Docker-compose

By



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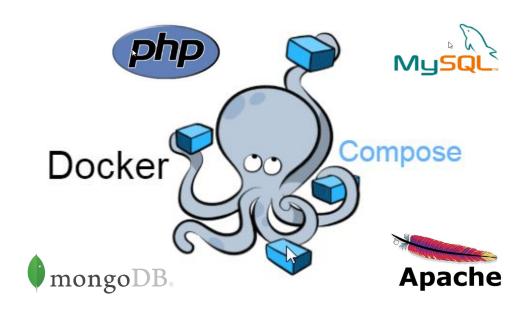
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Docker-compose

 Docker-compose is a tool for defining and running multi-container Docker applications.



Docker-Compose

- Why: configure relationships between containers
- Why: save our docker container run settings in easy-to-read file
- Why: create one-liner developer/testing environment startups

Docker-compose

- Comprised of 2 separate but related things
 - 1. YAML-formatted file that describes our solution options for:
 - containers
 - networks
 - volumes
- 2. A CLI tool docker-compose used for local dev/test automation with those YAML files

docker-compose.yml

- Compose YAML format has it's own versions: 1, 2, 2.1, 3, 3.1
- YAML file can be used with docker-compose command for local docker automation and deployment
- docker-compose --help
- docker-compose.yml is default filename, but any can be used with docker-compose -f

Docker-compose CLI

- •CLI tool comes with Docker for Windows/Mac, but separate download for Linux
- •Not a production-grade tool but ideal for local development and test
- Two most common commands are
- docker-compose up # setup volumes/networks and start all containers
- docker-compose down # stop all containers and remove cont/vol/net

Docker-Compose Template

version: '3.1' # if no version is specificed then v1 is assumed. Recommend v2 minimum

services: # containers. same as docker run

servicename1: # a friendly name. this is also DNS name inside network

image: # Optional if you use build:

command: # Optional, replace the default CMD specified by the image

environment: # Optional, same as -e in docker run

volumes: # Optional, same as -v in docker run

servicename2:

volumes: # Optional, same as docker volume create

networks: # Optional, same as docker network create



