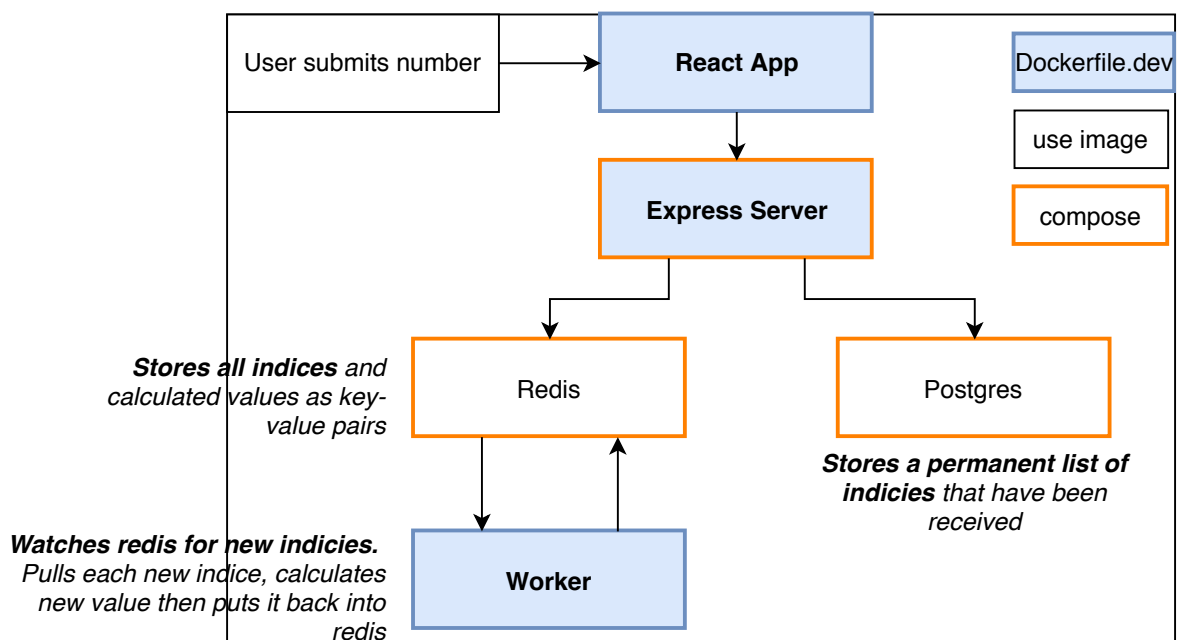
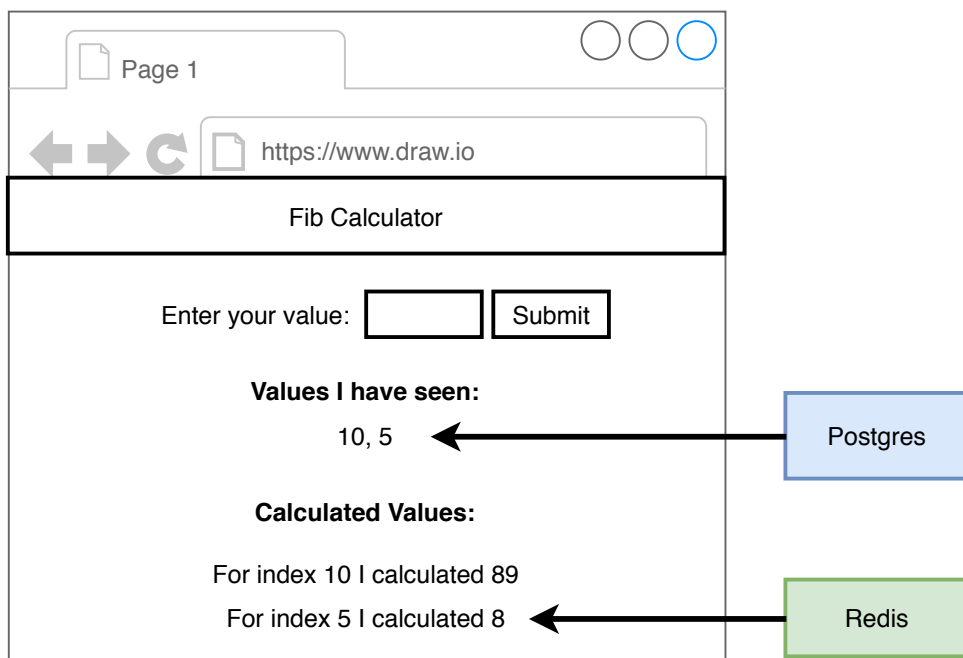
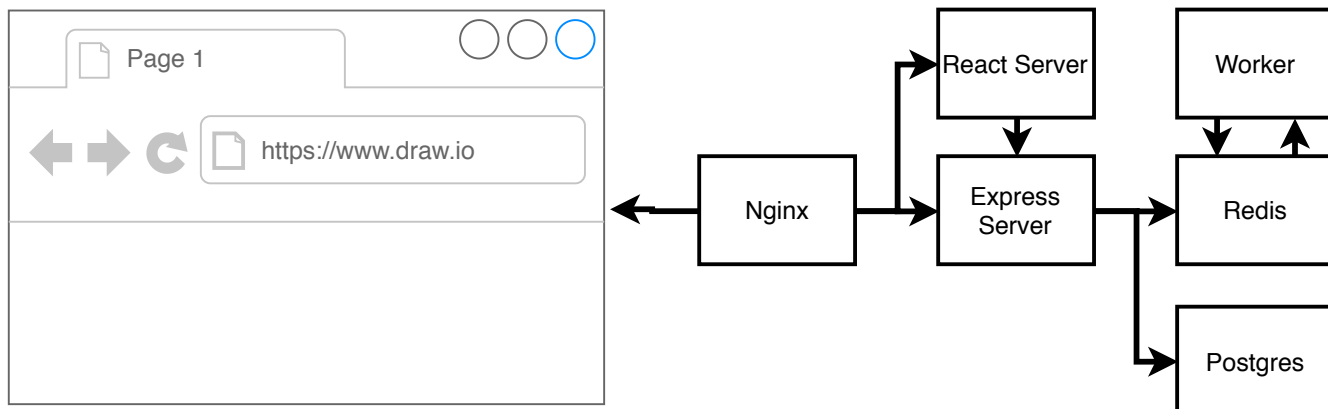


## Docker for Multi Container Application

### 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 request
- Specify build
- Ports setting
- depends\_on

### worker

- Calculate numbers
- Specify build
- Specify volumes

### client

- send user request
- Specify build
- Specify volumes

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

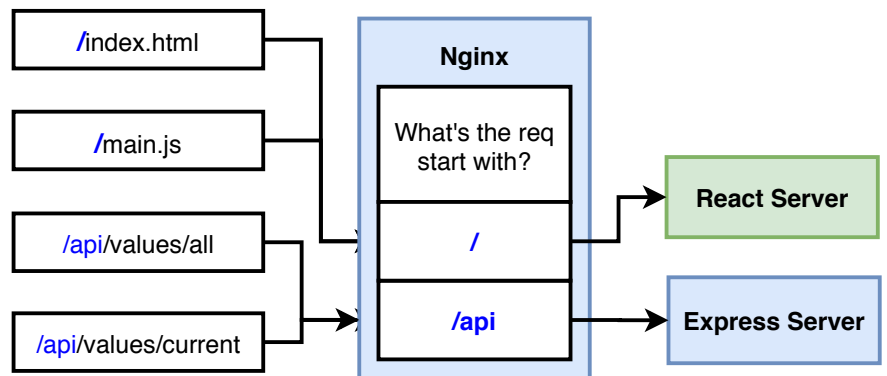
variableName=value

variableName

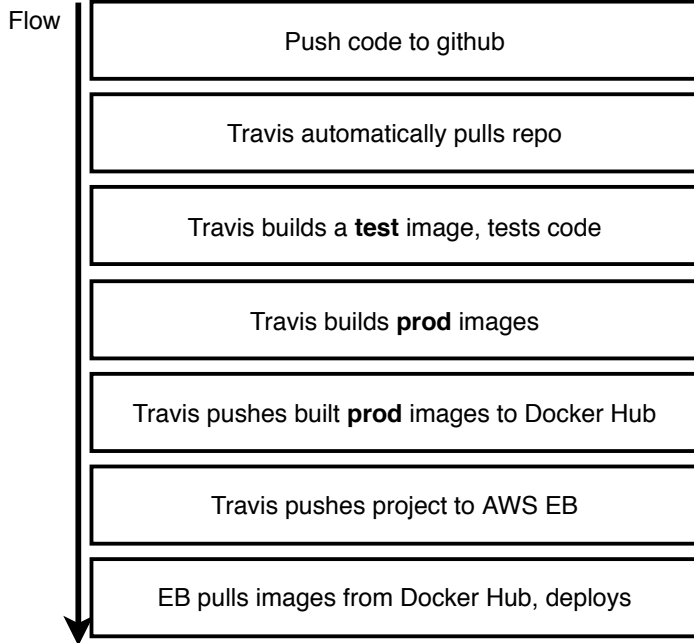
**Sets a variable in the container at \*run time\***

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

**Value is taken from \*your computer\***



## Multi Container Setup



## Production

