AWS account setting up and SQL queries

Set up a free AWS account for your project

- Step 1: go to http://aws.amazon.com/free/ , sign up and create a free account

-sign up

amazon web services

Sign In or Create an AWS Account

What is your email (phone for mobile accounts)?

E-mail or mobile number:

cs336.spring17@gmail.com

I am a new user.

I am a returning user and my password is:

Sign in using our secure server

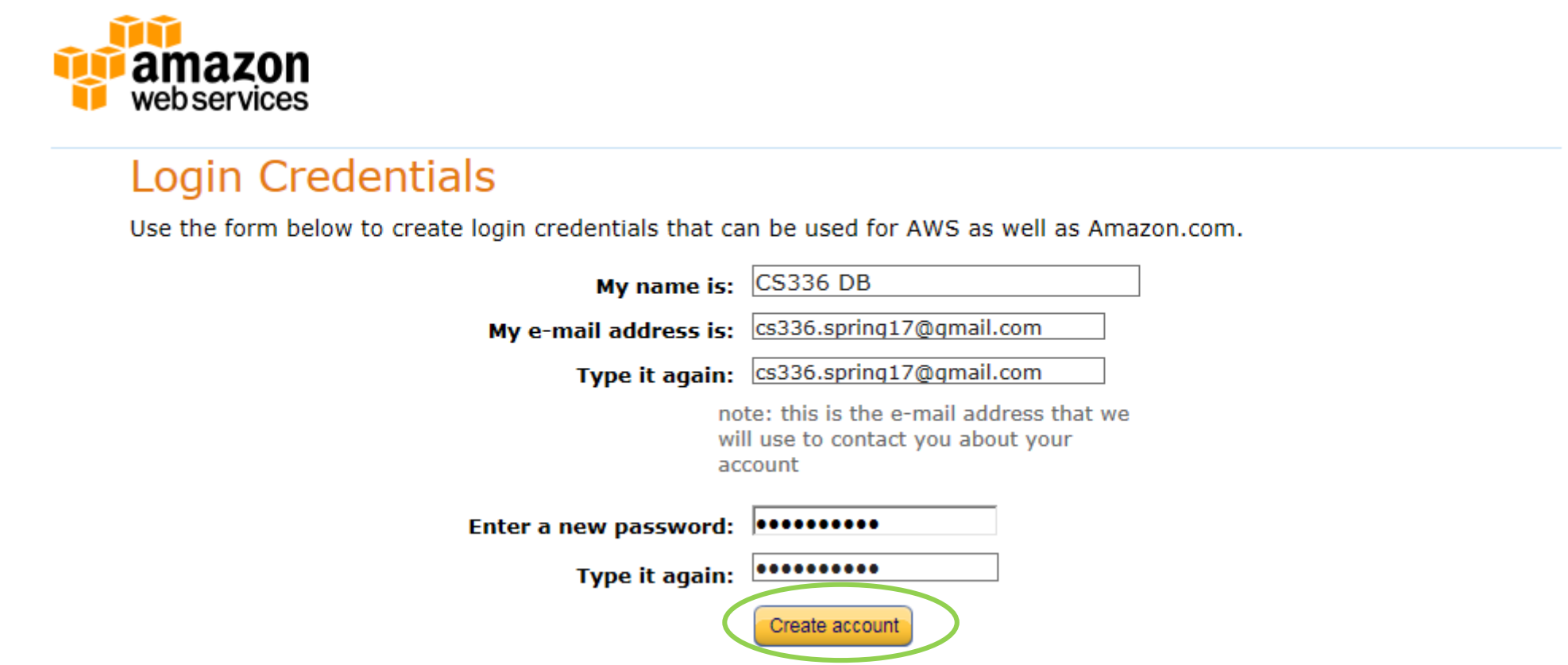
Forgot your password?

AWS Accounts Include
12 Months of Free Tier Access

Including use of Amazon EC2,
Amazon S3, and Amazon DynamoDB

Visit aws.amazon.com/free for full offer terms

-sign up


amazon web services
Login Credentials
Use the form below to create login credentials that can be used for AWS as well as Amazon.com.
My name is:
CS336 DB
My e-mail address is:
cs336.spring17@gmail.com
Type it again:
cs336.spring17@gmail.com
note: this is the e-mail address that we will use to contact you about your account
Enter a new password:
Type it again:
Create account

-fill up contact information

Contact Information

Company Account Personal Account

* *Required Fields*

Full Name* CS336 DB

Country* United States

Address* 110 Frelinghuysen Road

Apartment, suite, unit, building, floor, etc.

