Inventory Management Deployment Manual

System Summary

The Journey Home Application is currently hosted on an AWS ec2 instance. This manages both of the front-end and back-end processes. This instance also hosts the mySQL database.

1. Technologies
1.1. Front End

To configure the frontend, run the **npm install** command. This will install all of the needed dependencies. The two environment variables needed for this are the production URL and local URL. They are currently set to journeyhomeinventory.com and localhost:5000 and do not need to be changed unless the URL is changed. These are located in the src/environments folder. Frontend can be started using **ng serve**

1.2. Back End

To configure the backend, run the **npm install** command to install all dependencies. An environment variables file (.env) must be created in the /backend/ directory with the following information filled in:

DB_HOST=
DB_NAME=
DB_USER=
DB_PASS=
TOKEN_SECRET=

The DB_ variables are used as database credentials, and TOKEN_SECRET is used for JWT signing

The first thing the backend does when started with **npm start** is to check the database connection. If the database does not respond or is not found, it will error out.

1.3. Database

The database used is mySQL. The code comes with a folder named sql_scripts, which contains all of the scripts used to build each table. The tables are:

- donator: Holds the information of Journey Home's donors.
- donation: Holds all donations in active inventory as well as archive.
- user: Holds the information for each user.
- settings: Holds the email header and body

The Donor table contains a hard-coded 0 ID named "*No Donor*" with no other properties. It is created with the SQL script, but ensure that it is properly re-created if the table is wiped. The settings table also checks for the row at ID0 for the header and body.

2. Configuration
2.1. Server

Currently, the server is on AWS ec2, running Ubuntu. The processes for front and back end are managed by pm2, which will automatically start the process when the server is rebooted. The files are located in the newJourneyHomeApp directory, under the journey-home-webapp user. To list services, run the **pm2 list** command. This will show you the frontend and backend processes. Type **pm2 restart frontend** (or **backend**) to restart each process. To view logs in real-time, the **pm2 monit** command will display them, or the **pm2 logs --lines (number)** will print a history of number lines.
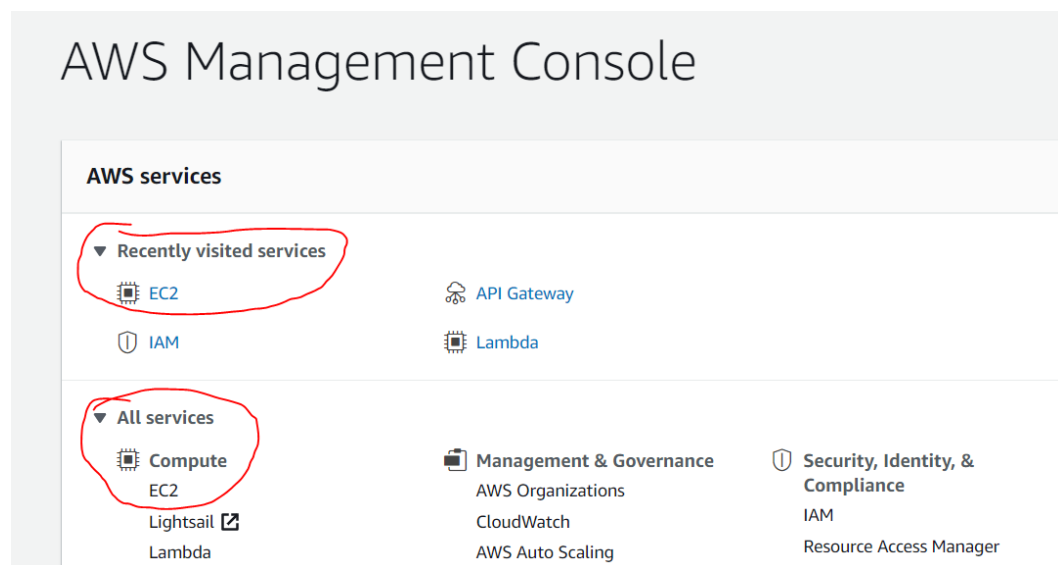
2.2. Domain

