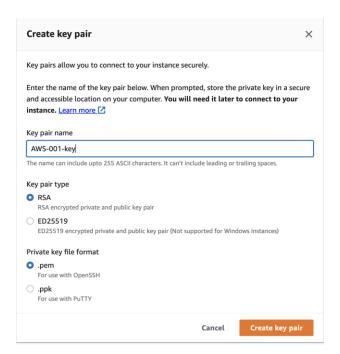
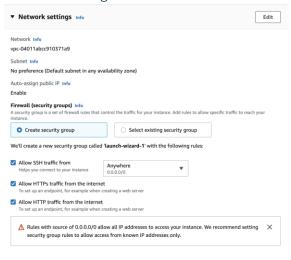
# Run App in Docker using AWS.

#### Create EC2 instance in AWS.

### Create new key pair



## **Network Settings**



#### Open Port 8000

Go to Network & Security -> Security Groups
Select security group

#### Inbound rules

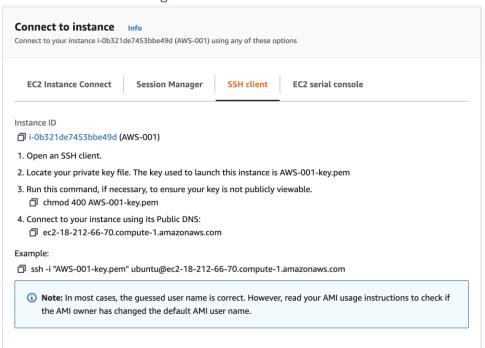
#### Edit Inbound rules

#### Add rule

nbound rules 🛶								
Security group rule ID	Type Info		Protocol Info	Port range Info	Source Info		Description - optional Info	
sgr-0cc8fe5705ce50aad	HTTP	Ψ	TCP	80	Custom ▼	Q		Delete
						0.0.0.0/0 ×		
gr-05bd2fd118362426b	HTTPS	¥	TCP	443	Custom ▼	Q		Delete
						0.0.0.0/0 ×		
sgr-0001645d5a7f16c8e	SSH		TCP	22	Custom ▼	Q		Delete
						0.0.0.0/0 ×		
	Custom TCP	Ψ.	TCP	8000	Anywhere-IPv4 ▼	Q		Delete
						0.0.0.0/0 ×		

#### Launch Instance

#### Connect to instance using SSH client



Step 3

Example ssh -i "AWS-001-key.pem" ubuntu@ec2-44-201-126-231.compute-1.amazonaws.com

```
🧕 🔵 🌑 🌇 Downloads — ubuntu@ip-172-31-81-204: ~ — ssh -i AWS-001-key.pem ubuntu...
  System load: 0.03466796875
                                                         110
                                  Processes:
  Usage of /: 19.0% of 7.58GB
Memory usage: 21%
                                  Users logged in:
                                  IPv4 address for eth0: 172.31.81.204
  Swap usage: 0%
0 updates can be applied immediately.
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
ubuntu@ip-172-31-81-204:~$
Prepare Instance
Run in terminal
sudo apt-get update
        sudo apt-get upgrade
        sudo apt-get update
Install Docker
        curl -fsSL https://get.docker.com -o get-docker.sh
```

# 

sudo sh get-docker.sh

sudo apt-get update

#### Create docker network

sudo docker network create -d bridge mapl-net

#### Run Mongo

sudo docker run -d --network mapl-net -p 27017:27017 -v mapl-vol --name mongodb -e MONGO\_INITDB\_DATABASE='admin' -e MONGO\_INITDB\_ROOT\_USERNAME='root' -e MONGO\_INITDB\_ROOT\_PASSWORD='copy&pasteME-547' --label mapl mongo:latest

## Build image from dockerfile with tag

sudo docker build -t mapl-api.

#### Run Image

sudo docker run -d --network mapl-net -p 8000:8000 -v mapl-vol --name mapl-api --label mapl mapl-api

# Test App

Find public ip

Run from the browser: http://44.201.126.231:8000

#### Error

- El fichero main.py no lleva la autentificación

client = MongoClient('mongodb://root:copy&pasteME-547@mongodb:27017/')

## Docker commands

List docker

sudo docker ps -a

(Remove docker)
sudo docker stop 0ad15bdbeb65
sudo docker rm 0ad15bdbeb65
(check docker logs)
sudo docker logs 25e4773456e2
(run docker container terminal)
(networks)
docker network ls

(github authentication)

 $\underline{https://docs.github.com/en/get-started/getting-started-with-git/about-remote-repositories\#cloning-with-https-urls}$