DOCKER 13장 DOCKER HUB 사용하기

Docker Hub

- https://hub.docker.com
- 공개 저장소(Public Repository)
 - Docker 이미지를 다른 사람들과 공유
 - 개수제안없이무료생성
- 개인 저장소(Private Repository)
 - Docker 이미지를 다른 사람들과 공유 하지 않음.
 - 1개까지는 무료, 그 이상은 유료

Docker Hub

rocker/rstudio ☆

Last pushed: 4 hours ago

Repo Info

Tags

Dockerfile

Build Details

Short Description

RStudio Server image

Full Description

Using the rocker/rstudio container

Quickstart

docker run -d -p 8787:8787 rocker/rstudio

Visit localhost:8787 in your browser and log in with username:password as rstudio:rstudio.

Notes:

- The rocker/rstudio is now part of the versioned stack. To request the rstudio image with a particular version of R, use the tag corresponding to the R version (e.g. rocker/rstudio:3.4.0, or rocker/rsudio:devel), or omit the tag to always get the latest stable release.
- Consequently, the Dockerfiles for these versions are on rocker-versioned github repo. Dockerfiles in rockerorg/rockr are just aliases, execpt for testing tag, which builds on r-base image from this repo (and thus
 on debian:testing) rather than rocker/r-ver.

Docker Pull Command



docker pull rocker/rstudio

Owner

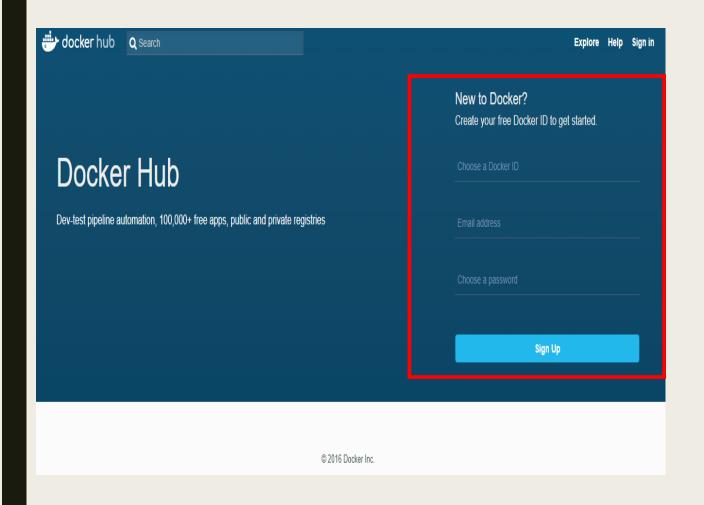


rocker

Source Repository

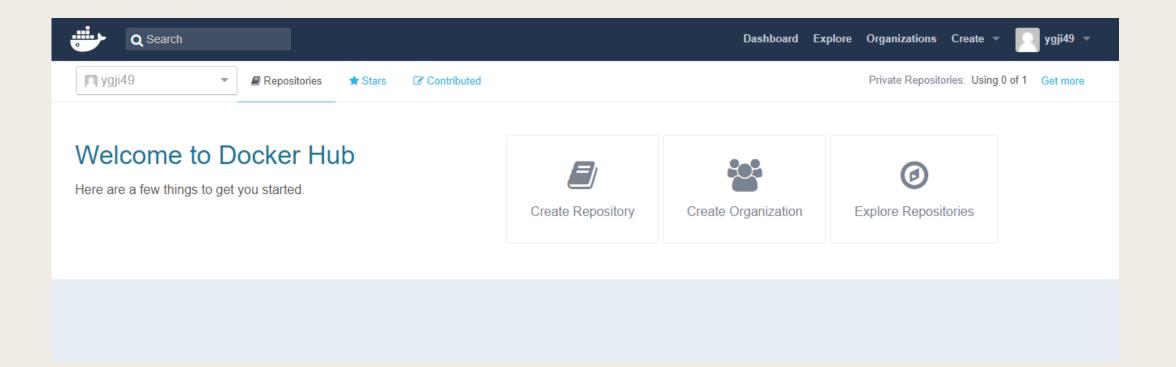


Docker Hub 가입하기





Docker Hub 가입하기



push 명령으로 이미지 올리기

- Docker Hub 공개 저장소(Public Repository)에 example-nginx 디렉터리를 생성
- Dockerfile 작성하고 올리기
- ~\$ mkdir example-nginx
- ~\$ cd example-nginx
- ~\$ vi Dockerfile

