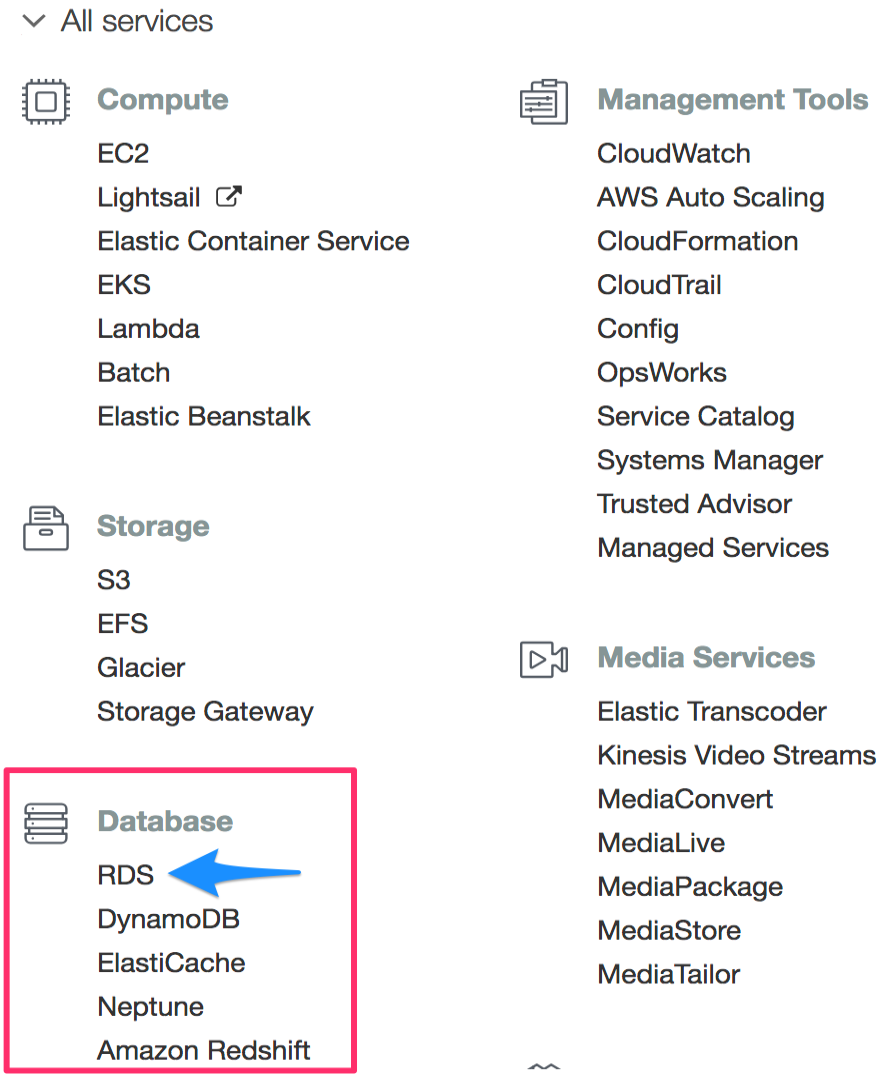
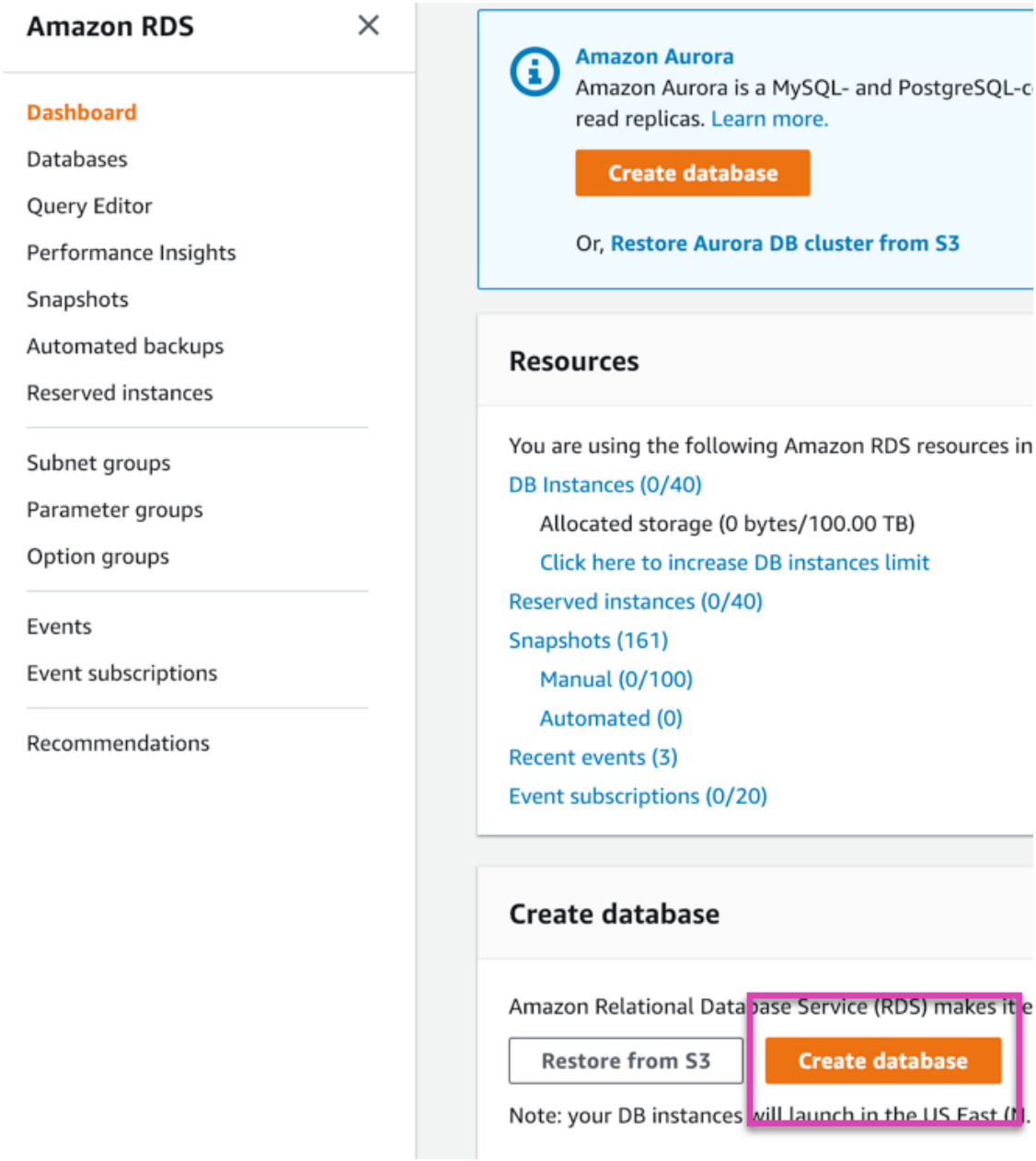
Creating a PostgreSQL Database in AWS RDS

