

# Chapter 7: Docker Compose in the Real World

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## 7.1. Introduction

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Nothing important here.

## 7.2. Why is it worth to learn Docker Compose?

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It's for development and production. It automates all the Docker commands that we saw earlier.

## 7.3. Adding docker compose support to our web app

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Docker compose example:

```
version: '3'
services:
  localstack:
    image: localstack/localstack
    ports:
      - "4567-4584:4567-4584"
      - "${PORT_WEB_UI-8080}:${PORT_WEB_UI-8080}"
    environment:
      - SERVICES=${SERVICES- }
      - DEBUG=${DEBUG- }
      - DATA_DIR=${DATA_DIR- }
      - PORT_WEB_UI=${PORT_WEB_UI- }
      - LAMBDA_EXECUTOR=${LAMBDA_EXECUTOR- }
      - KINESIS_ERROR_PROBABILITY=${KINESIS_ERROR_PROBABILITY- }
      - DOCKER_HOST=unix:///var/run/docker.sock
    volumes:
      - "${TMPDIR:-/tmp/localstack}:/tmp/localstack"
  resolver:
    build: '.'
    depends_on:
      - 'localstack'
    ports:
      - '3000:3000'
    volumes:
      - './app'
```

## 7.4. Managing our web app

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Build images mentioned in docker-compose.yml:

```
docker-compose build
```

Pull images mentioned in docker-compose.yml:

```
docker-compose pull
```

Run docker compose project:

```
TMPDIR=/private$TMPDIR docker-compose up
```

Build and run docker compose project:

```
docker-compose up --build -d
```

Show docker-compose processes (working containers):

```
docker-compose ps
```

Stop or restart all docker-compose processes:

```
docker-compose stop|restart
```

Run commands on container:

```
docker-compose exec resolver ls -la  
docker-compose run resolver ls -la
```

Remove stopped containers:

```
docker-compose rm
```

We can override **CMD** sections of a Dockerfile from docker-compose.yml with **command: foo** statement.

## 7.5. Docker Compose API V1/V2/V3

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API V1 is the deprecated version. You can easily notice this, because in V1, there is no `version: N` statement. API V2 and V3 are still relevant and in use.