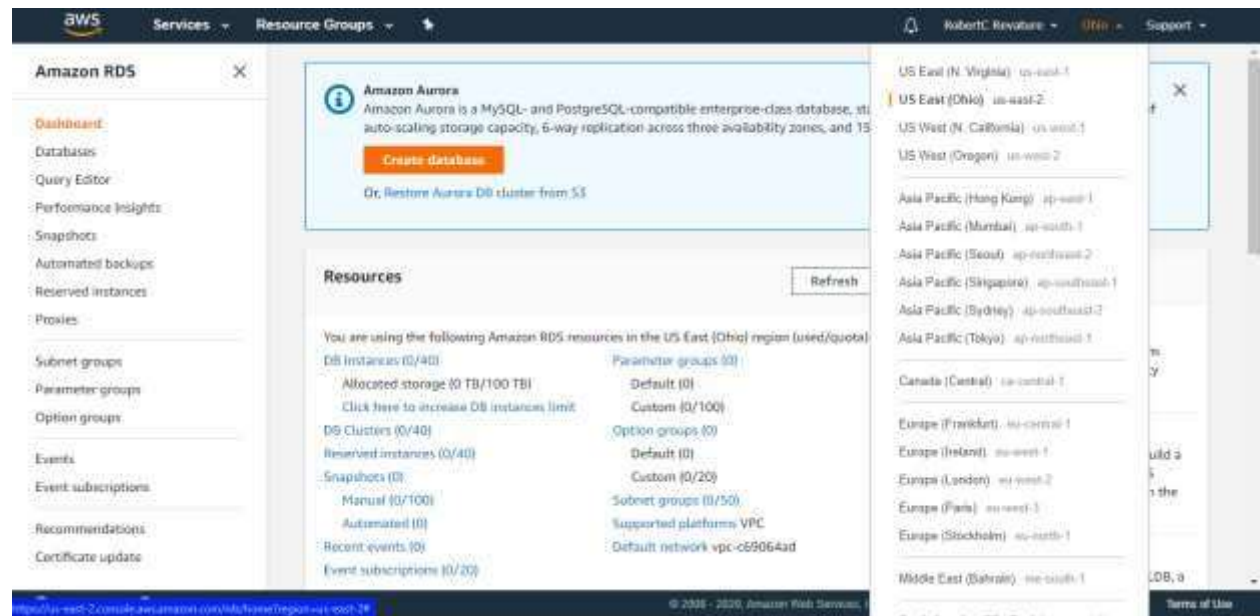
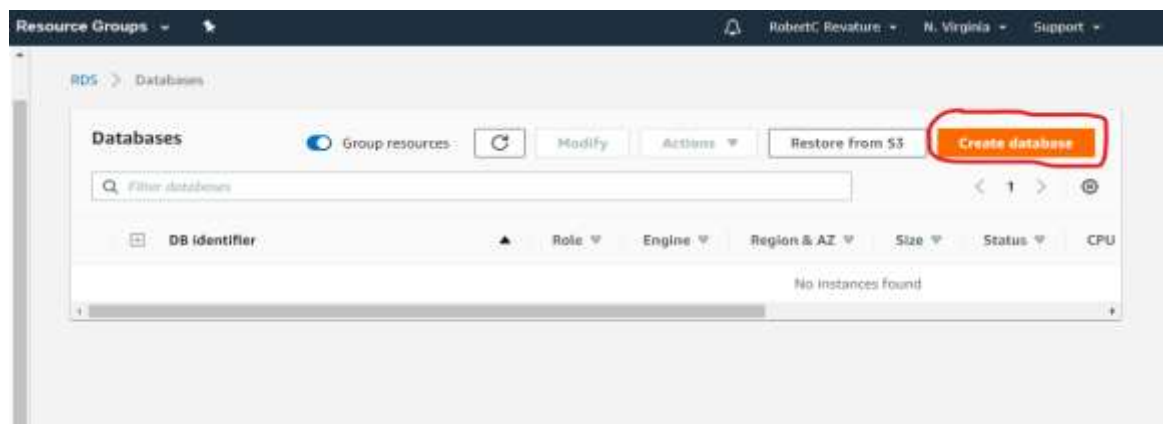


## Make a PostgreSQL DB instance on AWS

1. Go to <http://aws.amazon.com>
2. Sign into the console and go to services > RDS
3. Select the region to use for the db.



- a. Select the one closest to you for the best performance.
4. Select DB Instances




5. Select Create Database
6. In the configurations, change the following:


☒ **Standard Create**  
 You set all of the configuration options, including ones for availability, security, backups, and maintenance.


☐ **Easy Create**  
 Use recommended best-practice configurations. Some configuration options can be changed after the database is created.


### Engine options


Engine type [Info](#)


☐ Amazon Aurora  


☐ MySQL  


☐ MariaDB  


☐ PostgreSQL  


☒ **Oracle**  


☐ Microsoft SQL Server  


a. Click Standard Create

- b. Click the icon for Oracle
- c. Select the standard edition

☒ **Oracle Standard Edition**  
 Affordable and full-featured database management system supporting up to 32 vCPUs.

☐ Oracle Standard Edition One  
 Affordable and full-featured database management system supporting up to 16 vCPUs.

