

# 도커 이미지 무작정 따라하기

## 1. 이미지 기반 컨테이너 생성

```
docker run --name my-nginx -d -p 8080:80 nginx
```

8080은 컨테이너가 Listen하는 포트이고, 80은 이미지가 Reading하는 Port

```
root@labs-910775232:/home/project# docker image ls
REPOSITORY          TAG          IMAGE ID      CREATED      SIZE
root@labs-910775232:/home/project# docker run --name my-nginx -d -p 8080:80 nginx
Unable to find image 'nginx:latest' locally
latest: Pulling from library/nginx
f7a1c6dad281: Pull complete
4d3e1d15534c: Pull complete
9ebb164bd1d8: Pull complete
59baa8b00c3c: Pull complete
a41ae70ab6b4: Pull complete
e3908122b958: Pull complete
Digest: sha256:1c13bc6de5dfca749c377974146ac05256791ca2fe1979fc8e8278bf0121d285
Status: Downloaded newer image for nginx:latest
53dad9efb65c2ad16a6eadabd5b5335c34fd326eeb69be78165c9dc5bb002360
root@labs-910775232:/home/project# docker container ls
CONTAINER ID      IMAGE      COMMAND      CREATED      STATUS      PORTS      NAMES
53dad9efb65c      nginx      "/docker-entrypoin..."  14 seconds ago  Up 12 seconds  0.0.0.0:8080->80/tcp  my-nginx
root@labs-910775232:/home/project# docker image ls
REPOSITORY          TAG          IMAGE ID      CREATED      SIZE
nginx               latest      c919045c4c2b  9 days ago  142 MB
root@labs-910775232:/home/project#
```

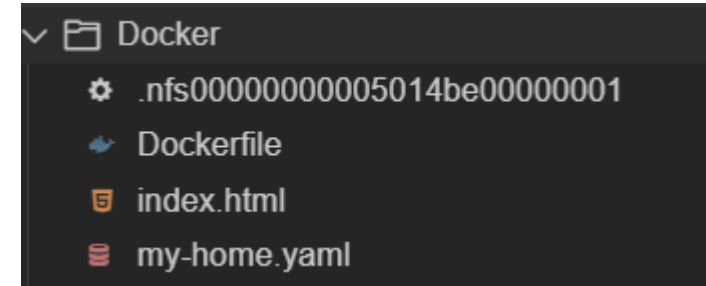
## 2. 이미지 생성하고 Remote Registry([Hub.docker.com](https://hub.docker.com))에 푸시하기

### index.html 생성

```
1 Hi~ My name is Hong Gil-Dong...~~~
```

### Dockfile (확장자 없음) 생성

```
FROM nginx
COPY index.html /usr/share/nginx/html/
```



### 이미지 빌드하기

```
root@labs-910775232:/home/project/Docker# docker build -t jung2uncan/welcome:v1 .
Sending build context to Docker daemon 3.072 kB
Step 1/2 : FROM nginx
latest: Pulling from library/nginx
f7a1c6dad281: Pull complete
4d3e1d15534c: Pull complete
9ebb164bd1d8: Pull complete
59baa8b00c3c: Pull complete
a41ae70ab6b4: Pull complete
e3908122b958: Pull complete
Digest: sha256:1c13bc6de5dfca749c377974146ac05256791ca2fe1979fc8e8278bf0121d285
Status: Downloaded newer image for nginx:latest
--> c919045c4c2b
Step 2/2 : COPY index.html /usr/share/nginx/html/
--> a5a030cf23a7
Successfully built a5a030cf23a7
Successfully tagged jung2uncan/welcome:v1
root@labs-910775232:/home/project/Docker# docker image ls
```


REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
jung2uncan/welcome	v1	a5a030cf23a7	3 seconds ago	142 MB
nginx	latest	c919045c4c2b	9 days ago	142 MB


### 3. 이미지 원격 저장소에 푸시하기

**docker login**

```
root@labs-910775232:/home/project/Kubernetes-basic# docker login
Login with your Docker ID to push and pull images from Docker Hub. If you don't have
a Docker ID, head over to https://hub.docker.com to create one.
Username: jung2uncan
Password:
Login Succeeded
```

<https://hub.docker.com/>의 내 레파지토리 정보

| 

 Search by repository name

jung2uncan / **welcome**

Last pushed: a few seconds ago

**docker push jung2uncan/welcome:v1**

```
root@labs-910775232:/home/project/Docker# docker push jung2uncan/welcome:v1
The push refers to repository [docker.io/jung2uncan/welcome]
1c7733d08735: Pushed
e4b39f949587: Mounted from library/nginx
53db376e88c7: Mounted from library/nginx
d3ae25fc9f7a: Mounted from library/nginx
3baebd9b50ad: Mounted from library/nginx
57a9a0cdd450: Mounted from library/nginx
1401df2b50d5: Mounted from library/nginx
v1: digest: sha256:57b072d5d4da4bac739a960b1be4cd6c777a783a82f9f043cb77c9522812457d size: 1777
```

# Docker Hub 이미지 기반 컨테이너 생성

`docker image rm jung2uncan/welcome:v1`

이미지 삭제

```
root@labs-910775232:/home/project/Docker# docker image rm jung2uncan/welcome:v1
Untagged: jung2uncan/welcome:v1
Untagged: jung2uncan/welcome@sha256:57b072d5d4da4bac739a960b1be4cd6c777a783a82f9f043cb77c9522812457d
Deleted: sha256:a5a030cf23a7355f7f65ff27aa88d1cb445d23dc2e2472ad8af2ff05d2bb55e0
Deleted: sha256:22bd879c83e4d991f7d5a69e04428158e3f8abd94184b5d9ba2c0520f735a2e4
```

`docker run --name=welcome -d -p 8080:80 jung2uncan/welcome:v1`

```
root@labs-910775232:/home/project/Docker# docker run --name my-home -d -p 8088:80 jung2uncan/welcome:v1
Unable to find image 'jung2uncan/welcome:v1' locally
v1: Pulling from jung2uncan/welcome
f7a1c6dad281: Pull complete
4d3e1d15534c: Pull complete
9ebb164bd1d8: Pull complete
59baa8b00c3c: Pull complete
a41ae70ab6b4: Pull complete
e3908122b958: Pull complete
215621a54a9e: Pull complete
Digest: sha256:57b072d5d4da4bac739a960b1be4cd6c777a783a82f9f043cb77c9522812457d
Status: Downloaded newer image for jung2uncan/welcome:v1
```