

# Docker Compose CLI Cheat sheet

## docker-compose build

**docker-compose build [options] [SERVICE...]**

Use: Builds docker images for the listed services in compose file.

Flag: *--no-cache* avoids image cache while building the docker image.

**docker-compose build --pull nginx-service**

It will pull the latest version of nginx image and build the latest docker image for nginx-service.

## docker-compose run

**docker-compose run [options] SERVICE [COMMAND] [ARGS...]**

Use: Runs a one-time command in a new container with same configurations of the mentioned service.

Flag: *--entrypoint CMD* overrides the entrypoint of the image.

**docker-compose run ubuntu-service bash**

It will run a bash session in a new container, with the same configurations of running ubuntu-service.

## docker-compose ps

**docker-compose ps [options] [SERVICE...]**

Use: Lists out existing containers along with their properties.

Flag: *-q* / *--quite* shows only the list of container IDs.

**docker-compose ps --all**

It will display all running as well as stopped containers initiated by docker compose with containers' properties such as container IDs, default execution commands, state of container, etc.

## docker-compose down

**docker-compose down [options]**

Use: Stops all running containers, images, volumes, networks initiated by docker-compose up command.

Flag: *--remove-orphans* removes containers for services not defined in compose file.

**docker-compose down -v**

It will remove both named volumes (mentioned in the compose file) and anonymous volumes attached to containers.

## docker-compose kill

**docker-compose kill [options] [SERVICE...]**

Use: Forces running containers to stop with SIGKILL.

Flag: *-s [SIGNAL\_NAME]* passes different types of signals to running containers.

**docker-compose kill -s SIGTERM**

It will send a termination signal to the all the compose initiated running containers.

## docker-compose up

**docker-compose up [options] [SERVICE...]**

Use: Builds, (re)creates, starts, and attaches to containers for a service.

Flag: *-d* / *--detach* runs containers in detach mode.

**docker-compose up -d**

It will start containers in background and keeps them running.

## docker-compose help

**docker-compose help COMMAND**

Use: Shows user instructions and details for a particular command.

**docker-compose help up**

It will show usage instruction and option details for up command.

## docker-compose exec

**docker-compose exec [options] SERVICE [COMMAND] [ARGS...]**

Use: Runs new commands in a running service container with default pseudo-TTY allocation.

Flag: *--privileged* gives extended privileges to processes.

**docker-compose exec ubuntu-service bash**

It will run a new bash session in the default directory of the running ubuntu-service container.

## docker-compose logs

**docker-compose logs [options] [SERVICE...]**

Use: Displays log output from services.

Flag: *--tail="10"* shows the last 10 lines of logs from each containers.

**docker-compose logs -t >> compose-logs.txt**

It will get logs of all compose initiated containers with their respective timestamps and save it to the "compose-logs.txt" file.

## docker-compose rm

**docker-compose rm [options] [SERVICE...]**

Use: Removes all stopped containers for services.

Flag: *-v* removes any anonymous volume attached to the containers.

**docker-compose rm --force**

It will remove all the stopped service containers without asking for user's approval.