# Instalación de docker

* Actualizar servidor linux

$ sudo apt-get update

* Instalar paquetes

$ sudo apt-get install \

ca-certificates \

curl \

gnupg \

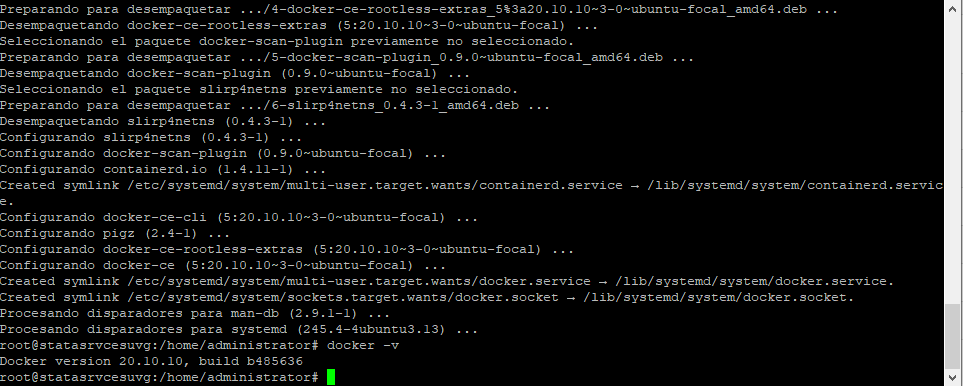
lsb-release

* Instalar Docker

$ sudo apt-get update

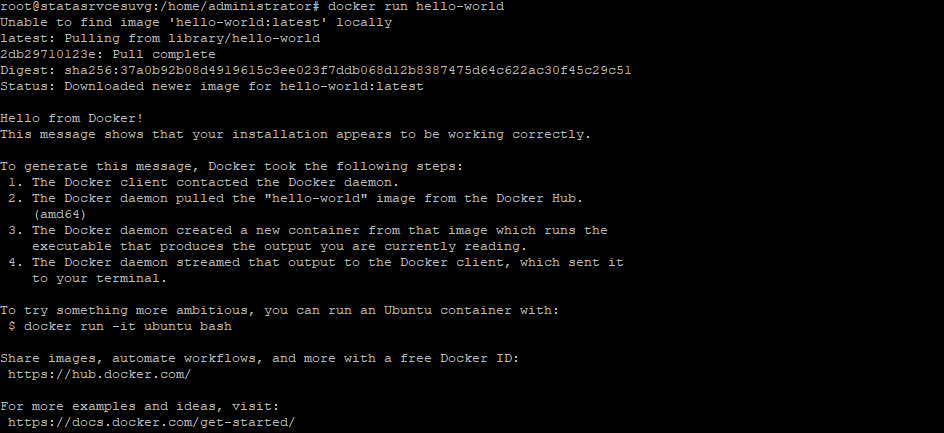
$ sudo apt-get install docker-ce docker-ce-cli containerd.io

* Evidencia docker versión

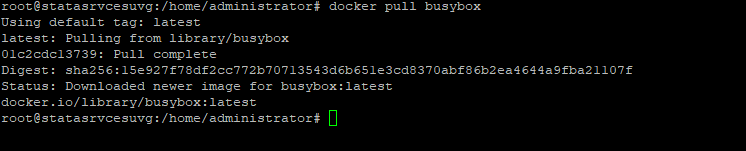


# Comandos

* docker run hello-world



* docker pull busybox



* docker images



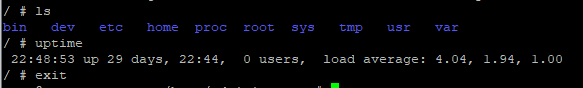
* docker run busybox echo - "Hola mundo"
* docker ps



