

Docker 실행

```
C:\WINDOWS\system32\cmd.exe - docker compose up -d

D:\1.Developing\MLCloud\P4ML\Package>docker compose up -d
[+] Running 0/3
 - influxdb Pulling      1.2s
 - grafana Pulling       1.2s
 - postgresql Pulling    1.2s
```

Jupyter notebook

Jupyter Notebook

localhost:8888/login?next=%2Ftree%3F

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UPDATERead the migration plan to Notebook 7 to learn about the new features and the actions to take if you are using extensions - Please note that updating to Notebook 7 might break some of your extensions.

Don't show anymore

Localhost:8888로 접속

jupyter

Password or token:

Token authentication is enabled

If no password has been configured, you need to open the notebook server with its login token in the URL, or paste it above. This requirement will be lifted if you [enable a password](#).

The command:

```
jupyter notebook list
```

will show you the URLs of running servers with their tokens, which you can copy and paste into your browser. For example:

```
Currently running servers:  
http://localhost:8888/?token=c8de56fa... :: /Users/you/notebooks
```

or you can paste just the token value into the password field on this page.

See [the documentation on how to enable a password](#) in place of token authentication, if you would like to avoid dealing with random tokens.

Cookies are required for authenticated access to notebooks.

Setup a Password

You can also setup a password by entering your token and a new password on the fields below:

Token

New Password

Mongodb 연동

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jupyter mongo_test (autosaved)



Logout

File Edit View Insert Cell Kernel Widgets Help

Trusted



Python 3 (ipykernel)

Run Code

In [1]: `from pymongo import MongoClient`

In [2]: `host = 'mongodb'
port = 27017
user_name = 'paas4ml'
pass_word = 'paas4ml'
authsource = 'ML_DB'
uri = f'mongodb://{user_name}:{pass_word}@{host}:{port}/?authSource={authsource}'
print(uri)
conn = MongoClient(uri)`

`mongodb://paas4ml:paas4ml@mongodb:27017/?authSource=ML_DB`

In [3]: `db = conn.get_database('ML_DB')`

In [5]: `db.create_collection('public_ds')`

Out[5]: `Collection(Database(MongoClient(host=['mongodb:27017'], document_class=dict, tz_aware=False, connect=True, authsource='ML_DB'), 'ML_DB'), 'public_ds')`

In [6]: `col = db.get_collection('public_ds')`

In [8]: `mydict = {"key": "value"}
x = col.insert_one(mydict)`

In [14]: `docs = col.find()`

In [15]: `for doc in docs:
 print(doc)`

`{'_id': ObjectId('64649d30e269533181ba45bb'), 'key': 'value'}`

In []:

Connection Editor

Basic ☒ Authentication SSL SSH Default DB More

Type Single Server or DNS Seedlist

Server localhost : 27017

☐ SRV Record

Name localhost_1

Mark With None

☐ Make Connection/Database to Read Only ⓘ

Test Connection From URI To URI Save Save & Connect Cancel

Connection Editor

Basic ☒ Authentication SSL SSH Default DB More

Mode Basic(Username/Password)

Auth DB ML_DB

User Name paas4ml

Password paas4ml

☐ Ask for password each time

☐ Manually list visible databases

Test Connection From URI To URI Save Save & Connect Cancel

PostgreSQL 연결

Connection settings

PostgreSQL connection settings



- ▼ Connection settings
 - Initialization
 - Shell Commands
 - Client identification
 - Transactions
- General
- Metadata
- Errors and timeouts
- > Data editor
- > SQL Editor

Main PostgreSQL Driver properties SSH Proxy SSL

Server

Connect by: ☒ Host ☐ URL

URL: jdbc:postgresql://localhost:5432/postgres

Host: localhost

Port: 5432

Database: postgres

Authentication

Authentication: Database Native

Username: admin

Password: ●●●●●● paas4ml ☒ Save password locally

Advanced

Session role: Local Client: PostgreSQL Binaries

[You can use variables in connection parameters.](#)

Driver name: PostgreSQL

Test Connection ...

확인

취소

PostgreSQL Python 연동

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localhost:8888/notebooks/PostgreSQL_ex.ipynb

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jupyter PostgreSQL_ex (unsaved changes) Logout

File Edit View Insert Cell Kernel Widgets Help Not Trusted Python 3 (ipykernel)

In [1]: `import psycopg2`

In [2]: `conn = psycopg2.connect(host='postgres', dbname='postgres', user='admin', password='paas4ml', port=5432)`
`cursor=conn.cursor()`

In []:

In [20]: `cursor.execute("DROP TABLE IF EXISTS EMPLOYEE")`

In [21]: `sql = """CREATE TABLE EMPLOYEE(
 FIRST_NAME CHAR(20) NOT NULL,
 LAST_NAME CHAR(20),
 AGE INT,
 SEX CHAR(1),
 INCOME FLOAT
)"""`
`cursor.execute(sql)`
`conn.commit()`

In []:

In [3]: `conn = psycopg2.connect(host='postgres', dbname='postgres', user='admin', password='paas4ml', port=5432)`
`cursor=conn.cursor()`

In [4]: `"""
INSERT INTO public.employee
(first_name, last_name, age, sex, income)
VALUES("", "0", "0", "0");
"""`
`schema = 'public'`
`table = 'employee'`
`column = '(FIRST_NAME, LAST_NAME, AGE, SEX, INCOME)'`
`data = ('shin', 'hongjoong', 43, 'M', 20000.0)`
`sql = "INSERT INTO (schema), (table) (column) VALUES (data) ;".format(schema=schema, table=table, column=column, data=data)`
`try:`
 `cursor.execute(sql)`
 `conn.commit()`
`except Exception as e:`
 `print(" insert DB ", e)`

In []:

In [6]: `conn = psycopg2.connect(host='postgres', dbname='postgres', user='admin', password='paas4ml', port=5432)`
`cursor=conn.cursor()`
`cursor.execute("SELECT * FROM employee;")`
`print(cursor.fetchone())`

('shin', 'hongjoong', 43, 'M', 20000.0)