{EPITECH}

601 - Popeye

Tricky situations

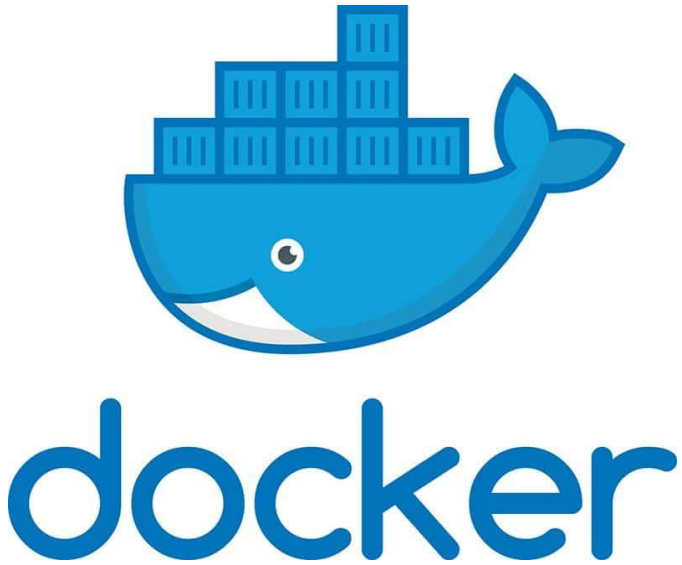
What happens if:

- You need to work on a project which is using older versions of React or PHP?
- You develop on MacOS, but the production server runs on Linux?
- Two apps needs different Python versions on the same server?
- You need to deploy your app faster than ever on a server?

Containers in the real world

- Shipping containers are standardized boxes, designed and built for intermodal freight transport.
- They can be used across different modes of transport, from ship to rail to truck, without [un|re]loading them.
- Moreover, management is standardized for all, regardless of its content!

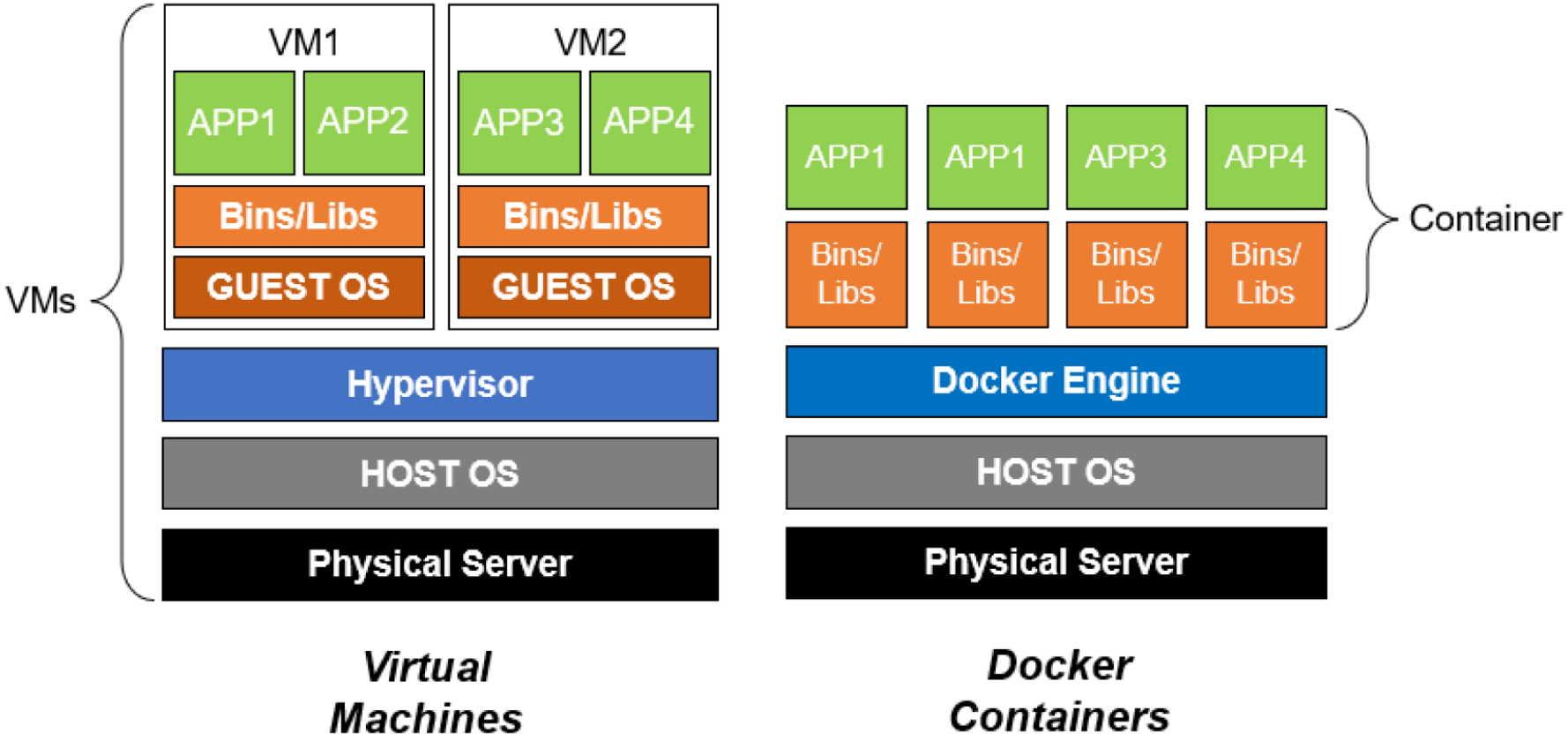
Containers in the DevOps world



- Software containers are standardized boxes, designed and built for applications portability.
- They can be used across different OS, from Linux to Windows to Mac, without modification.
- Moreover, management is standardized for all, regardless of its content!

VM vs Containers

Containers are isolated but share OS (and sometimes bins & libs).



The project

- You will need to deploy one project.
- There is 5 services, which means you need to identify them first.
- The version of each service is not the latest. You need to find out which one is the correct one.
- Docker will be used in your other Epitech’s projects.
  => So, work hard!

Best practices

- Follow the KISS principle
- Use official images as base
- Put one app per container
- Never commit sensitive data like .env/passwords

Des questions ?