City* Piscataway

State / Province or Region* NJ

Postal Code* 08854-8019

Phone Number*

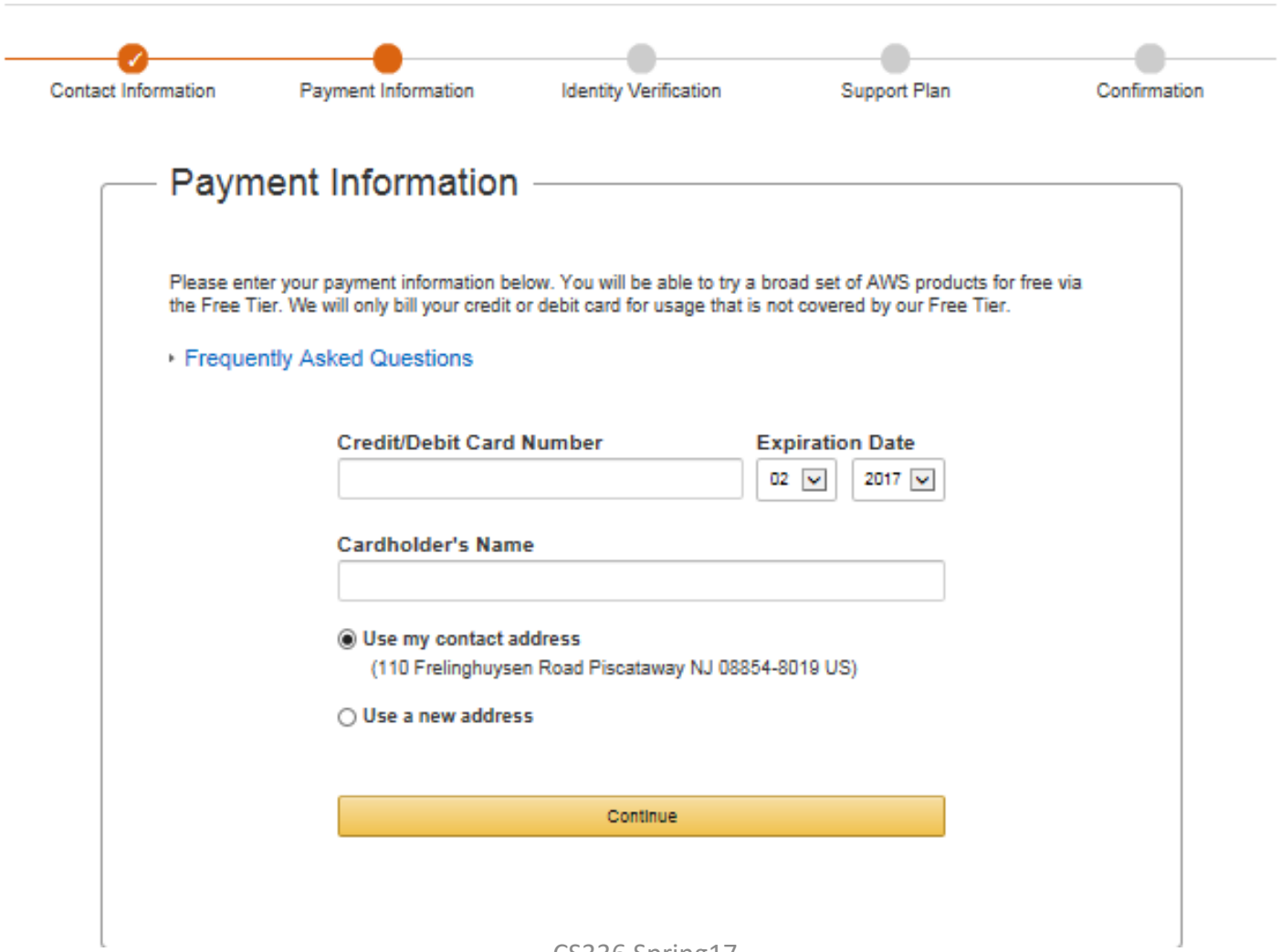
Security Check

Refresh Image

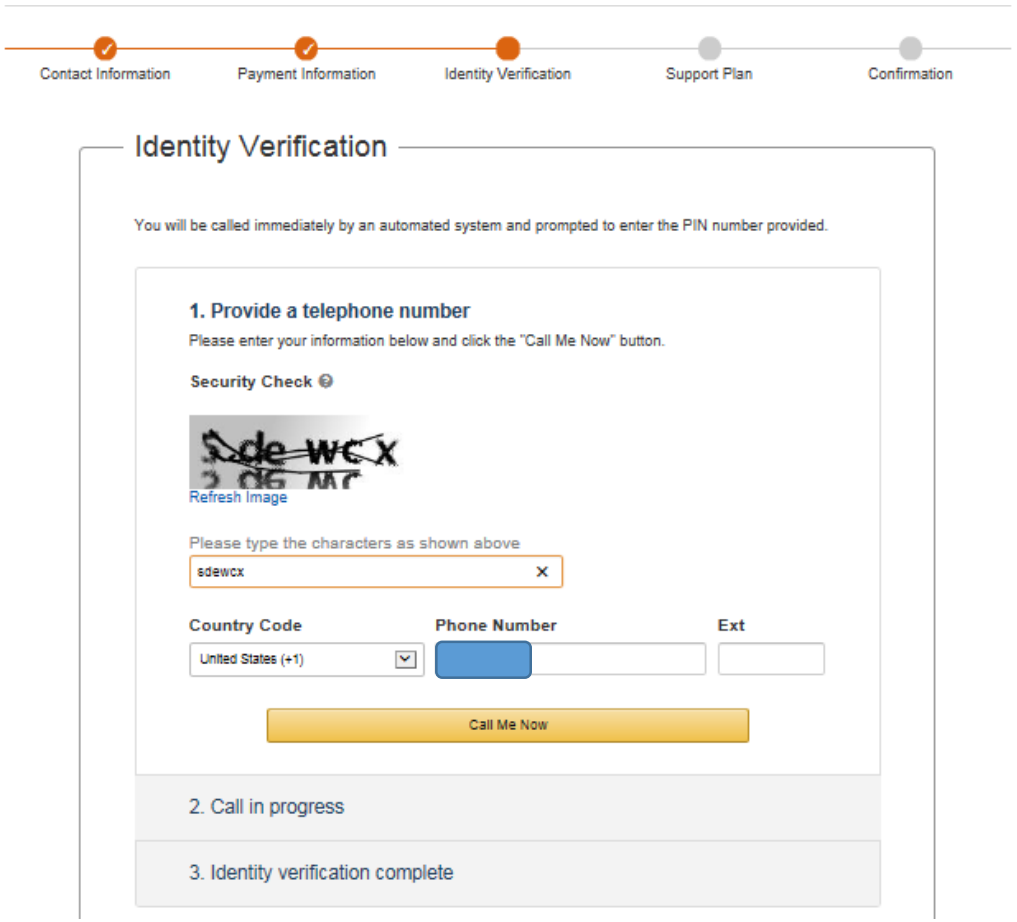
Please type the characters as shown above

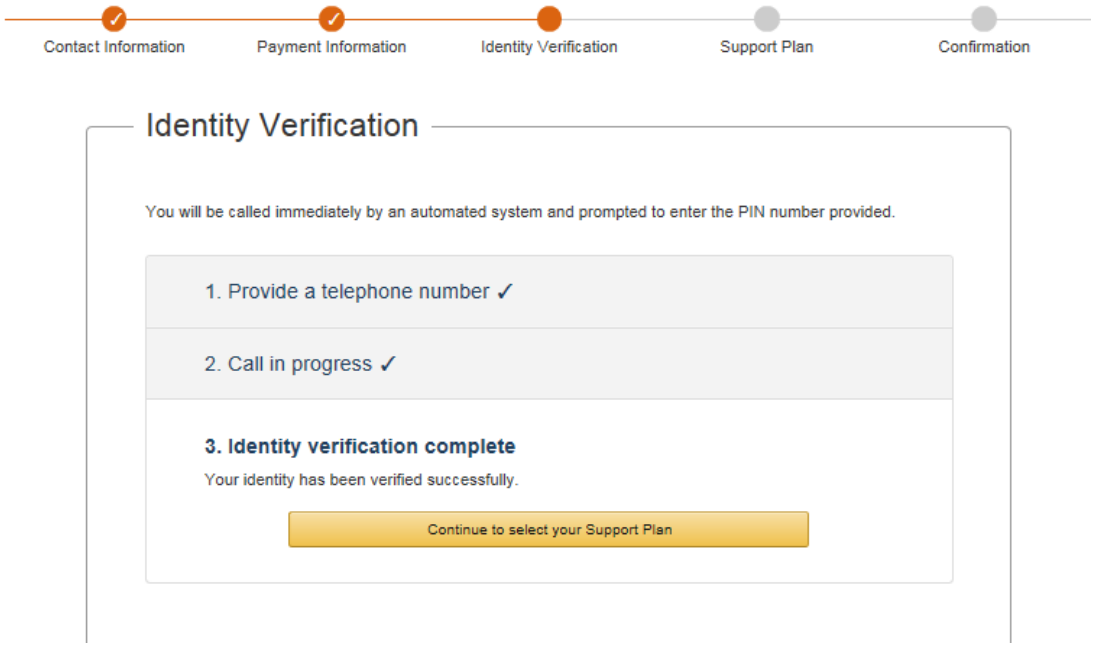
-fill payment information

- though Amazon requires you to enter a credit card, you can remove it afterwards

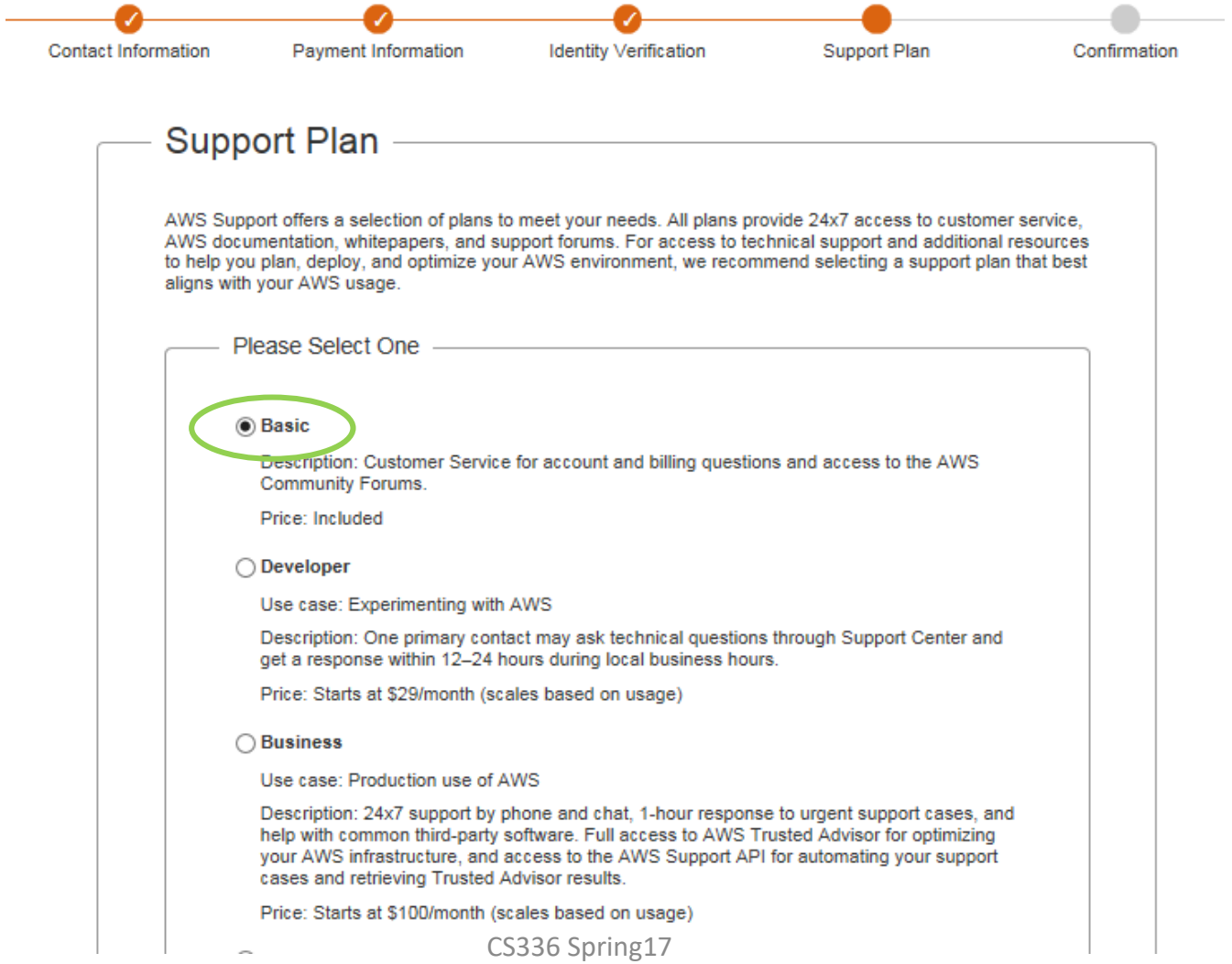


-verify identify

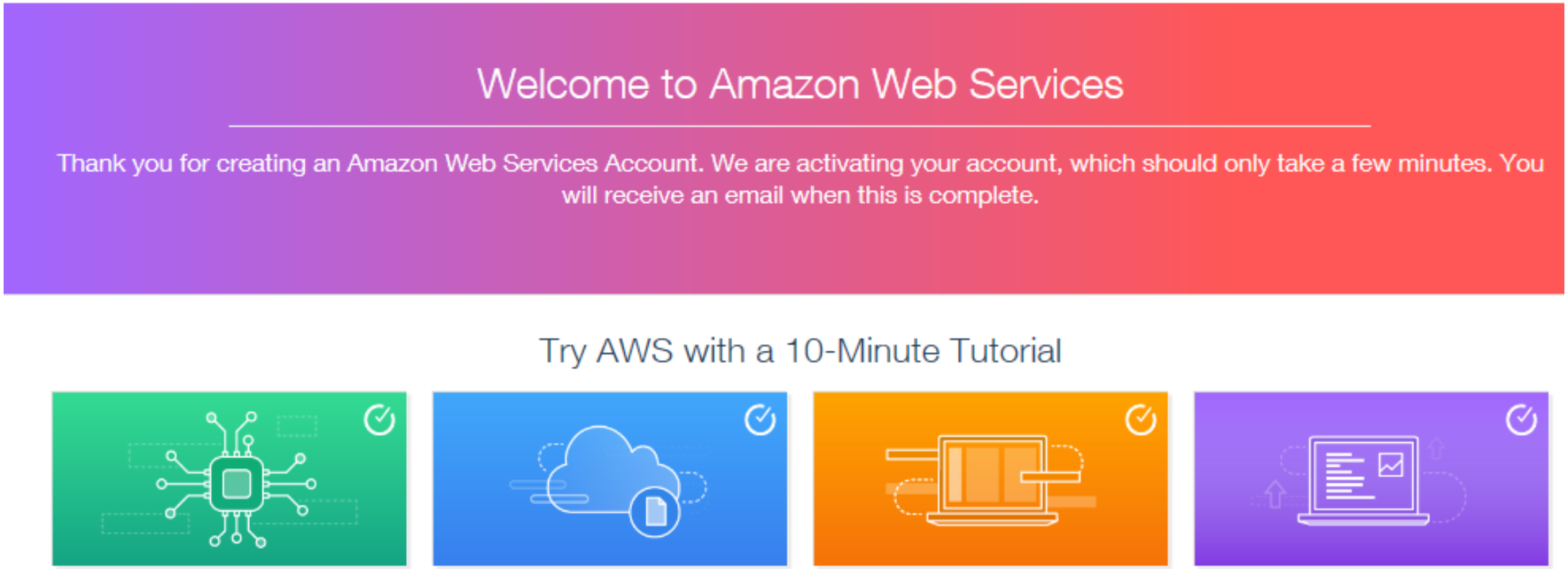




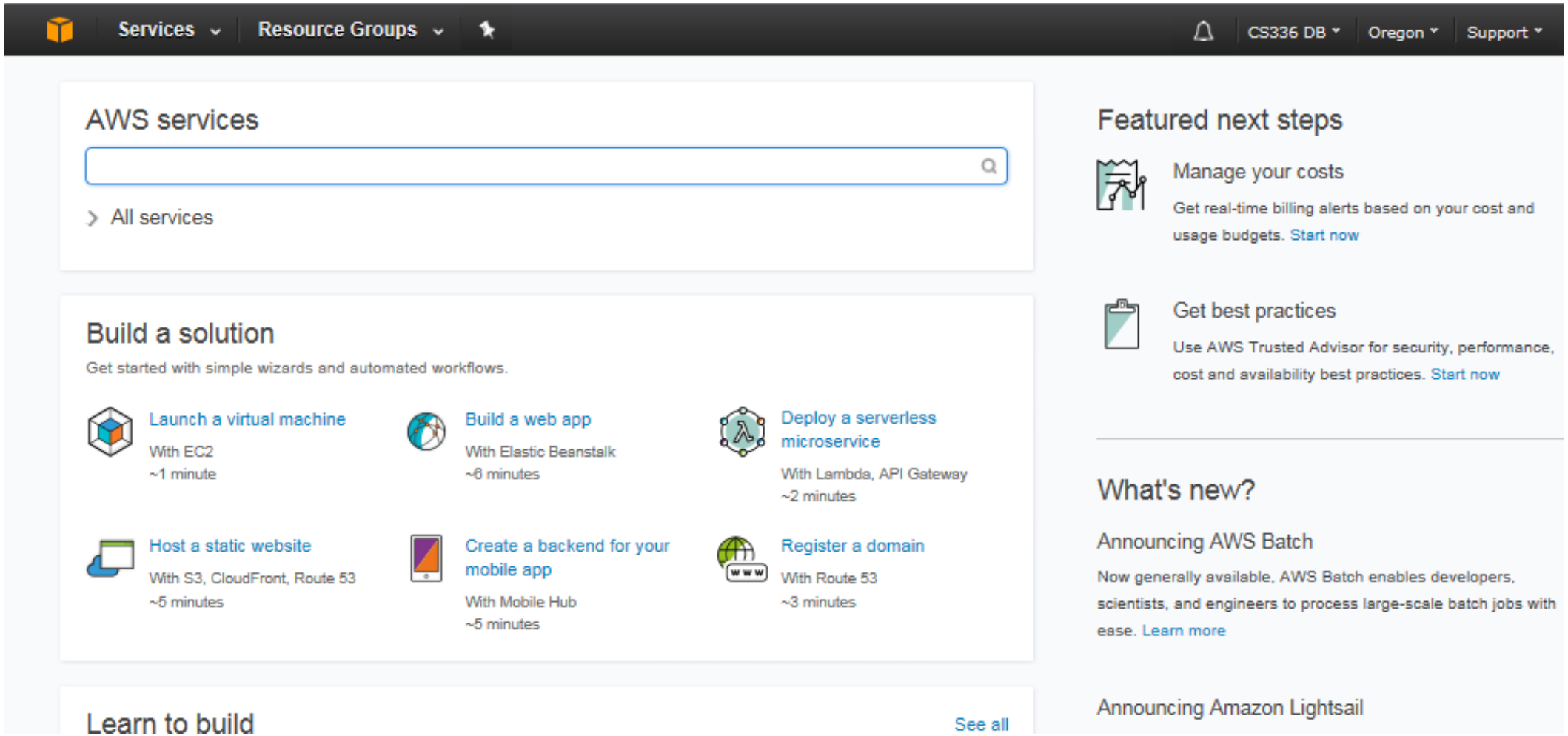
-choose one support plan



-account created



-sign in to the console

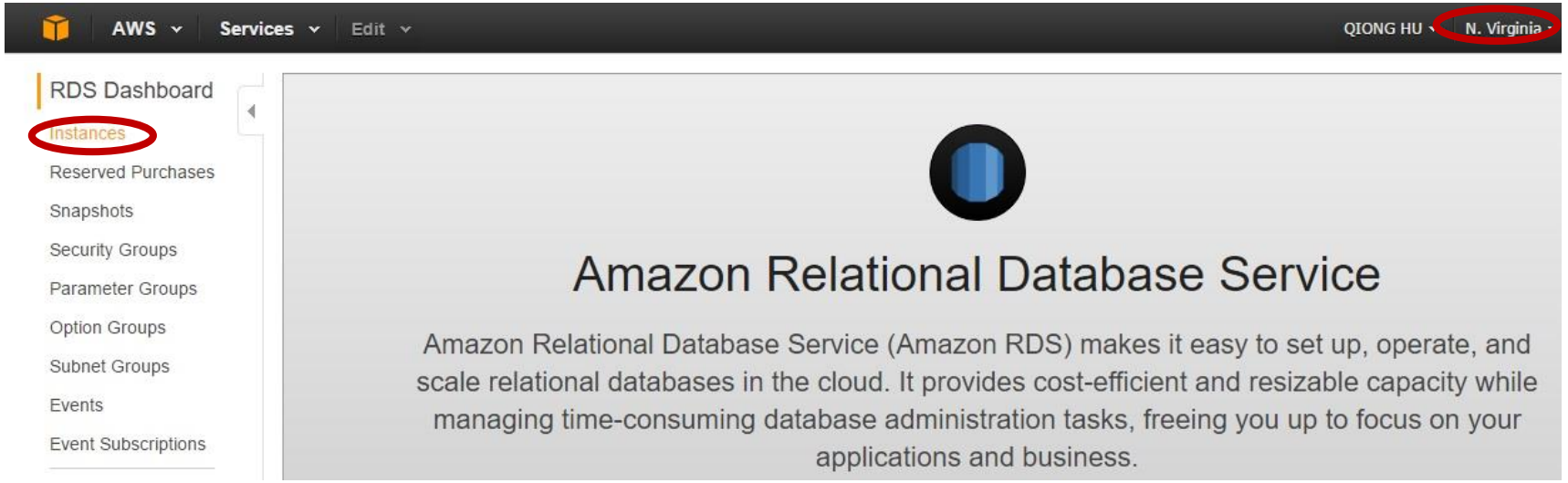


Set up a free AWS account for your project

- Step 2: Creating a MySQL DB Instance
  - Tutorial:
    - http://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_GettingStarted.CreatingConnecting.MySQL.html
  - To be free it needs to have the following:
    - **Say NO to: Multi-AZ Deployment and Provisioned IOPS Storage**
    - **DB Instance Class: db.t2.micro**
    - **Multi-AZ Deployment: NO**
    - **Storage Type: General Purpose (SSD)**
    - **Allocated Storage: 20GB**
    - **Any more will not be free and will be charged to the credit card.**

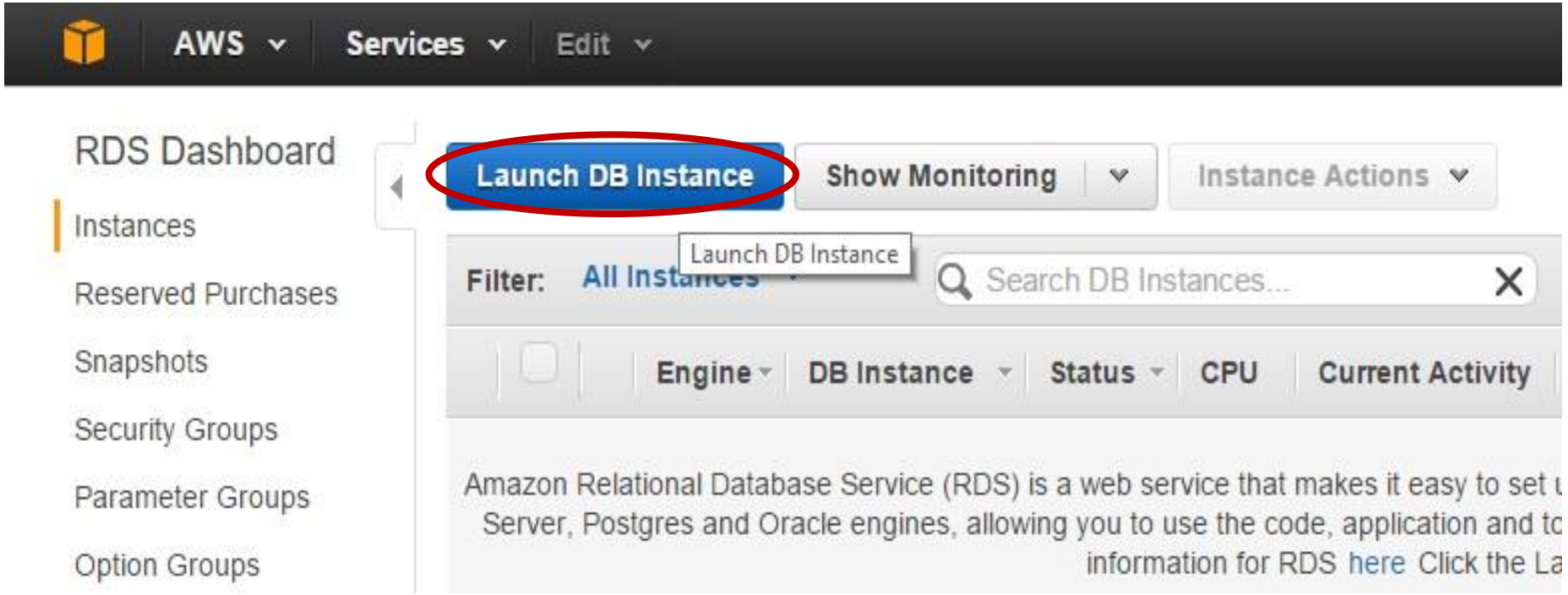
Creating a MySQL DB Instance

- Sign in to the AWS Management Console and open the Amazon RDS console at https://console.aws.amazon.com/rds/
- In the top right corner of the Amazon RDS console, select the region in which you want to create the DB instance.
- In the navigation pane, click **Instances**



