

# Docker

주로 Ubuntu를 사용한다.

- ▶ On different OS, same environment
- ▶ Isolated from the host OS
- ▶ Can be run on a cloud

다음 2가지 용어를 구분하자. 간단하게 다음과 같이 비유할 수 있다.

1. Docker Image: Windows Backup 이미지
2. Docker Container: Windows Backup 이미지로 초기화한 컴퓨터

# Dockerfile

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```
1 FROM pytorch/pytorch:2.0.1-cuda11.7-cudnn8-runtime
2 RUN apt-get update
3 RUN apt install -y git
4 RUN git clone https://github.com/DLR-RM/stable-baselines3.git
5 RUN cd stable-baselines3 && pip install '.[extra_no_roms]'
6 RUN pip install hydra-core scipy seaborn
7 WORKDIR /workspace
```

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# Create Docker Image

1. `git clone https://github.com/yoongu/ezlab-rl`
2. `cd ezlab-rl`
3. `docker build . -t sb3`
4. You can check your created docker image named sb3 by running `docker images`.

# Create Docker Container and Run your code

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```
1 docker run --gpus all -it \  
2     -v /home/yoongu/ezlab-rl:/workspace \  
3     sb3 bash  
4 python sir_ppo.py
```

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