English communication

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About the course

Goal : Speak in english in the workplace and discover the Devops job.

What are we going to do ? During the first sessions, you will discover some technologies through practice and chat talk.

Rule : Only english is allowed ;)

Evaluation : you will develop a project and present it to the school class.

About me

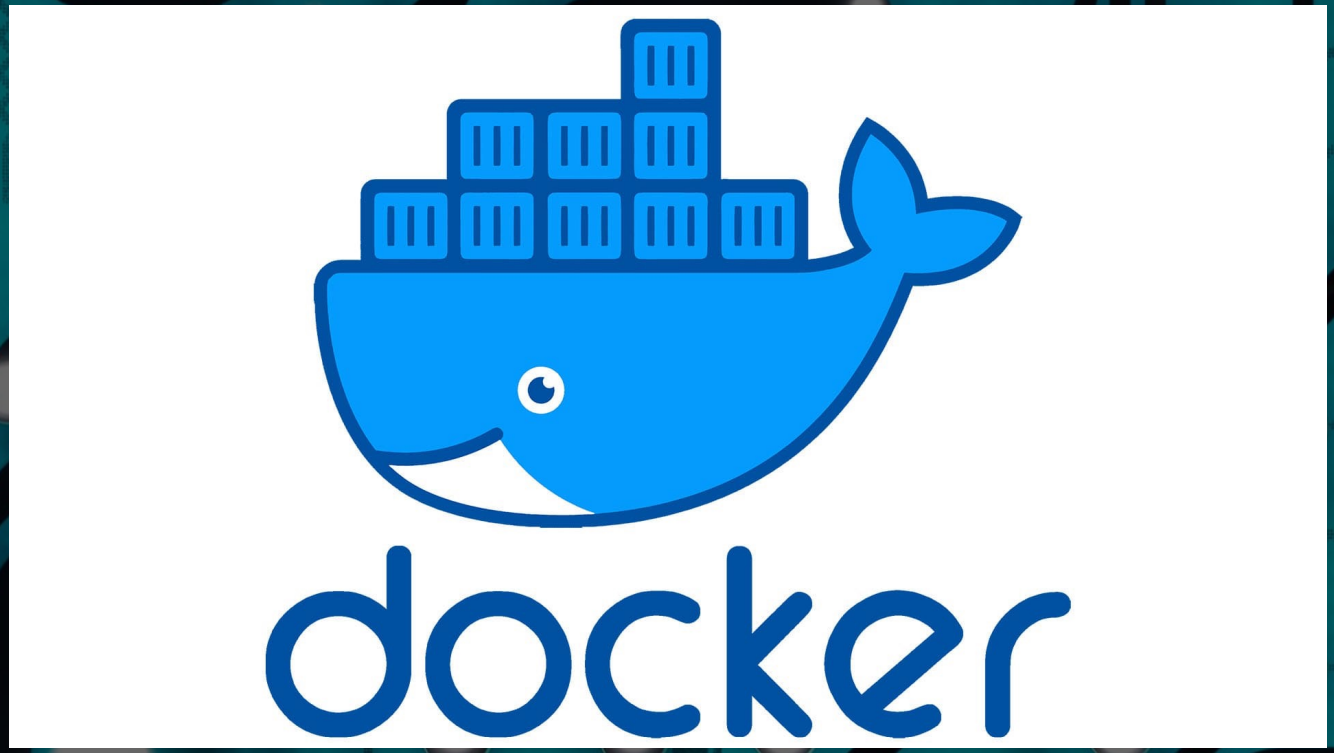
Job : Devops Engineer

Degree : Engineering degree

Hobbies : Cooking, sailing

What about you ?

First lesson : Docker and Git



What is Docker ?

Docker provides the ability to package and run an application in a loosely isolated environment called a container. The isolation and security allow you to run many containers simultaneously on a given host. Containers are lightweight and contain everything needed to run the application, so you do not need to rely on what is currently installed on the host. You can easily share containers while you work, and be sure that everyone you share with gets the same container that works in the same way.

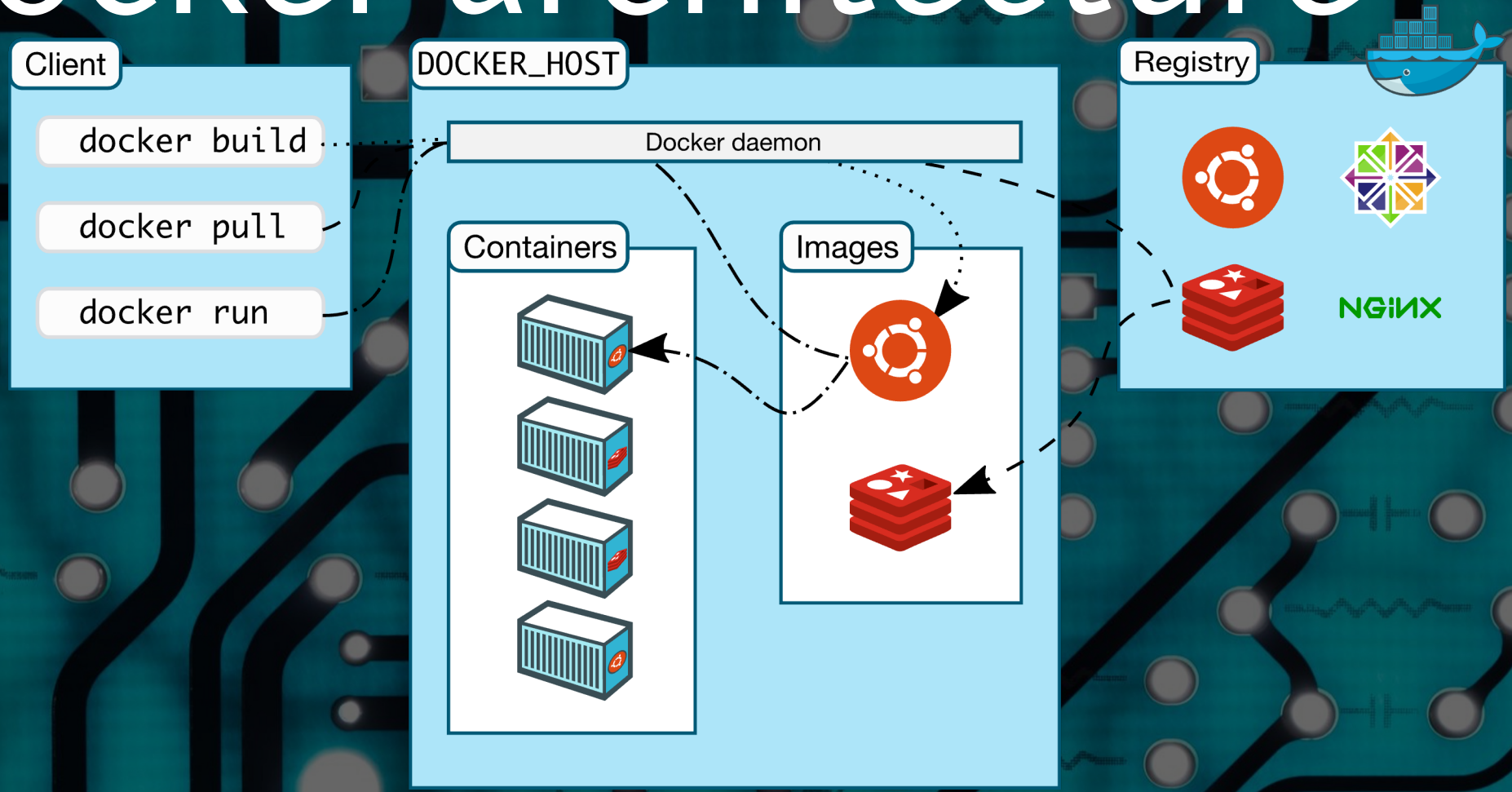
Benefits

⇒ **Fast, consistent delivery of your applications**

⇒ **Responsive deployment and scaling**

⇒ **Running more workloads on the same hardware**

Docker architecture



What is Git ?

Git is a distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

Benefits :

- Keep track of all changes to your code
- Rollback if you make a mistake
- Team working (add changes, reviewing...)

Practice now !

Mission 1 : Package an application and run your first container

Steps :

1- Install Git and Docker on a linux environment

2 - Install Docker Desktop : https://docs.docker.com/desktop/install/linux-install/

2 – Clone the following repository : https://github.com/mperochon/A2SR.git

3 – Complete the Dockerfile

4 – Build and run the application !

Practice now !

Mission 2 : Modify the code of the application and share your images to another group

Steps :

1- Make a modification in : src/static/app.js

2- Build and update the container

3- Create an account and a public registry on https://hub.docker.com/

4 – Push your image

5 - Share your image to another group

6 – Pull the image from another group

7 – Run the new container and check the modification

Practice now !

Mission 3 : Run your application

Steps :

1- Follow the tutorial : https://docs.docker.com/get-started (From step 2 to 5 and step 8)

2 – Create a github account and a public repository

3 – Create a report to explain what you did and what you learn.

4 – Commit all your code, send me the repository link and the report to mperochon@gmail.com

5 – Next course : You will explain what you learn !