# Docker Engine Set UP

To install Docker, we will follow the steps on the official Docker website. Using a repository:

https://docs.docker.com/engine/install/ubuntu/

## Install using the apt repository

Before you install Docker Engine for the first time on a new host machine, you need to set up the Docker repository. Afterward, you can install and update Docker from the repository.

### Set up Docker's apt repository.

content\_copy

# Add Docker's official GPG key:

sudo apt-get update

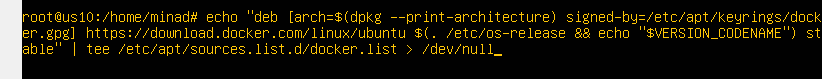
sudo apt-get install ca-certificates curl gnupg

sudo install -m 0755 -d /etc/apt/keyrings

curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /etc/apt/keyrings/docker.gpg

sudo chmod a+r /etc/apt/keyrings/docker.gpg

# Add the repository to Apt sources:

echo "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg] https://download.docker.com/linux/ubuntu $(. /etc/os-release && echo "$VERSION\_CODENAME") stable" 

sudo tee /etc/apt/sources.list.d/docker.list > /dev/null

sudo apt-get update

### Install the Docker packages.

Latest Specific version

To install the latest version, run:

sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin

## To check if Docker is installed correctly

Verify that the Docker Engine installation is successful by running the hello-world image.

sudo docker run hello-world

This command downloads a test image and runs it in a container. When the container runs, it prints a confirmation message and exits.

You have now successfully installed and started Docker Engine.

Once we have installed Docker, we can check that it works by running the HelloWord image:

>>sudo docker run hello-world.

docker run -it --name myContainer\_name -v /hostvolume:/containervolume image\_name

-v [host directory]:[container directory]

# PORTAINER SetUp

To make Docker management easier, we will use Portainer:

https://docs.portainer.io/start/install/server/docker/linux

Again, we will follow the steps on the official Portainer website.

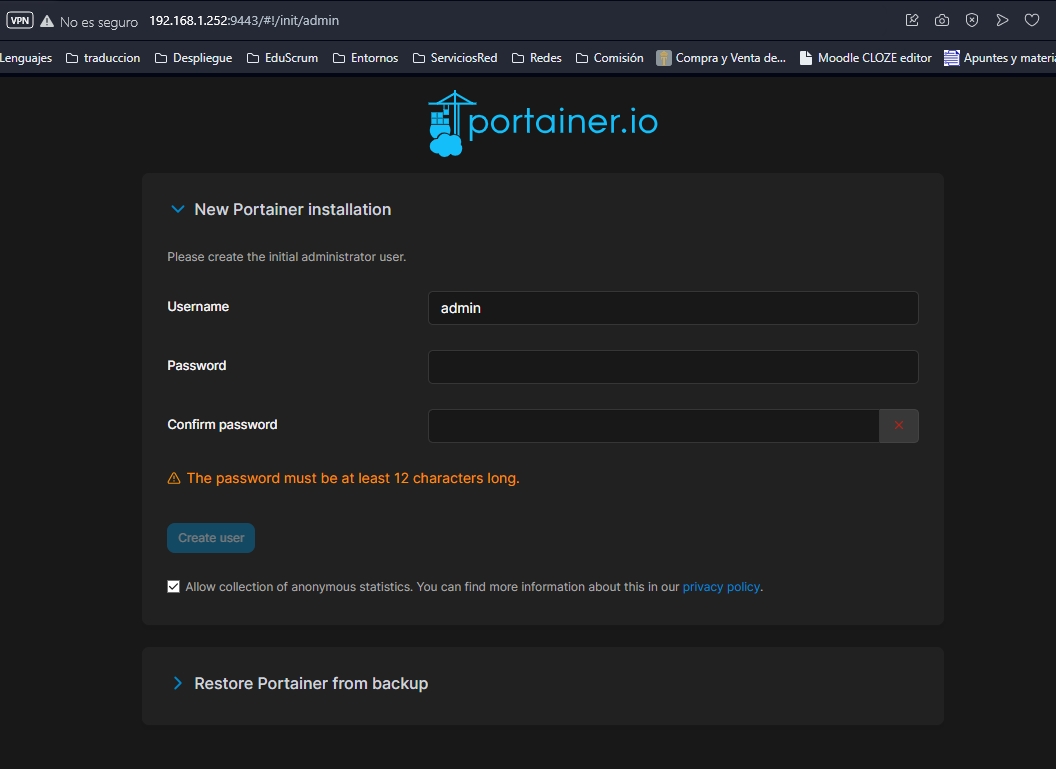
docker run -d -p 8000:8000 -p 9443:9443 --name portainer --restart=always -v /var/run/docker.sock:/var/run/docker.sock -v portainer\_data:/data portainer/portainer-c

