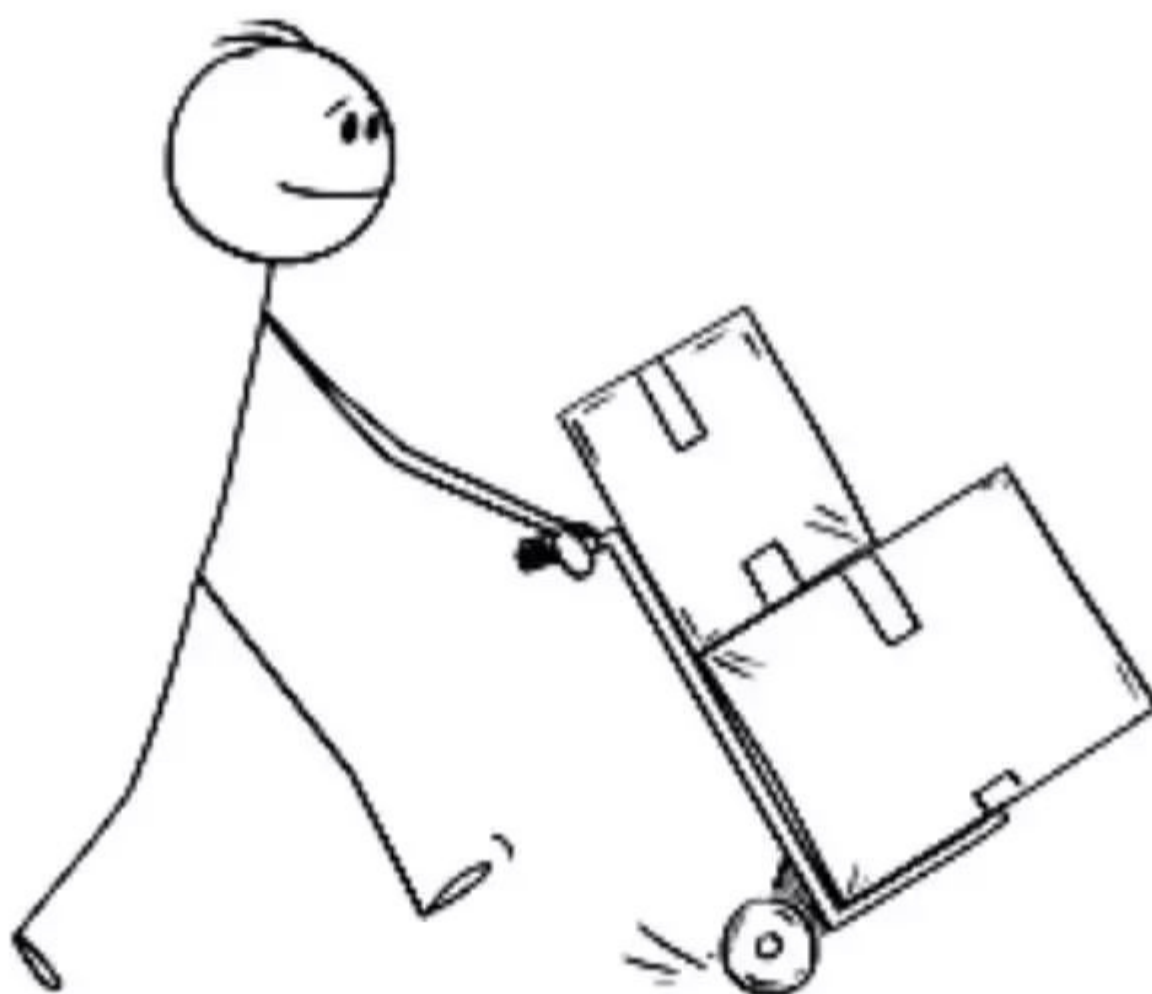# WHAT IS
DOCKER

Development

Lets say You created an Application

And that's working fine in your machine

Production

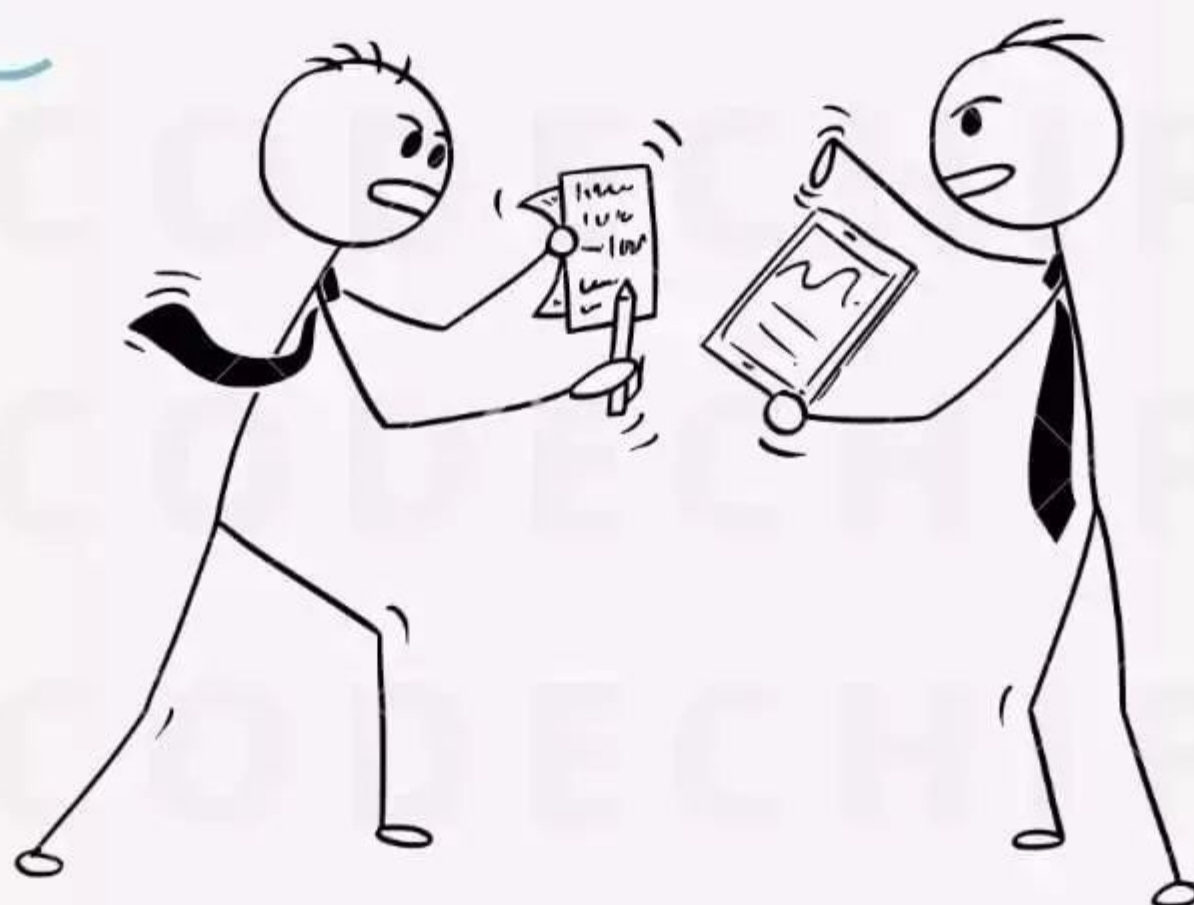## But in Production it doesn't work properly

Developers experince it a lot

That is when the Developer's famous words are spoken

The Reason could be due to :

- Dependencies
- Libraries and versions
- Framework
- OS Level features
- Microservices

That the developers machine has but not there in the **production environment**

We need a standardized way to package the application with its **dependencies** and deploy it on any environment.

Docker is a tool designed to make it easier to **create**, **deploy**, and **run** applications by using **containers**.
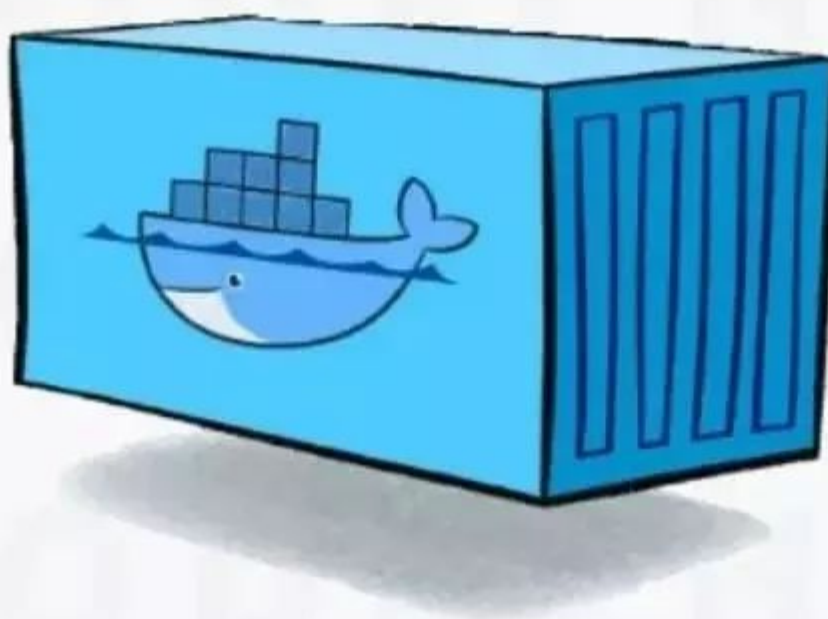
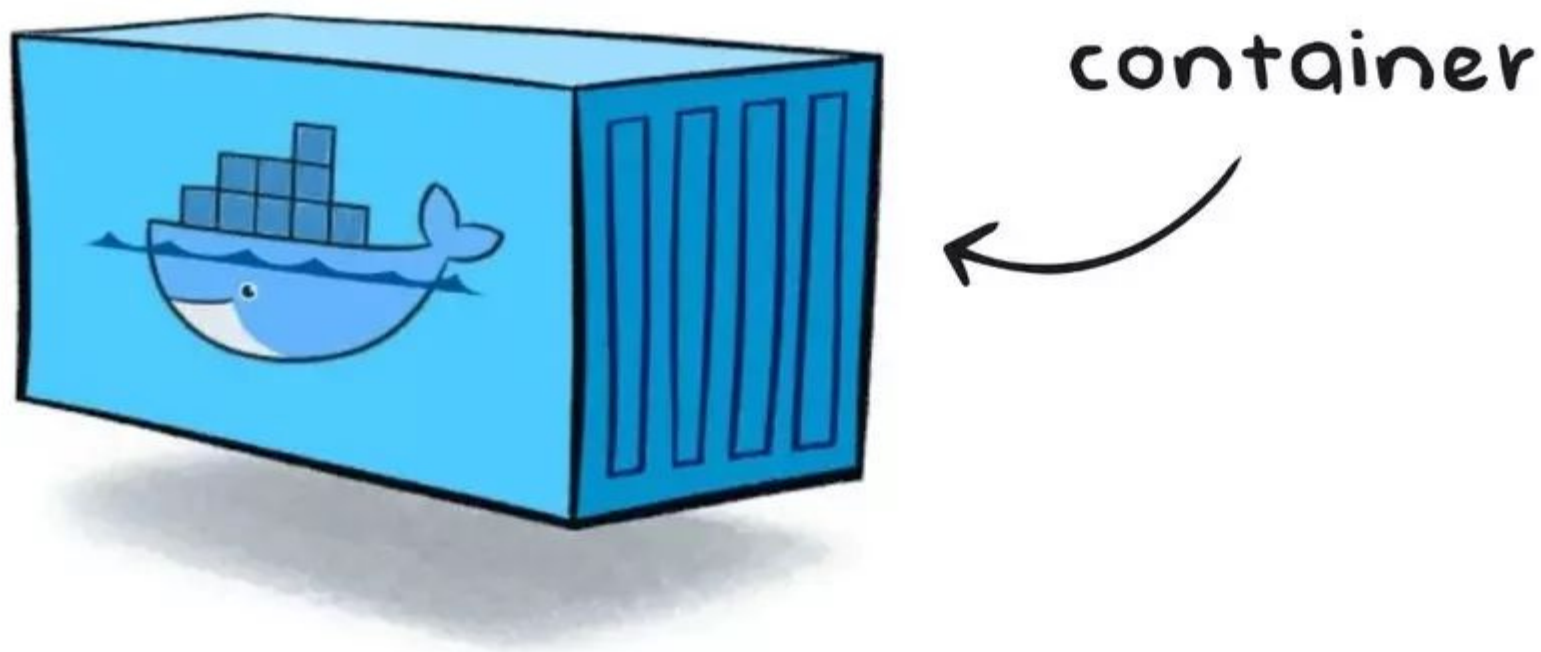So it will always work the same regardless of its environment

How Does Docker Work?

Docker packages an application and all its **dependencies** in a **virtual container** that can run on any Linux server.

Docker is like a magic box for software

container

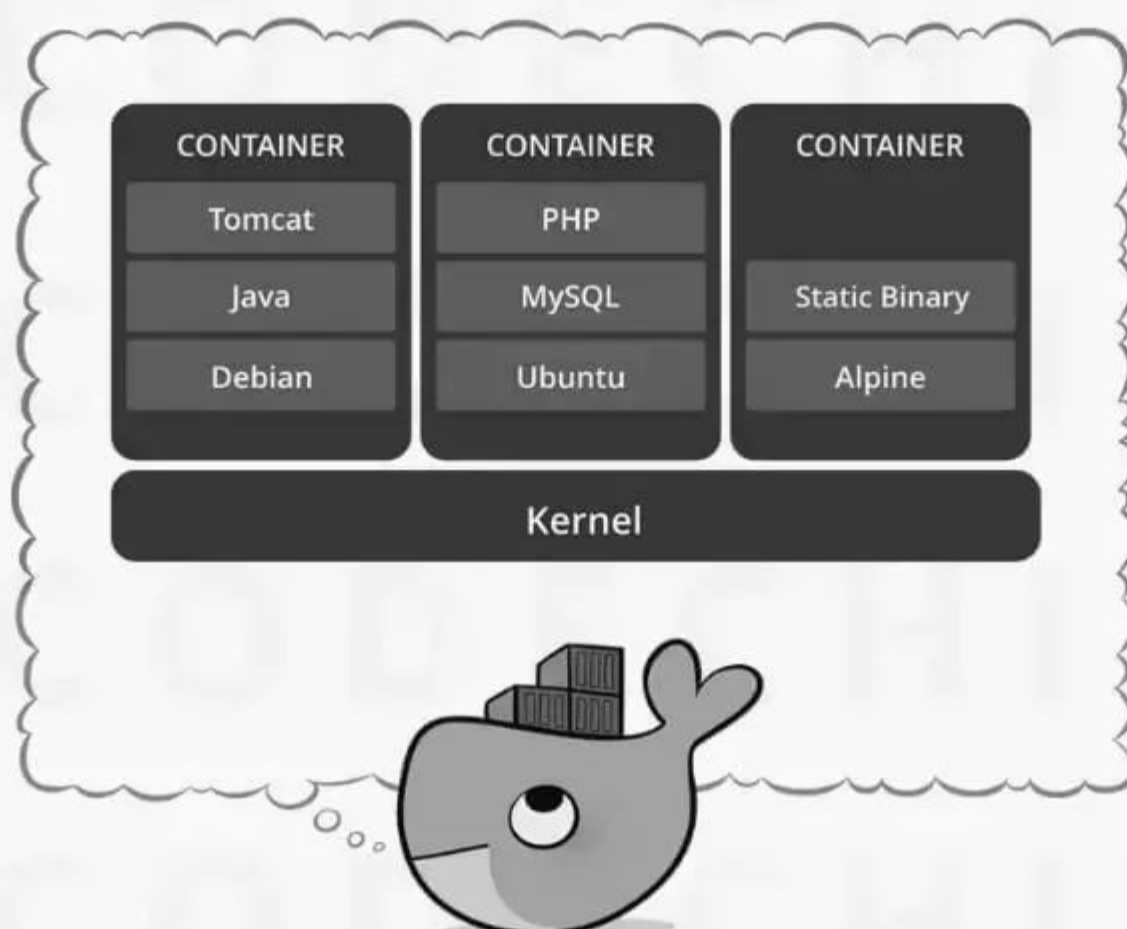Instead of installing programs on your computer one by one, you put them in Docker containers