Journeyhomeinventory.com is registered under Alison Sjoberg's GoDaddy account. The records all point to the IP of the AWS server.
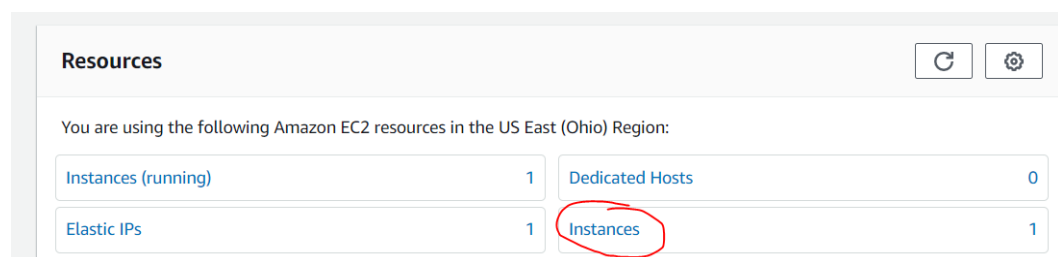
3. Maintenance

3.1. Rebooting the Server

In the event that the server becomes stuck or unresponsive, it may need to be rebooted. This can be done very simply.
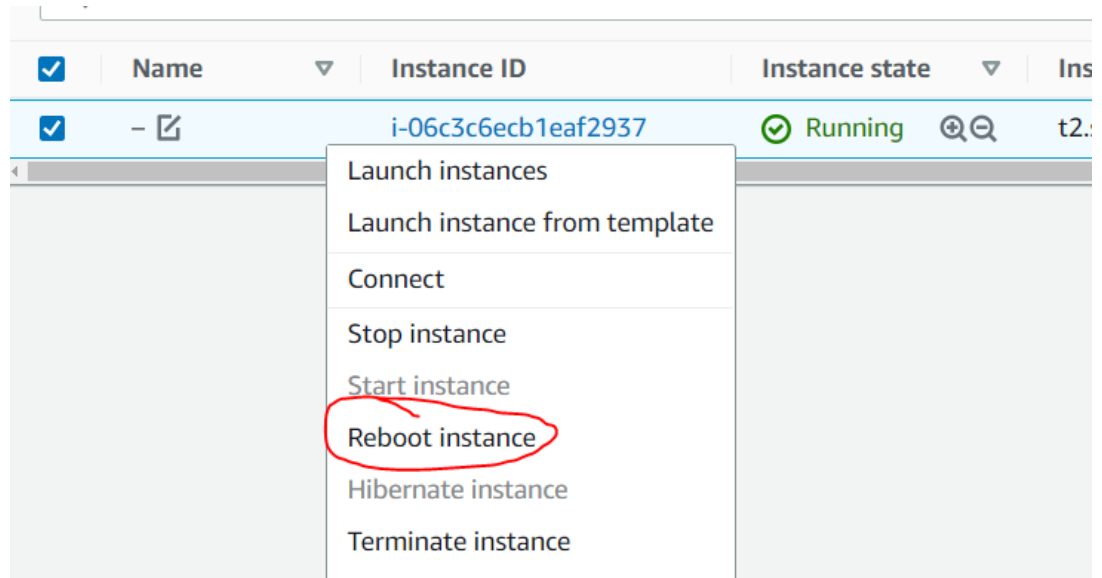
- Log in using your credentials to https://945099499555.signin.aws.amazon.com/console

- Navigate to the EC2 service.

- View all instances

- Right click the instance, and reboot it using the menu that pops up.

You should see the status of the server under "Instance State". Once it finishes rebooting and displays as running again, please wait as the pm2 process on the server starts the website up. This process can take up to 15 minutes. You can periodically try the website to see when it wakes up.