e:latest

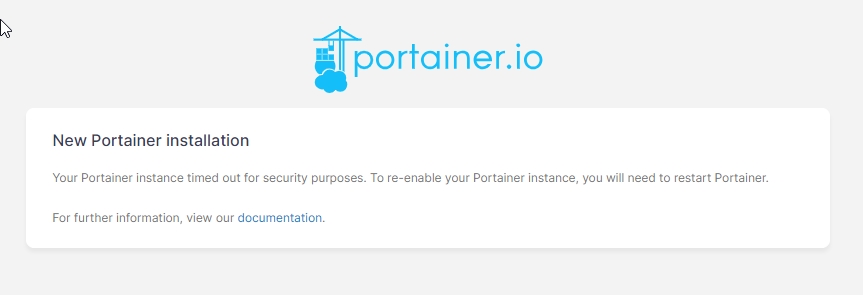




To connect the portainer server:

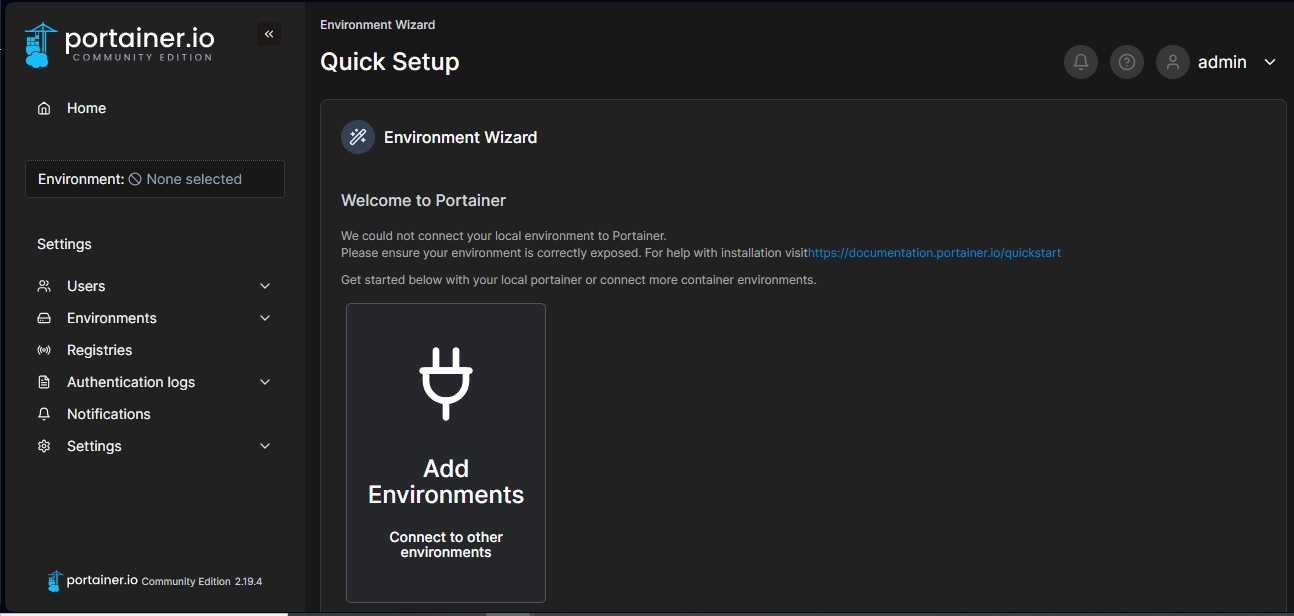
