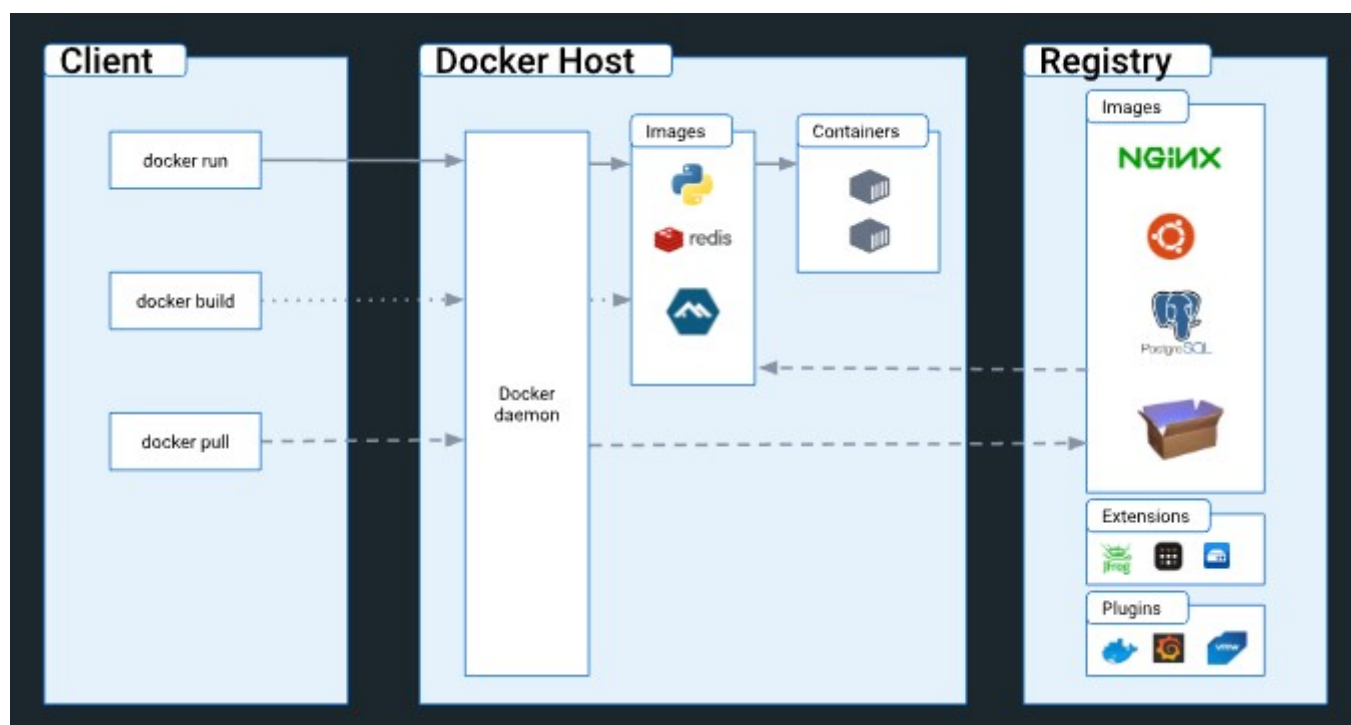




LEARNING Docker



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Summary

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About Project

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

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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

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Roadmap

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

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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>
```

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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_i

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

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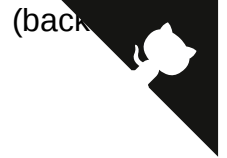
Docker Volumes

```
# 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

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

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Acknowledgments

- Docker Website
- Docker Overview

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