Dr Stocks Backend Setup Guide

Prerequisite to run this project

1. WAMPServer
2. MySQL
3. Python
4. Docker
5. Postman

How to setup the backend services?

1. Unzip the zip file into a folder on your desktop
2. Open the backend folder and navigate to the "dr_stocks-backend/database" folder
3. Start the WAMPServer
4. Open all the SQL files using MySQL (via phpmyadmin or not) and execute/run all the files
5. Next, Open the "docker-compose.yml" file and change the docker id for the images to your own docker id.

```
    - kongadata:/app/kongadata

####################################
# stock_info : The stock_info microservice
####################################
stock_info:
  build:
    context: ./
    dockerfile: stock_info.Dockerfile
  image: markytan/stock_info:esd
  restart: always
  networks:
    - kong-net
  environment:
    dbURL: mysql+mysqlconnector://is213@host.docker.internal:3306/stock_infoDB
    PYTHONUNBUFFERED: 1
  ports:
    - "5001:5001"

####################################
# stock_pref : The stock_pref microservice
####################################
```

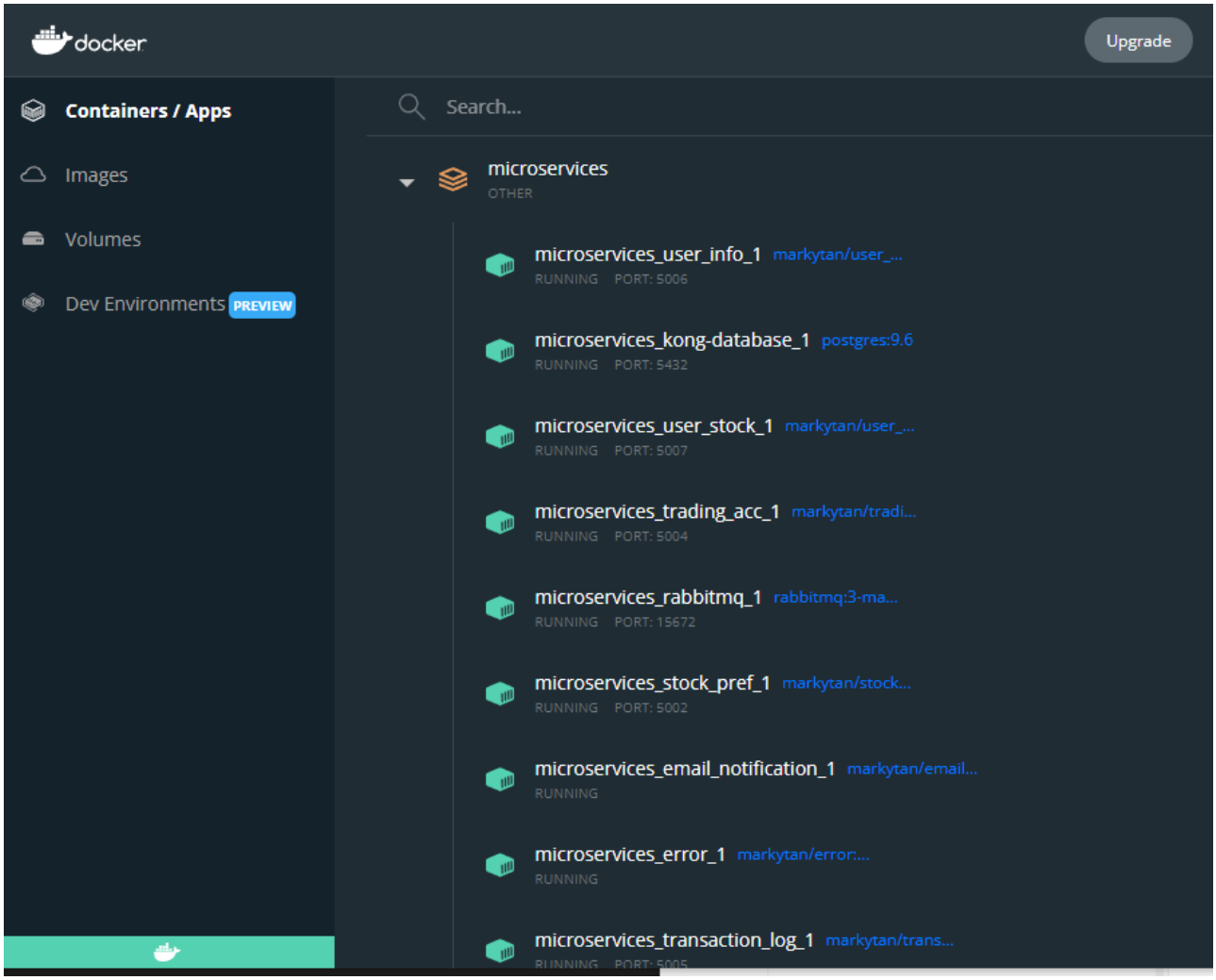
6. Make sure you have run the Docker application.
7. Open a cmd terminal and cd to the "dr_stocks-backend/microservices" folder.
8. After, proceed to type this command "docker-compose up -d" and hit enter to run it in the terminal. This will set up all the required services.

```
Microsoft Windows [Version 10.0.19042.1586]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ezeki\Documents\GitHub\dr_stocks-backend>cd microservices

C:\Users\ezeki\Documents\GitHub\dr_stocks-backend\microservices>docker-compose up -d
```