<https://ipaddress:9443>

pass= informatica22

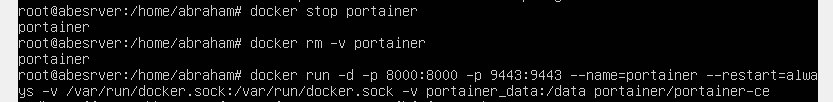


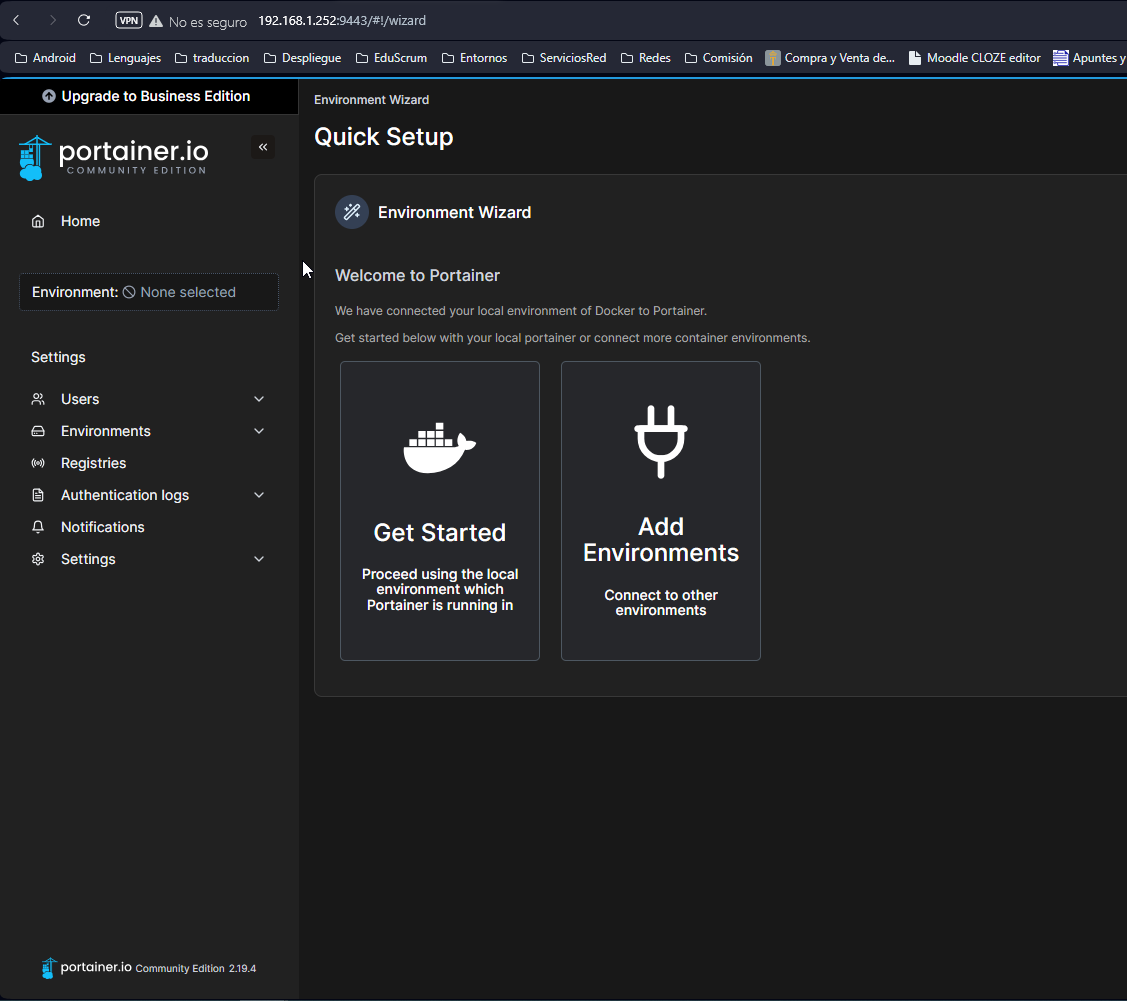
