

# Docker compose 사용 실습

```
*** System restart required ***
Last login: Mon Apr 20 05:35:46 2020 from 180.71.162.76
ubuntu@ip-172-31-46-150:~$ mkdir wordpress
ubuntu@ip-172-31-46-150:~$ cd wordpress
ubuntu@ip-172-31-46-150:~/wordpress$ sudo curl -L "https://github.com/docker/com
pose/releases/download/1.25.5/docker-compose-$(uname -s)-$(uname -m)" -o /usr/lo
cal/bin/docker-compose
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
100  638    100  638    0     0   2140      0  --:--:-- --:--:-- --:--:--   2140
100 16.7M    100 16.7M    0     0 6211k      0  0:00:02  0:00:02 --:--:-- 8606k
ubuntu@ip-172-31-46-150:~/wordpress$ sudo chmod +x /usr/local/bin/docker-compose
ubuntu@ip-172-31-46-150:~/wordpress$ docker-compose --version
docker-compose version 1.25.5, build 8a1c60f6
ubuntu@ip-172-31-46-150:~/wordpress$ vim docker-compose.yml
ubuntu@ip-172-31-46-150:~/wordpress$ ls -la
total 12
drwxrwxr-x  2 ubuntu ubuntu 4096 Apr 22 06:32 .
drwxr-xr-x 24 ubuntu ubuntu 4096 Apr 22 06:32 ..
-rw-rw-r--  1 ubuntu ubuntu  591 Apr 22 06:32 docker-compose.yml
ubuntu@ip-172-31-46-150:~/wordpress$ sudo docker rm -f $(sudo docker ps -a -q)
765328ec9f5f
c4c661a3807f
7a54624d9cb5
c40ec2850913
6076b3001a00
```

우선 wordpress라는 directory를 만들었다.

Docker-compose를 install 하였다.

실행 허가 권한을 준다.

Docker-compose version 확인을 해보았다.

YAML 파일을 만들었다.

Docker-compose를 사용하여 동작 시키고  
확인예 용이하게 만들기위해 지금 동작중인  
container들을 remove하였다.

```
c40ec2850913
6076b3001a00
ubuntu@ip-172-31-46-150: ~/wordpress$ sudo docker-compose up -d
Creating network "wordpress_default" with the default driver
Creating volume "wordpress_db_data" with default driver
Pulling db (mysql:5.7)...
5.7: Pulling from library/mysql
123275d6e508: Pull complete
27cddf5c7140: Pull complete
c17d442e14c9: Pull complete
2eb72ffed068: Pull complete
d4aa125eb616: Pull complete
52560afb169c: Pull complete
68190f37a1d2: Pull complete
3fd1dc6e2990: Pull complete
85a79b83df29: Pull complete
963449796e8c: Pull complete
003c42612f11: Pull complete
Digest: sha256:517d651577278f3e30ba93ad7c0ed342fdc8550bcde96a54b33ef0580ffec079
Status: Downloaded newer image for mysql:5.7
Pulling wordpress (wordpress:latest)...
latest: Pulling from library/wordpress
123275d6e508: Already exists
```

Docker-compose YAML 파일을 실행해보았다.

YAML 파일의 내용은 오른쪽과 같다.

Wordpress가 db의 container를 사용할 수 있도록  
해 놓았다.

Wordpress port는 EC2 8000번으로 들어오면 80으로 오도록 되어  
있다.

```
ubuntu@ip-172-31-46-150: ~/wordpress
version: '3.3'
services:
  db:
    image: mysql:5.7
    volumes:
      - db_data:/var/lib/mysql
    restart: always
    environment:
      MYSQL_ROOT_PASSWORD: somewordpress
      MYSQL_DATABASE: wordpress
      MYSQL_USER: wordpress
      MYSQL_PASSWORD: wordpress

  wordpress:
    depends_on:
      - db
    image: wordpress:latest
    ports:
      - "8000:80"
    restart: always
    environment:
      WORDPRESS_DB_HOST: db:3306
      WORDPRESS_DB_USER: wordpress
      WORDPRESS_DB_PASSWORD: wordpress
      WORDPRESS_DB_NAME: wordpress
volumes:
  db_data: {}
```

```
f3405a667708: Pull complete
245e1ee1a417: Pull complete
Digest: sha256:33a06dabbb6824706881ceed0b5d5251fbb92c077bb24ee33d8f173ac835dfee
Status: Downloaded newer image for wordpress:latest
Creating wordpress_db_1 ... done
Creating wordpress_wordpress_1 ... done
ubuntu@ip-172-31-46-150:~/wordpress$ sudo docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED
42f085775c35	wordpress:latest	"docker-entrypoint.s..."	8 hours ago
Up 8 hours	0.0.0.0:8000->80/tcp	wordpress_wordpress_1	
83860c3352e6	mysql:5.7	"docker-entrypoint.s..."	8 hours ago
Up 8 hours	3306/tcp, 33060/tcp	wordpress_db_1	

```
ubuntu@ip-172-31-46-150:~/wordpress$
```

Docker-compose를 이용한 container가 성공적으로 생성되었다.

Docker ps 를 통해 동작하고 있는 container들을 확인해 보았다.

EC2 IP에 8000번 port로 접속한 결과는 다음과 같다.

