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GUIDELINE

CONFIG POSTGRESQL DATASOURCE IN WILDFLY

Author: VAMOS Team **Date:** January 15, 2024

I. Create local database:

1. Pull and put PostgreSQL in a container: docker run --name postgres_container -e POSTGRES_USER=__ -e POSTGRES_PASSWORD=__-p 5432:5432 -d postgres:14

- 2. Open "Dbeaver":
 - a. Create a connection to PostgreSQL

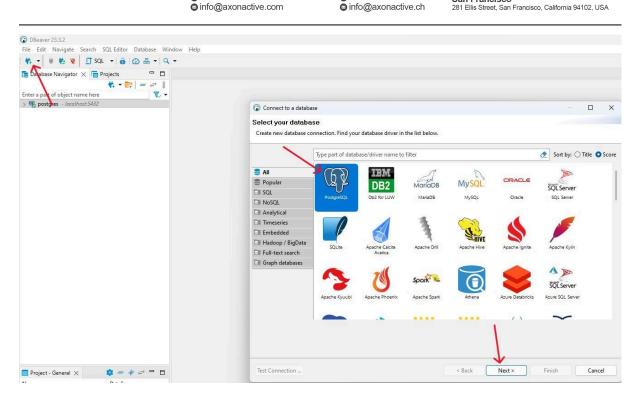


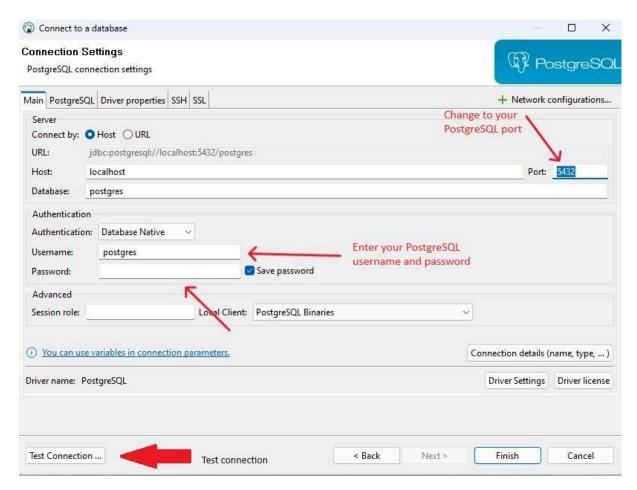
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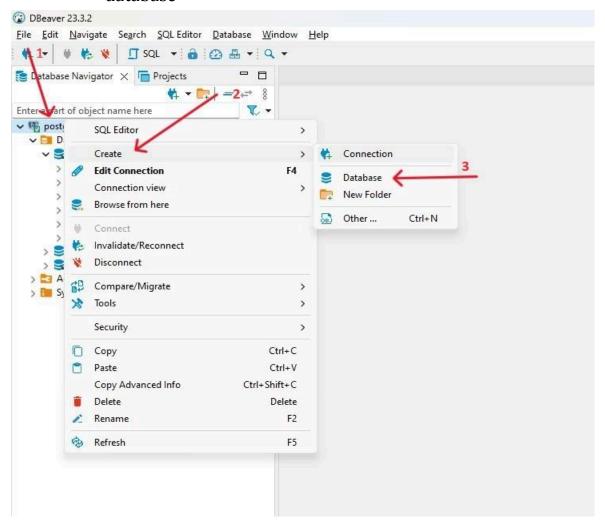
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b. Create database name "agile-course" and get the URL for the database





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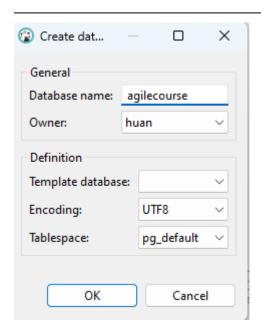
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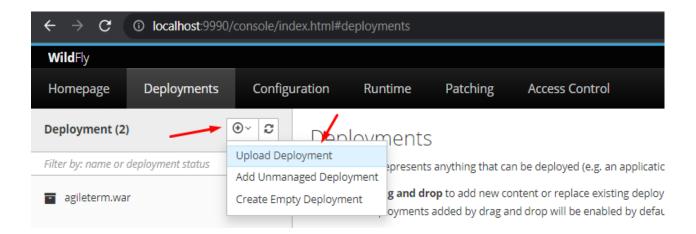
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II. Connect WildFly with PostgreSQL:

- 1. Download the latest JDBC PostgreSQL Driver that suits Java 8 and above (https://jdbc.postgresql.org/download/postgresql-42.7.1.jar)
- 2. Run Wildfly with the "**standalone.bat**" file in the bin folder or in your IntelliJ
- 3. Go to "http://localhost:9990/" and login with your account
- 4. Go to **Deployments** → **Upload Deployment**





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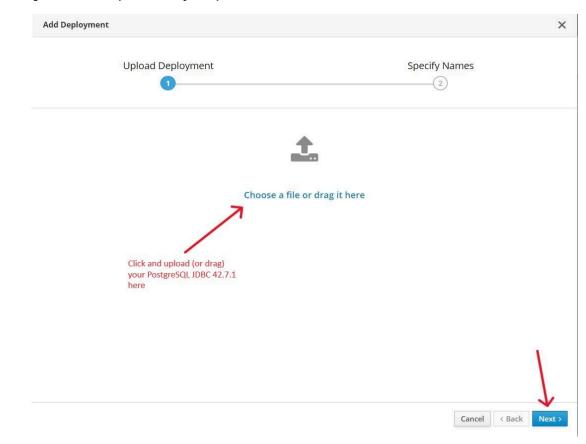
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5. Upload the "jar" file you just downloaded





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Add Deployment × Upload Deployment Specify Names ② Help Name postgresql-42.7.1.jar Runtime Name postgresql-42.7.1.jar Enabled Required fields are marked with *





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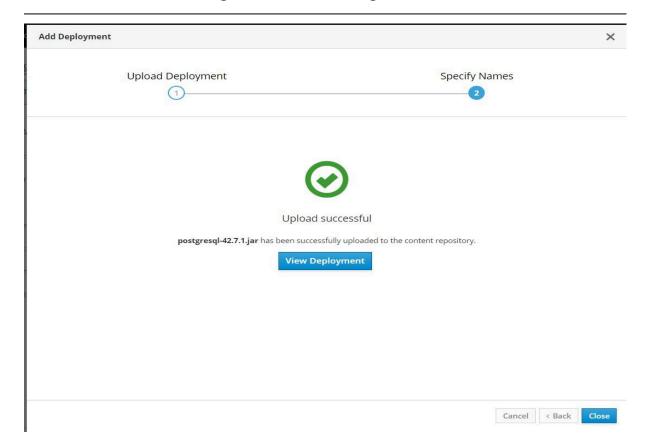
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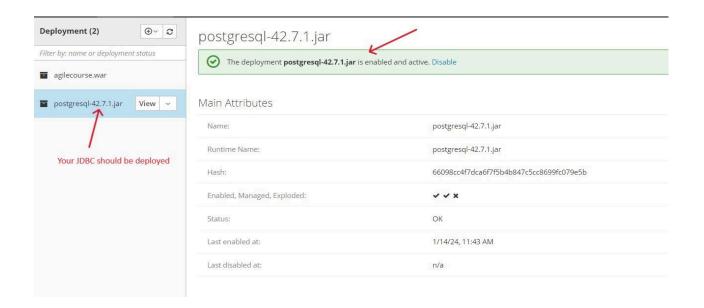
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6. Check if PostgreSQL is deployed:





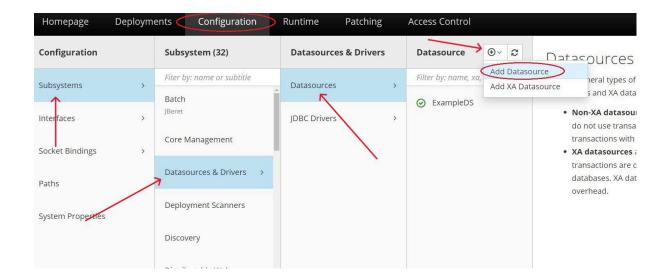
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7. Add a new data source to Wildfly: **Configuration** \rightarrow **Subsystems** \rightarrow Datasources & Drivers → Datasources → "+" → Add Datasource





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Add Datasource					×
Choose Template	Attributes 2	JDBC Driver	Connection 4	Test Connection	Review 6
Choose one of the predef Custom H2 PostgreSQL MySQL MariaDB Oracle Microsoft SQLServer IBM DB2 Sybase	ined templates to quick	kly add a datasource or cho	ose "Custom" to specify :	your own settings.	
				Cancel	⟨ Back Next >



