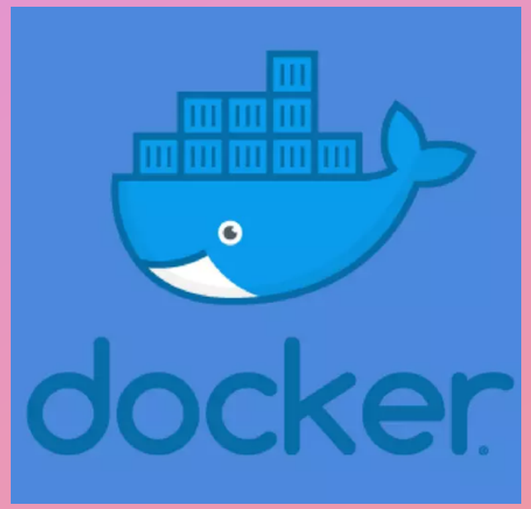
Introduction to Docker



BY,
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What is Docker?

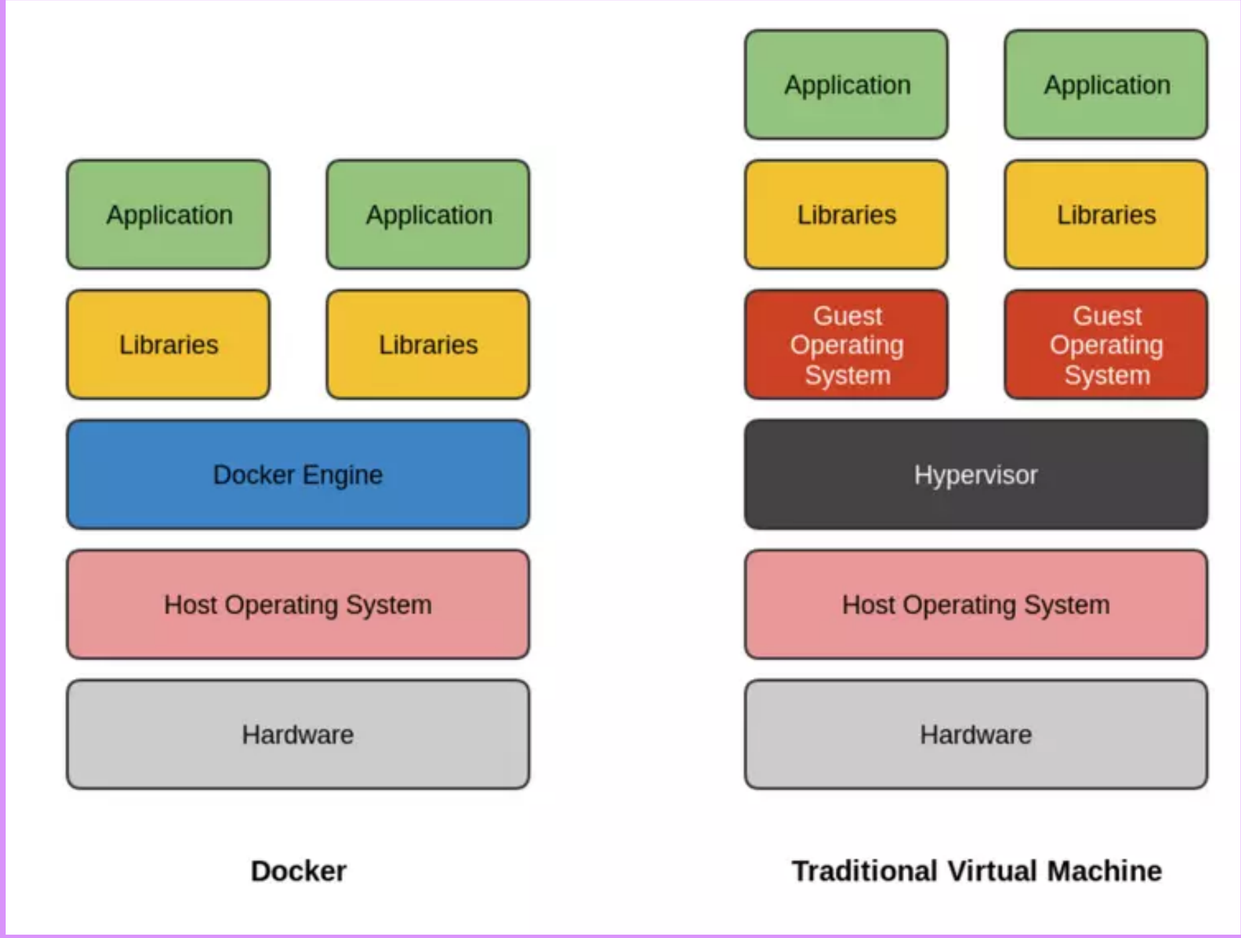
- Docker is a computer program that performs operating system-level virtualization, also known as containerization.