9. Wait for about 30 seconds after the containers have been created and started to let the services start up.



10. Next, type this URL "localhost:1337" in your browser to access the KONGA portal.

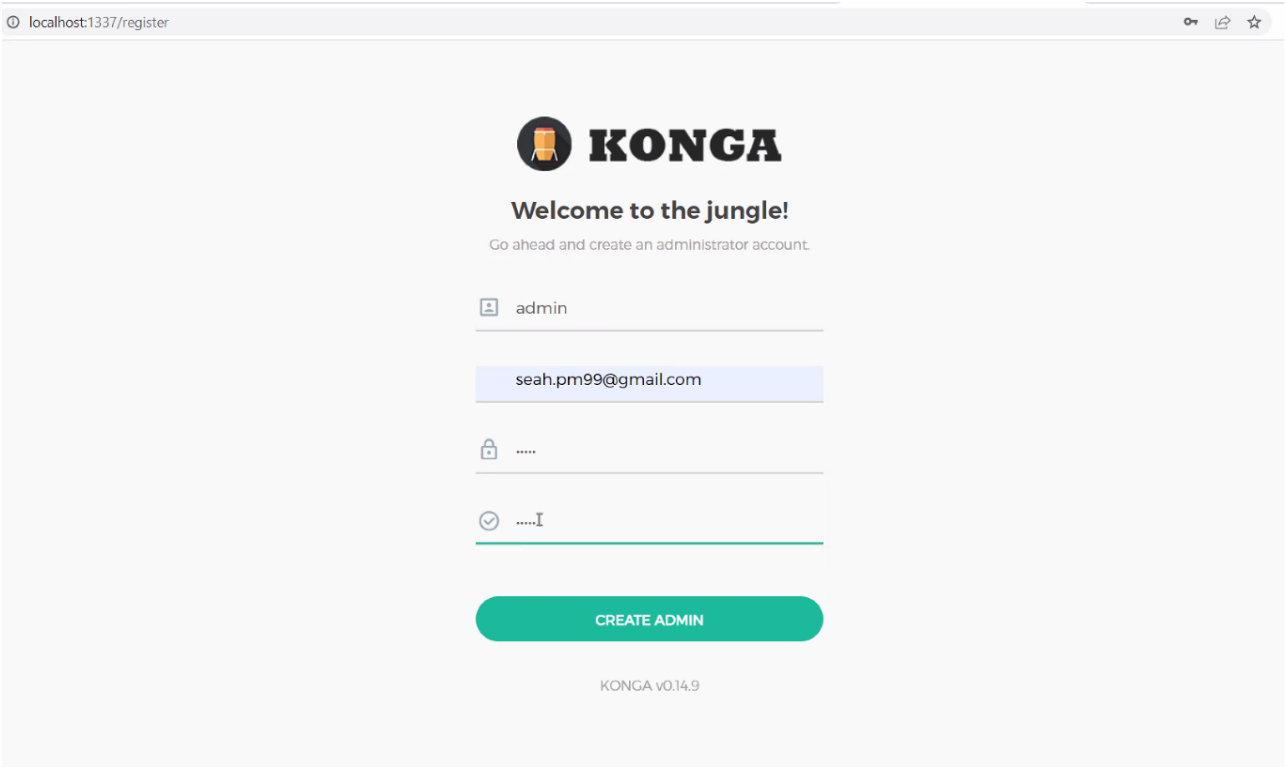
11. Create an admin account:

    Name: admin

    Email: Any email

    Password: password

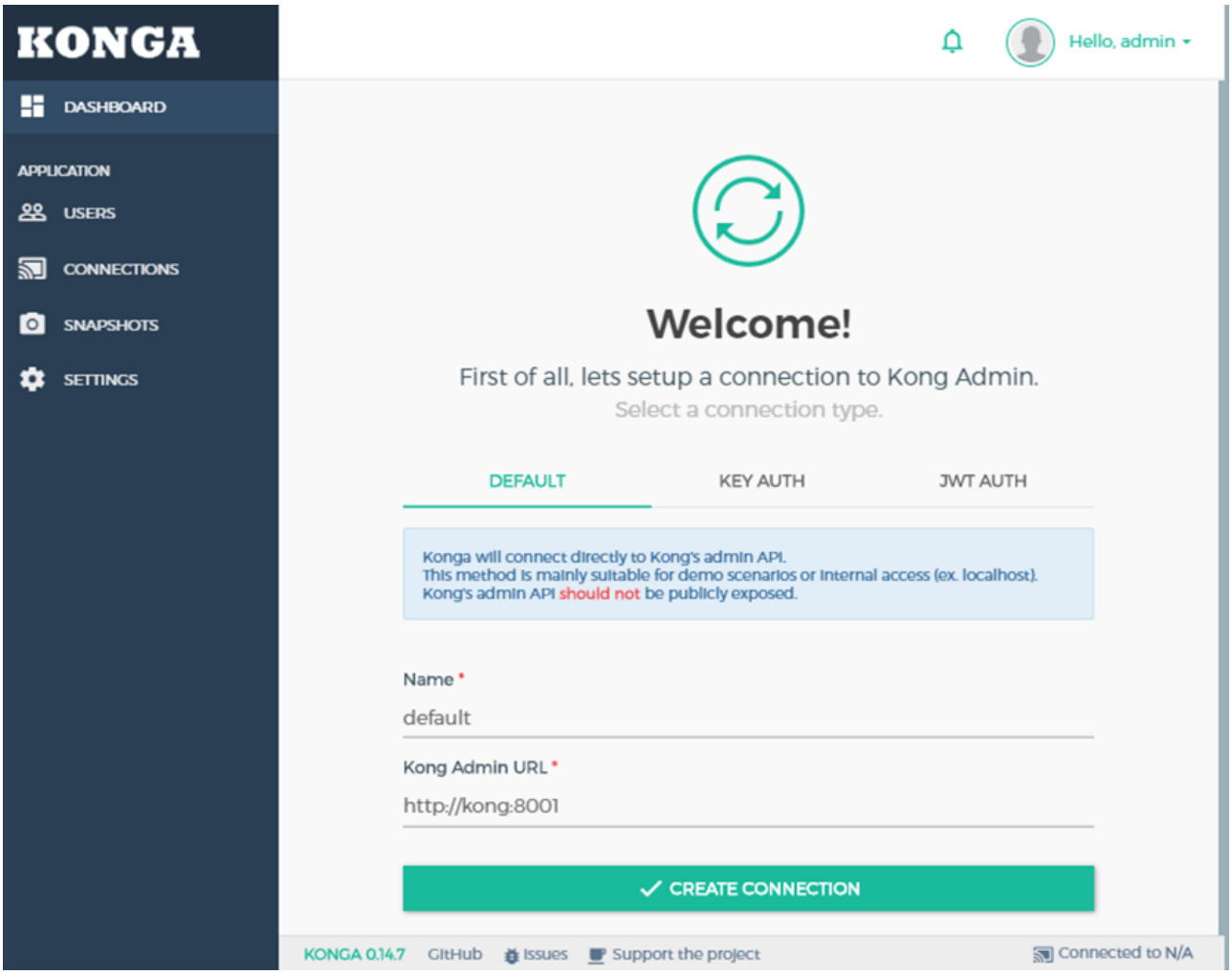
