

Docker compose

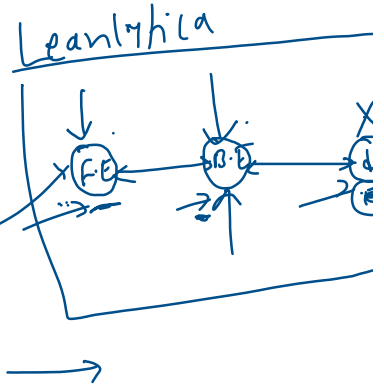
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W3/4 - Why/What/How/Where --- ?

✓ **Compose is a tool for defining and running multi-container Docker applications.**

With Compose, you use a YAML file to configure your application's services.

Then, with a single command, you create and start all the services from your configuration.



Using Compose is basically a three-step process:

1. Define your app's environment with a Dockerfile so it can be reproduced anywhere.
- ✓ 2. Define the services that make up your app in docker-compose.yml so they can be run together in an isolated environment.
- ✓ 3. Run docker compose up and the Docker compose command starts and runs your entire app. You can alternatively run docker-compose up using the docker-compose binary.

✓ A docker-compose.yml looks like this:

Compose overview

This is how you work with Compose:

(3)

- You describe a set (or stack) of containers in a YAML file called `docker-compose.yml`.
- You run `docker-compose up`.
- Compose automatically pulls images, builds containers, and starts them.
- Compose can set up links, volumes, and other Docker options for you.
- Compose can run the containers in the background, or in the foreground.
- When containers are running in the foreground, their aggregated output is shown.

`sudo apt install docker-compose`

<https://github.com/docker/awesome-compose>

Docker container run -it

- `Docker run --name webapp1 nginx`
- `Docker run --name webapp2 nginx`
- Docker compose is separate tool
--> we got just to provide better way of managing your multi-application
Is not part of your docker engine
--> Compose specification or version relies on docker (Engine) version

Docker-compose file .yaml / .yml

Version: '3'

Services:

webapp1:

Image :nginx

ports:

- "8000: 80"

webapp2:

Image :nginx

ports:

- "8001: 80"

Docker compose up -f

Docker compose down

<https://github.com/docker/awesome-compose>

<https://docs.docker.com/compose/compose-file/compose-versioning/>