Container:

- Is a standard unit of software that packages up code and all its dependenciesso the applications runs quickly and reliably from one computing environment to another.

Docker Architecture

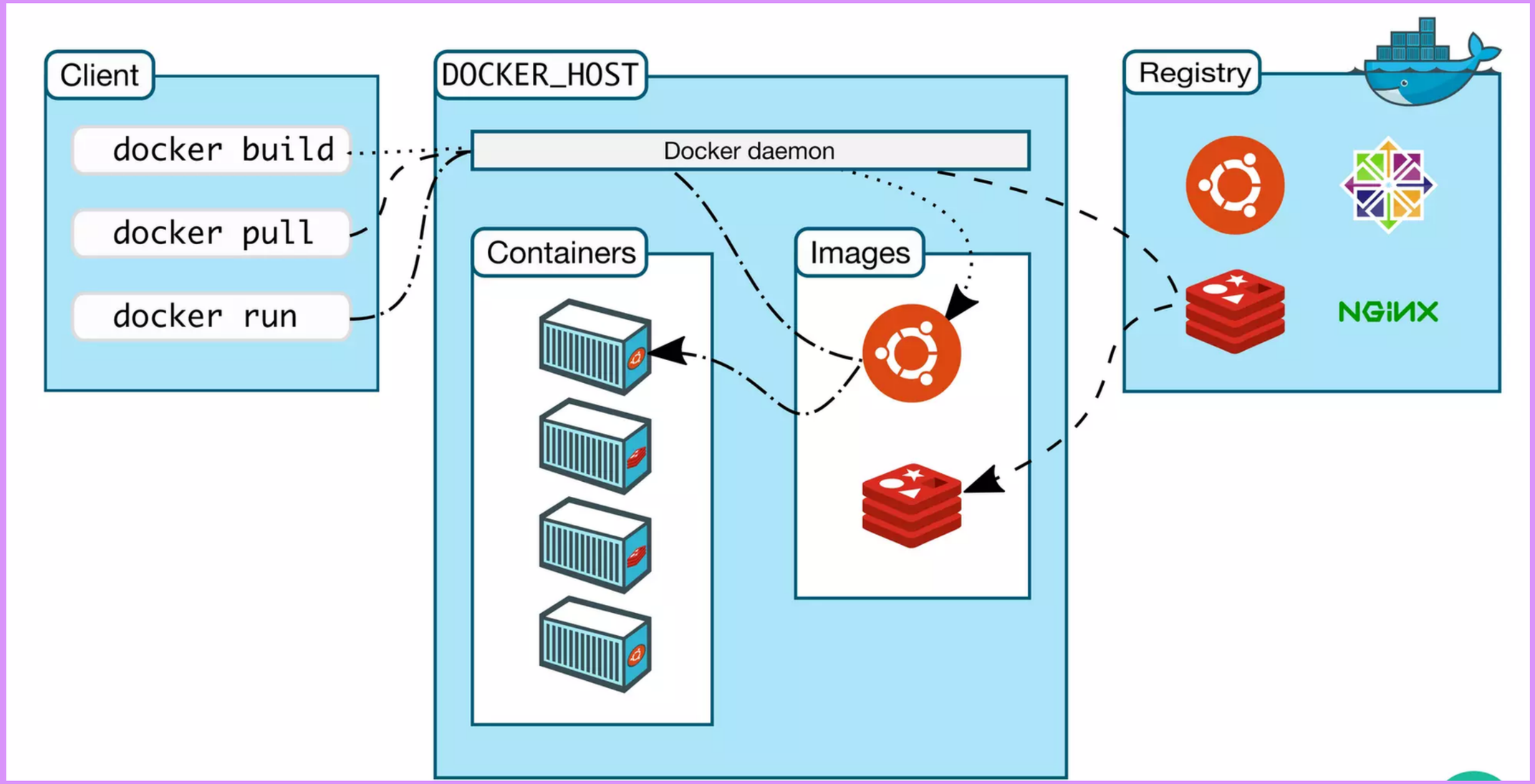
- Docker container is an application with all of its dependencies
- Compared to traditional VM:
    - No Hypervisor
    - No Guest os
    - Containers are isolated