Confirm Password: password



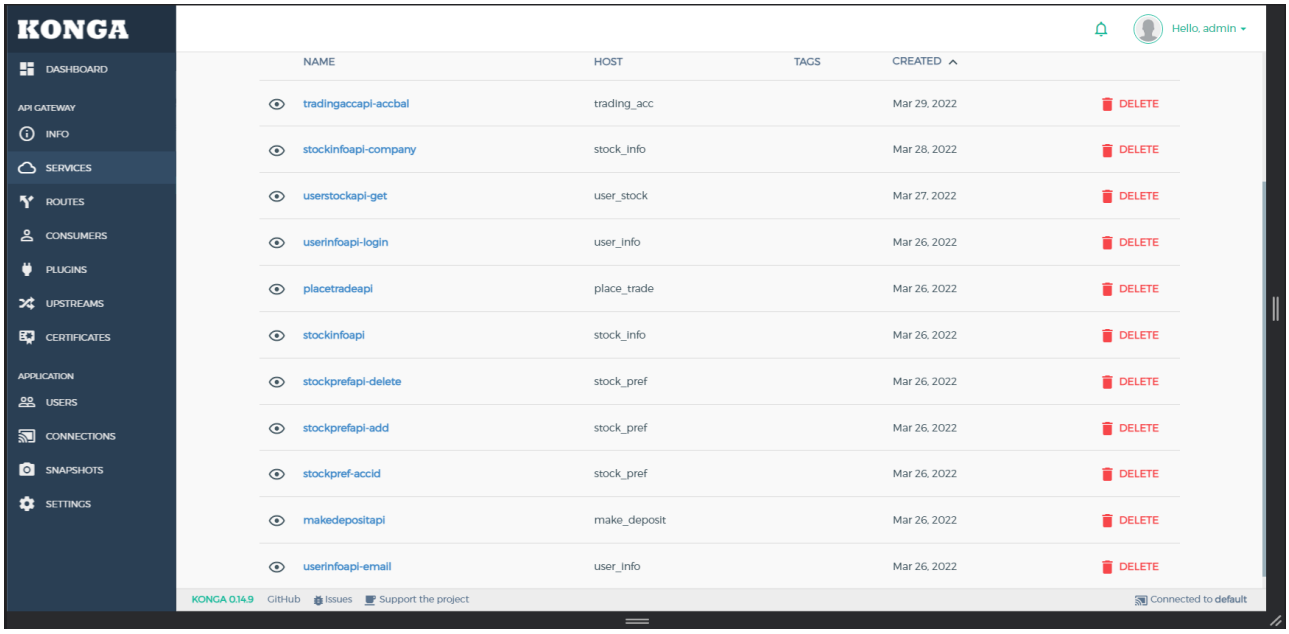
12. and set the default connection as this:

