select *group IlabServicesGroup* from the dropdown list and check

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.

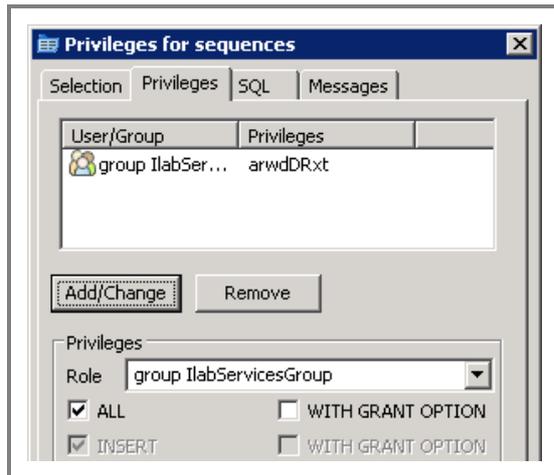
- In the *Object browser* panel, right-click *Sequences* and select *Grant Wizard...* from the popup menu to display the *Privileges for sequences* window.

Select the *Selection* tab and click the *Check all* button.

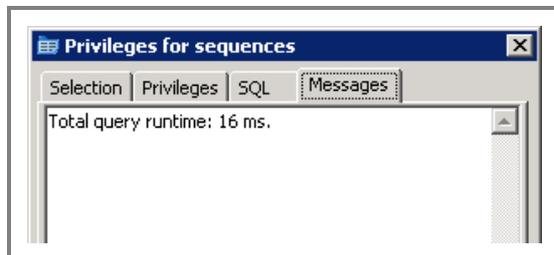


Select the *Privileges* tab. In the *Privileges* field, select *group IlabServicesGroup* from the dropdown list and check *ALL*.

Click the *Add/Change* button.



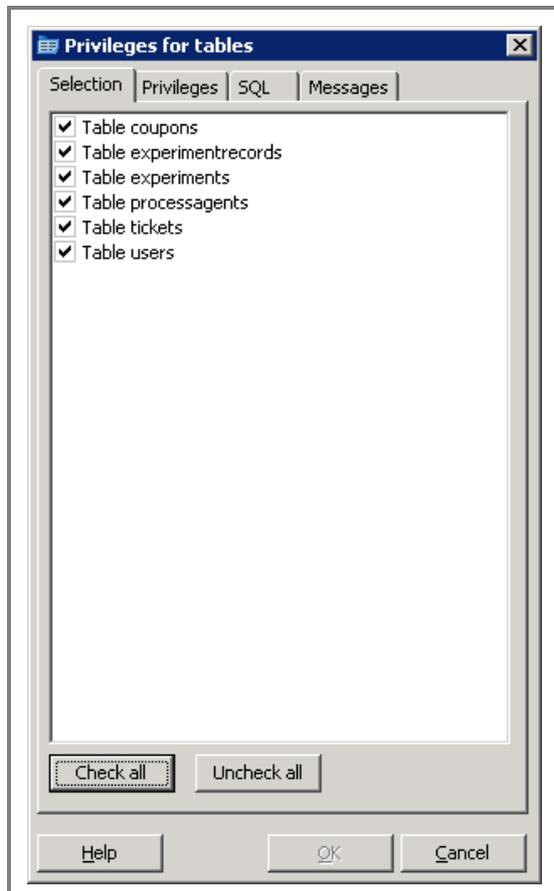
Click the *OK* button to save the changes.



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

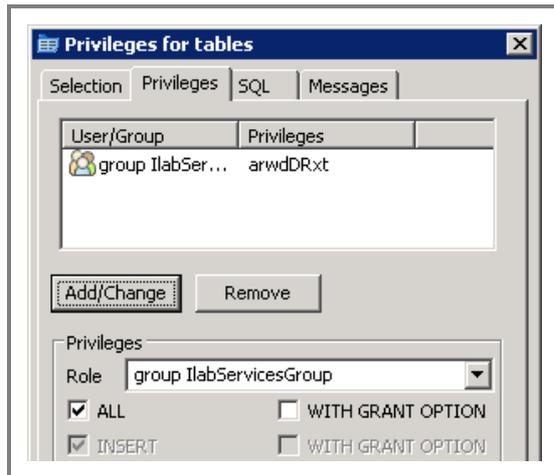
- In the *Object browser* panel, right-click *Tables* and select *Grant Wizard...* from the popup menu to display the *Privileges for tables* window.

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 *IlabServiceBroker Deployment* tutorial (see [IlabServiceBrokerDeployment.pdf](#)).
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