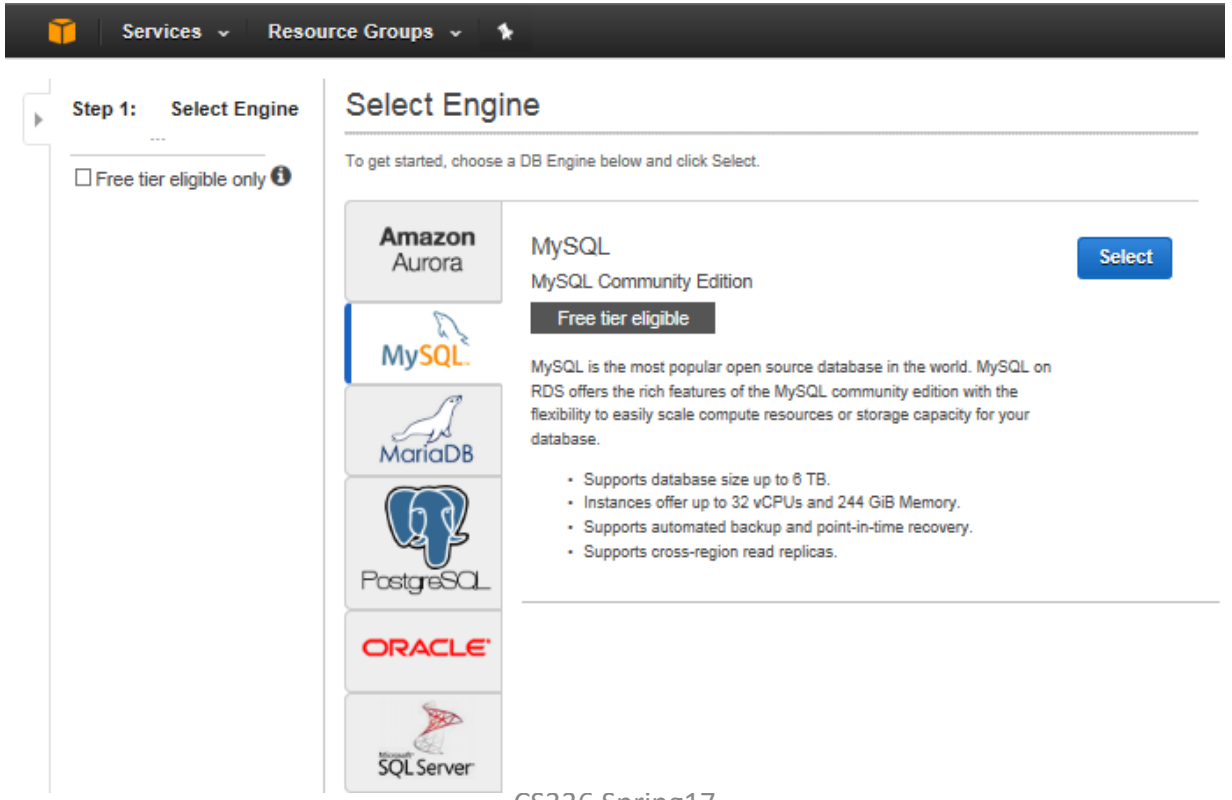
Creating a MySQL DB Instance

- Click **Launch DB Instance**. The **Launch DB Instance Wizard** opens on the **Select Engine** page.



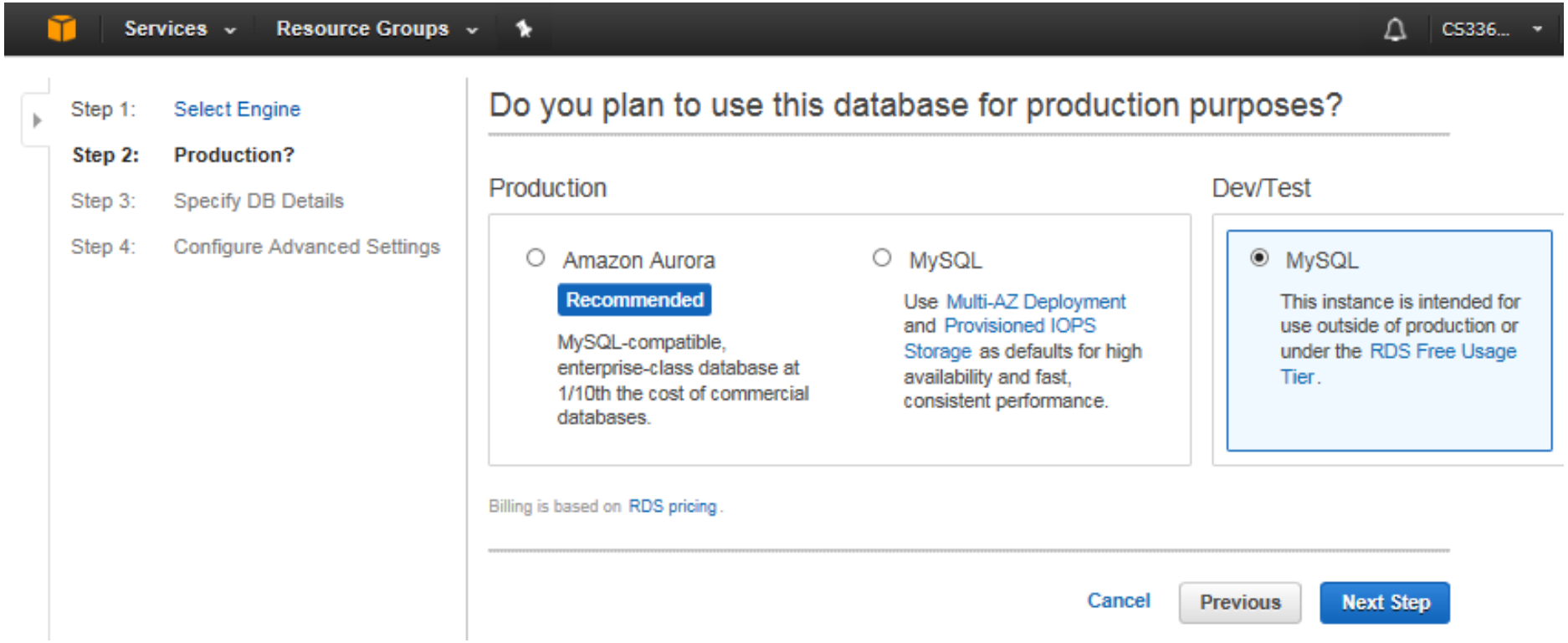
Creating a MySQL DB Instance

- On the **Select Engine** page, click the MySQL icon and then click **Select** for the MySQL DB engine.



