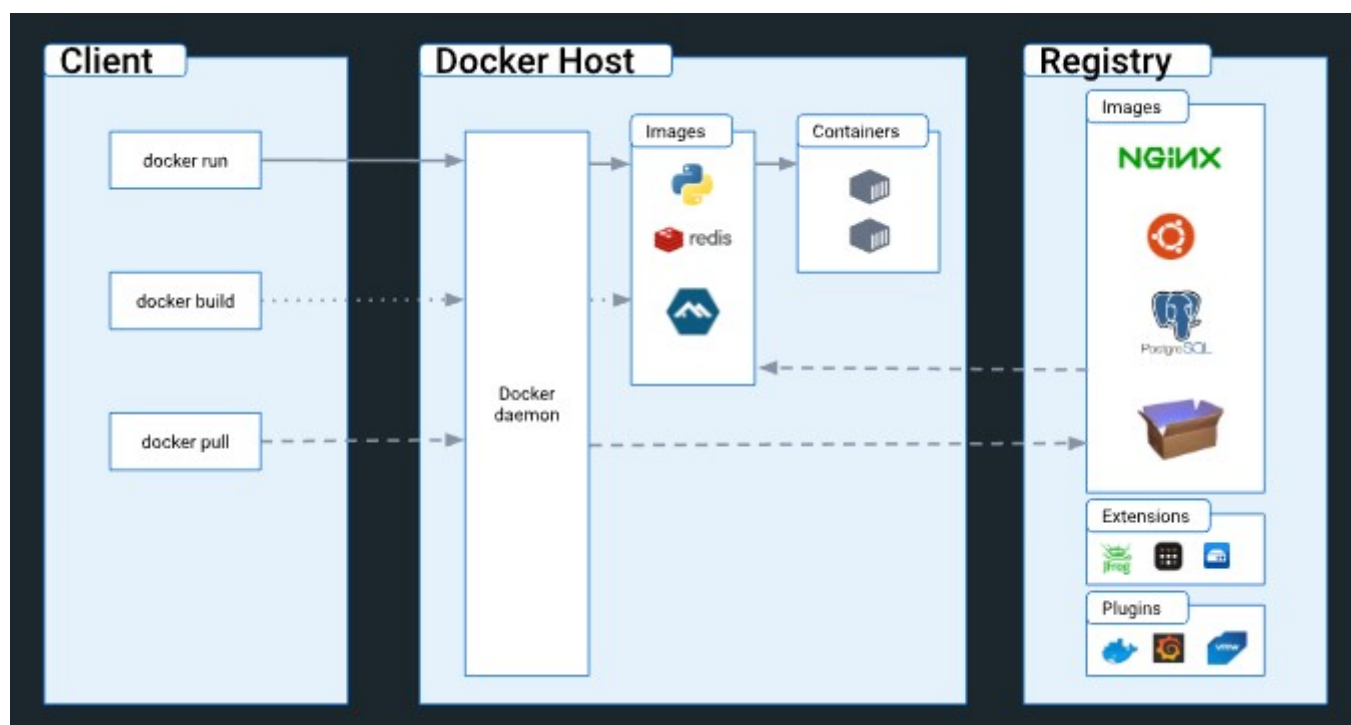




# LEARNING Docker



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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

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

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

# create container with name
docker run -it --name ubuntu01 ubuntu bash

# create container with specified network
docker run -it --name ubuntu01 --network skynet ubuntu bash

# create container with network host
docker run -it --name ubuntu01 --network host ubuntu 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>

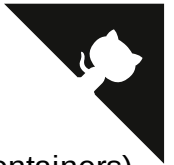
# delete container
docker rm <container_id_or_name> --force

# 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>
```

```
Light
# inspect container
docker inspect <container_id_or_name>
```



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## Docker Images

```
# pull image
docker pull <image_name>

# show local images 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>
```

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## Docker Volumes

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

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

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## Docker Network

```
# list networks
docker network list
```

```
# create docker network
docker network create --driver bridge skynet
```

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## Docker Compose

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## 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` )



## 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/marcoossilvestrini/learning-docker>

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## Acknowledgments

- Docker Website
- Docker Overview

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