

# Deployment

To deploy the Portainer container, you'll need to first set up a couple of configurations. These configurations will create a persistent volume, expose ports, and enable the container to run at start up automatically.

## Create Persistent Volume

In your docker engine CLI, run the following command:

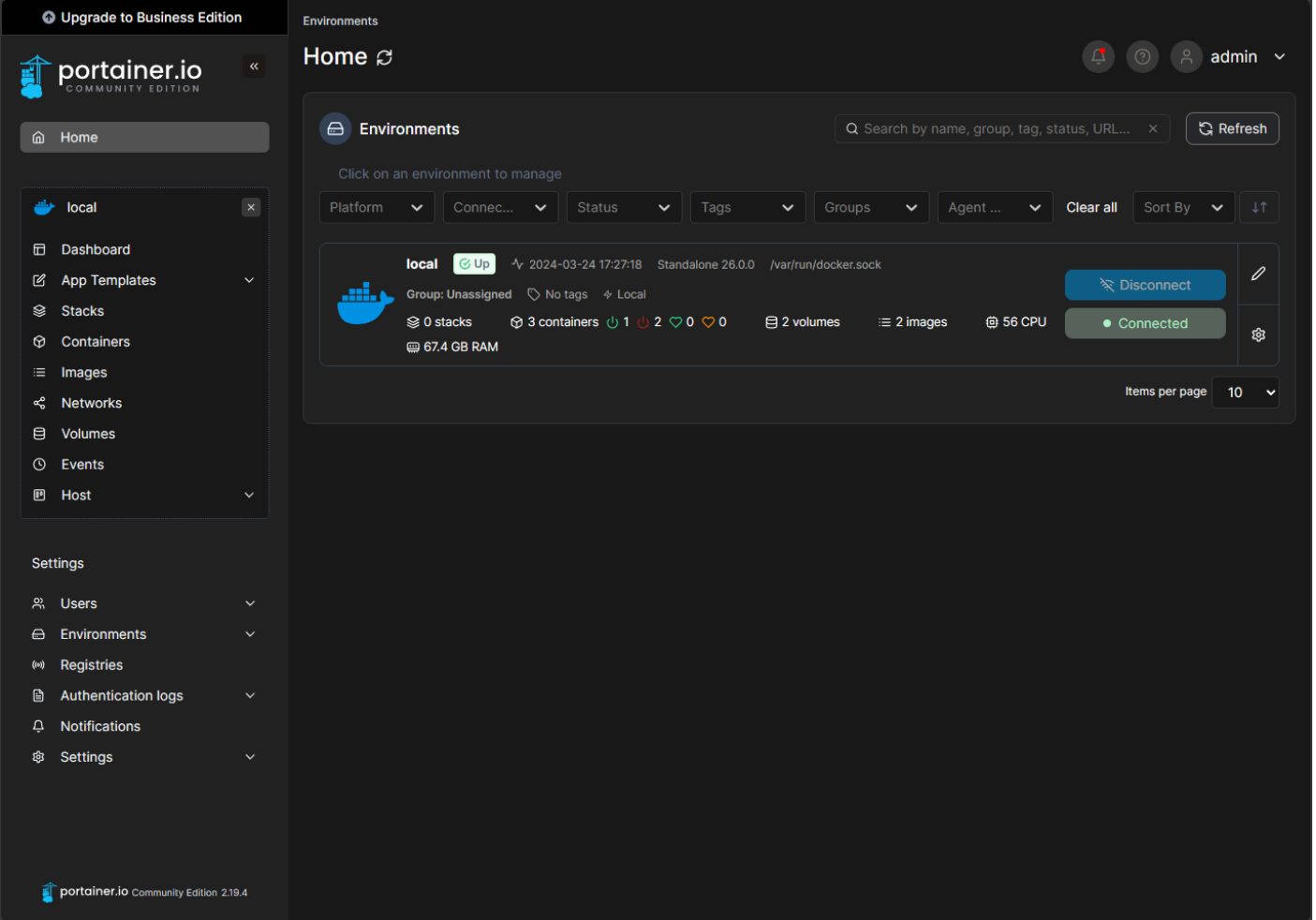
- `docker volume create portainer_data`
  - Volume name is `portainer_data`

## Run the Container

Run the container as you would any other container, with the following ports exposed: 8000 (Portainer Agent), 9000(Web GUI)

- `docker run -d -p 8000:8000 -p 9000:9000 --name=portainer --restart=always /var/run/docker.sock:/var/run/docker.sock -v portainer_data:/data portainer/portainer-ce`
  - **-d** to run in background
  - **-p** to expose ports
  - **--name** to name container
  - **--restart** to make it run constantly
  - **/var/run/docker.sock:/var/run/docker.sock** to enable portainer to manage the docker registry of the local machine
  - **-v** declares a volume to use
  - **portainer/portainer-ce** refers to the community edition version of the container

You're all set! Run through the set-up wizard via the web GUI that can be accessed at your docker engine IP port 9000 and create your admin account. You can now view the following dashboard:



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