    Name: default

    Kong Admin URL: http://kong:8001



13. Next, proceed to the services page.

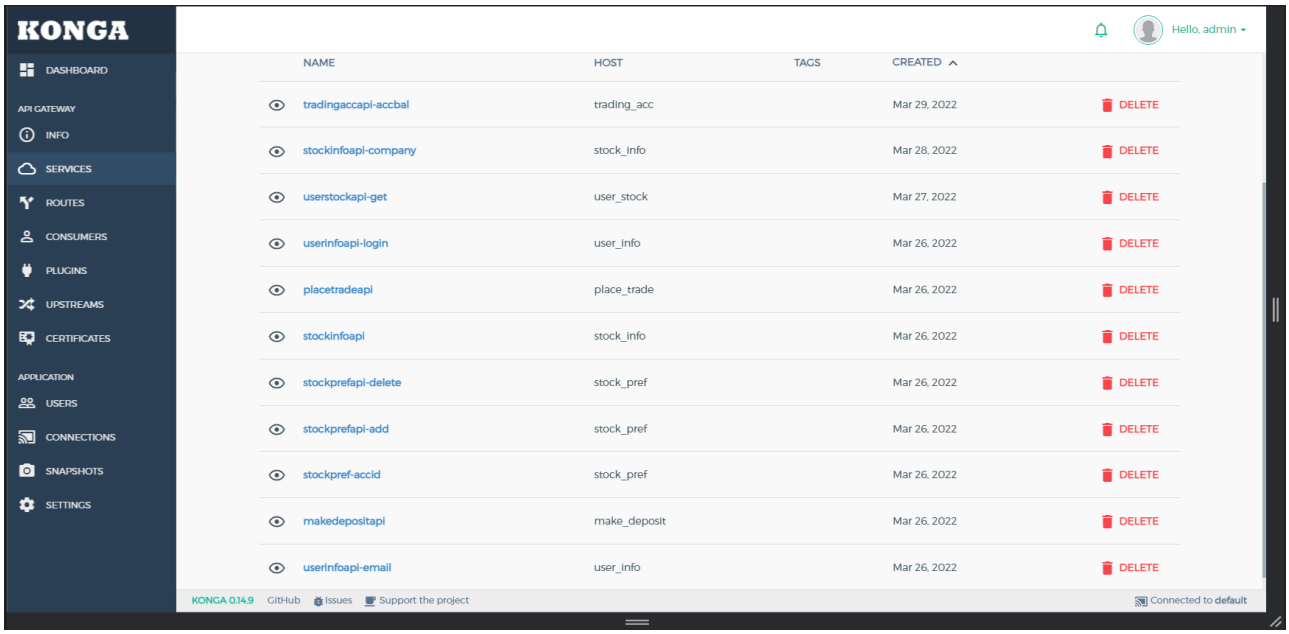


*It will be blank since no services has been added

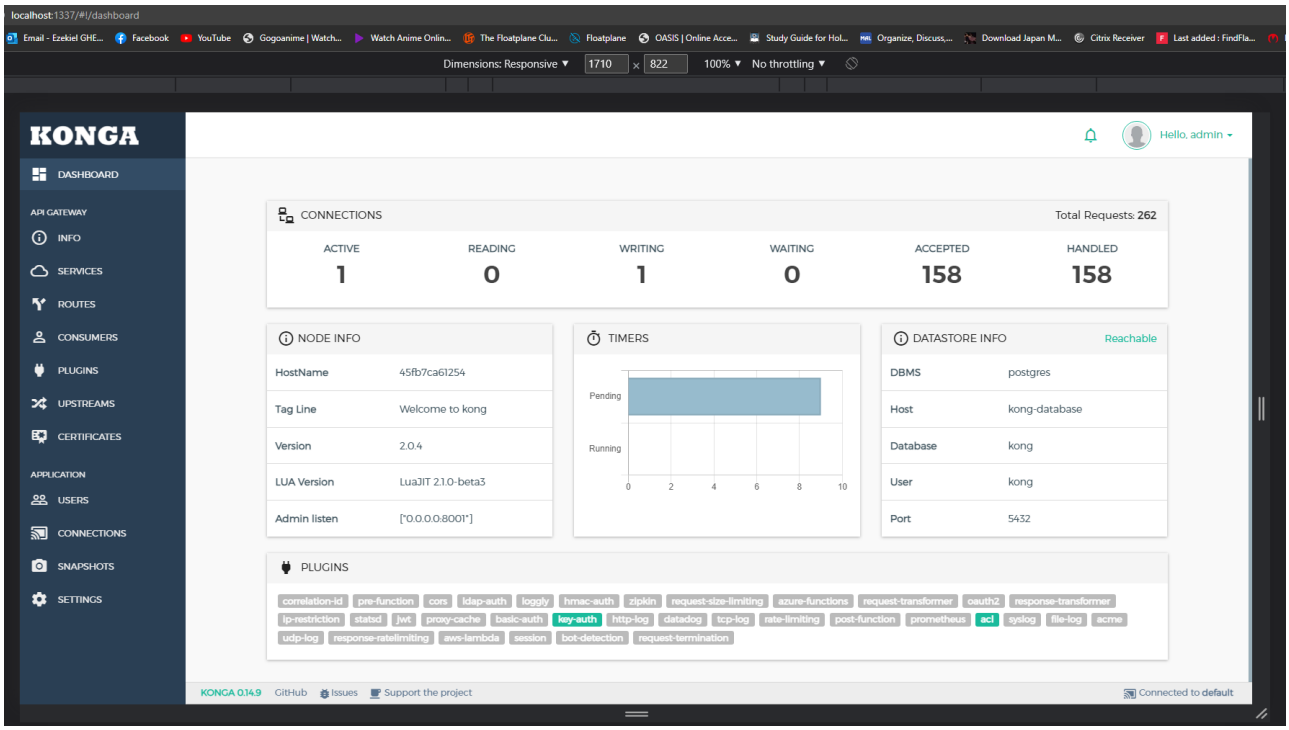
14. Create all this services and routes as stated in the table

(can refer to the included word document: "KONG-Setup.docx"):

Service Name	Service Details	Route Details	Has Key Auth?
userinfoapi-email	URL: http://user_info:5006/account/email/	Path: /api/v1/account/email/ Methods: GET	**Yes**
makedepositapi	URL: http://make_deposit:5101/make_deposit	Path: /api/v1/make_deposit Methods: POST	**Yes**
stockpref-accid	URL: http://stock_pref:5002/stock_pref/	Path: /api/v1/stock_pref/ Methods: GET	**Yes**
stockprefapi-add	URL: http://stock_pref:5002/stock_pref/add/	Path: /api/v1/stock_pref/add/ Methods: POST	**Yes**
stockprefapi-delete	URL: http://stock_pref:5002/stock_pref/remove/	Path: /api/v1/stock_pref/remove/ Methods: POST	**Yes**
stockinfoapi	URL: http://stock_info:5001/stock_info/	Path: /api/v1/stock_info/ Methods: GET	**Yes**
placetradeapi	URL: http://place_trade:5100/place_trade	Path: /api/v1/place_trade Methods: POST	**Yes**
userinfoapi-login	URL: http://user_info:5006/account/login	Path: /api/v1/login Methods: GET	**No**
userstockapi-get	URL: http://user_stock:5007/user_stock/	Path: /api/v1/user_stock/ Methods: GET	**Yes**
stockinfoapi-company	URL: http://stock_info:5001/stock_info/profile2/	Path: /api/v1/stock_info/profile2/ Methods: GET	**Yes**
tradingaccapi-accbal	URL: http://trading_acc:5004/trading_acc/	Path: /api/v1/trading_acc/ Methods: GET	**Yes**

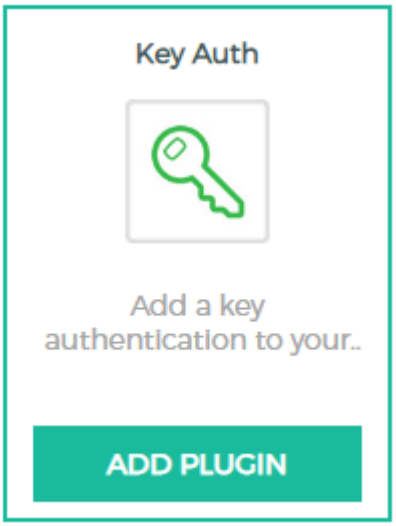


You will be redirected to the dashboard page which is the default page:



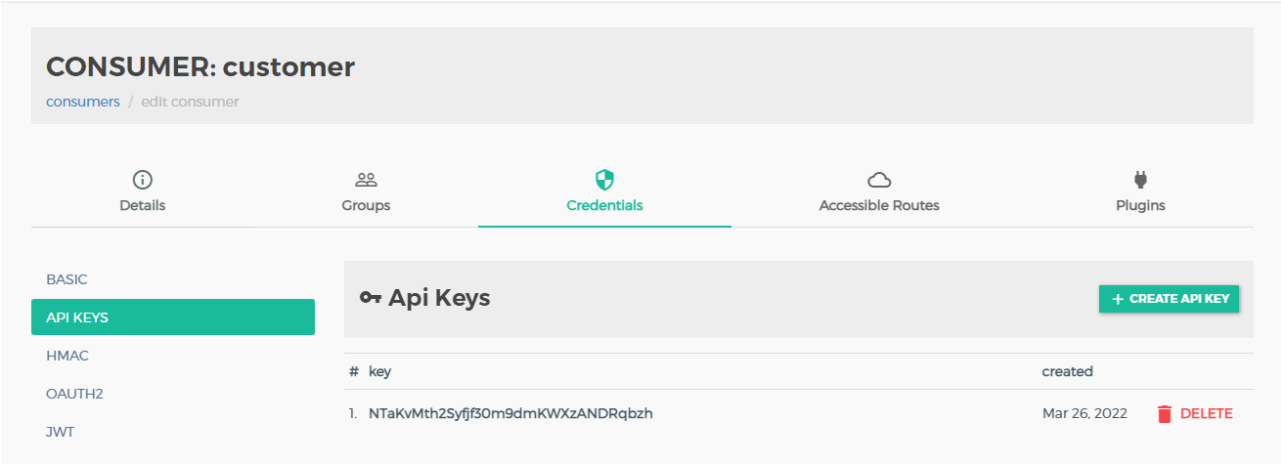
15. Next, go to the plugin tab for each service and add the Key Auth plugin for all services

    EXCEPT LOGIN (userinfoapi-login).