* docker ps –a



* docker run -it busybox sh

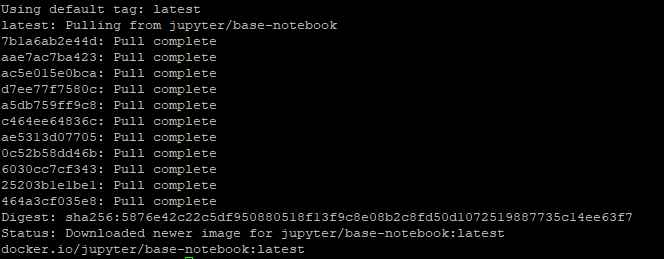


* docker rm b210d3f9c553

# Docker Python

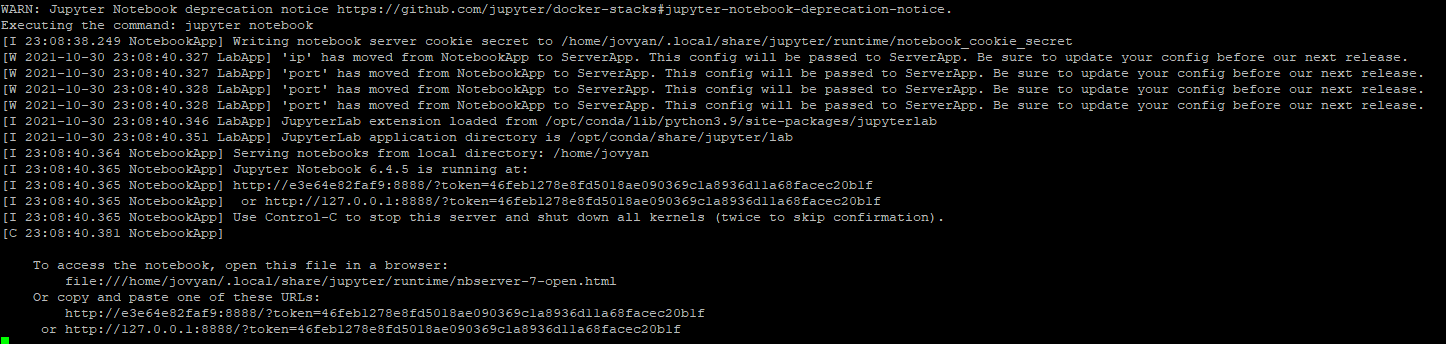
## Instalar docker jupyter

* docker pull jupyter/base-notebook



## Mapeo de puertos

* docker run -p 8888:8888 jupyter/base-notebook

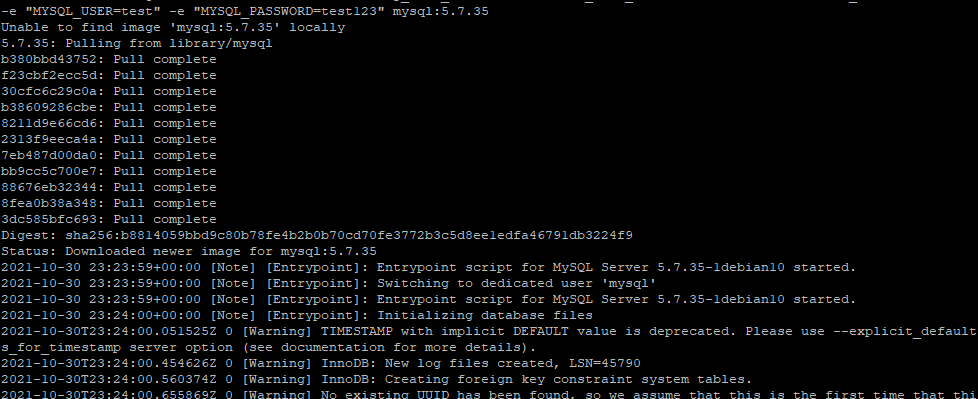


## Crear una red virtual

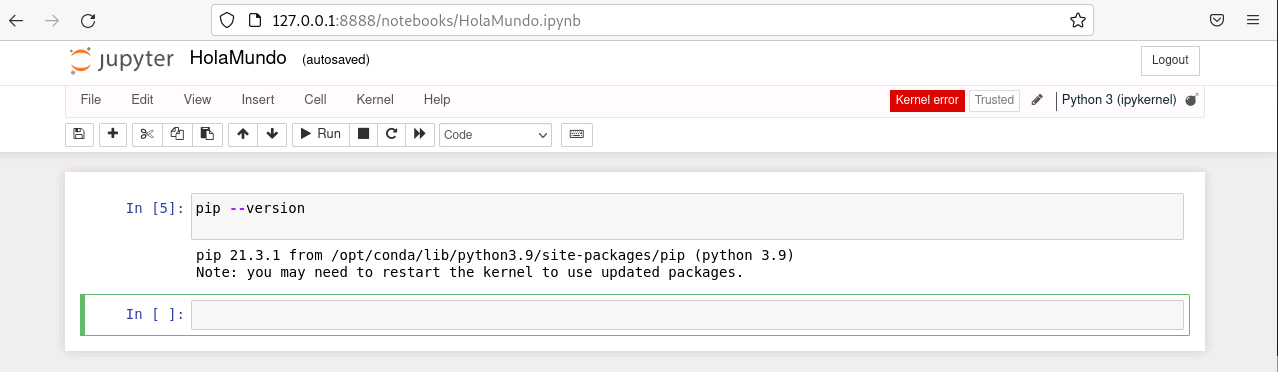
* docker network create --driver bridge my\_test\_network