- Log in to the AWS Management Console and navigate to the **RDS** section under **Database**.

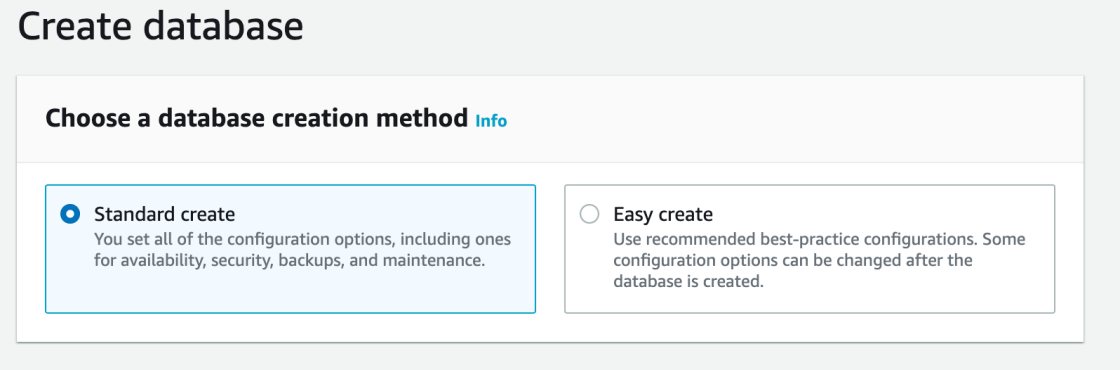


- Scroll down to the "Create database" section and click the **Create database** button.
- **Note:** AWS may have a different screen than the one pictured below. If this is the first time using the service, the orange **Create database** will still be at the bottom.

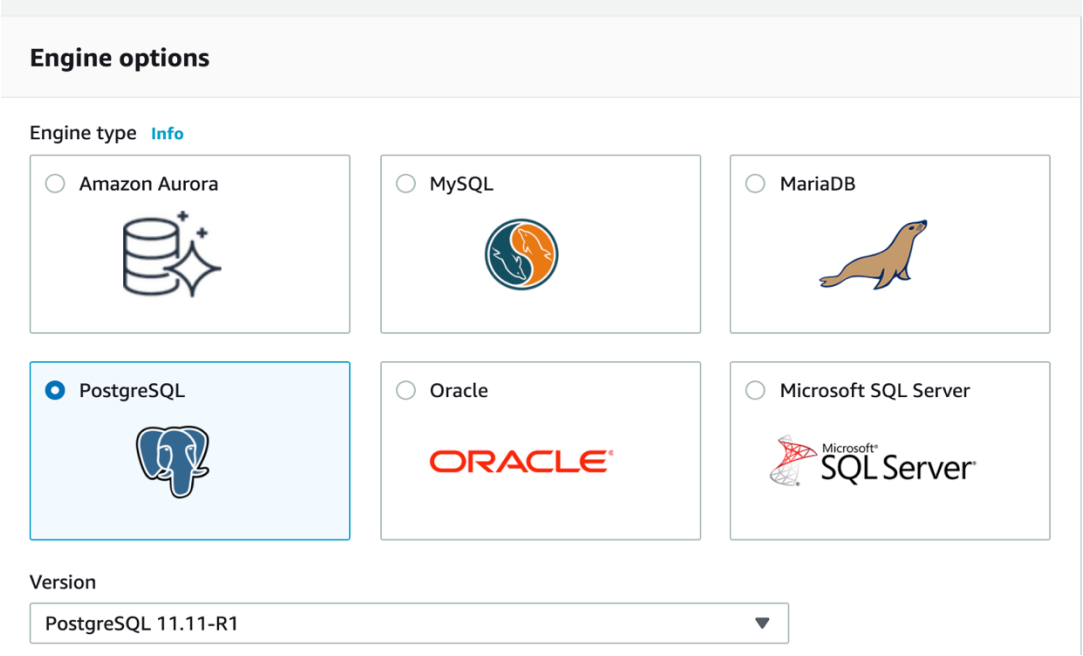
- **Important!** Do not to click the **Create database** button at the top under the "Amazon Aurora" section.