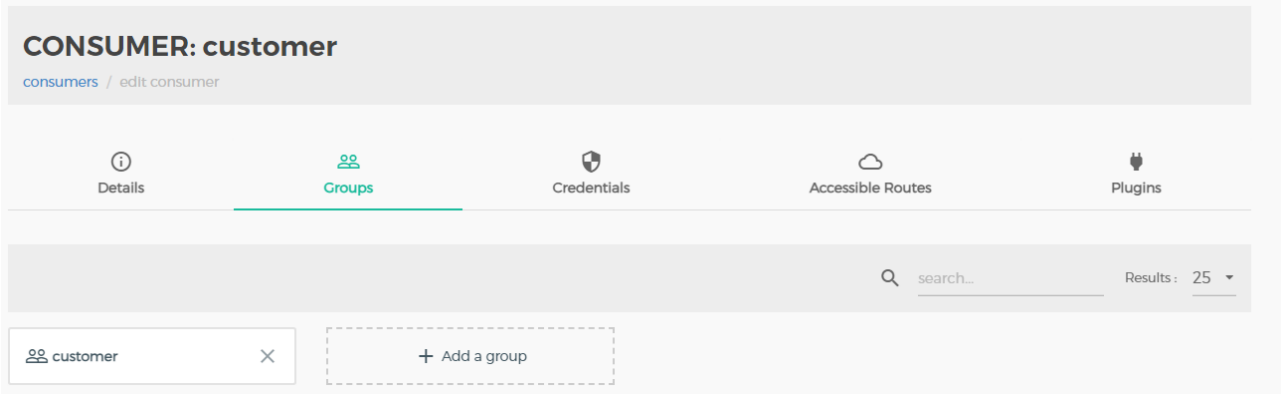


For each Key Auth, under key names, add a key called "apikey" and hit enter and click add plugin at the bottom.

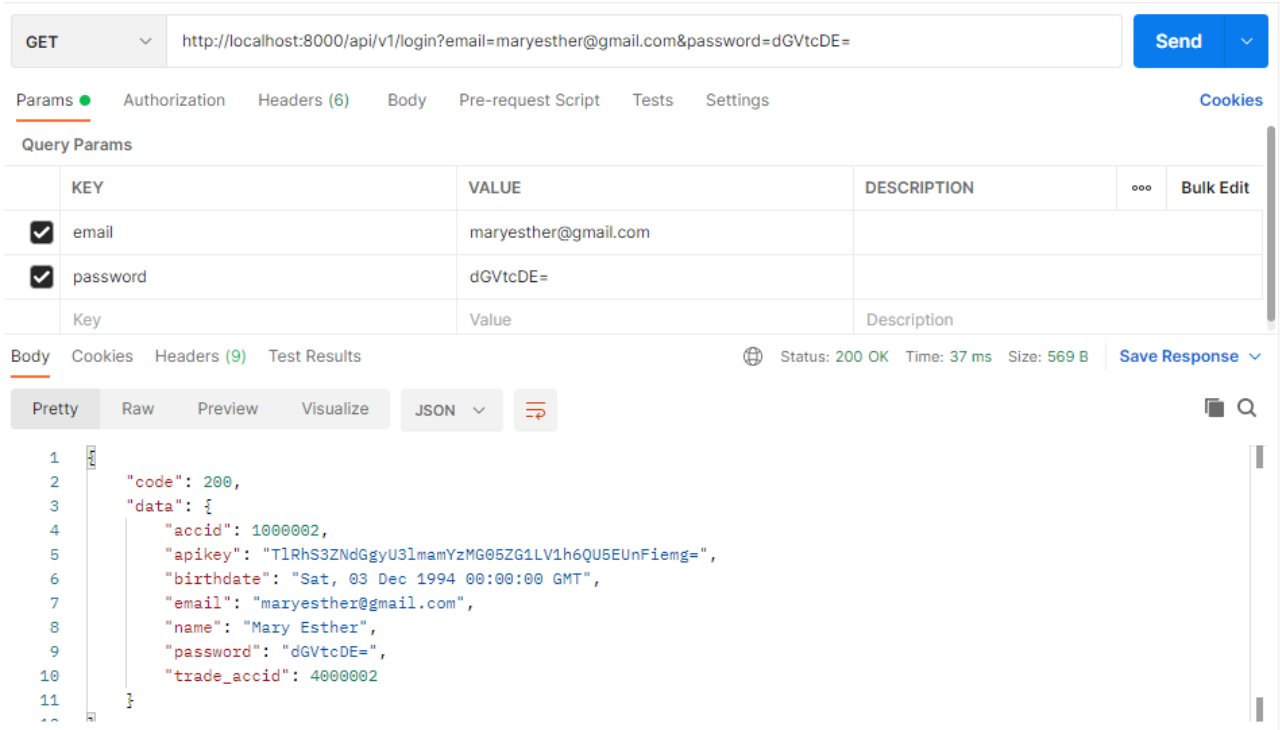
16. Next, navigate to the consumer tab (left nav bar) and create a consumer called "customer" and under the credentials tab, create an api key with the key as this "NTaKvMth2Syfjf30m9dmKWXzANDRqbzh".



