

Docker Compose Cheat Sheet

by Gaurav Pandey (gauravpandey44) via cheatography.com/69622/cs/20583/

Basics

Docker-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.

Need to good to yml file directory to successfully run the docker-compose commands.

docker-compose start wordpress_db :it will only start 1 service but docker-compose start : will start all the services similar is the case with other commands.

docker-compose start

Starts an existing service container.

docker-compose stop

-t, --timeout specify a shutdown timeout in seconds.(default: 10)

Stops running containers without removing them. They can be started again with docker-compose start.

docker-compose pause

Pauses running containers of a service. They can be unpaused with docker-compose unpause

docker-compose unpause

Unpauses paused containers of a service.

docker-compose restart

Restarts all stopped and running services.

docker-compose ps

-q, --quiet Only display IDs

Shows list of containers for a service.

docker-compose logs

-f, --follow Follow log output.

Displays log output from services.

docker-compose top

View the processes running within each service container.

docker-compose pull

Pulls an image associated with a service defined in a docker-compose.yml file, but does not start containers based on those images.

docker-compose rm

Removes stopped service containers. By default, anonymous volumes attached to containers are not removed. You can override this with -v. To list all volumes, use docker volume Is.

- -f, --force Don't ask to confirm the removal
- -s, --stop Stop the containers, if required, before removing
- -v Remove any anonymous volumes attached to containers

docker-compose.yml

```
version: "3.7"
services:
 wordpress_db:
   container_name: "wordpress_db"
   image: "mysq1:5.7"
    volumes:
      - ~/dockers/wordpress/.data/wordpress_-
db:/var/lib/mysql
    environment:
     MYSQL_USER: gaurav
     MYSQL_PASSWORD: victory
     MYSQL_DATABASE: db
     MYSQL_RANDOM_ROOT_PASSWORD: '1'
    networks:
      - wordpress_network
   ports:
      - 3307:3306
  wordpress web:
    container_name: "wordpress_web"
    image: "wordpress"
    volumes:
      - ~/dockers/wordpress/.data/wordpress_-
web:/var/www/html
    environment:
      WORDPRESS_DB_HOST: wordpress_db
      WORDPRESS_DB_USER: gaurav
      WORDPRESS_DB_PASSWORD: victory
     WORDPRESS_DB_NAME: db
```



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docker-compose.yml (cont)

networks:

- wordpress_network

ports:

- 8080:80

depends_on:

- wordpress_db

networks:

wordpress_network:

Dependencies

makes the db service available as the hostname database

(implies depends_on)

links:

- db:database
- redis

make sure db is alive before starting

depends_on:

- db

Network

creates a custom network called frontend
networks:

frontend:

docker compose up	
docker-compose up	use docker-compose.yml
docker-compose -f <filen- ame.yml> -f <filenameloc- al.yml> up</filenameloc- </filen- 	use custom yml files
-d,detach	background detached mode
build	forcefully Build images before starting containers.
no-build	skips the image build process
force-recreate	Recreate containers even if their configuration and image haven't changed.
no-color	Produce monochrome output.

docker compose up (cont)

--scale Scale SERVICE to NUM instances. Overrides the SERVIC- scale setting in the Compose file if present.

E=NUM

docker-compose up is used to start a project. It tries to automate a series of operations including building a mirror, (re)creating a service, starting a service, and associating a service-related container. It also builds the images if the images do not exist and starts the containers:

docker-compose down

Stops containers and removes containers, networks, volumes, and images

By default, the only things removed are:

- Containers for services defined in the Compose file
- Networks defined in the networks section of the Compose file
- The default network, if one is used created by ${\tt up.Networks}$ and volumes defined as ${\tt external}$ are never removed.

use -v to remove volumes also along with other things

docker-compose build

only builds the images, does not start the containers:

docker-compose run

Runs a one-time command against a service. For example, the following command starts the web service and runs bash as its command:

docker-compose run wordpress_db bash

docker-compose version

Prints the version of docker-compose.

docker-compose push

Pushes images for services to their respective registry/repository

docker-compose config

Validate and view the Compose file.



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Environment variables

docker-compose kill

Forces running containers to stop by sending a SIGKILL signal.

docker-compose bundle

A Dockerfile can be built into an image, and containers can be created from that image. Similarly, a docker-compose.yml can be built into a distributed application bundle

Building

```
web:
 # build from Dockerfile
 build: .
  # build from custom Dockerfile
   context: ./dir
   dockerfile: Dockerfile.dev
 # build from image
 image: ubuntu
 image: ubuntu:14.04
 image: tutum/influxdb
 image: example-registry:4000/postgresql
 image: a4bc65fd
```

Ports

```
ports:
    - "3000"
    - "8000:80" # guest:host
  # expose ports to linked services (not to host)
  expose: ["3000"]
```

Commands

```
# command to execute
 command: bundle exec thin -p 3000
 command: [bundle, exec, thin, -p, 3000]
 # override the entrypoint
 entrypoint: /app/start.sh
  entrypoint: [php, -d, vendor/bin/phpunit]
```



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Published 21st September, 2019. Last updated 23rd September, 2019. Page 3 of 3.

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environment vars

```
environment:
 RACK_ENV: development
environment:
  - RACK_ENV=development
# environment vars from file
env_file: .env
env_file: [.env, .development.env]
```

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