To solve this problem

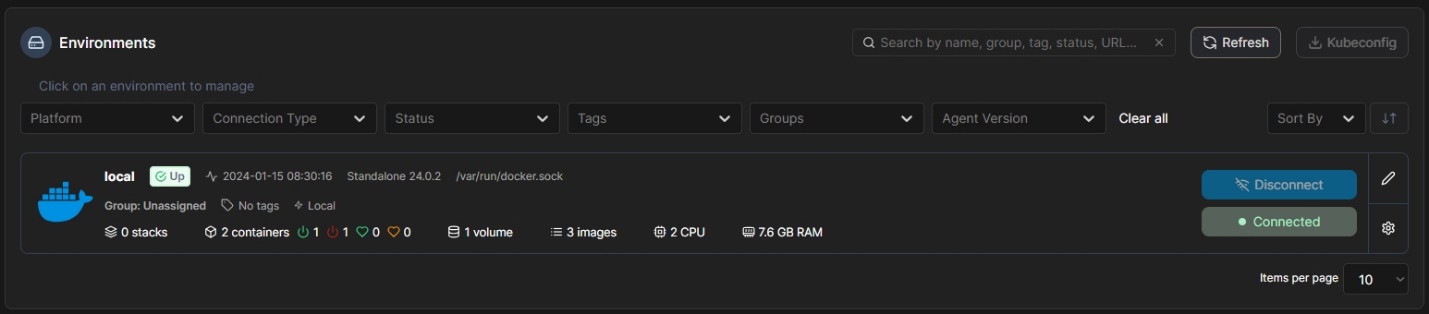


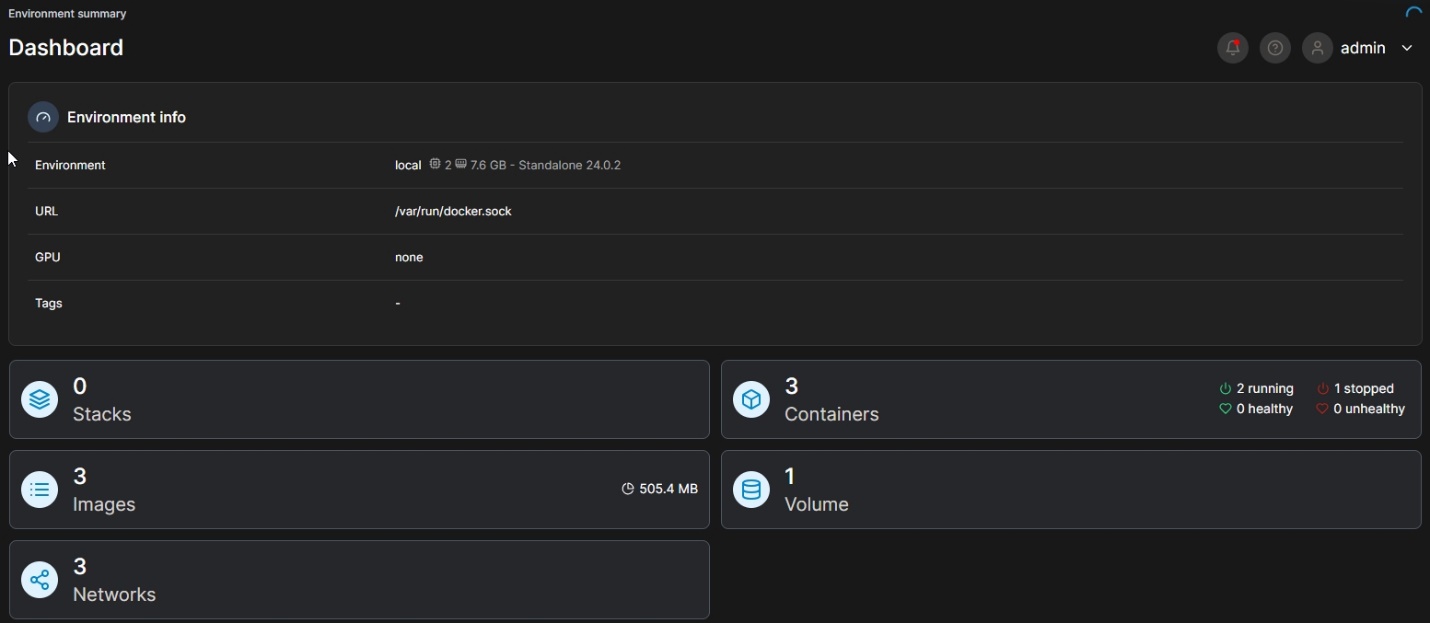


