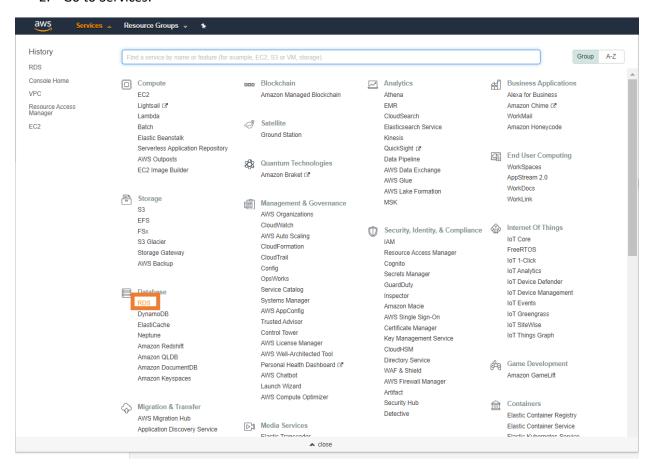
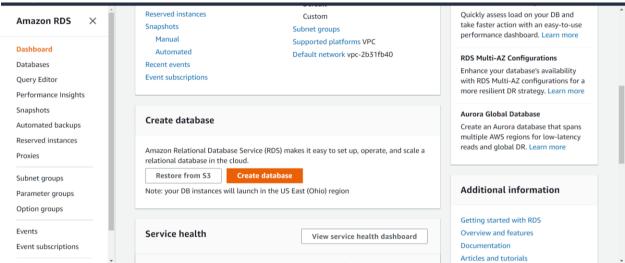
AWS Corporate Account RDS Instructions:

Spin up a Postgres RDS instance:

- 1. Sign in to your IAM user for revature-training.
- 2. Go to Services:

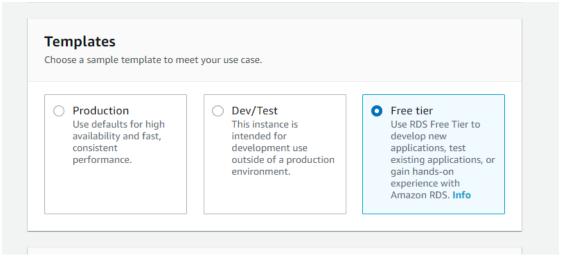


- 3. Select RDS.
- 4. On the next screen scroll down to Create Database.

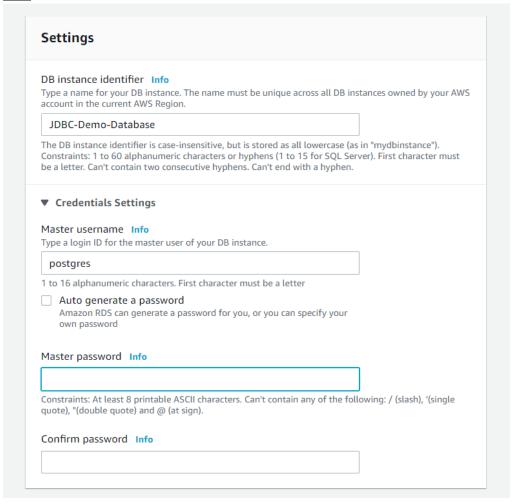


5. \equiv RDS > Create database Create database Choose a database creation method Info Standard Create Easy Create You set all of the configuration options, Use recommended best-practice including ones for availability, security, configurations. Some configuration backups, and maintenance. options can be changed after the database is created. **Engine options** Engine type Info Amazon Aurora MySQL MariaDB PostgreSQL Oracle Microsoft SQL Server SQL Server ORACLE' Version Info PostgreSQL 11.6-R1 6.

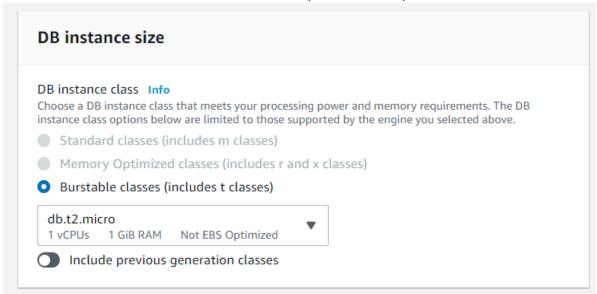
7. Then select only enable free-tier options.



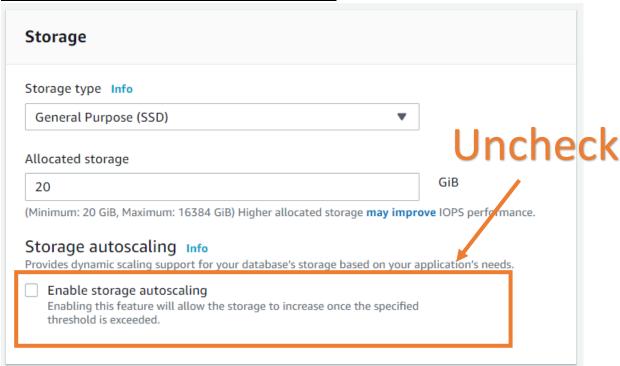
8. Then decide on your DB instance's name and master credentials. **Be sure and remember this** info.



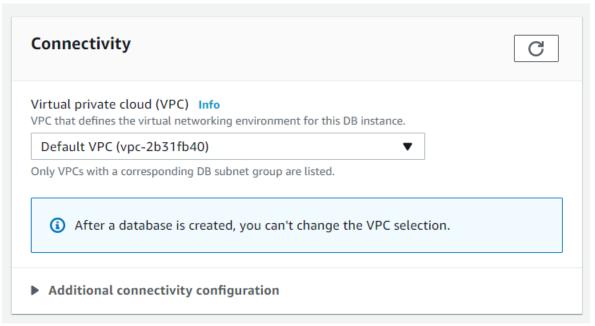
9. Leave defaults for the DB instance size- there is only one free tier option:



10. This is important disable autoscaling! Uncheck the box:



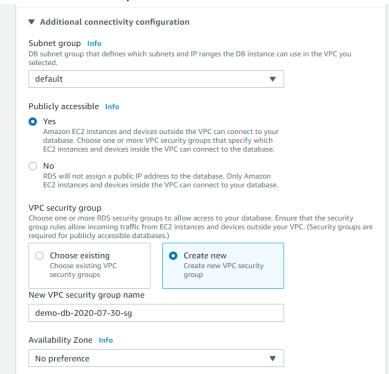
- 11. The Connectivity section will be a bit different than what you would do on a personal AWS.
 - a. Leave Default VPC (vpc-someset of characters).



- c. Then choose Additional connectivity configuration...
 - i. Subnet group remains default.

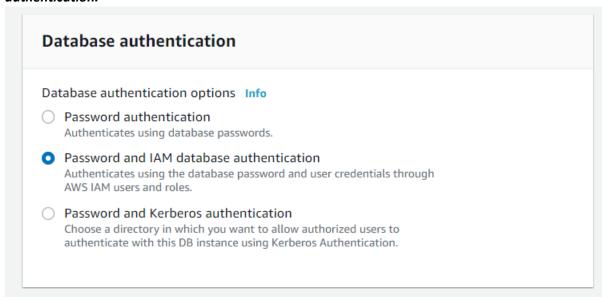
b.

- ii. Select YES for publicly accessible.
- iii. Then *Create new* VPC security group. And simply choose a unique name. You can leave the default port 5432.

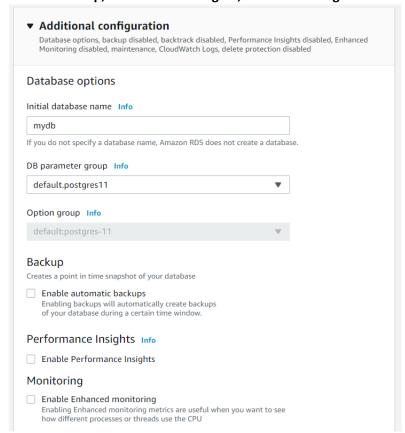


Note: Upon creating an instance for the second time, you may find this option is not available. Select the previous security group you used and then after setting up the database go to the later instructions on modifying access to your RDS.

d. Then for database authentication be sure and check *Password and IAM database* authentication.



- e. Then select Additional configuration:
 - i. Then you can specify a name for your database and leave the default parameter group.
 - ii. Disable Backup, Performance Insights, and Monitoring



iii. Then disable the Log Exports, Maintenance, and deletion protection:

Log exports Select the log types to publish to Amazon CloudWatch Logs Postgresql log Upgrade log IAM role The following service-linked role is used for publishing logs to CloudWatch RDS Service Linked Role (i) Ensure that General, Slow Query, and Audit Logs are turned on. Error logs are enabled by default. Learn more Maintenance Auto minor version upgrade Info Enable auto minor version upgrade Enabling auto minor version upgrade will automatically upgrade to new minor versions as they are released. The automatic upgrades occur during the maintenance window for the database. Maintenance window Info Select the period you want pending modifications or maintenance applied to the database by Amazon RDS. Select window No preference Deletion protection Enable deletion protection Protects the database from being deleted accidentally. While this option is enabled, you can't delete the database.

