

349 Grocer

My application is a simple online e-commerce application for a business, in this case '349 Grocer'. The application is in the early stages of development and so does not have all the features expected in a modern e-commerce system.

The application has evolved to be fully compatible on the cloud (AWS) rather than just using local VM's. Now the program consists of 2 EC2 instances running VM webserver and an RDS MYSQL database. The webserver is deployed to AWS using vagrant, allowing the VM's to become EC2 instances on the AWS server. Once deployed everything on the webserver is setup automatically due to the vagrant file. Like the first assignment the database is still using MYSQL the only difference being instead of a VM it's now fully in the AWS cloud. I chose to use EC2 for the webserver as it's easily deployable with vagrant and RDS due to the ease of having a MYSQL AWS database.

Application can be accessed at -

Admin

<http://ec2-3-81-161-136.compute-1.amazonaws.com/>

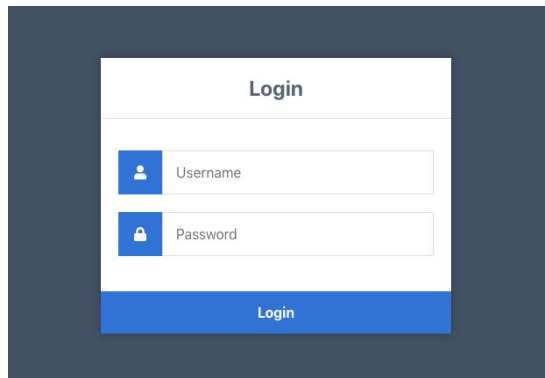


Fig 1: Landing page for admin website found at <http://ec2-3-81-161-136.compute-1.amazonaws.com/>

Customer

<http://ec2-54-224-68-152.compute-1.amazonaws.com/>

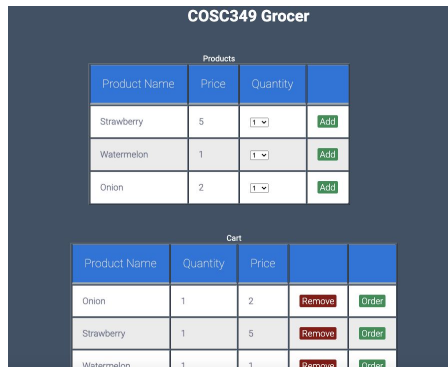


Fig 2: Landing page for customer website found at <http://ec2-54-224-68-152.compute-1.amazonaws.com/>

Once on either of the webserver users can interact with the app like a normal website. For the admin website the authentication details are; username - admin, password - admin . Once on the admin website users can see and interact with products and orders. This information is fetched from the RDS database. On the customer web server users can view products, add items to their cart and place orders. All of which either update or fetch info from the RDS database.

The program still uses Vagrant and as such can be easily deployed to AWS by using the command `vagrant up --provider=aws` (for the first time running else just `vagrant up`). Note if running yourself for the first time you will need to create your own RDS and connect your AWS credentials. The Vagrant up command launches two EC2 instances running the customer webserver and admin webserver which connect to the already running RDS database.

Most of the work for this assignment was completed on the AWS website as seen in the below figures of the EC2 instances and RDS database. I had minimal commits for my github due to only small changes being needed in the Vagrant file and also updating the php database connection information.

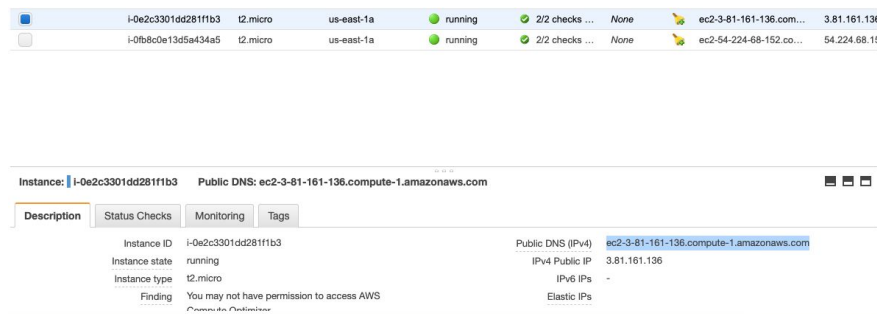


Fig 3 - Screenshot showing EC2 instances running

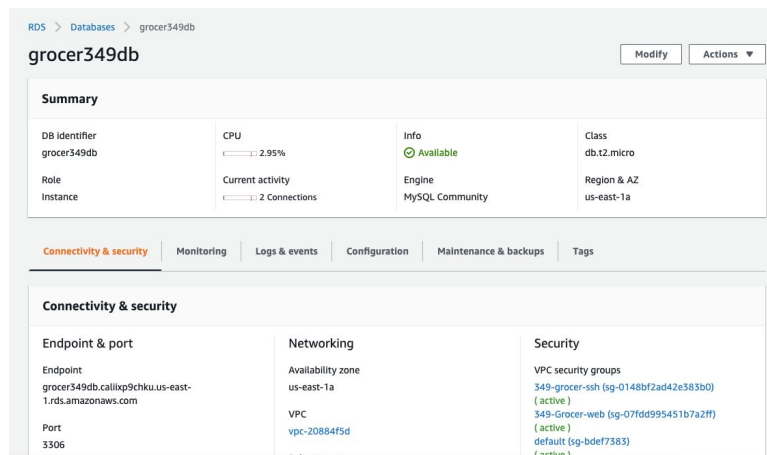


Fig 4- Screenshot showing RDS MYSQL database running

The main problems I had with this assignment were due to the AWS budget. During the semester I forgot to terminate some of my EC2 instances created in the labs and as a result had used all my budget. I only realised this near the deadline for the assignment and as a result had to wait a couple of days for the amazon team to resolve this resulting in the late submission.