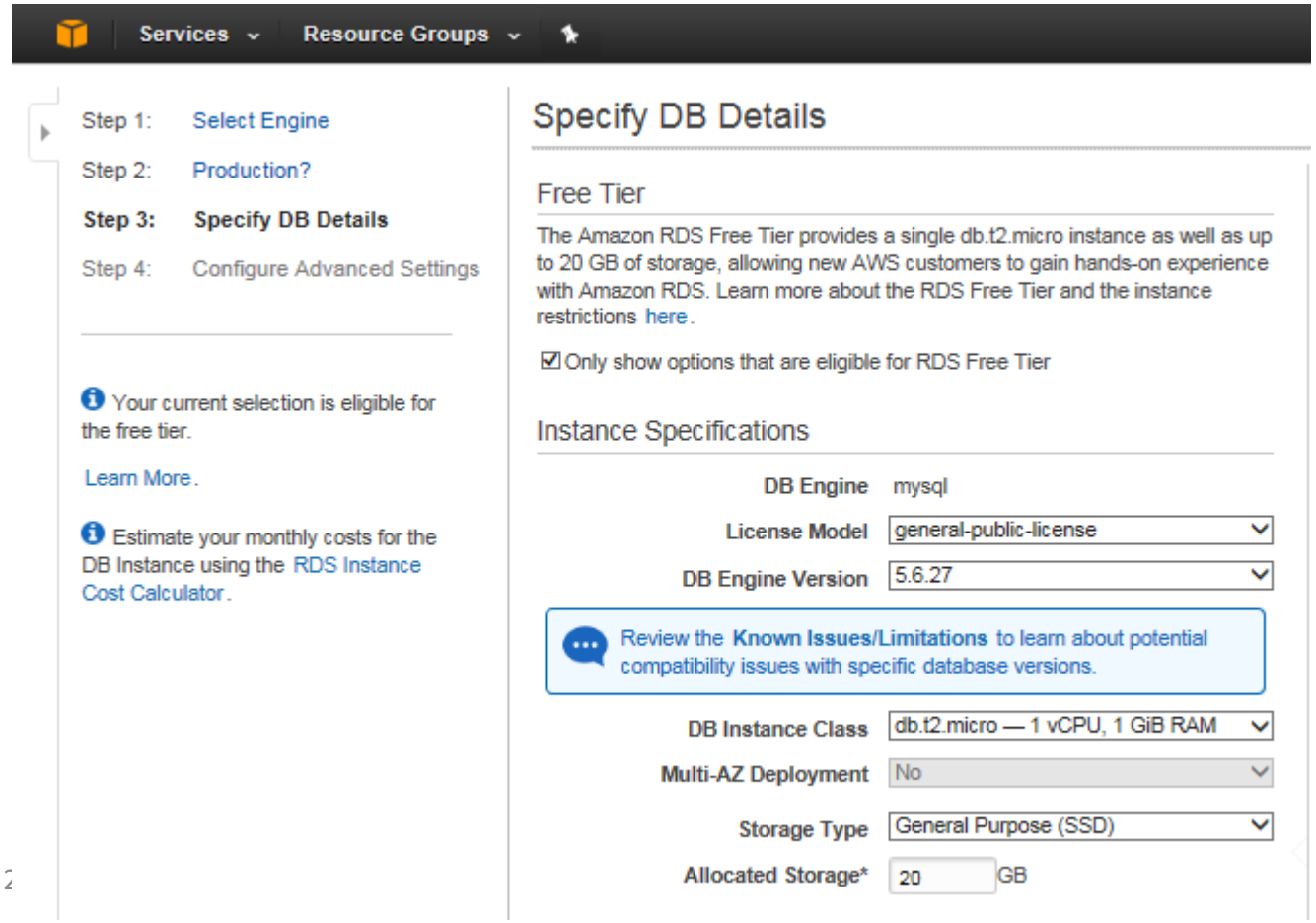
Creating a MySQL DB Instance

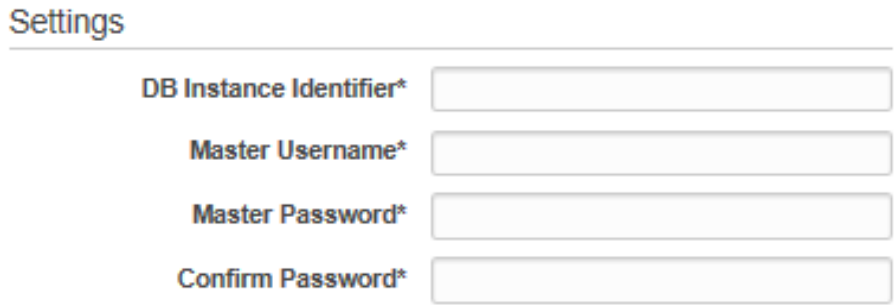
- The next step asks if you are planning to use the DB instance you are creating for production. Choose RDS Free Usage Tier.



Creating a MySQL DB Instance

- specify your DB instance information.

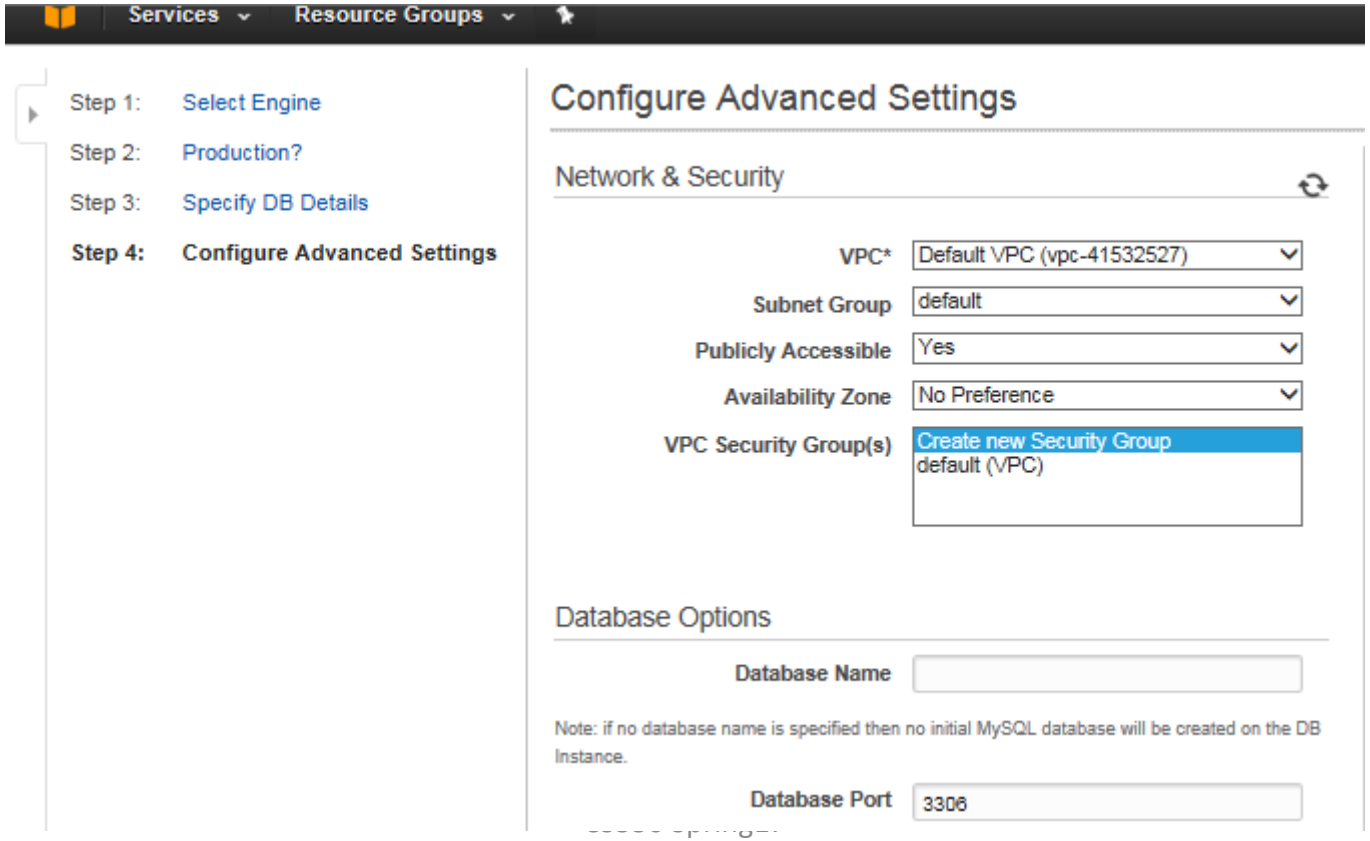




In this step, you need to create the **master username** and **master password**. Please remember this information, for it will be used in the connecting phase.

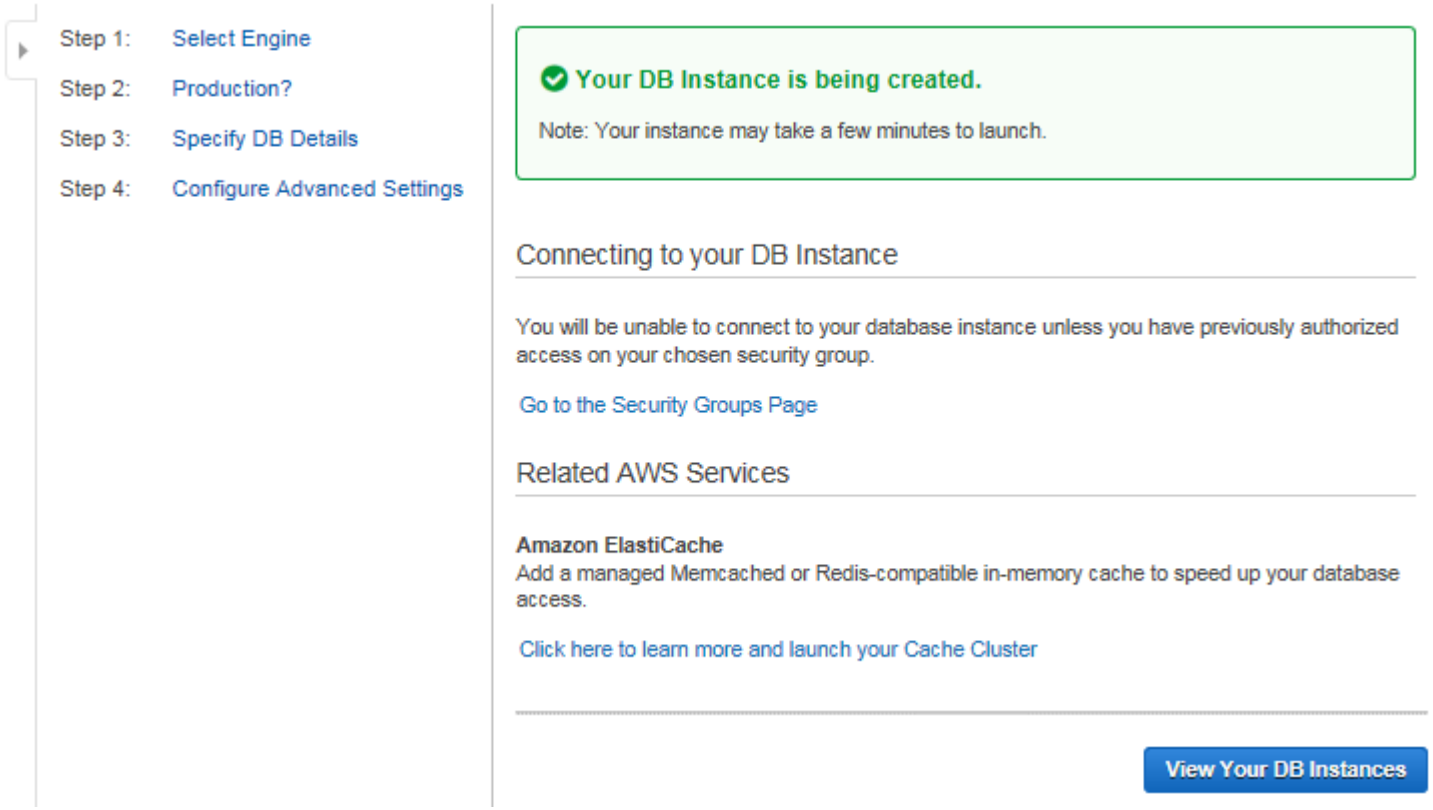
Creating a MySQL DB Instance

- On the **Configure Advanced Settings** page, provide additional information that RDS needs to launch the MySQL DB instance. Create a new VPC security group.



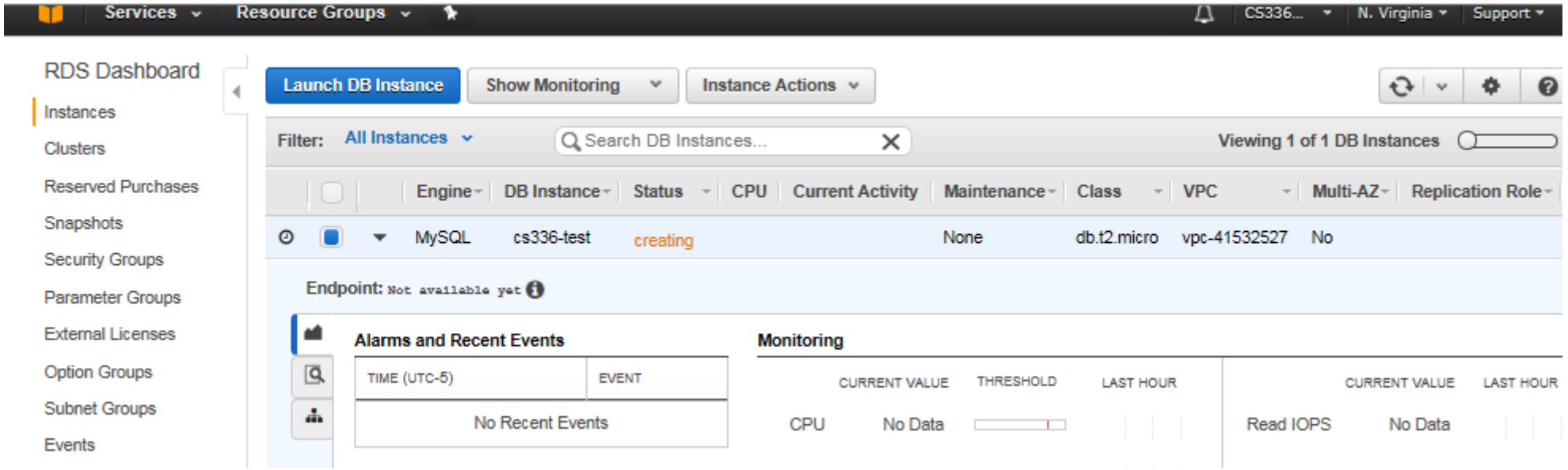
Creating a MySQL DB Instance

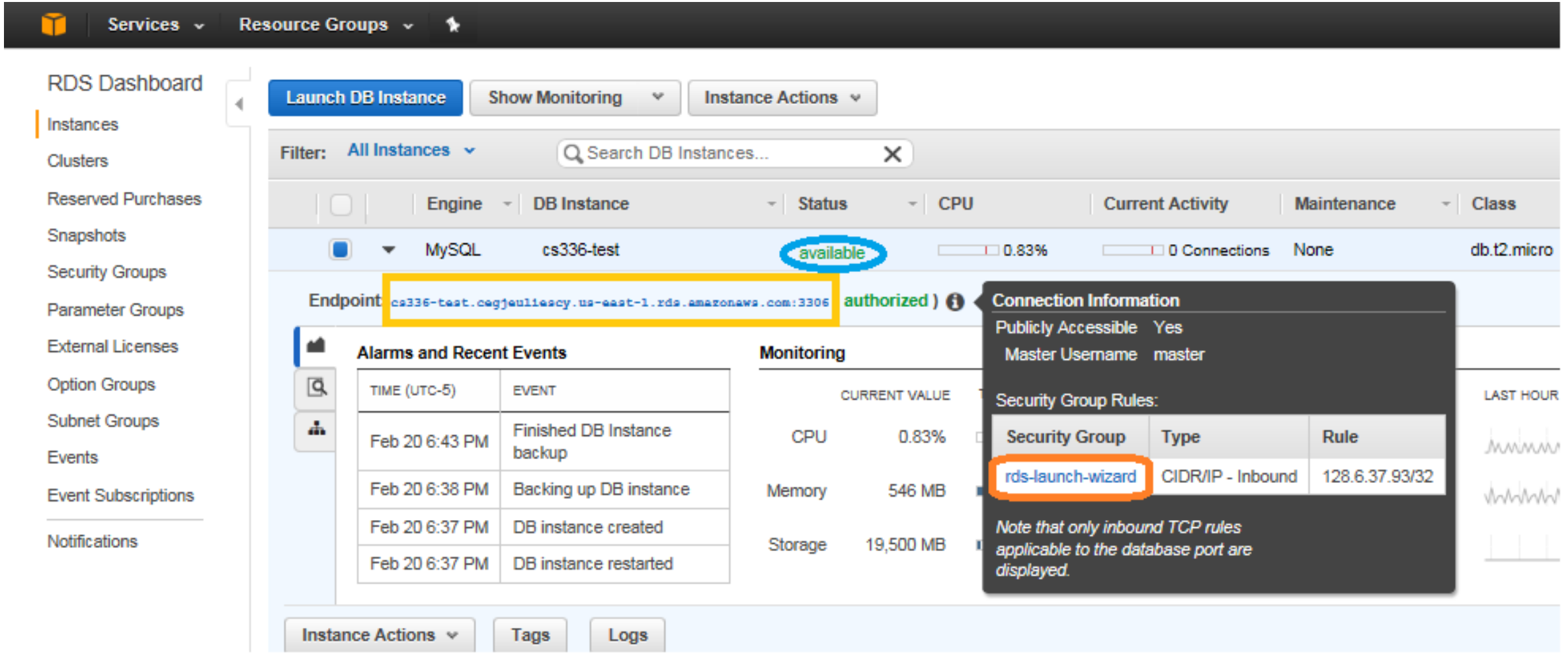
- Click **Launch DB Instance** to create your MySQL DB instance.



Creating a MySQL DB Instance

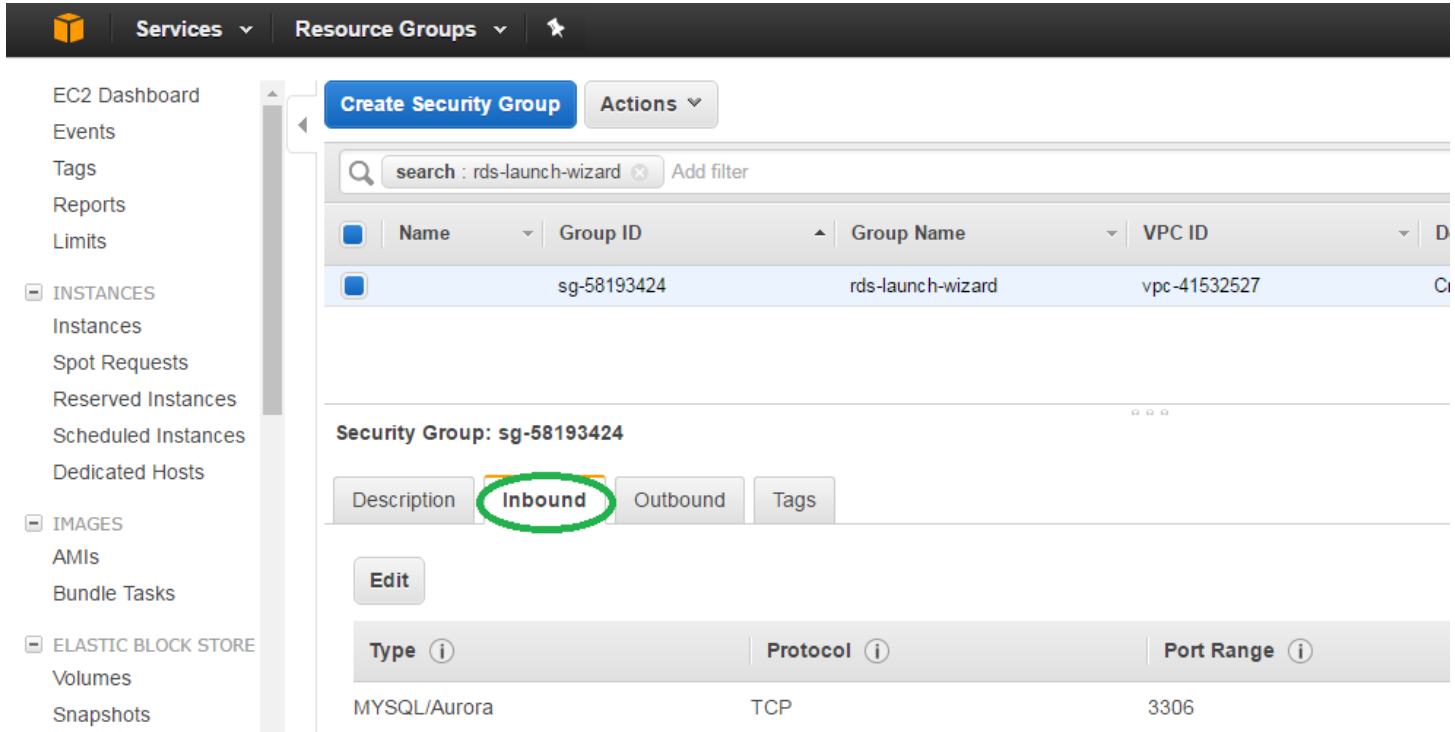
- View your db instances
  - On the RDS console, the new DB instance appears in the list of DB instances. The DB instance will have a status of creating until the DB instance is created and ready for use. When the state changes to available, you can connect to a database on the DB instance.




Services
Resource Groups
RDS Dashboard
Instances
Clusters
Reserved Purchases
Snapshots
Security Groups
Parameter Groups
External Licenses
Option Groups
Subnet Groups
Events
Event Subscriptions
Notifications
Launch DB Instance
Show Monitoring
Instance Actions
Filter: All Instances
Search DB Instances...
Engine
DB Instance
Status
CPU
Current Activity
Maintenance
Class
MySQL
cs336-test
available
0.83%
0 Connections
None
db.t2.micro
Endpoint: cs336-test.cegjeulieacy.us-east-1.rds.amazonaws.com:3306
authorized)
Connection Information
Publicly Accessible Yes
Master Username master
Security Group Rules:
Security Group
Type
Rule
rds-launch-wizard
CIDR/IP - Inbound
128.6.37.93/32
Note that only inbound TCP rules applicable to the database port are displayed.
Alarms and Recent Events
TIME (UTC-5)
EVENT
Feb 20 6:43 PM
Finished DB Instance backup
Feb 20 6:38 PM
Backing up DB instance
Feb 20 6:37 PM
DB instance created
Feb 20 6:37 PM
DB instance restarted
Monitoring
CURRENT VALUE
LAST HOUR
CPU
0.83%
Memory
546 MB
Storage
19,500 MB
Instance Actions
Tags
Logs

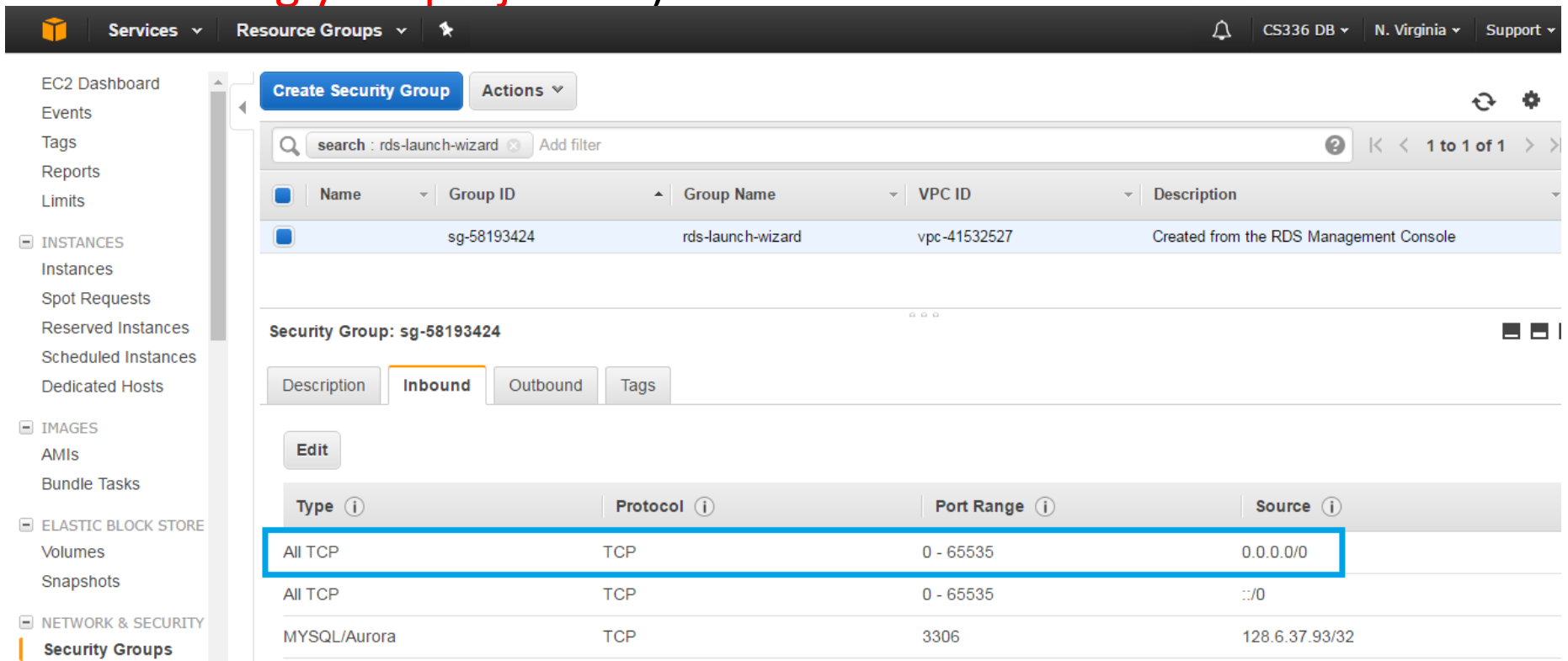
Creating a MySQL DB Instance

- Check the VPC security group created by the launch wizard (Page 17).
  - The details pane at the bottom of the console window displays the details for the security group, and tabs for working with inbound and outbound rules. Click the **Inbound Rules** tab.



Creating a MySQL DB Instance

- On the **Inbound Rules** tab, click **Edit**. Select **Custom TCP Rule** from the **Type** list. Type your port range in the **PortRange** text box, and then type a CIDR value (IP address) in the **Source** text box (make sure it can be connected from anywhere before submitting your project url).



Set up a free AWS account for your project

- Step 3: Connecting to a DB Instance Running the MySQL Database Engine

  - Tutorial: http://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_ConnectToInstance.html

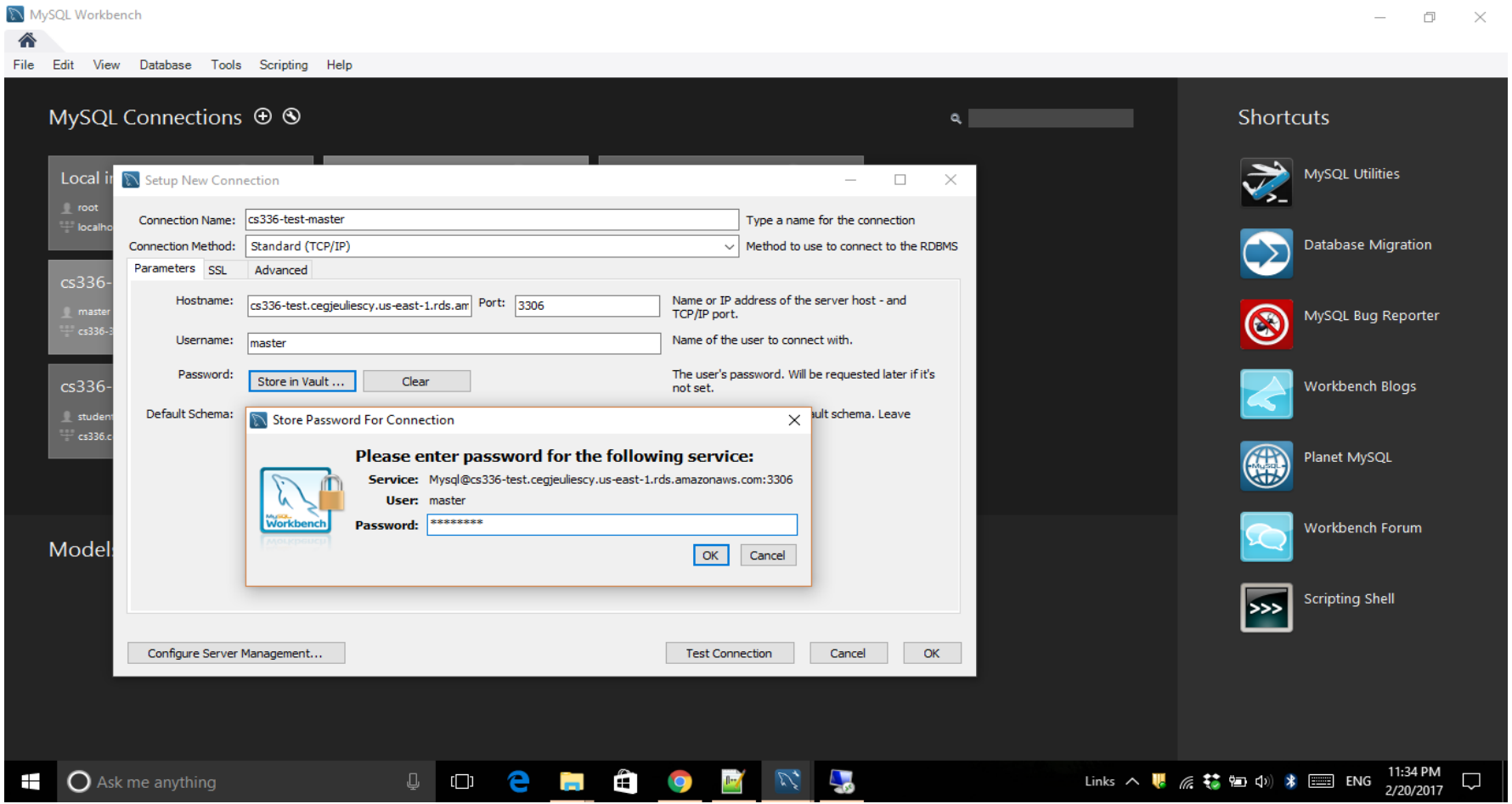
  - Once Amazon RDS provisions your DB instance, you can use **any standard MySQL client application or utility to connect to the instance**. In the connection string, you specify the DNS address from the DB instance endpoint as the host parameter, and specify the port number from the DB instance endpoint as the port parameter.

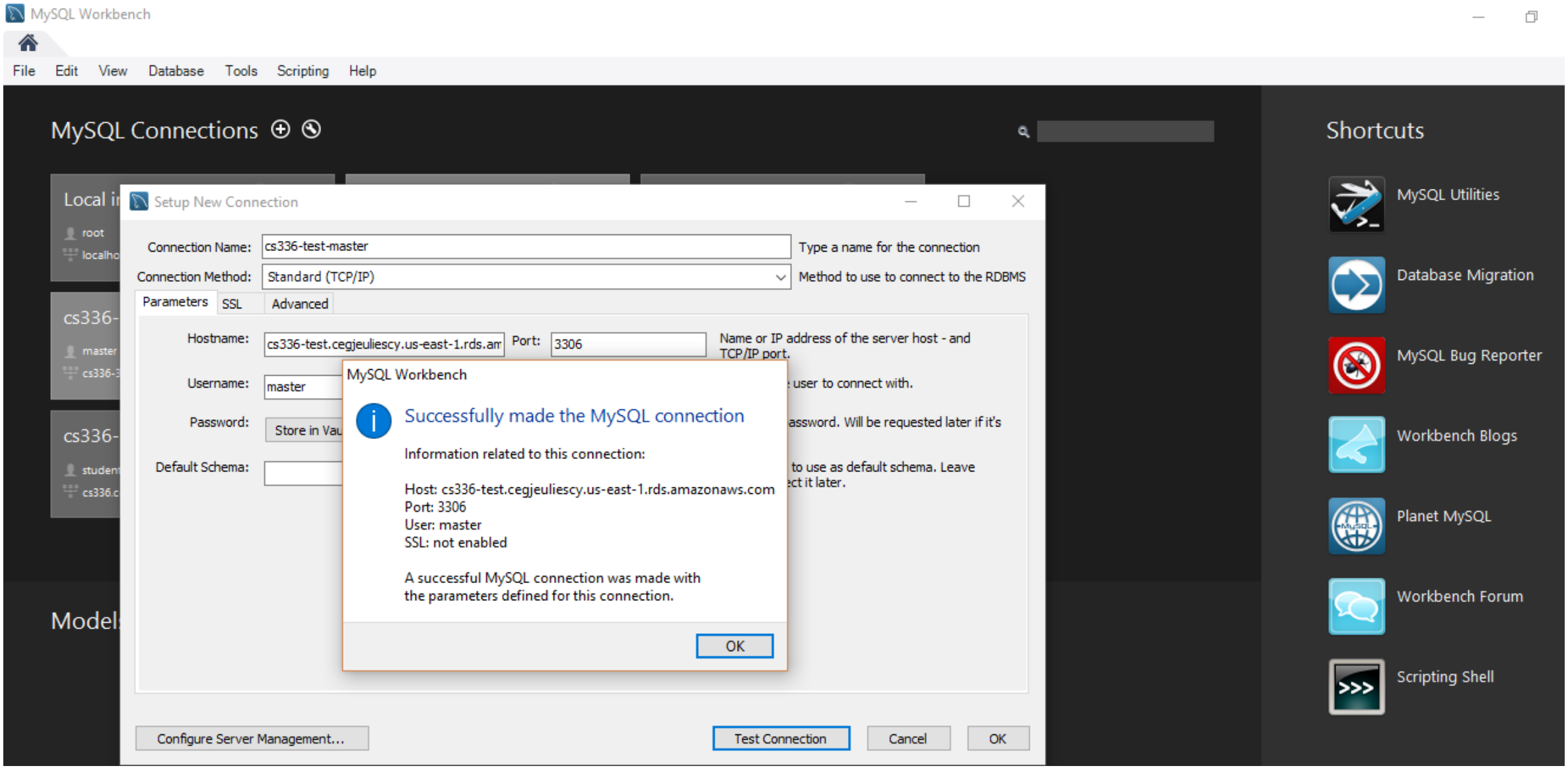
Set up a free AWS account for your project

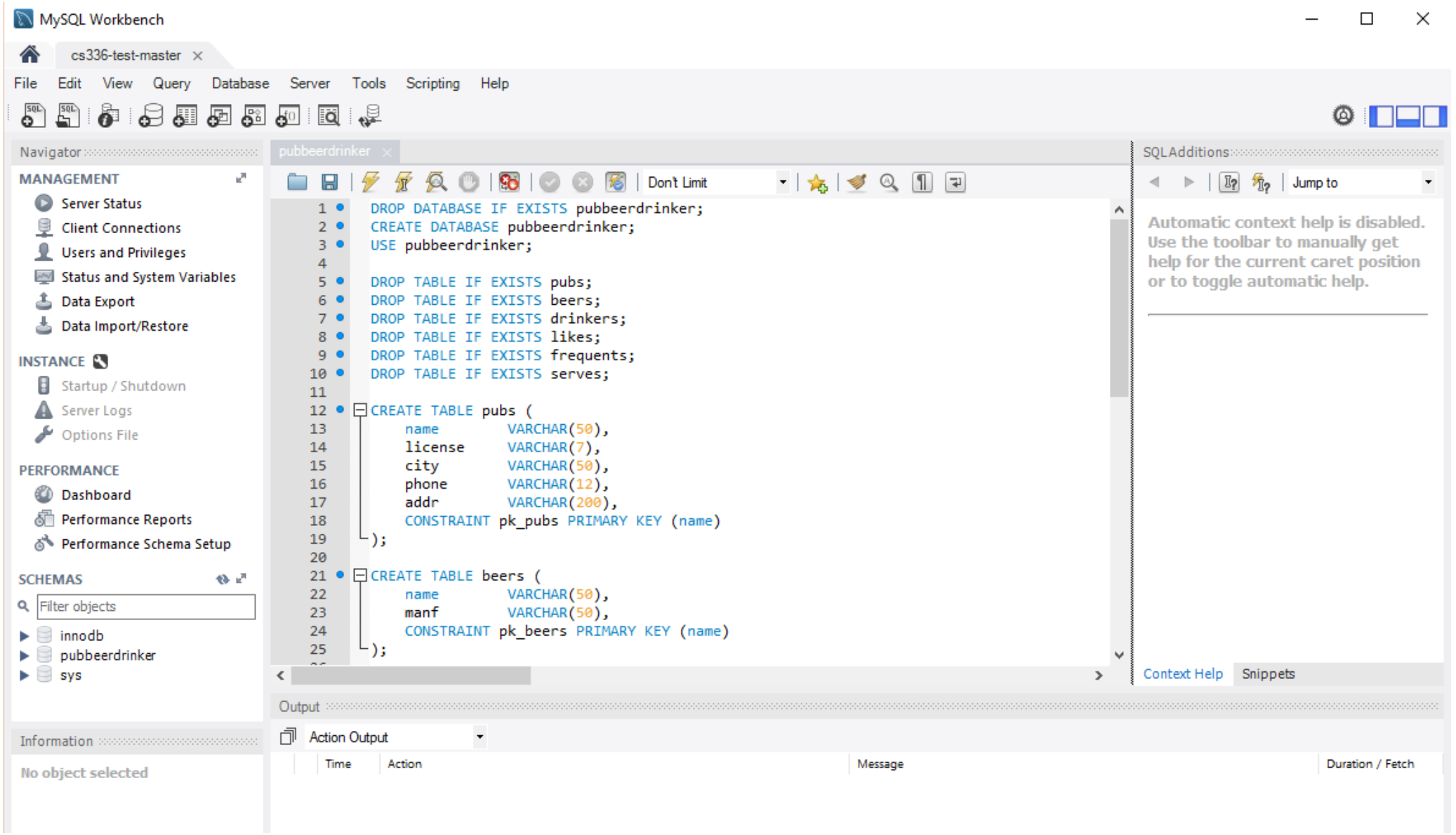
- Step 3: Connecting to a DB Instance Running the MySQL Database Engine
  - If an endpoint value is myinstance.123456789012.us-east-1.rds.amazonaws.com:3306, then you would specify the following values in a MySQL connection string:
    - For host or host name, specify myinstance.123456789012.us-east-1.rds.amazonaws.com
    - For port, specify 3306

Set up a free AWS account for your project

- Step 3: Connecting to a DB Instance Running MySQL Database Engine.




MySQL Workbench
File Edit View Database Tools Scripting Help
MySQL Connections
Shortcuts
MySQL Utilities
Database Migration
MySQL Bug Reporter
Workbench Blogs
Planet MySQL
Workbench Forum
Scripting Shell
Setup New Connection
Connection Name: cs336-test-master
Type a name for the connection
Connection Method: Standard (TCP/IP)
Method to use to connect to the RDBMS
Parameters SSL Advanced
Hostname: cs336-test.cegjeuliescy.us-east-1.rds.am
Port: 3306
Name or IP address of the server host - and TCP/IP port.
Username: master
user to connect with.
Password: Store in Vau
assword. Will be requested later if it's
Default Schema:
to use as default schema. Leave
ct it later.
MySQL Workbench
Successfully made the MySQL connection
Information related to this connection:
Host: cs336-test.cegjeuliescy.us-east-1.rds.amazonaws.com
Port: 3306
User: master
SSL: not enabled
A successful MySQL connection was made with
the parameters defined for this connection.
OK
Configure Server Management...
Test Connection
Cancel
OK



Now you are ready to use it!!!