Docker Dictionary

- **Image** - Read only snapshot used to build a container
- **Container** - Runtime environment built using an image
- **Docker File** - Recipe on how to create an image
- **Registry** - Public or Private service for storing images
- **DockerHub** - https://hub.docker.com/ - offical public registry like Github for docker images.

Docker Ecosystem



Creating the first docker container

- Pull the ubuntu image from the registry

  $docker image pull ubuntu
- Start a container based on the ubuntu image

  $docker container run-it--name ubuntu ubuntu/bin/sh

Listing images and containers

List images

- $docker images
- $docker image Is

List running containers

- $docker ps
- $docker container Is

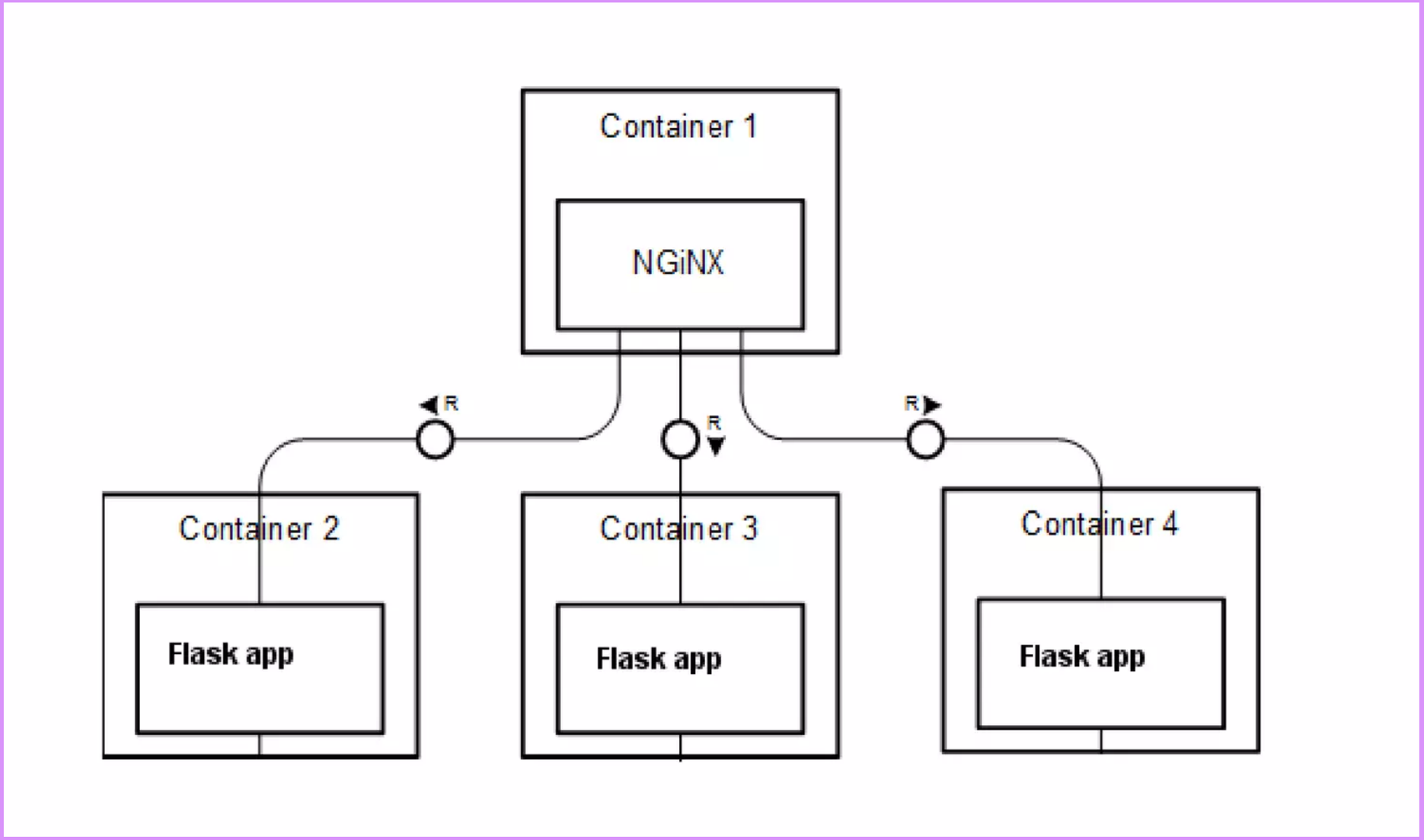
List all containers

- $docker ps-a
- $docker container Is-a

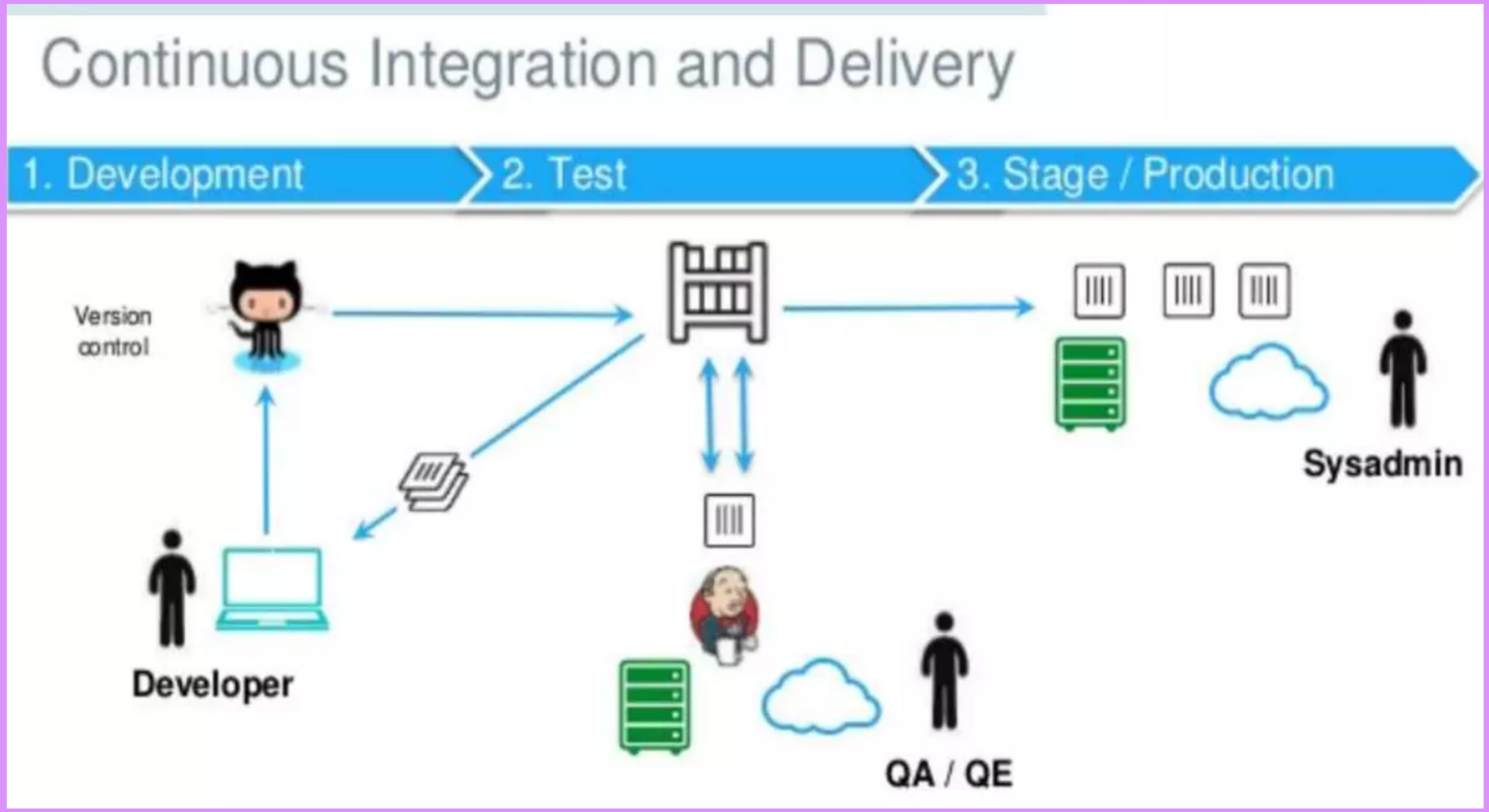
Start in detached mode

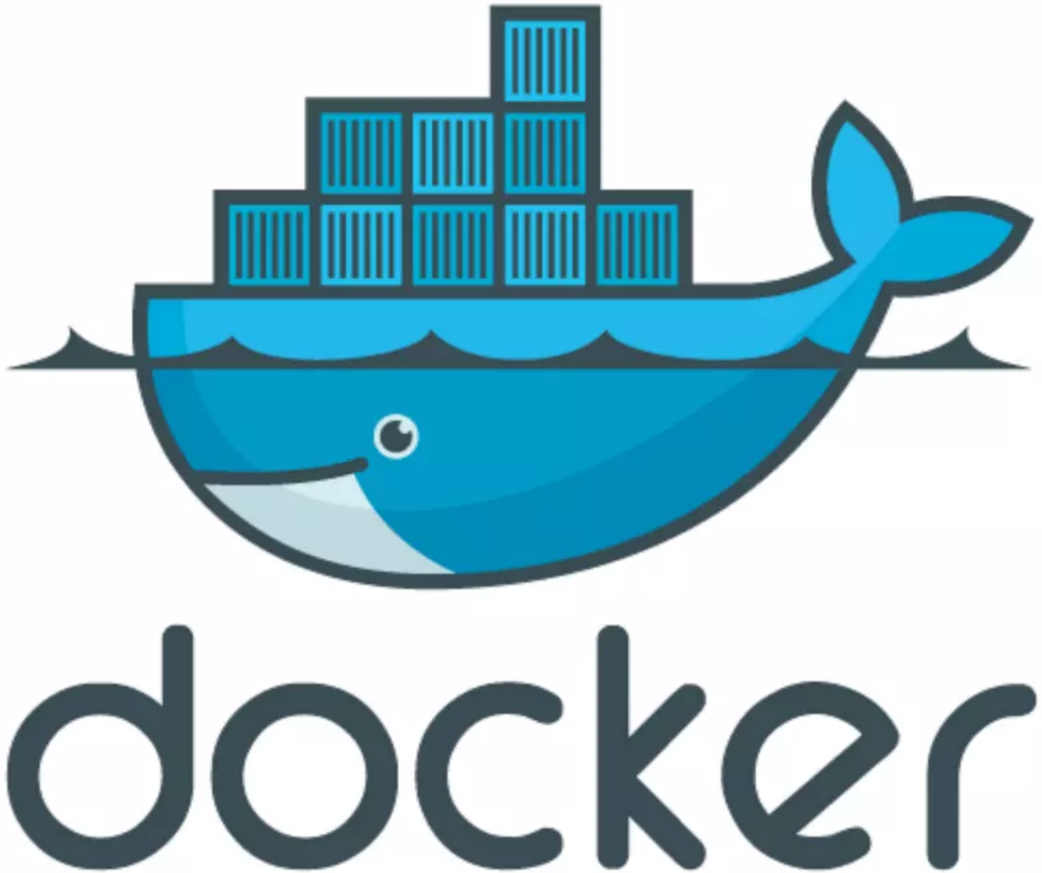
- To connect to terminal to the detched container
  $docker attach {id} {NAME}
- To leave container without exiting i
  CTRL+P+Q

Docker Compose



Application Delivery





Thank you! ☺