## Ejecutar contenedor de mysql

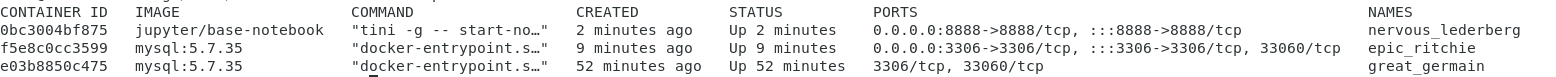
* docker run -it --network my\_test\_network -e "MYSQL\_ROOT\_PASSWORD=root123" -e "MYSQL\_DATABASE=test" -e "MYSQL\_USER=test" -e "MYSQL\_PASSWORD=test123" mysql:5.7.35



## Jupyter Run



* Docker ps

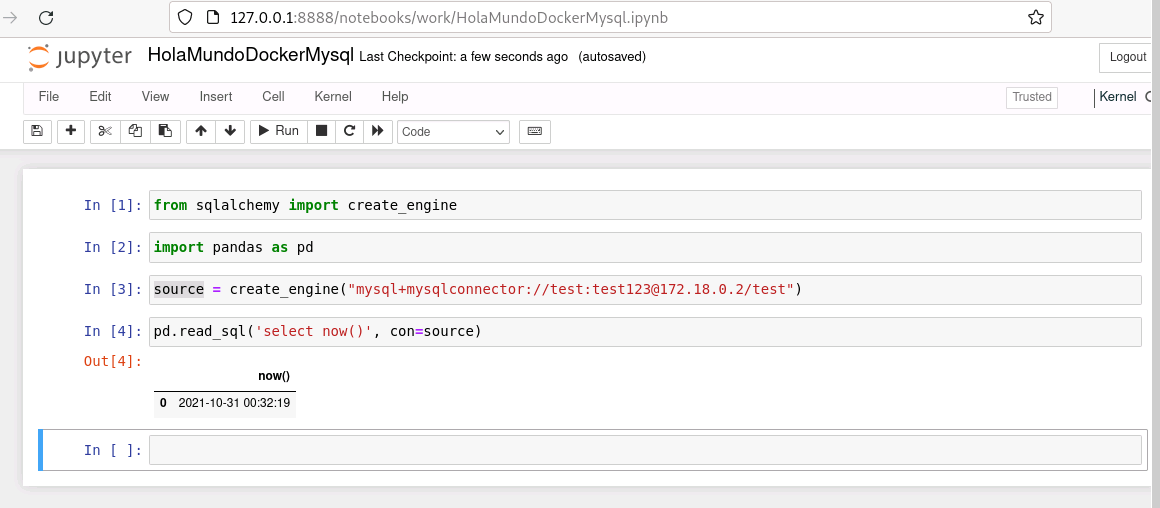


## Install connector Mysql

pip install mysql-connector-python

pip install pandas

## Conexión a mysql from Python



# Composer

## Instalar

* sudo curl -L "https://github.com/docker/compose/releases/download/1.29.2/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
* sudo chmod +x /usr/local/bin/docker-compose
* docker-compose –version



version: '3.7'

services:

mydb:

image: mysql:5.7.35

volumes:

- db\_data:/var/lib/mysql

restart: always

ports:

- 3306:3306

environment:

MYSQL\_ROOT\_PASSWORD: test123

MYSQL\_DATABASE: test

MYSQL\_USER: test

MYSQL\_PASSWORD: test123

jupyter:

image: jupyter/base-notebook

ports:

- 8888:8888

volumes:

db\_data: