

IoT·인공지능·빅데이터 개론 및 실습

실습 준비를 위한 setting

황익원 (Uiwon Hwang)

Seoul National University
Data Science & Artificial Intelligence Laboratory

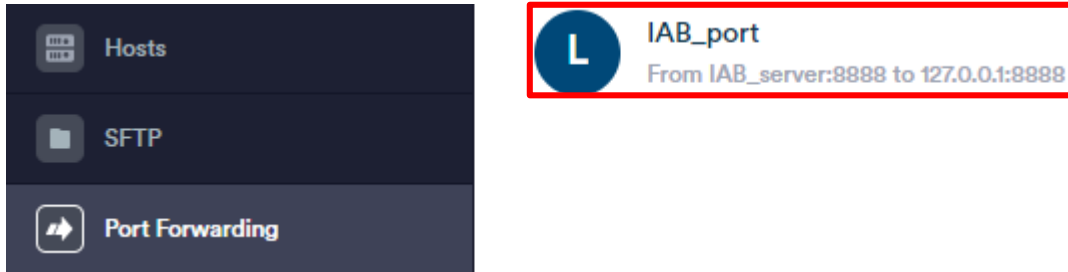
2019.03.15

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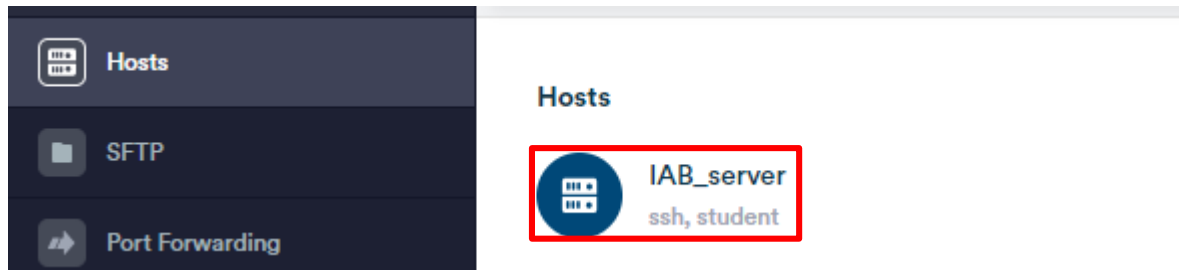
- Scikit-learn 패키지 설치하기
- 실습자료 불러오기
- Jupyter Notebook 실행하기

Scikit-learn 패키지 설치하기

- Termius를 실행시킨 후 Port Forwarding의 IAB_port 더블클릭



- Hosts의 IAB_server 더블클릭하여 서버에 접속



- 터미널에 **source activate iabenv**를 입력하여 가상환경 활성화

```
*** System restart required ***  
Last login: Thu Mar  7 13:01:48 2019 from 147.46.123.234  
student@IABENG100:~$ source activate iabenv  
(iabenv) student@IABENG100:~$
```

Scikit-learn 패키지 설치하기



- 오늘 실습에 사용될 패키지: **Scikit-learn**
- 터미널에 **conda install scikit-learn**을 입력하여 패키지 설치

```
student@IABENG100:~$ source activate iabenv
(iabenv) student@IABENG100:~$ conda install scikit-learn
Solving environment: -
```

- 엔터키를 눌러 설치를 진행

```
The following NEW packages will be INSTALLED:

scikit-learn: 0.20.3-py27hd81dba3_0
scipy:        1.2.1-py27h7c811a0_0

Proceed ([y]/n)?
```

실습자료 불러오기

- Github repository에 업로드 된 실습자료 불러오기

- 터미널에 `git clone https://github.com/iab-dsail/material_0315` 입력

```
(iabenv) student@IABENG100:~$ git clone https://github.com/iab-dsail/material_0315
```

```
Cloning into 'material_0315'...
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Compressing objects: 100% (7/7), done.
remote: Total 7 (delta 2), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (7/7), done.
Checking connectivity... done.
```

- 터미널에 `ls` (폴더 및 파일 list 보기) 입력하여 material_0315 폴더 생성 확인

```
(iabenv) student@IABENG100:~$ ls
material_0308 material_0315
(iabenv) student@IABENG100:~$
```

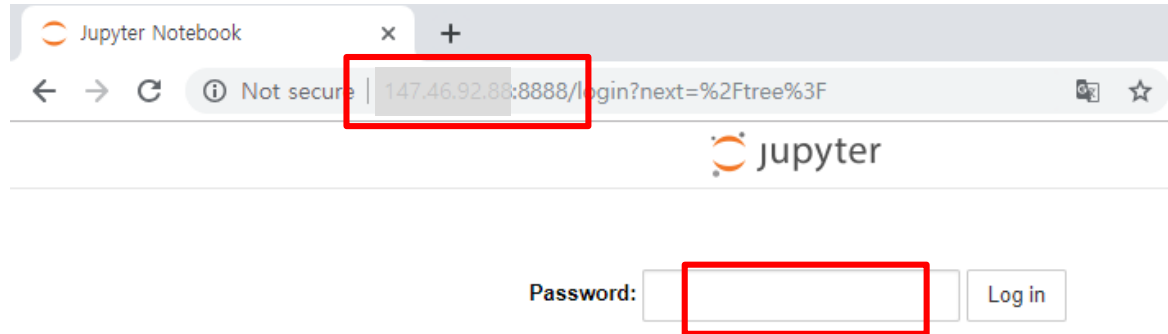
Jupyter Notebook 실행하기

- 터미널에 **jupyter notebook** 을 입력하여 실행

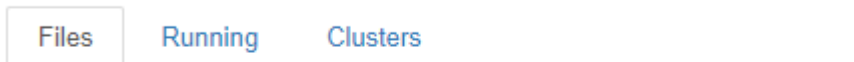
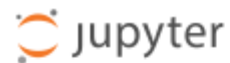
```
(iabenv) student@IABENG100:~$ jupyter notebook
[I 01:30:18.513 NotebookApp] Writing notebook server cookie secret to
/run/user/1001/jupyter/notebook_cookie_secret
[I 01:30:18.597 NotebookApp] Serving notebooks from local directory: /
home/student
[I 01:30:18.597 NotebookApp] The Jupyter Notebook is running at:
[I 01:30:18.597 NotebookApp] http://(IABENG100 or 127.0.0.1):8888/
[I 01:30:18.597 NotebookApp] Use Control-C to stop this server and shu
t down all kernels (twice to skip confirmation).
```

Jupyter Notebook 실행

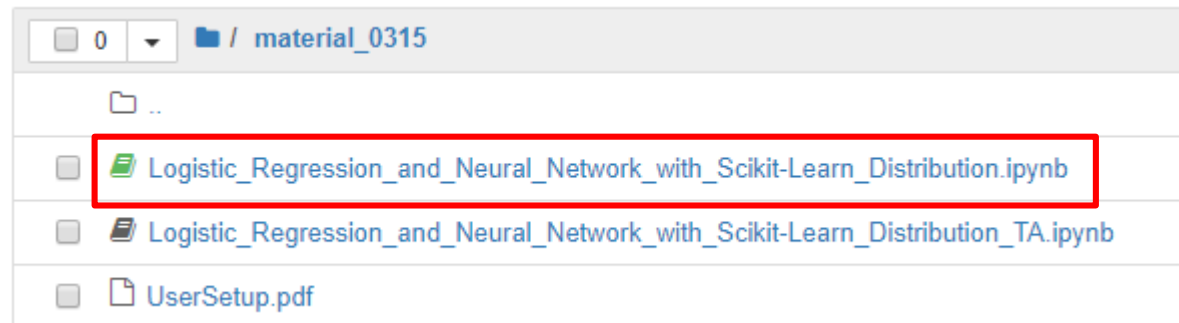
- 웹 브라우저를 열고, 주소창에 **실습서버주소:8888** 입력
- Password 란에 **iabenv** 입력



- material_0315 폴더 내의 실습 파일 열기

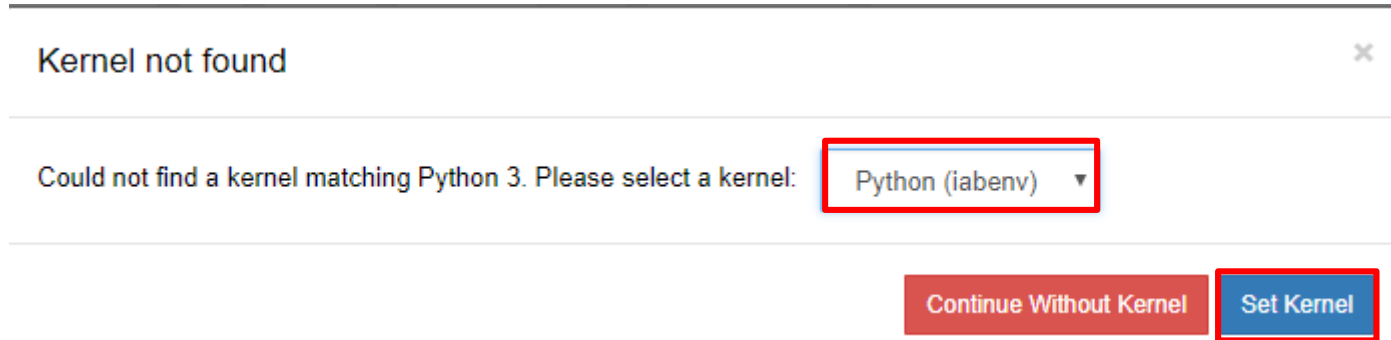


Select items to perform actions on them.

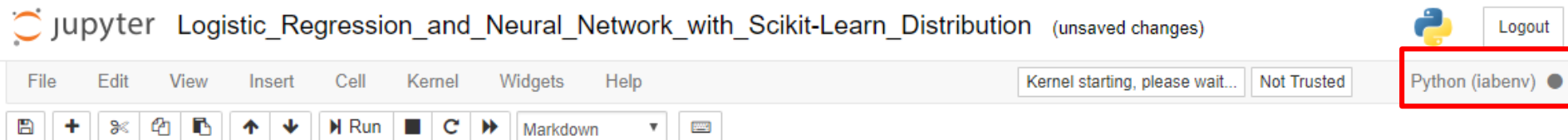


Jupyter Notebook 설정

- Kernel not found 창이 나타나면 **Python (iabenv)** 선택 후 **Set Kernel** 클릭



- 화면 오른쪽 위에서 Python (iabenv) kernel이 선택된 것을 확인



IoT·인공지능·빅데이터 개론 및 실습 (M2177.004900_001) 3/15 Logistic Regerssion & Neural Network with Scikit-Learn

Adapted by Seonwoo Min from the "An Introduction to Machine Learning with Scikit-learn" tutorial (<http://scikit-learn.org/stable/tutorial/basic/tutorial.html>).

In this exercise, we will cover

- 실습준비 끝!

Thank You!