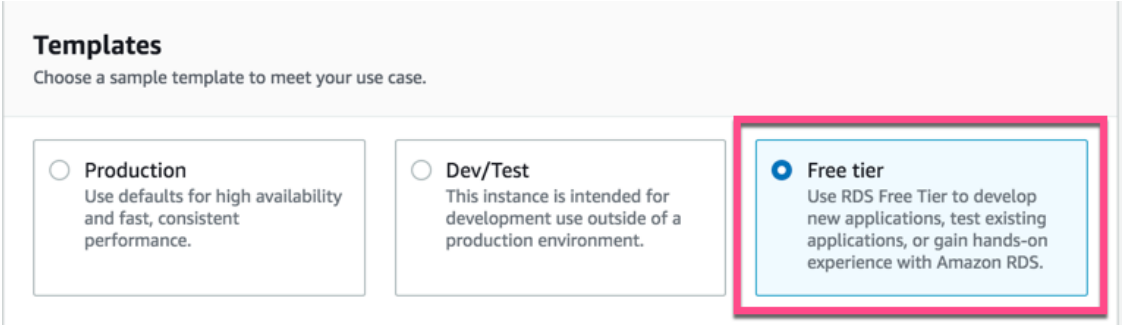
- After clicking the **Create database** button, you will be redirected to the "Create database" page to begin the configuration of your database.
    - **Note:** On the new database creation flow, you will see a "Create database" section with two options. If students see this page, tell them to select the "standard create" option; this is where we'll set all the configuration options.



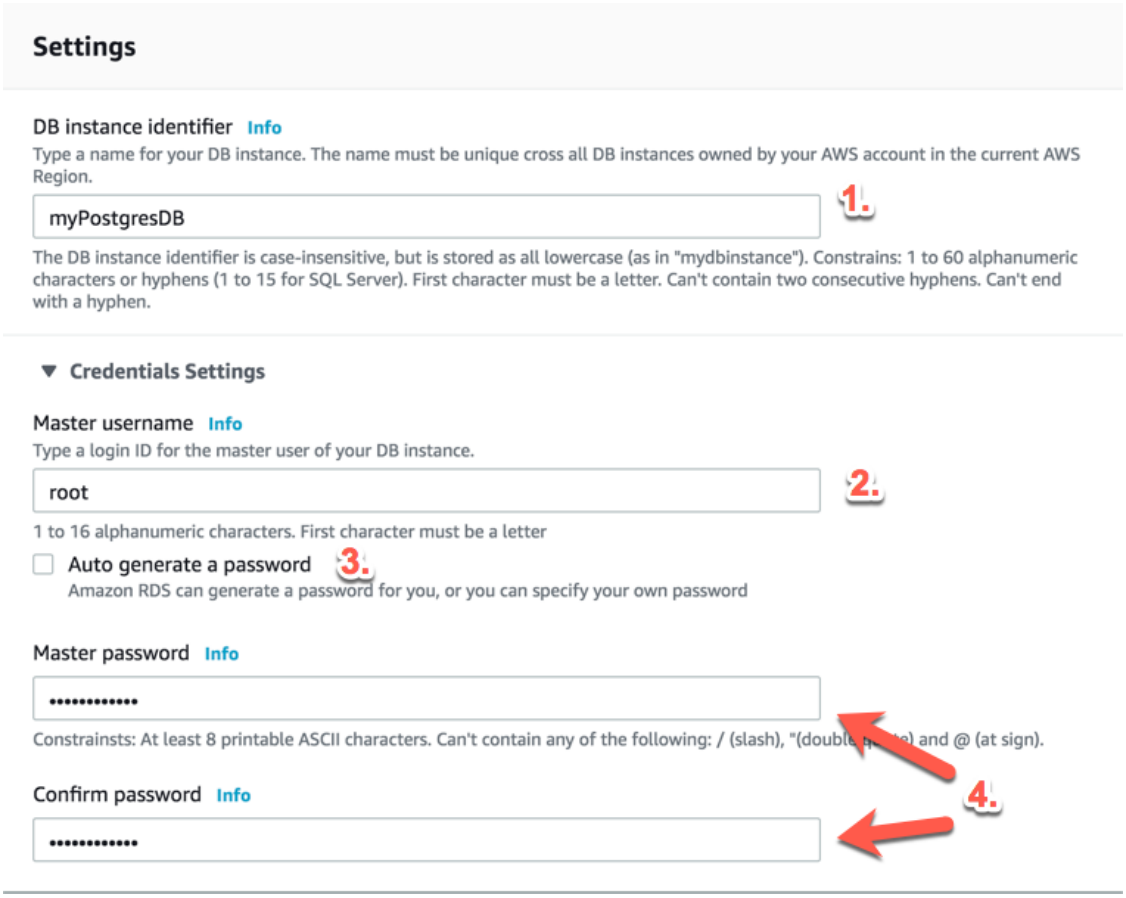
- Next, in the "Engine options" section, select **PostgreSQL** and version `11.11-R1` is sufficient.



