

How to setup grafana:

1. Open your web browser and navigate to the server where Grafana is hosted. In this example, Grafana is exposed on port 3003. Login with default credentials
URL: <http://localhost:3003/>

2. Login with Default Credentials:

Note: It's highly recommended to change the default password after your first login for security purposes. Grafana will prompt you to do this.

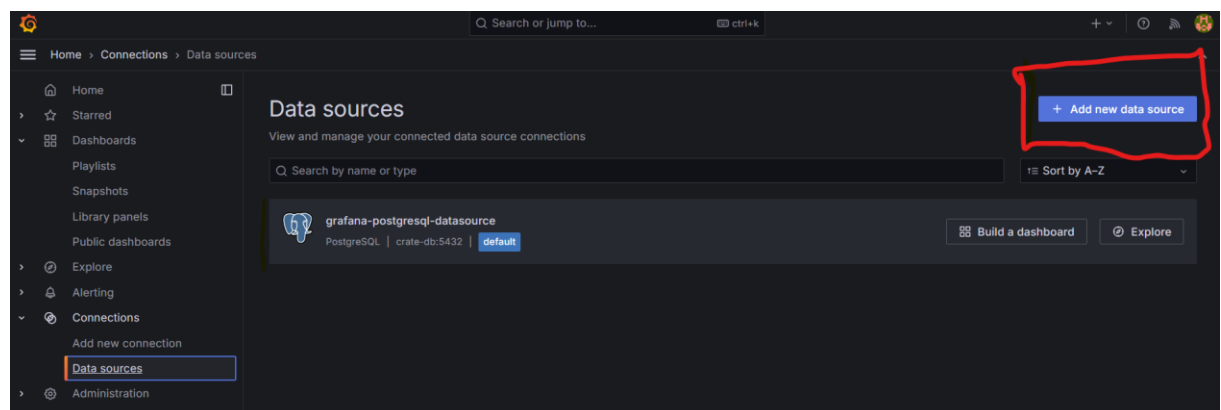
Username: admin

Password: admin

3. Add CrateDB as a Data Source:

- Navigate to the Configuration (gear icon) in the left sidebar.
- Select Data Sources.
- Click on Add data source.

Choose **PostgreSQL** from the list of available data sources. Although CrateDB is not listed explicitly, it is compatible with the PostgreSQL data source in Grafana.



4. Configure the Data Source

The screenshot shows the Grafana Settings page for a data source named 'grafana-postgresql-datasource'. The page is dark-themed. At the top, there's a 'Settings' header with a gear icon. Below it, the 'Name' field is set to 'grafana-postgresql-datasource' and the 'Default' toggle is turned on. A warning message states: 'Before you can use the Postgres data source, you must configure it below or in the config file. For detailed instructions, [view the documentation](#).' Below this, a note says 'Fields marked with * are required'. The 'User Permissions' section is expanded, showing a warning about SQL permissions and a recommendation to create a specific PostgreSQL user. The 'Connection' section contains fields for 'Host URL *' (set to 'crate-db:5432') and 'Database name *' (set to 'doc'). The 'Authentication' section contains fields for 'Username *' (set to 'crate'), 'Password *' (set to 'Password'), and 'TLS/SSL Mode' (set to 'disable').

Settings

Name Default ☒

Before you can use the Postgres data source, you must configure it below or in the config file. For detailed instructions, [view the documentation](#).

Fields marked with * are required

User Permissions

The database user should only be granted SELECT permissions on the specified database & tables you want to query. Grafana does not validate that queries are safe so queries can contain any SQL statement. For example, statements like `DELETE FROM user;` and `DROP TABLE user;` would be executed. To protect against this we Highly recommend you create a specific PostgreSQL user with restricted permissions. Check out the docs for more information.

Connection

Host URL *

Database name *

Authentication

Username *

Password *

TLS/SSL Mode

Name: Give your data source a name (e.g., CrateDB).

Host-URL : Enter the CrateDB host URL, including the port (e.g., `http://crate.yourserver.com:5432`).

Database name: Specify the database name you want to connect to.

Username: Enter your CrateDB username.

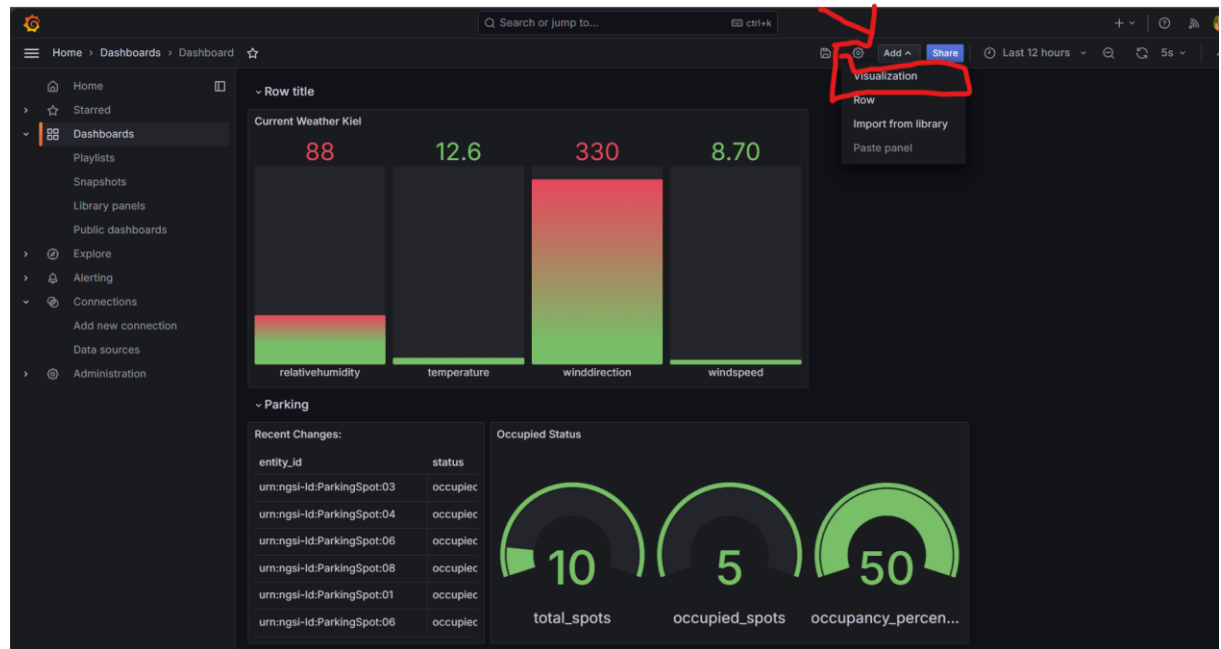
Password: Enter your CrateDB password.

SSL Mode: Depending on your setup, you might need to configure SSL settings. For many setups, you can leave this as disable.

Click on **Save & Test** to verify the connection.

5. Generate a query

- Navigate to the Dashboards (four squares icon) in the left sidebar.
- Click on New Dashboard.
- Add a new panel by clicking on Add new panel.



6. Query and display the data

- In the query editor below the graph panel, select your CrateDB data source.
- Write your SQL query to fetch the desired data from CrateDB. For example:

