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Connecting to an RDS instance

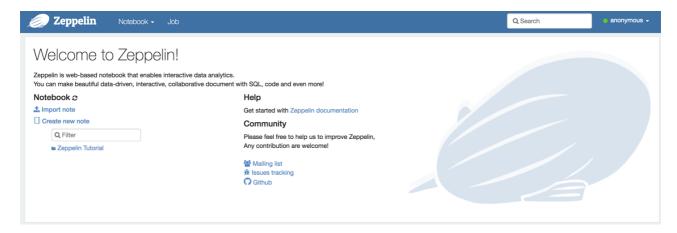
This guide will setup connections to an AWS RDS instance that can be used inside a Docker-run Zeppelin image.

Prerequisites

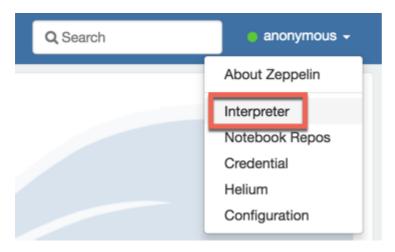
- Install Docker on your operating system. Links and instructions can be found in the README.md
- Create an RDS instance in AWS.
- Update RDS security data to accept all traffic, both Inbound and Outbound.
- Create a table with data inserted. This will allow you to test the connection.

Instructions

- Run the docker image docker run -p 8080:8080 --rm --name zeppelin trilogyed/zepl:1.0.0.
- **Note:** The image will be downloaded the first time it is run, which will take a considerable amount of time. After the image has been downloaded, the container will start up much faster in subsequent runs.
- Navigate to localhost: 8080.



• Click **Profile** on top right right and select **Interpreter**.



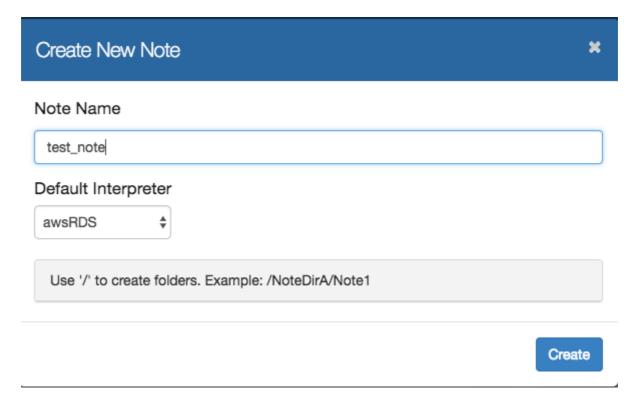
• Click +Create.

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- Enter an interpreter name and select **jdbc** from the "Interpreter group".
- Enter the password for the RDS in default.password.
- Add the AWS endpoint to default.url before the port and the database name after port.
- Enter the username for the RDS instance in default.user.



- Scroll down and click Save.
- Navigate back to the main page and click Create new note.
- Enter a name for the note, and then select the name of the interpreter just created as the default interpreter. Click **Create**.



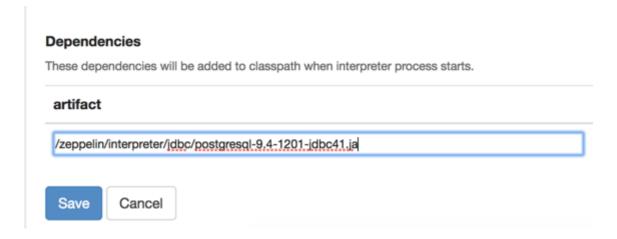
• Run a SELECT * FROM from a cell to confirm the connection works.

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• On the interpreters screen, search for **Spark**.



- Click **Edit** and scroll down to Dependencies.
- Under "artifact" enter the path /zeppelin/interpreter/jdbc/postgresql-9.4-1201-jdbc41.jar then click **Save**.



- Spark will now be able to connect to an RDS instance using a JDBC URL.
- Test that the connection works by running the following code, using a table currently available in your RDS:

```
%pyspark
jdbc_url = "jdbc:postgresql://<rds endpoint>:5432/<DB name>"
config = {"user":"root", "password": "<password>"}
my_df = spark.read.jdbc(url=jdbc_url, table='',
properties=config)
my_df.limit(10).show()
```