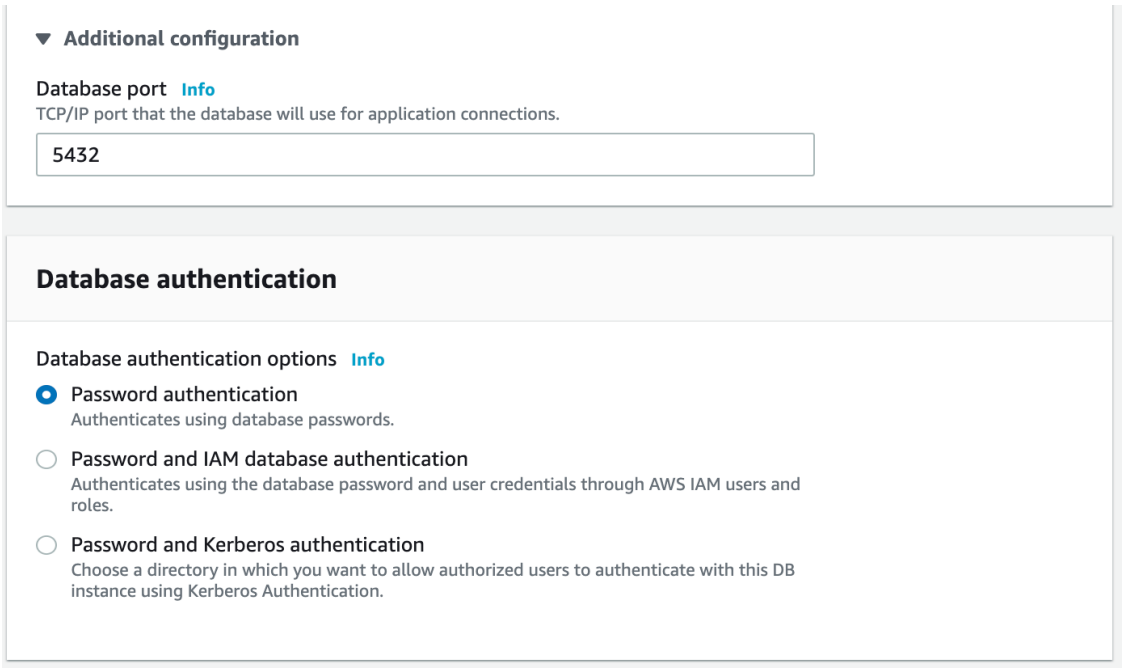
- If available, under **Templates**, select **Free Tier**.



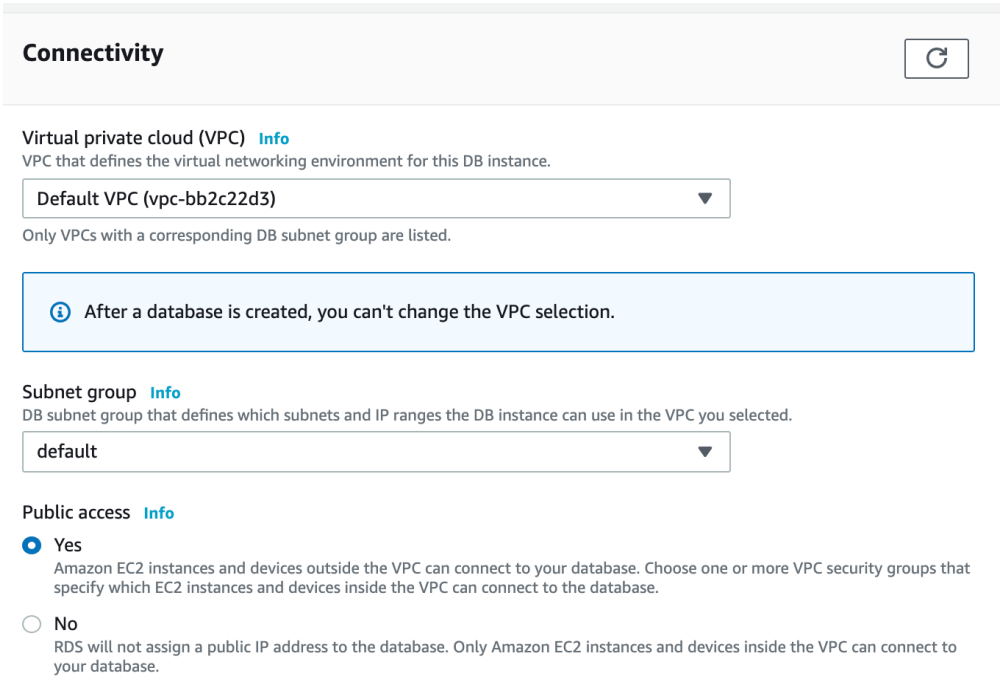
- Fill out the fields under “Settings.”
    - In **step 1**, give your database instance identifier the name `myPostgresDB`, and in **step 2**, use `root` as the master username.
        - **Note**: Although the database instance identifier and master username can take any name you choose, we recommend sticking to these settings in this case for consistency.
    - In **step 3**, uncheck the “Auto generate password” box.
    - In **step 4**, enter a password and be sure to record it somewhere. The other settings will be accessible in the future, but the password will not.



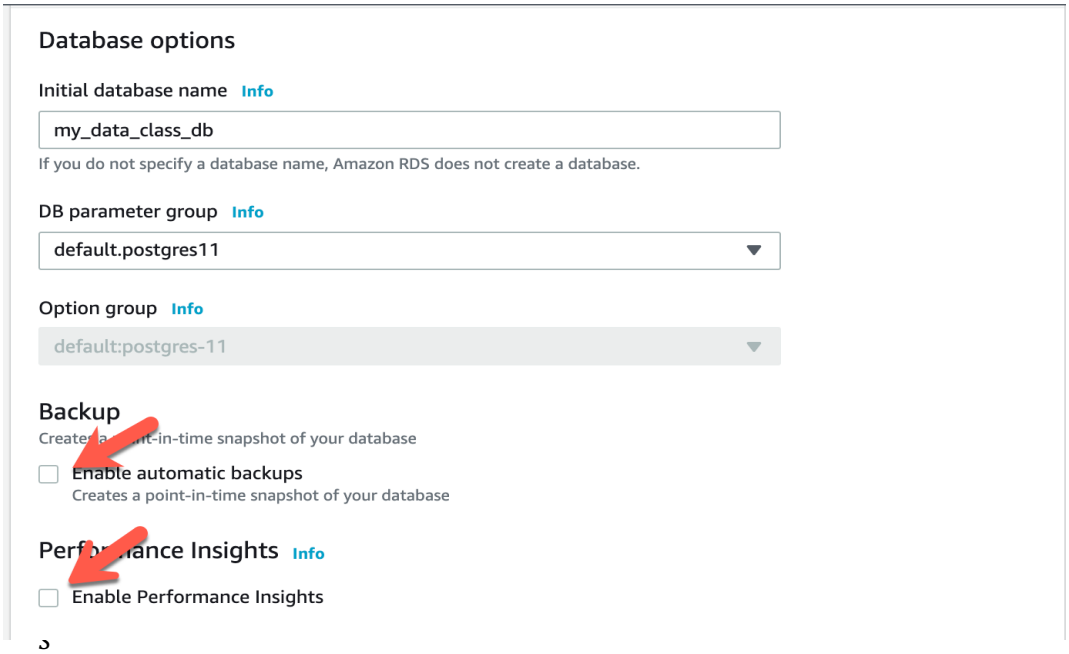
- In the “Additional configuration” section, make sure the port is `5432`, and “Password authentication” is selected in the “Database authentication” section.



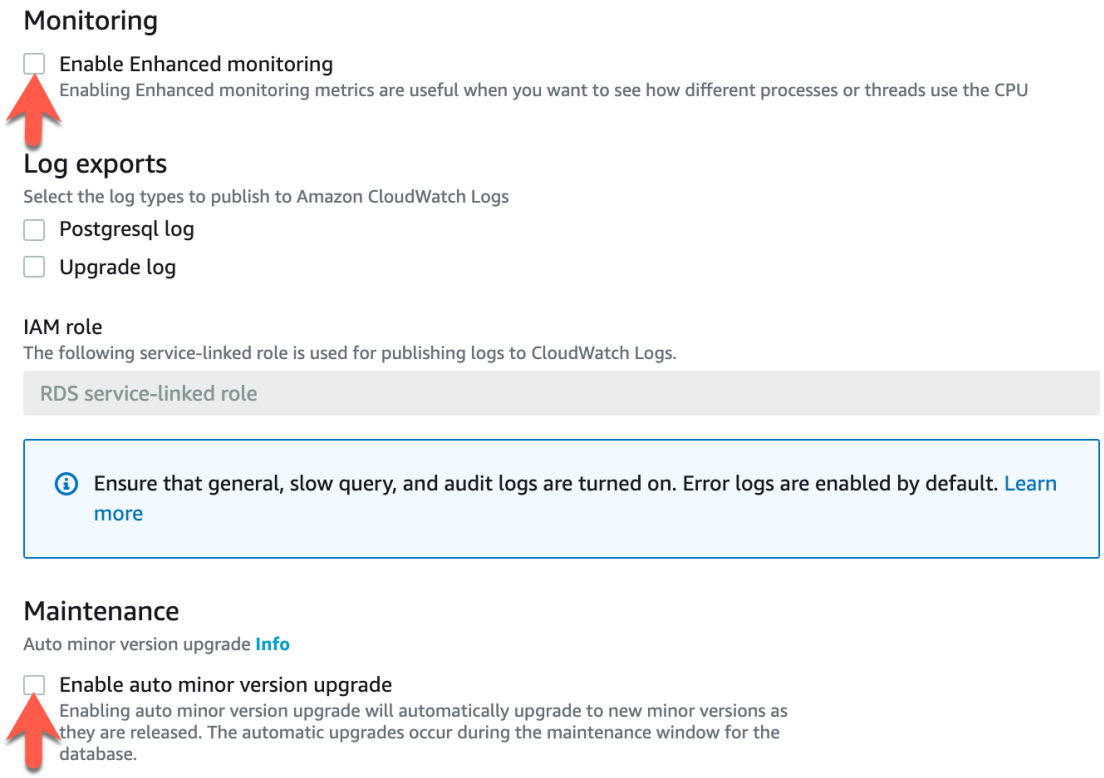
- In the “Connectivity” section, select “Yes” under the “Public accessibility” option.
    - Explain that this does not mean anyone can access the database, as a password is still required, but it allows connections from outside sources like pgAdmin.



- Next, in the “Additional configuration” section, click the down arrow to show the “Database options” fields.
- Name your database **my_data_class_db** for the sake of consistency. Keep the default settings in the other fields.
- And, in the “Backup” section, **uncheck** the boxes for “Enable automatic backups” and “Enable Performance Insights.”



- **Uncheck** the boxes for “Enable Enhanced Monitoring” and “Enable auto minor version upgrade.”



- Click **Create Database** followed by **View DB Instance details** to navigate to the instance console page. The database creation on AWS’s end will take anywhere from 10 to 15 minutes.