Finally, your you can proceed to create the instance!

Services>RDS>Databases and select your database instance

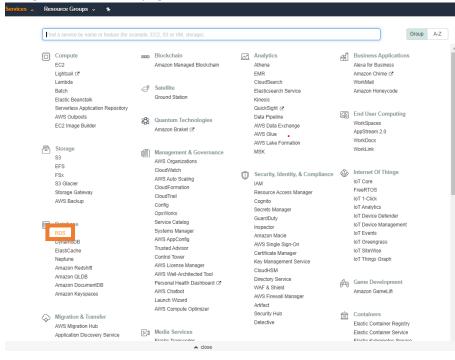
You should see your database instance in the *Creating* status for several minutes. Eventually, you will see your database's status change to *Available*. At this point you may start to create connections and manage your database.

To find out details about the status of your database after exiting. Log back in and navigate to

When you are finished with your database you can remove it.

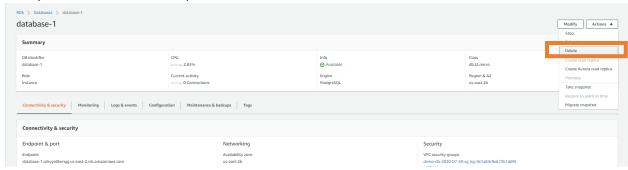
Upon Finishing:

1. Navigate to Databases page. Go to Services> RDS>Databases:





- 2. Then select the instance ^^.
- 3. Finally click on the Actions dropdown menu and select Delete:



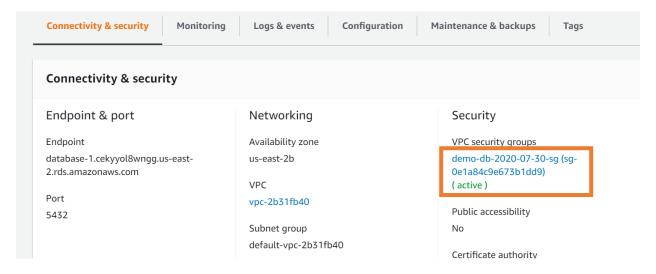
Nice work!

Modifying Access to AWS RDS

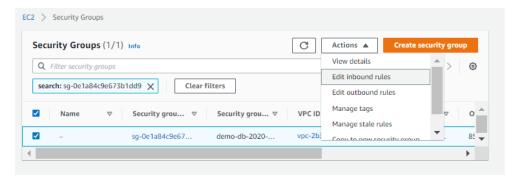
There may be circumstances where you are using an existing security group or you need to modify the rules associated with the security group that is associated with your RDS. Perhaps you need to change who has access to your database.

To do this navigate to your database page (the same page from which you will eventually delete your database).

Select the *Connectivity & security tab*. Click on the security group from there.



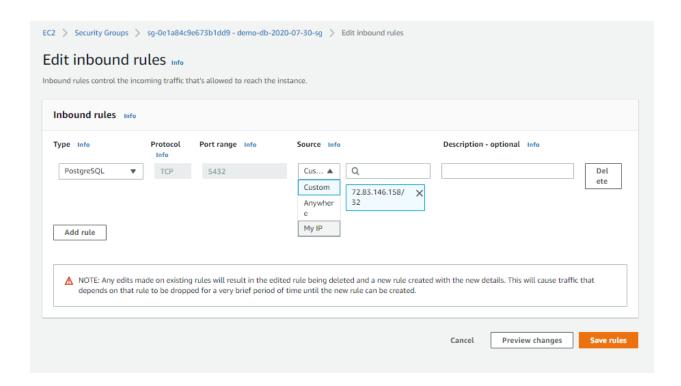
This will bring you to the Security Group page. From here make sure that your security groups is selected and then go to actions. Select edit inbound rules.



Now depending on your circumstances, you can add a rule to enable you to connect from another IP in addition to the current rule that exists or you can replace your previous inbound rule with another one.

You should ensure that the type matches PostgreSQL and its set to TCP and the port of your database.

Then for source, select either custom or MYIP depending on whether you are setting this up for yourself to connect from the current IP or somewhere else.



When you are finished select save rules. You should be able to connect from any IP for which there is an inbound rule.

Additionally, you should make sure to navigate back to this page and delete any inbound rules from IPs that are not or no longer associated with an IP address you specifically know. For instance, if you want to allow your associates to connect to the database you can add their IPs here, but you should delete them as soon as you are finished with the example.