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Docker Compose Cheat sheet

Docker - Beginners | Intermediate | Advanced

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Docker Compose Cheat sheet

Here's a quick compose cheatsheet you can refer to:

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"
```
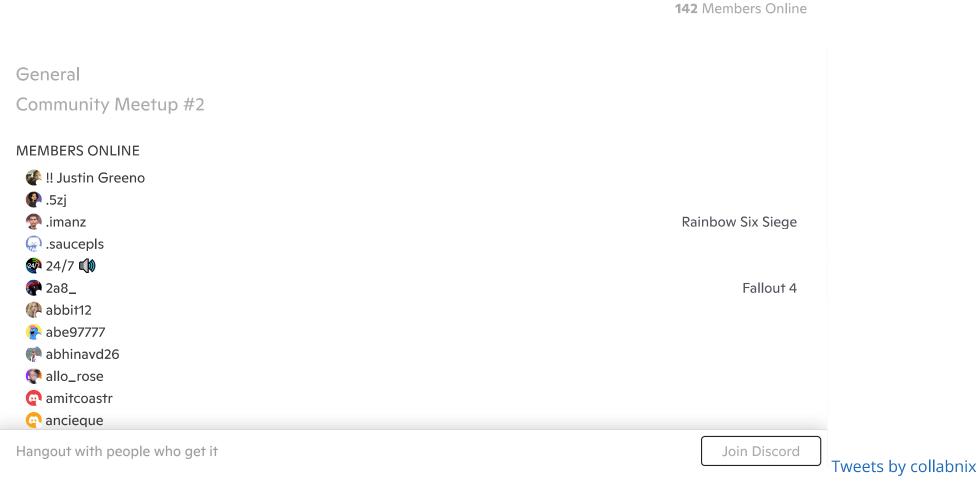
Contributors

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