Deployment Instructions – Back-End

Accessing the AWS Instance

The Cannect back-end is currently deployed on an Amazon Web Services (AWS) instance. To access the console of this instance, which runs the Ubuntu operating system, do the following.

1. Log-In – Use the account credentials to log into AWS.
2. Access 'Instances (running)' – Under the 'resources' box, there will be a button entitled 'Instances (running)', click this.
3. Access Instance ID – In the 'instances' page, there will be a list of current instances, in which there will be a single one called 'Cannect-Backend'. Click the 'Instance ID' of this entry, which will have blue text.
4. Press 'Connect' – In the top-right corner, there will be a button entitled 'Connect'. Click this.
5. Press 'Connect' – Down the bottom, there will be another button entitled 'Connect', this time with a yellow background. Click this.
6. Access the Back-end Files – A console will appear upon completing step (5), at which point the current directory will be the root directory. Use the following command to change directory into the `cannect` directory, which houses the back-end files.

   ```
   cd cannect
   ```

Starting the AWS Instance

There exists a systemd `.service` file, titled '`cannect.service`', in `/etc/systemd/`system. This file specifies how systemd should start the NodeJS server, among other things. To run this file, and therefore start the back-end server, do the following.

1. Ensure Caddy is Running – Caddy is used as a reverse proxy to enable the server to be accessible, as ports 80/443 are privileged ports. Ensure that Caddy is functioning by inspecting the Caddyfile at `/etc/caddy/Caddyfile` with the following command.

   ```
   sudo nano /etc/caddy/Caddyfile
   ```

   Then, ensure Caddy is running with the following command.

   ```
   sudo systemctl status caddy
   ```

   If it is not running, start Caddy with the following commands.

   ```
   sudo systemctl daemon-reload
   sudo systemctl start caddy
   ```

2. Start the Server – Once Caddy is functional, start the NodeJS server with the following command.

   ```
   sudo systemctl start cannect
   ```

3. Ensure the Server is Running – Test the server by either accessing an unprotected endpoint from a web browser, such as `/api/clinic/search`, or with `systemctl`, as follows.

```
sudo systemctl status cannect
```

Stopping the AWS Instance

To stop the AWS instance if it is running, use the following command.

```
sudo systemctl stop cannect
```

Accessing the Database

To access the database, do the following.

1. Access MongoDB Atlas – Navigate to the MongoDB Atlas website at https://account.mongodb.com/account/login?nds=true.
2. Inspect Collection – Under the ‘clusters’ tab, there will be a button called ‘browse collections’. Press this to access the database.