

How To Run The Software

- The following steps are tested on Ubuntu 18.04.
- Please install docker and docker-compose.
- Extract the file affinidi-coding-challenge.tar.gz attached.
- cd prog-image
- docker-compose build
- docker-compose up
- Now the server runs on localhost:8080

Code Explanation

- Nodejs/Expressjs is used on back-end side
- Microservice architecture is used in the current code. It means we have 2 services for database(postgres)and back-end.
- docker-compose is currently used for container orchestration. But in a very serious and high number of users, kubernetes or maybe some cloud service(AWS) alternatives can be used instead.
- API is implemented by RESTAPI
 - Post /upload API upload multi images by using Multer. images stored in local storage and name,type and path insert into image table in postgres.
 - Get /download/:_id API retrieve image
 - Get /reformat/:nam API reformat image by using sharp then return new URL for retrieve image
- Automated tests that test image upload by using Mocha and chai