Docker-Compose

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Date: 10-Aug-21

Agenda

App overview

App Server code

Dockerfile & build image

Docker-Compose

Docker-Compose file

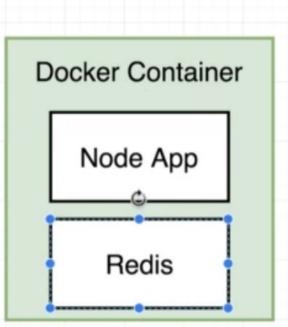
Networking with Docker-Compose

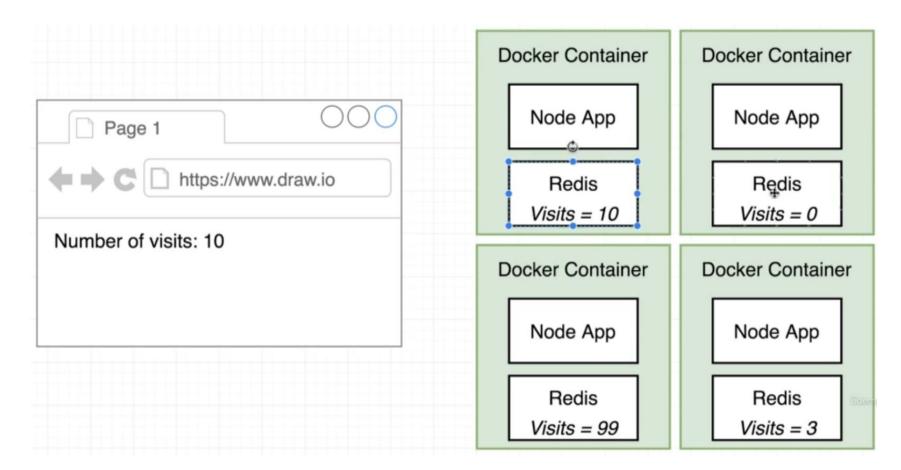
Docker-compose commands

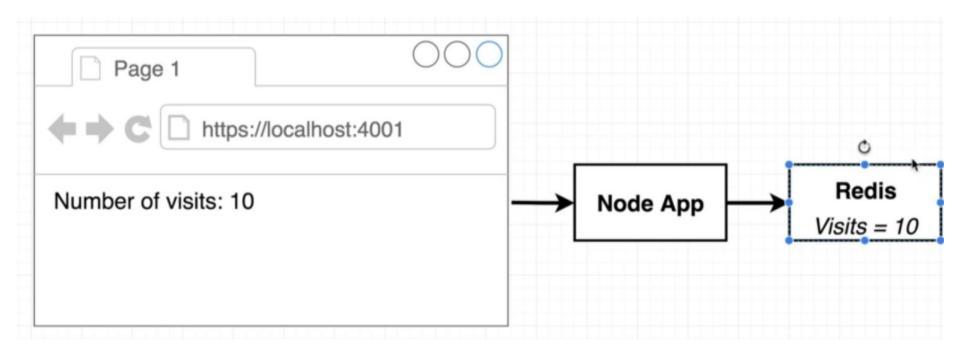
Container maintenance using Docker-Compose











App Server code

Git referencee # https://github.com/rupeshpanwar/docker-compose-app.git

Dockerfile & build image

FROM node:alpine

WORKDIR '/app'

COPY package.json .
RUN npm install
COPY . .

CMD ["npm", "install"]

Docker Compose

FROM node:alpine

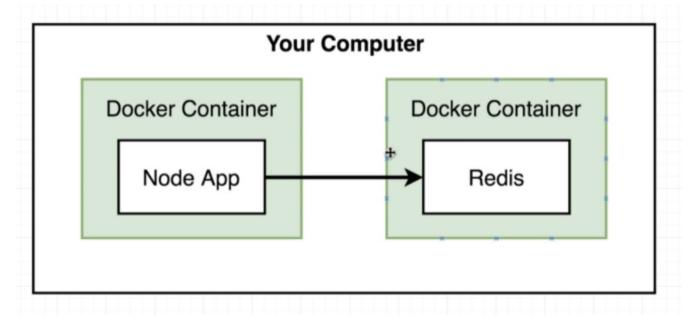
WORKDIR '/app'

COPY package.json .
RUN npm install
COPY . .

CMD ["npm", "start"]

- \$ docker build -t rupeshpanwar/visits:latest.
- \$ docker run rupeshpanwar/visits:latest
- \$ docker run redis

Docker-Compose



Docker-Compose

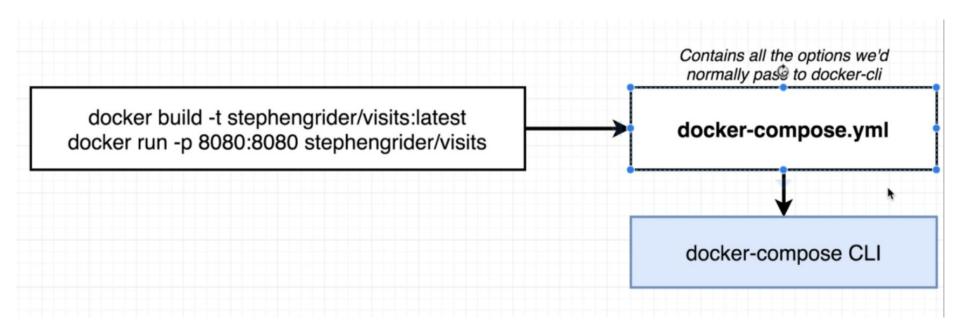
Docker Compose

Separate CLI that gets installed along with Docker

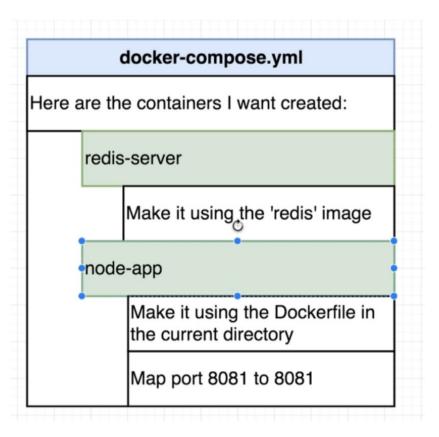
Used to start up multiple Docker containers at the same time

Automates some of the long-winded arguments we were passing to 'docker run'

Docker-Compose file



Docker-Compose file



Docker-Compose file

```
version: '3'
services:
 redis-server:
  image: 'redis'
 node-app:
  build: .
  ports:
    - "4001:8081"
```

Networking with Docker-compose

Docker-Compose commands

docker run myimage docker-compose up docker build. docker-compose up --build docker run myimage

Docker-Compose commands

\$ docker stop containerID

\$ docker-compose down

\$ docker ps

\$ docker-compose ps

Container maintenance using Docker-Compose

- \$ docker-compose up --build
- \$ docker ps

Auto-Restart Container

Restart Policies

"no"	Never attempt to restart this . container if it stops or crashes
always	If this container stops *for any reason* always attempt to restart it
on-failure	Only restart if the container stops with an error code
unless-stopped	Always restart unless we (the developers) forcibly stop it