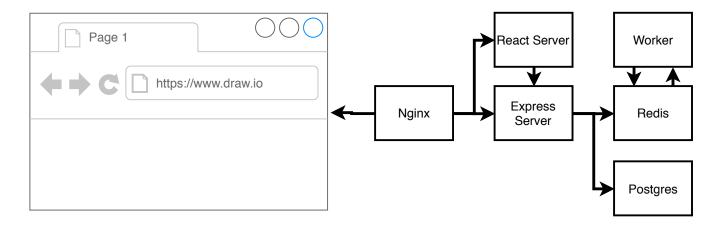
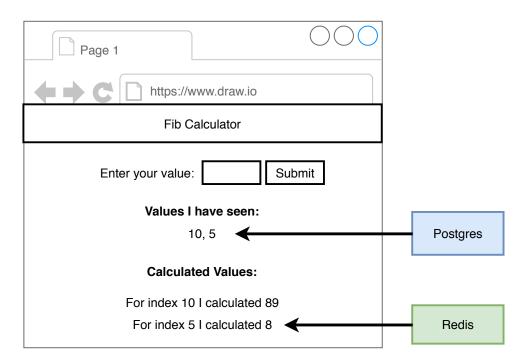
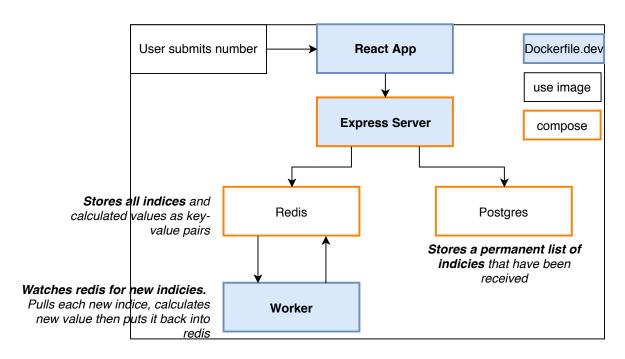
Docker for Multi Container Application

Multi Container Development Architecture







Docker-compose.yml postgres What image to use? redis What image to use? server(express : api) Specify build Specify volumes Specify env variables nginx Route a client requust Specify build Ports setting depends_on worker Calculate numbers Specify build Specify volumes client send user request Specify build

version: '3' services:

postgres:

image: 'postgres:latest'

redis

image: 'redis:latest'

api: build:

dockerfile: Dockerfile.dev

context: ./server

volumes:

- /app/node_modules
- ./server:/app

depends on:

- postgres

environment:

- REDIS_HOST=redis
- REDIS_PORT=6379
- PGUSER=postgres
- PGHOST=postgres
- PGDATABASE=postgres
- PGPASSWORD=postgres_password
- PGPORT=5432

nginx:

restart: always

build:

dockerfile: Dockerfile.dev

context: ./nginx

ports:

- '3050:80'

depends_on:

- api
- client

worker:

build:

dockerfile: Dockerfile.dev

context: ./worker

volumes:

- /app/node_modules
- ./worker:/app

environment:

- REDIS HOST=redis
- REDIS PORT=6379

client:

build:

dockerfile: Dockerfile.dev

context: ./client

volumes:

- /app/node_modules
- ./client:/app

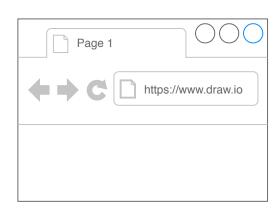
Environment Variables

variableName=value

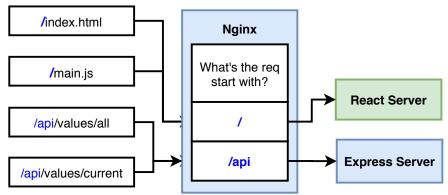
variableName

Sets a variable in the container at *run time* Sets a variable in the container at *run time*

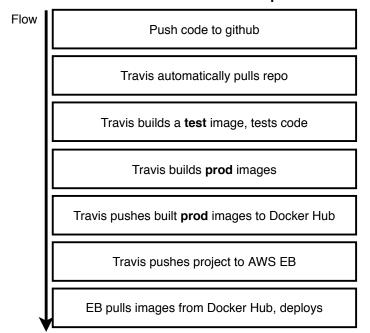
Value is taken from *your computer*

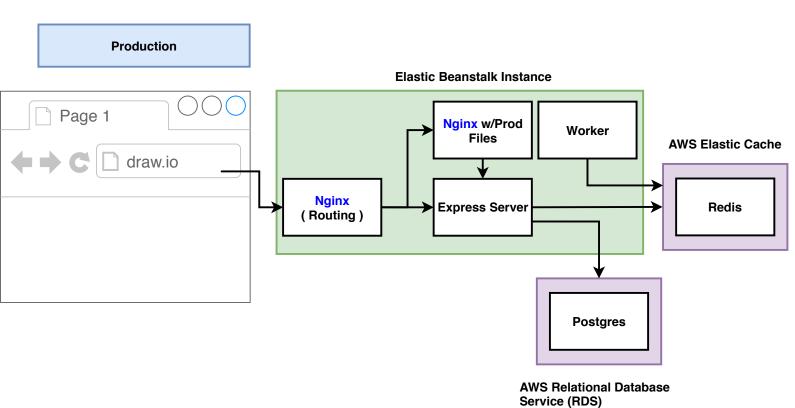


Specify volumes



Multi Container Setup





Travis Configuration (.travis.yml) sudo: required services: before_install: - docker build -t jsmile/complex -f ./client/Dockerfile.dev script: - docker run jsmile/complex npm test -- --coverage after_success: - docker build jsmile/multi-client ./client - docker build jsmile/multi-nginx ./nginx - docker build jsmile/multi-worker ./worker # Login docker CLI - echo "\$DOCKER_PASSWORD" I docker login -u "\$DOCKER_ID" --password-stdin # Login docker CLI - docker push jsmile/multi-client - docker push jsmile/multi-nginx docker push jsmile/multi-server

docker push jsmile/multi-worker