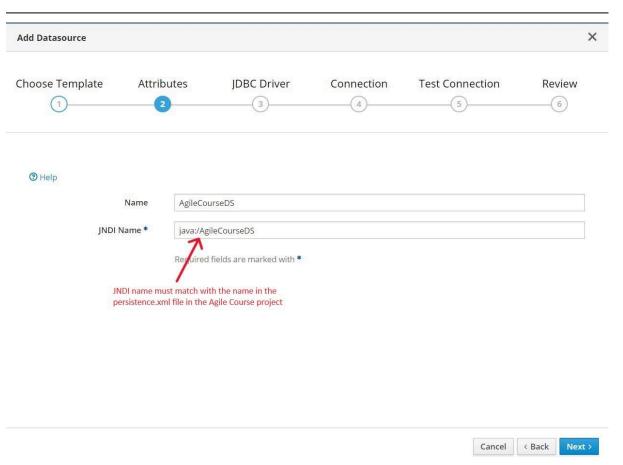
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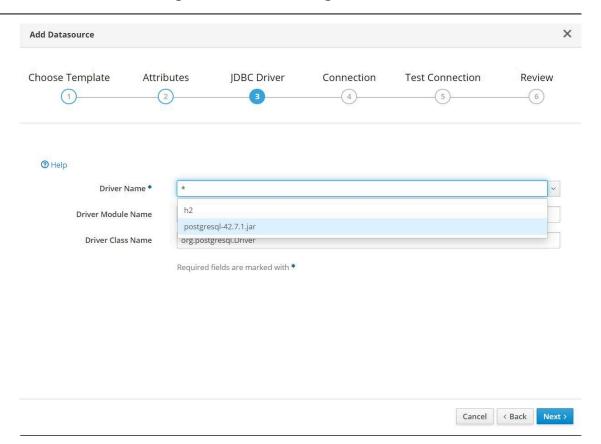


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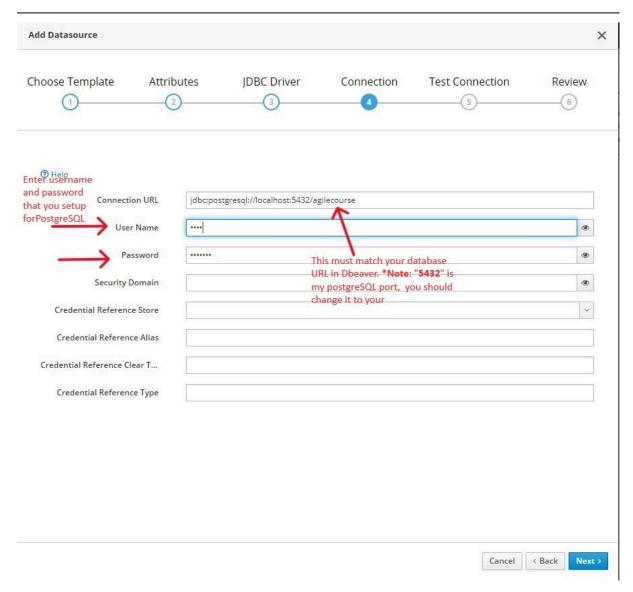
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Add Datasource					×
Choose Template	Attributes	JDBC Driver	Connection 4	Test Connection	Review 6

On this page you can test the connection of your datasource.

Please note that testing the connection changes the semantics of this wizard:

- If you press **Test Connection** for the **first time**, the datasource is **created in advance**.
- If you go back and change settings, this will modify the newly created datasource. Please note that you cannot change the name and JNDI bindings once the datasource has been created.
- If you cancel the wizard, the datasource will be removed again. This might require a reload of the server.

If you choose to continue without testing the connection, the datasource will be created after finishing the wizard.







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× Add Datasource JDBC Driver Choose Template Attributes Connection **Test Connection** Review (6)



Test Connection Successful

Successfully tested connection for datasource ${\bf Agile CourseDS}.$





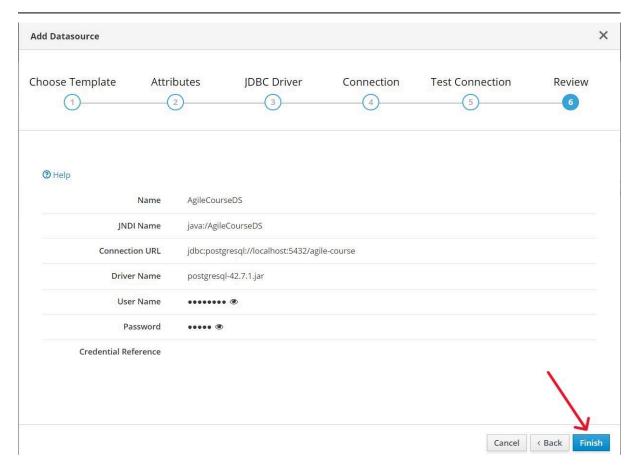
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8. After you have done all the steps, your data source should appear.