Containers are like little packages that have everything a program needs to run

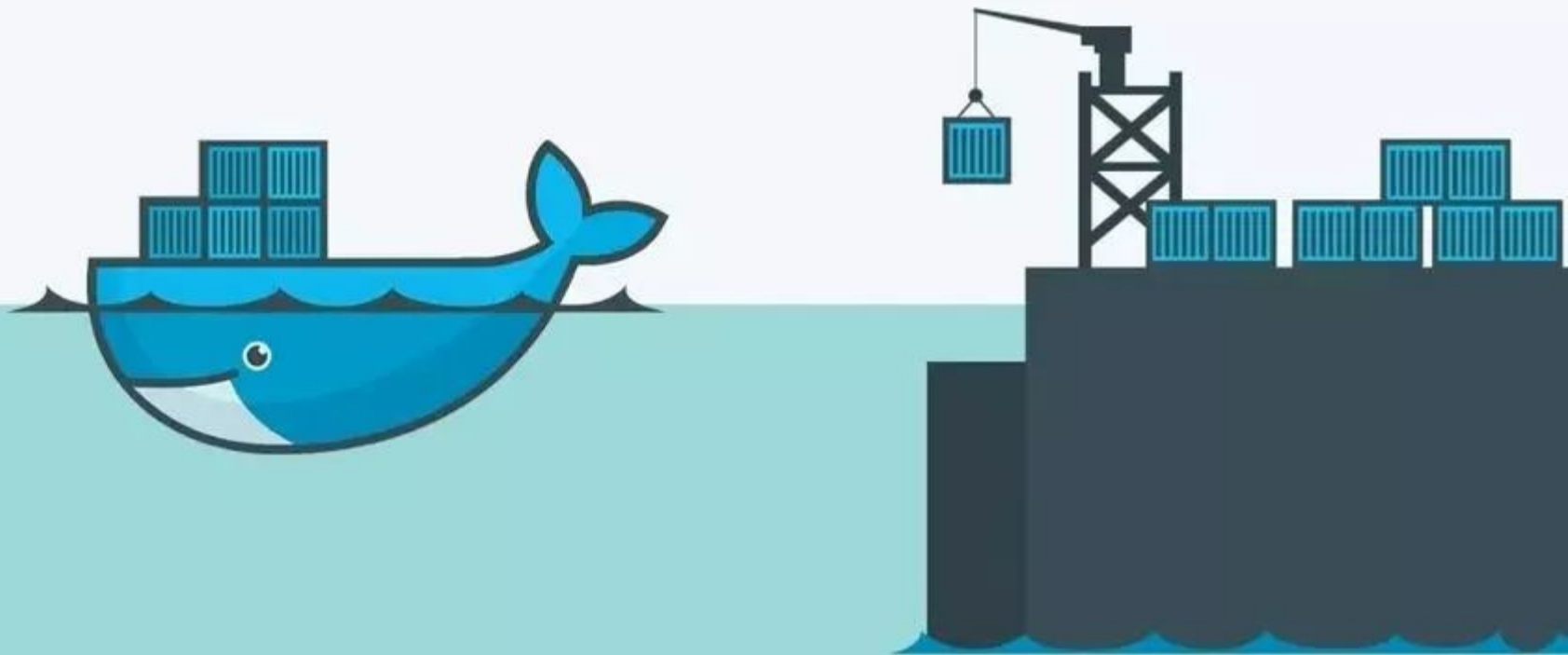it makes it easy to move the code to different computers

Each container runs as an **isolated process** in the user space and take up **less space** than regular VMs due to their layered architecture.

now, your code will work everywhere

Definition

Docker is a platform for developing, shipping, and running applications in containers, providing an efficient and consistent way to package and deploy software

Find more explanations on our page

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@codechips
Cody
popupdev04@gmail.com

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Source : La Casa De Papel
@codechips
Cody
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Art Credit : @ikbool.ied
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popupdev04@gmail.com