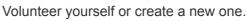
# docker-compose cheatsheet

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### Basic example

```
# docker-compose.yml
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: .
   args: # Add build arguments
     APP HOME: app
   # 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" # host:container

# 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

Dependencies env, .development.env]

# 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"
```

### **Network**

```
# creates a custom network called `frontend`
networks:
  frontend:
```

### External network

```
# join a pre-existing network
networks:
   default:
     external:
     name: frontend
```

### Volume

```
# Mount host paths or named volumes, specified as sub-options to a service
db:
   image: postgres:latest
   volumes:
    - "/var/run/postgres/postgres.sock:/var/run/postgres/postgres.sock"
```

- "dbdata:/var/lib/postgresql/data"

volumes:
dbdata: