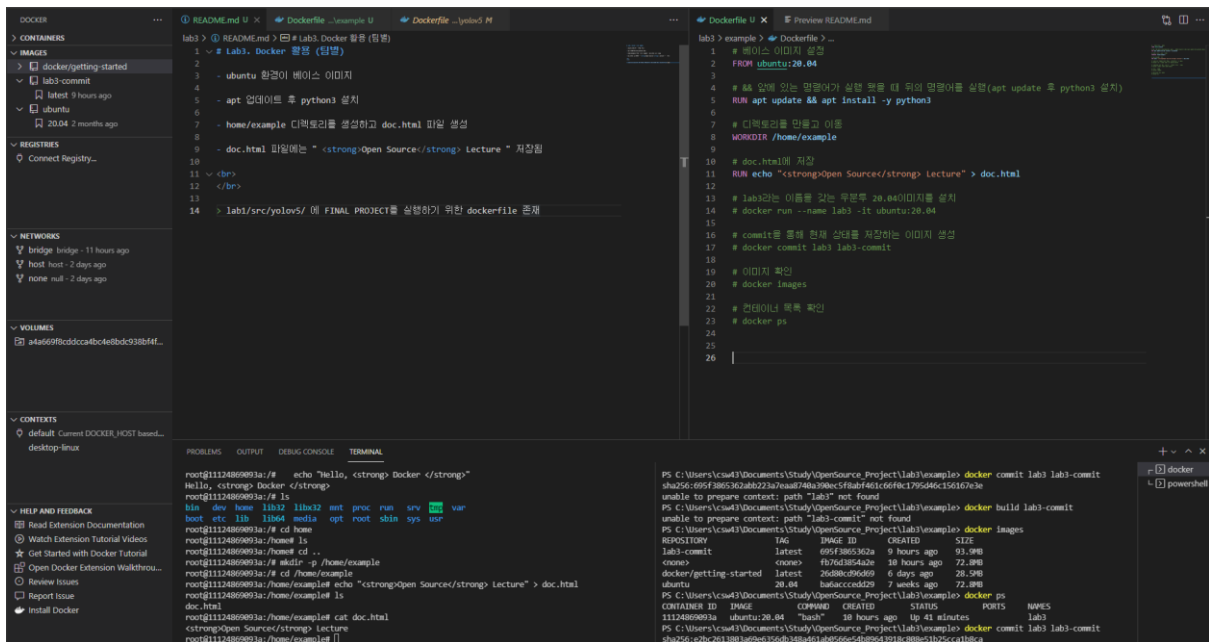


## Lab 3. Docker 활용



1. 우분투 20.04버전을 베이스 이미지로 지정하고 그 이름을 lab3라 한다.

# docker run [OPTIONS] IMAGE [COMMAND] [ARG...]

<Power Shell>

```
PS C:\Users\csw43\Documents\Study\OpenSource_Project> cd .\lab3\example\
PS C:\Users\csw43\Documents\Study\OpenSource_Project\lab3\example> docker run --name lab3 -it ubuntu:20.04
```

2. apt를 update하고 python3 환경을 설치한다

<Power Shell>

```
root@11124869093a:/# apt update && apt install -y python3
Hit:1 http://archive.ubuntu.com/ubuntu focal InRelease
Get:2 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Get:3 http://archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:4 http://archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]
Reading package lists... Done
```

< dockerfile>

```
# && 앞에 있는 명령어가 실행 됐을 때 뒤의 명령어를 실행(apt update 후 python3 설치)
RUN apt update && apt install -y python3
```

3. 디렉토리를 생성하고 생성한 위치로 이동해 파일을 생성하는 명령은 다음과 같다

<Power Shell / lab3 Container>

```
root@11124869093a:/# mkdir -p /home/example
root@11124869093a:/# cd /home/example
root@11124869093a:/home/example# echo "<strong>Open Source</strong> Lecture" > doc.html
root@11124869093a:/home/example# ls
doc.html
root@11124869093a:/home/example# cat doc.html
<strong>Open Source</strong> Lecture
```

<dockerfile>

```
# 디렉토리를 만들고 이동
WORKDIR /home/example

# doc.html에 저장
RUN echo "<strong>Open Source</strong> Lecture" > doc.html
```

4. 도커명령으로 현재 컨테이너 상태 확인, 로드된 이미지 확인, 현재 작업 상태 커밋

<Power Shell>

```
PS C:\Users\csw43\Documents\Study\OpenSource_Project\lab3\example> docker ps
CONTAINER ID   IMAGE          COMMAND        CREATED        STATUS        PORTS        NAMES
11124869093a   ubuntu:20.04   "bash"        10 hours ago   Up About an hour               lab3
PS C:\Users\csw43\Documents\Study\OpenSource_Project\lab3\example> docker images
REPOSITORY      TAG           IMAGE ID       CREATED        SIZE
lab3-commit     latest       e2bc2613803a   10 hours ago   93.9MB
docker/getting-started latest       26d80cd96d69   7 days ago    28.5MB
ubuntu          20.04        ba6acccedd29   7 weeks ago    72.8MB
PS C:\Users\csw43\Documents\Study\OpenSource_Project\lab3\example> docker commit lab3 lab3-commit
sha256:7cfeedf608957ee06c622bb5f2e097304b81c6b37b8c7de92952a2075542bdef
```