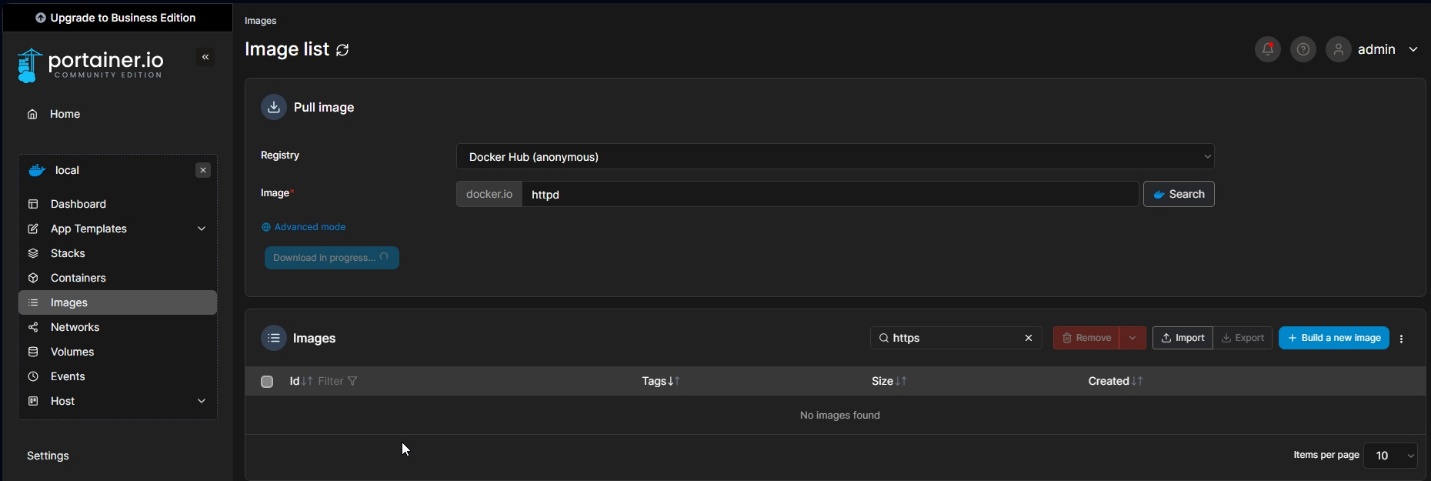
I made a mistake in the portainer installation command, once I have solve it:

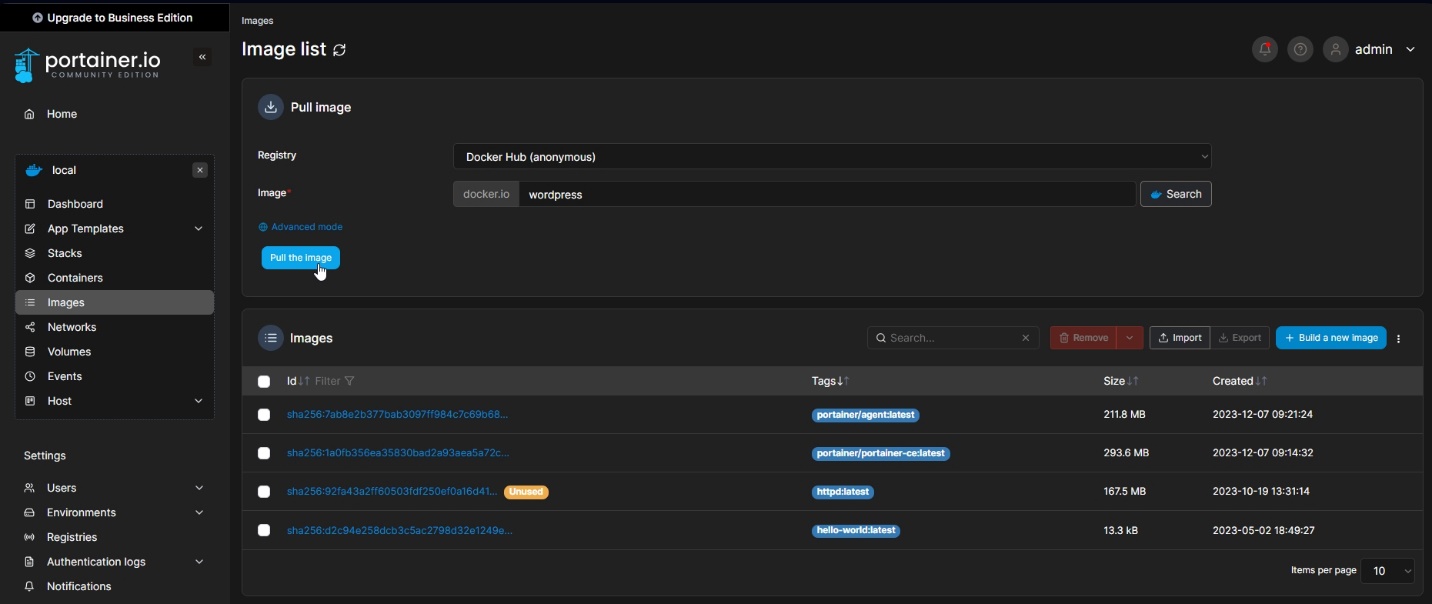






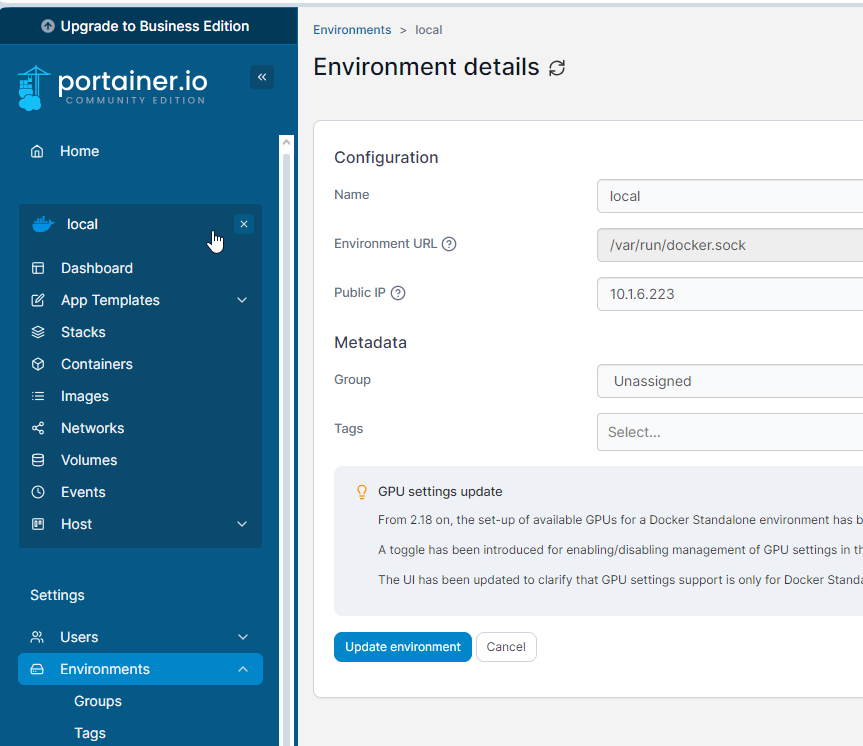






Solve 0.0.0.0 problem

Enviroment --> local



We change the IP address to be the same of our computer