

Docker Compose Cheatsheet

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This page contains a list of commonly used `docker compose` commands and flags.

Basic example

```
version: '2'
services:
  web:
    build: .
    # build from Dockerfile
    context: ./Path
    dockerfile: Dockerfile
    ports:
      - "5000:5000"
    volumes:
      - ./code
    redis:
    image: redis
```

Commands

```
docker-compose start
docker-compose stop
docker-compose pause
docker-compose unpause
docker-compose ps
docker-compose up
docker-compose down
```

Reference

Building

```
web:
# build from Dockerfile
build: .
# build from custom Dockerfile
build:
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]
```

Environment variables

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

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
```

Other options

```
# make this service extend another
extends:
file: common.yml # optional
service: webapp
volumes:
- /var/lib/mysql
- ./_data:/var/lib/mysql
```

Advanced features

Labels

```
services:
web:
labels:
com.example.description: "Accounting web app"
```

DNS servers

```
services:
web:
dns: 8.8.8.8
dns:
- 8.8.8.8
- 8.8.4.4
```

Devices

```
services:
web:
devices:
- "/dev/ttyUSB0:/dev/ttyUSB0"
```

External links

```
services:  
  web:  
    external_links:  
      - redis_1  
      - project_db_1:mysql
```

Hosts

```
services:  
  web:  
    extra_hosts:  
      - "somehost:192.168.1.100"
```