☐ Oracle Standard Edition Two  
 Affordable and full-featured database management system supporting up to 16 vCPUs. Oracle Database Standard Edition Two is a replacement for Standard Edition and Standard Edition One.

Version [Info](#)

Oracle 11.2.0.4.v24

License

bring-your-own-license

### Templates

Choose a sample template to meet your use case.

☐ **Production**  
 Use defaults for high availability and fast, consistent performance.

☐ **Dev/Test**  
 This instance is intended for development use outside of a production environment.

☒ **Free tier**  
 Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS. [Info](#)

- d. Select Free Tier

- e. For DB instance identifier, type whatever name you want the db to have
- f. Under credentials settings:
  - i. Put in whatever username you want to sign into the db with
  - ii. Type in a master password

### Settings

DB instance identifier [Info](#)

Type a name for your DB instance. The name must be unique cross all DB instances owned by your AWS account in the current Region.

whatever\_you\_want\_to\_\_call\_it

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens (1 to 15 for SQL Server). First character must be a letter. Can't contain two consecutive hyphens. Can't start or end with a hyphen.

▼ Credentials Settings

Master username [Info](#)

Type a login ID for the master user of your DB instance.

whatever you want to sign in to the db with

1 to 16 alphanumeric characters. First character must be a letter

☐ Auto generate a password

Amazon RDS can generate a password for you, or you can specify your own password

Master password [Info](#)

\*\*\*\*\*

Constraints: At least 8 printable ASCII characters. Can't contain any of the following: / (slash), " (double quote) and @ (at sign)

Confirm password [Info](#)

\*\*\*\*\*

- 1 Remember this, you can only reset it, never recover it
- iii. Type the same in confirm password
- g. Under db instance size, you can mainly leave this alone, make sure you stay under the free tier
- h. Leave storage section alone.

## Connectivity



### Virtual Private Cloud (VPC) [Info](#)

VPC that defines the virtual networking environment for this DB instance.

Default VPC (vpc-c69064ad) ▼

Only VPCs with a corresponding DB subnet group are listed.

After a database is created, you can't change the VPC selection.

### ▼ Additional connectivity configuration

#### Subnet group [Info](#)

DB subnet group that defines which subnets and IP ranges the DB instance can use in the VPC you selected.

default ▼

#### Publicly accessible [Info](#)



Yes

Amazon EC2 instances and devices outside the VPC can connect to your database. Choose one or more VPC security groups that specify which EC2 instances and devices inside the VPC can connect to the database.



No

RDS will not assign a public IP address to the database. Only Amazon EC2 instances and devices inside the VPC can connect to your database.

- i. For connectivity:
  - i. Use default vpc
  - ii. Select yes for public accessibility
  - iii. Use default security group
  - iv. Leave the rest alone
- j. Leave database authentication alone at password authentication

k. Under additional configuration:

▼ **Additional configuration**

Database options, encryption enabled, backup disabled, backtrack disabled, Performance Insights enabled, Enhanced Monitoring disabled, maintenance, CloudWatch Logs, delete protection disabled

**Database options**

Initial database name [Info](#)

If you do not specify a database name, Amazon RDS does not create a database.

DB parameter group [Info](#)

default.oracle-se-11.2 ▼

Option group [Info](#)

default.oracle-se-11-2 ▼

Character set

AL32UTF8 ▼

**Backup**

Creates a point in time snapshot of your database

☐ **Enable automatic backups**

Enabling backups will automatically create backups of your database during a certain time window.

☐ **Copy tags to snapshots**

i. Deselect:

1. Enable automatic backups

## Monitoring

### ☐ Enable Enhanced monitoring

Enabling Enhanced monitoring metrics are useful when you want to see how different processes or threads use the CPU.

## 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 Logs.

## RDS Service Linked Role

 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.

## 2. Enable performance insights

## 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.

## 3. Enable performance monitoring

## Estimated monthly costs

The Amazon RDS Free Tier is available to you for 12 months. Each calendar month, the free tier will allow you to use the Amazon RDS resources listed below for free:

- 750 hrs of Amazon RDS in a Single-AZ db.t2.micro Instance.
- 20 GB of General Purpose Storage (SSD).
- 20 GB for automated backup storage and any user-initiated DB Snapshots.

[Learn more about AWS Free Tier.](#)

When your free usage expires or if your application use exceeds the free usage tiers, you simply pay standard, as-you-go service rates as described in the [Amazon RDS Pricing page](#).

4. all log exports

ii. The rest can be selected as needed

- l. You should see the estimated monthly cost at the bottom. There should not be an actual cost, you should see as above.

database-1 Modify Actions

**Summary**

DB identifier database-1	CPU -	Info Creating	Class db.t2.micro
Role Instance	Current activity 0 Sessions	Engine Oracle Standard Edition	Region & AZ -

**Connectivity & security** | **Monitoring** | **Logs & events** | **Configuration** | **Maintenance & backups** | **Tags**

**Connectivity & security**

<b>Endpoint &amp; port</b>	<b>Networking</b>	<b>Security</b>
Endpoint -	Availability zone -	VPC security groups default (sg-f2acdea3) ( active )
Port -	VPC vpc-9d672be7	Public accessibility Yes
	Subnet group default-vpc-9d672be7	Certificate authority rds-ca-2019

- m. After creating the db and clicking on its name, you should see the summary as below.