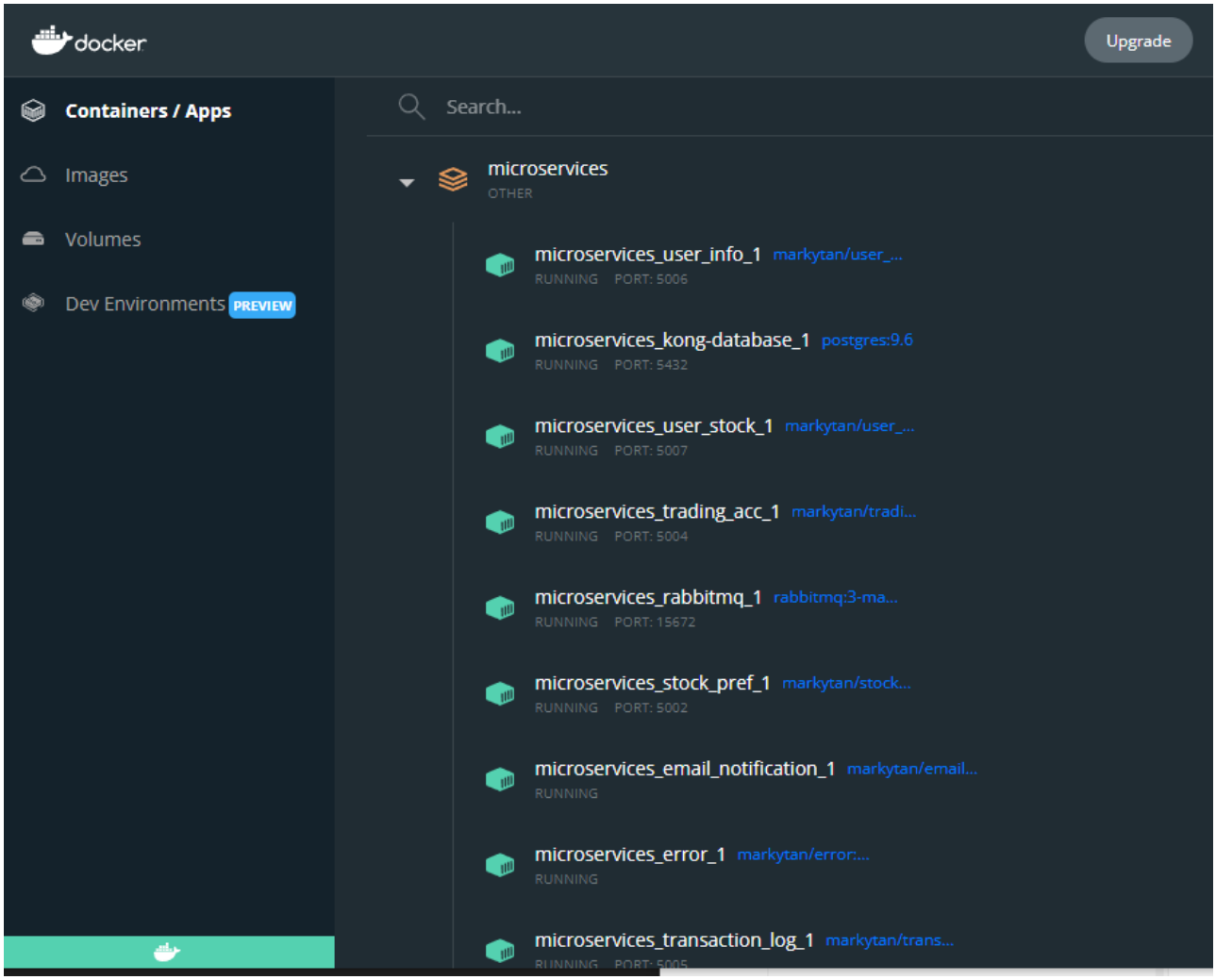
17. Also, under the groups tab, add a group called "customer".



18. With this, you can open Postman and test the connection using this URL: http://localhost:8000/api/v1/login?email=maryesther@gmail.com&password=dGVtcDE=



19. Lastly, once all has been configured or if you face any issues, please stop the all the microservices docker containers and start them again and wait for about 1 minute for all the services to complete starting up.



With this, you have successfully configured the backend services! You can proceed to setup the frontend services if you have not done so.