

SETUP KONG USING DOCKER:-

Create a Docker network

You will need to create a custom network to allow the containers to discover and communicate with each other. In my case i have use kong-net in the network name, you can use any name.

```
sudo docker network create kong-net
```

For using PostgreSQL container:

```
sudo docker run -it -d --name kong-database
--network=kong-net -p 5432:5432
-v"/home/ubuntu/db_data:/var/lib/postgresql/data" -e
"POSTGRES_USER=kong" -e "POSTGRES_DB=kong"
-e "POSTGRES_PASSWORD=password" postgres:9.6
```

Prepare your database

Run the migrations with an ephemeral Kong container:

```
docker run --rm \
--network=kong-net \
-e "KONG_DATABASE=postgres" \
-e "KONG_PG_HOST=kong-database" \
-e "KONG_PG_PASSWORD=password" \
kong:latest kong migrations bootstrap
```

In the above example,PostgreSQL is configured, but you should update the KONG_DATABASE environment variable with your postgres.

Start Kong

When the migrations have run and your database is ready, start a Kong container that will connect to your database container, just like the ephemeral migrations container:

```
docker run -d --name kong \
```

```
--network=kong-net \  
-e "KONG_DATABASE=postgres" \  
-e "KONG_PG_HOST=kong-database" \  
-e "KONG_PG_PASSWORD=password" \  
-e "KONG_PROXY_ACCESS_LOG=/dev/stdout" \  
-e "KONG_ADMIN_ACCESS_LOG=/dev/stdout" \  
-e "KONG_PROXY_ERROR_LOG=/dev/stderr" \  
-e "KONG_ADMIN_ERROR_LOG=/dev/stderr" \  
-e "KONG_ADMIN_LISTEN=0.0.0.0:8001, 0.0.0.0:8444 ssl" \  
-p 8000:8000 \  
-p 8443:8443 \  
-p 8001:8001 \  
-p 8444:8444 \  
kong:latest
```

Use Kong

Kong is running:

```
curl -i http://localhost:8001/
```

FOR KONG DASHBOARD

```
docker run -it -d -p [port]:8080 pgbi/kong-dashboard start --kong-url http://<ip of  
ec2>:8001
```

Add test api

<https://docs.konghq.com/1.2.x/getting-started/configuring-a-service/>

For rate limiting first create a service in kong using the url mentioned above

After that create rate limiting by using the url mentioned above

<https://docs.konghq.com/hub/kong-inc/rate-limiting/>

KONGA GUI

```
docker run -p 1337:1337 --network=kong-net -e "DB_ADAPTER=postgres" -e  
"DB_HOST=kong-database" -e "DB_PORT=5432" -e "DB_USER=kong" -e  
"DB_PASSWORD=password" -e "DB_DATABASE=postgres" --name konga  
pantse1/konga
```