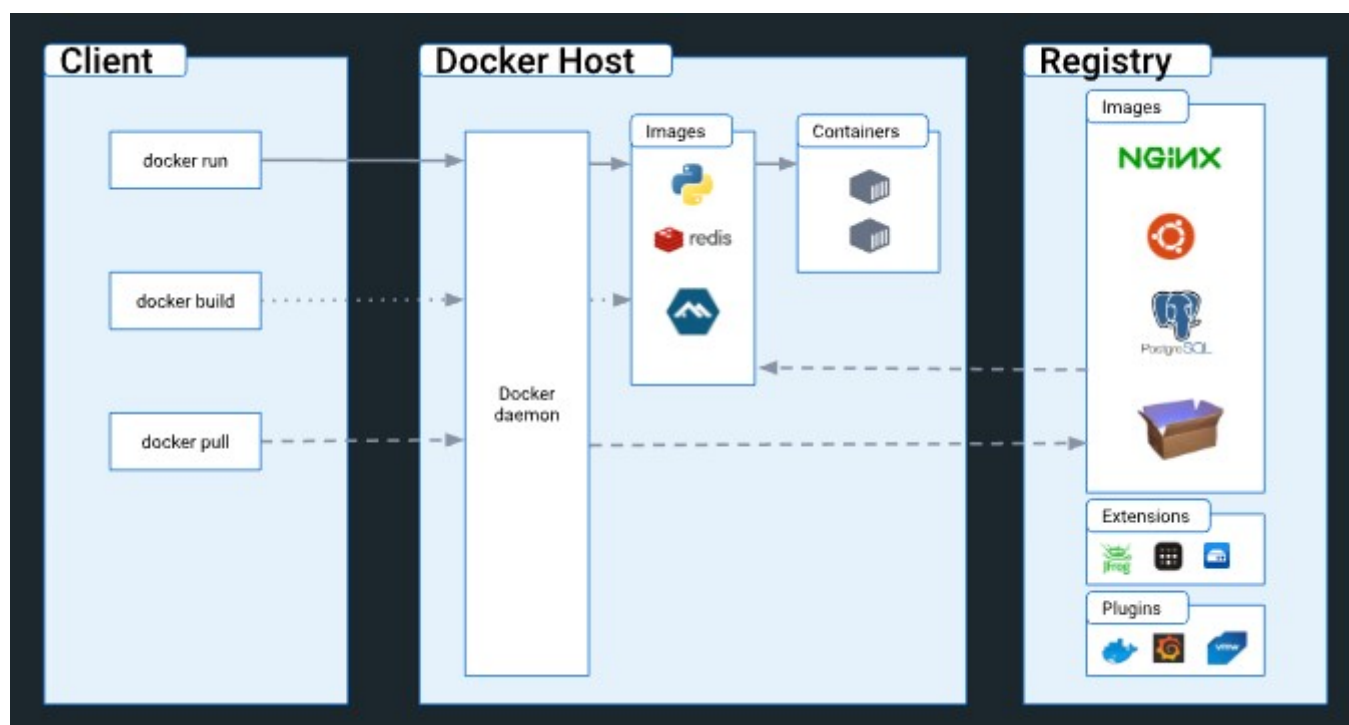




# LEARNING Docker



[Explore the docs »](#)

[Main Page](#) - [Code Page](#) - [Report Bug](#) - [Request Feature](#)

## Summary


► [TABLE OF CONTENT](#)

## About Project

This project aims to help students or professionals to learn the main concepts of Docker

[\(back to top\)](#)

## Getting Started

Light  This is an example of how you may give instructions on setting up your project locally. To get a local copy up and running follow these simple example steps.

## Prerequisites

This is an example of how to list things you need to use the software and how to install them.

- git
- Virtual Box and extension
- Vagrant

## Installation

Clone the repo

```
git clone https://github.com/marcossilvestrini/learning-docker.git
```

## Usage

Use this repository for get learning about Docker exam

[\(back to top\)](#)

## Roadmap

- ☒ Create repository
- ☐ Create github action for automation tasks
- ☒ Create examples about docker containers
- ☒ Create examples about docker images

[\(back to roadmap\)](#)

[\(back to top\)](#)

Docker Engine work with namespaces(PID,NET,IPC,MNT,UTS) and cgroups.

```
# Get a version of docker
docker --version
```

## Docker Containers

## Light



```
# list containers
docker container ls
docker ps

# list containers id
docker container ls -aq
docker ps -aq

# list containers virtual size
docker container ls -s

# run container
docker run hello-world

# execute command in container
docker exec -it <container_id_or_name> <command>

# run container iterative
docker run -it <image_name> bash

# stop pause containers
docker stop <container_id_or_name>
docker stop -t=0 <container_id_or_name>

# Stop all containers
docker stop $(docker container ls -q)

# Pause\Unpause containers
docker pause <container_id_or_name>
docker unpause <container_id_or_name>

# delete container
docker rm <container_id_or_name> --force

# delete all containers
docker container rm $(docker container ls -aq) --force

# forwarding port
docker run -d -P <container_id_or_name>
docker run -d -p 8080:80 <container_id_or_name>

# show map ports
docker port <container_id_or_name>
```

[\(back to docker containers\)](#)

[\(back to top\)](#)

## Docker Images

□ Light

```
# pull image
docker pull <image_name>

# show local images
docker images

# show details of images
docker inspect <image_id>

# show details of images layers
docker history <image_id>

# remove docker images
docker rmi <image_id> --force

# remove all docker images
docker rmi $(docker images -aq) --force

# build a docker image

## first, create your dockerfile with your app

## then create a docker image.
cd <path_of_your_dockerfile>
docker build -t <dockerhub_username/image_name:tag>

# publish your image in docker hub
docker push <dockerhub_username/image_name:tag>

# create container with docker bind mounts
docker run -it -d -v <dir_local_for_data:dir_container_for_data <image_name_or_id>
docker run -d --mount type=bind,source=/myfolder-volume,target=/app <image_name_or_id>

# create container with docker volume
docker run -d -v <volume_name>:/app <image_name_or_id>
```

[\(back to docker containers\)](#)

[\(back to top\)](#)

## Docker Volumes

```
# create docker volume
docker volume create <volume_name>

# delete docker volume
docker volume rm <volume_name>
```

[\(back to docker volumes\)](#)





## Contributing

Contributions are what make the open source community such an amazing place to learn, inspire, and create. Any contributions you make are **greatly appreciated**.

If you have a suggestion that would make this better, please fork the repo and create a pull request. You can also simply open an issue with the tag "enhancement". Don't forget to give the project a star! Thanks again!

1. Fork the Project
2. Create your Feature Branch ( `git checkout -b feature/AmazingFeature` )
3. Commit your Changes ( `git commit -m 'Add some AmazingFeature'` )
4. Push to the Branch ( `git push origin feature/AmazingFeature` )
5. Open a Pull Request

## License

- This project is licensed under the MIT License \* see the LICENSE.md file for details

## Contact

Marcos Silvestrini - [marcos.silvestrini@gmail.com](mailto:marcos.silvestrini@gmail.com)



Project Link: <https://github.com/marcossilvestrini/learning-docker>

(back to top)

## Acknowledgments

- Docker Website
- Docker Overview

(back to top)