FROM ubuntu:14.04

MAINTAINER Foo Bar <exampleuser@example.com>

RUN apt-get update RUN apt-get install -y nginx

RUN echo "\ndaemon off;" >> /etc/nginx/nginx.conf

RUN chown -R www-data:www-data/var/lib/nginx

VOLUME ["/data", "/etc/nginx/site-enabled", "/var/log/nginx"]

WORKDIR /etc/nginx

CMD ["nginx"]

EXPOSE 80

EXPOSE 443

~/example-nginx\$ docker build --tag ygji49/example-nginx:0.1 .

push 명령으로 이미지 올리기

■ Docker Hub에 이미지를 올리려면 이미지 이름을 <Docker Hub 사용자 계정>/<이미지 이름>:<태그> 형식

~/example-nginx\$ docker login

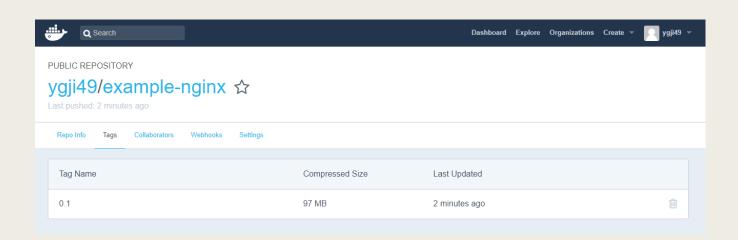
Username: ygji49

Password:

Email: ygji49@gmail.com

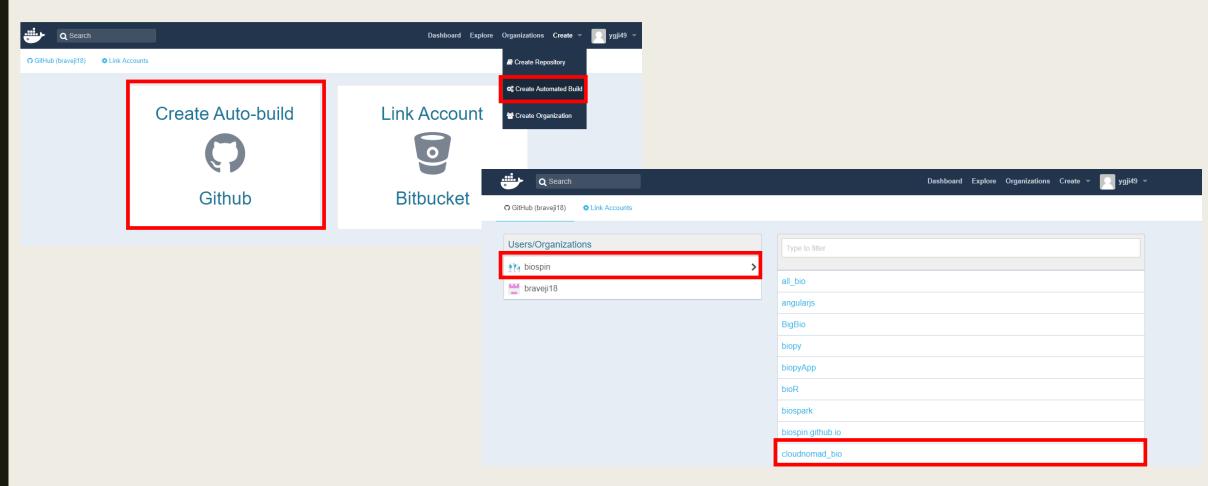
Login Succeeded

~/example-nginx\$ docker push ygji49/example-nginx:0.1

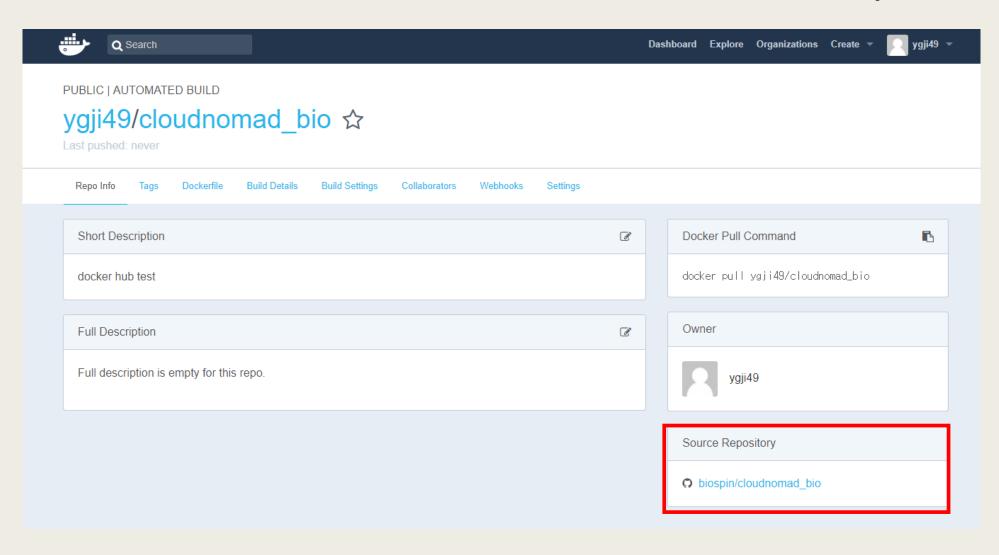


Docker Hub Automated Build 활용하기

■ Docker Hub는 GitHub과 BitBucket을 연동하여 이미지를 자동 빌드하는 기능을 제공



Docker Hub Automated Build 활용하기



DOCKER 14장 DOCKER REMOTE API 사용하기

- Docker Remote API가 Docker Engine SDKs and API 로 변경됨.
- https://docs.docker.com/develop/sdk/
- Python SDK
 - yum -y update
 - curl "https://bootstrap.pypa.io/get-pip.py" -o "get-pip.py"
 - python get-pip.py
 - Recommended: Run pip install docker.
 - pip install websocket-client
 - pip install docker-pycreds

- \$docker run 명령어를 python 또는 HTTP 로 실행
 - import docker
 - client = docker.from_env()
 - print client.containers.run("alpine", ["echo", "hello", "world"])
 - \$ curl --unix-socket /var/run/docker.sock -H "Content-Type: application/json" \
 - -d '{"Image": "alpine", "Cmd": ["echo", "hello world"]}' \
 - X POST http:/v1.24/containers/create
 - {"Id":"1c6594faf5","Warnings":null}
 - \$ curl --unix-socket /var/run/docker.sock -X POST http:/v1.24/containers/1c6594faf5/start
 - \$ curl --unix-socket /var/run/docker.sock -X POST http:/v1.24/containers/1c6594faf5/wait
 - {"StatusCode":0}
 - \$ curl --unix-socket /var/run/docker.sock "http:/v1.24/containers/1c6594faf5/logs?stdout=1"
 - hello world

- Run a container in the background
 - import docker
 - client = docker.from_env()
 - container = client.containers.run("bfirsh/reticulate-splines", detach=True)
 - print container.id
- List and manage containers
 - import docker
 - client = docker.from_env()
 - for container in client.containers.list():
 - print container.id

- Stop all running containers
 - import docker
 - client = docker.from_env()
 - for container in client.containers.list():
 - container.stop()
- Print the logs of a specific container
 - import docker
 - client = docker.from_env()
 - container = client.containers.get('f1064a8a4c82')
 - print container.logs()

- List all images
 - import docker
 - client = docker.from_env()
 - for image in client.images.list():
 - print image.id
- Pull an image
 - import docker
 - client = docker.from_env()
 - image = client.images.pull("alpine")
 - print image.id