

Ubuntu tensorflow

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In windows environment

1. Install docker from <https://docs.docker.com/docker-for-windows/install/#download-docker-for-windows>
2. Install ubuntu by docker comment 'docker pull ubuntu'
3. Enable docker ubuntu and mount share disk with windows

```
docker run -it -v d:\tensor_share:/mnt/ --name "miyuki_ubuntu" ubuntu bash
```

```
Docker run -it -p 8888:8888 -v d:\tensor_share:/mnt/ --name akuma_ubuntu ubuntu bash
```

In ubuntu environment

//基本編輯器vim及terminal 配色

1. apt update
2. apt-get install vim
3. vim /etc/vim/vimrc
set nu
colorscheme desert
4. vim /etc/bash.bashrc
LS_COLORS=\$LS_COLORS:'di=1;33:' ; export LS_COLORS
5. Source /etc/bash.bashrc
6. apt-get install git
7. apt-get install wget

//安裝 python 3.5 (根據 ai lab memo方式)

1. apt-get update && apt-get install -y python3 python3-pip python3-setuptools
2. pip3 install --upgrade pip numpy ipykernel jupyter matplotlib Pillow pandas

//安裝 tensorflow

1. pip3 install --upgrade https://bazel.blob.core.windows.net/tensorflow/tensorflow-1.2.1-cp35-cp35m-linux_x86_64.whl

//執行基本要求

1. 執行 jupyter service in ubuntu by jupyter notebook "\$@"
Jupyter notebook --certfile=mycert.pem --keyfile=mykey.ky --allow-root

//安裝 openCV 相關模組

1. apt-get install -y ffmpeg openexr webp
2. pip3 install https://bazel.blob.core.windows.net/opencv/opencv_python-3.2.0-cp35-cp35m-linux_x86_64.whl

jupyter notebook --generate-config --allow-root

openssl req -x509 -nodes -days 365 -newkey rsa:1024 -keyout mycert.pem -out mycert.pem