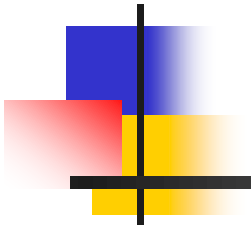


프로젝트 배포

프로젝트 배포 과정

- 프로젝트 배포 과정
  - Django + React
  - 깃 허브에 업로드
  - AWS EC2 서버
    - MySQL 설치
    - Django 배포

1. Django + React

- Django + React
  - 리액트 앱 빌드해서 Django 프로젝트에 넣기
  - 리액트 프로젝트를 빌드하면 build 폴더 생성되고
  - static 폴더 안에 css와 js 폴더 및 파일 생성됨

리액트 프로젝트 빌드 하기 전에

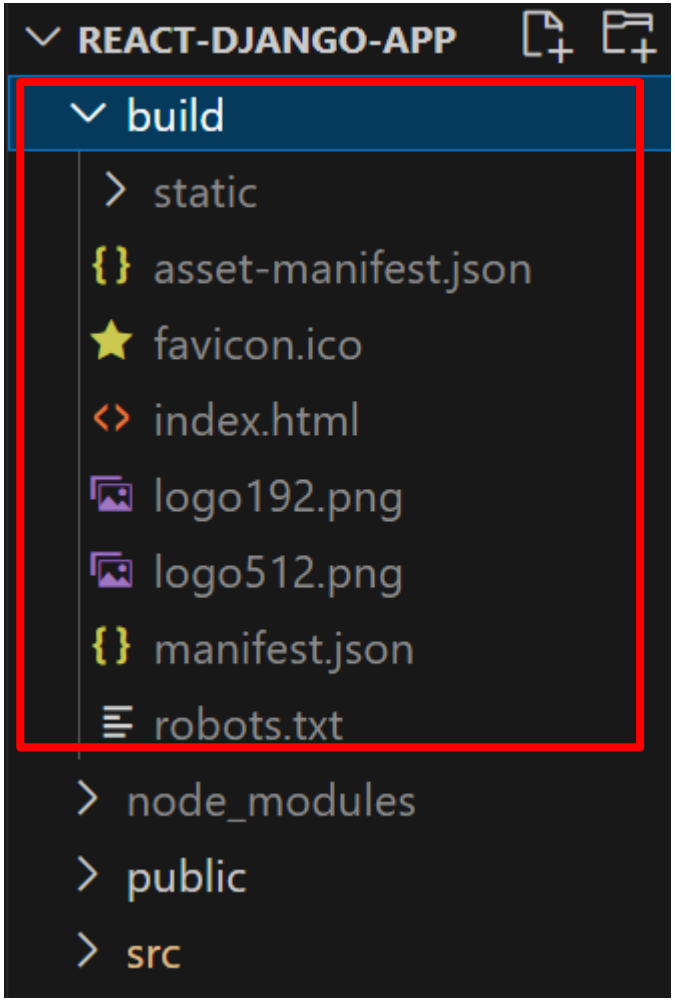
npm install --save-dev @babel/plugin-proposal-private-property-in-object

```
Creating an optimized production build...
One of your dependencies, babel-preset-react-app, is importing the
"@babel/plugin-proposal-private-property-in-object" package without
declaring it in its dependencies. This is currently working because
"@babel/plugin-proposal-private-property-in-object" is already in your
node_modules folder for unrelated reasons, but it may break at any time.

babel-preset-react-app is part of the create-react-app project, which
is not maintianed anymore. It is thus unlikely that this bug will
ever be fixed. Add "@babel/plugin-proposal-private-property-in-object" to
your devDependencies to work around this error. This will make this message
go away.

Compiled with warnings.
```

CRA(Create-React-App) 환경 지원하지 않는 라이브러리 설치 시 발생

리액트 앱 빌드

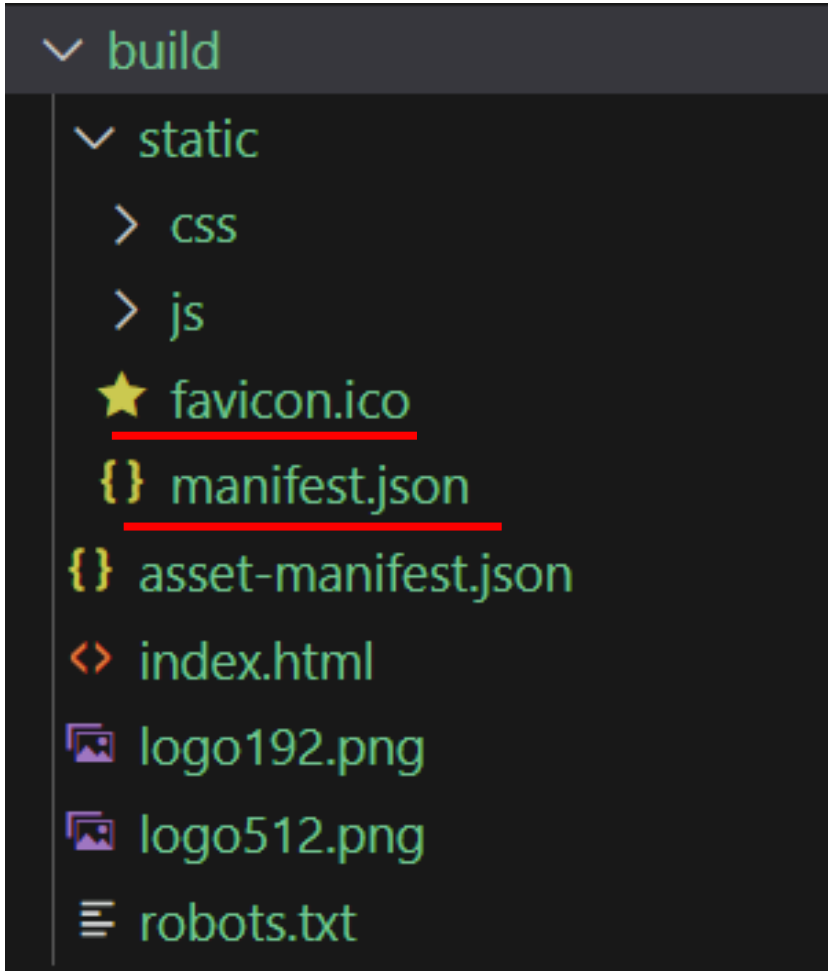
npm run build



생성됨

build 내용 Django 프로젝트에 넣기

build 폴더 그대로 복사해서 최상위 위치에 저장



favicon.ico와
manifest.json을
static 폴더에 넣으면
못찾겠다는 오류 없음

index.html

모든 경로 앞에 .(점) 붙임

```
<!doctype html>
<html lang="en">
<head>
<meta charset="utf-8"/>
<link rel="icon" href="./static/favicon.ico"/>
<meta name="viewport" content="width=device-width,initial-scale=1"/>
<meta name="theme-color" content="#000000"/>
<meta name="description" content="Web site created using create-react-app"/>
<link rel="apple-touch-icon" href="logo192.png"/>
<link rel="manifest" href="./static/manifest.json"/>
<title>React App</title>
<script  type="text/javascript" defer="defer" src="./static/js/main.d53a7091.js"></script>
<link type= "text/css" href="./static/css/main.ff027418.css" rel="stylesheet">
</head>
<body>
<noscript>You need to enable JavaScript to run this app.</noscript>
<div id="root"></div>
</body>
</html>
```

template, static 경로 설정 : settings.py

```
69
70  TEMP_DIR = os.path.join(BASE_DIR, 'build')
71
72  TEMPLATES = [
73      {
74          "BACKEND": "django.template.backends.django.DjangoTemplates",
75          "DIRS": [TEMP_DIR],
76          "APP_DIRS": True,
77          "OPTIONS": {
78              "context_processors": [
79                  "django.template.context_processors.debug",
```

```
146  STATIC_URL = "/static/"
147
148  STATICFILES_DIRS = [
149      os.path.join(BASE_DIR, 'build/static')
150  ]
151
```

db_settings.py에 추가

```python
import pymysql
pymysql.install_as_MySQLdb()

DATABASES = {
    "default": {
        "ENGINE": "django.db.backends.mysql",  # 엔진
        "NAME": "django_db",  # 데이터베이스 이름
        "USER": "root",  # 사용자
        "PASSWORD": "1234",  # 비밀번호
        "HOST": "localhost",  # 호스트
        "PORT": "3306",  # 포트번호
    }
}

```

db_settings.py에 계속

```
21  ALLOWED_HOSTS = [
22      'localhost',
23      '127.0.0.1',
24      '52.196.14.187', # 본인 서버 IP
25  ]
26
27  CORS_ALLOWED_ORIGINS = [
28      # 허용할 Origin 추가
29      "http://localhost:8000",
30      "http://127.0.0.1:8000",
31      "http://52.196.14.187:8000" # 본인 서버 IP
32  ]
33
```

settings.py에 추가

```
100
101    DATABASES = db_settings.DATABASES
102    SECRET_KEY = db_settings.SECRET_KEY
103    ALLOWED_HOSTS = db_settings.ALLOWED_HOSTS
104    CORS_ALLOWED_ORIGINS = db_settings.CORS_ALLOWED_ORIGINS
105
```

```
162    SECURE_CROSS_ORIGIN_OPENER_POLICY = None
```

Django 프로젝트 실행시켜서 확인

http://127.0.0.1:8000/

모든 기능 확인

서버에 올리기 위해

db_settings.py 변경

```python
import pymysql
pymysql.install_as_MySQLdb()

DATABASES = {
    "default": {
        "ENGINE": "django.db.backends.mysql",  # 엔진
        "NAME": "django_db",  # 데이터베이스 이름
        "USER": "test_user",  # 사용자
        "PASSWORD": "1234Abcd!",  # 비밀번호
        "HOST": "localhost",  # 호스트
        "PORT": "3306",  # 포트번호
    }
}

```

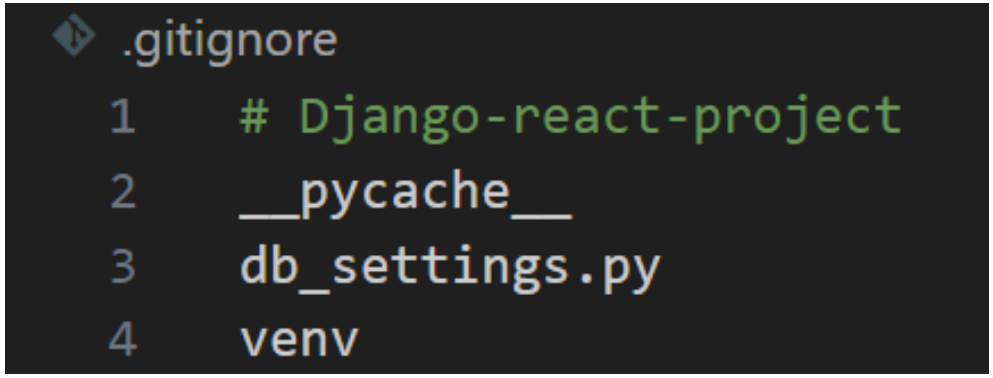
settings.py

```
97
98    DATABASES = db_settings.DATABASES
99    SECRET_KEY = db_settings.SECRET_KEY
100   ALLOWED_HOSTS = db_settings.ALLOWED_HOSTS
101
```

2. 깃 허브에 업로드

- 깃 허브에 업로드
  - .gitignore 작성
  - requirements.txt 생성
  - 깃 허브에 레포지토리 생성
  - 업로드

.gitignore 생성

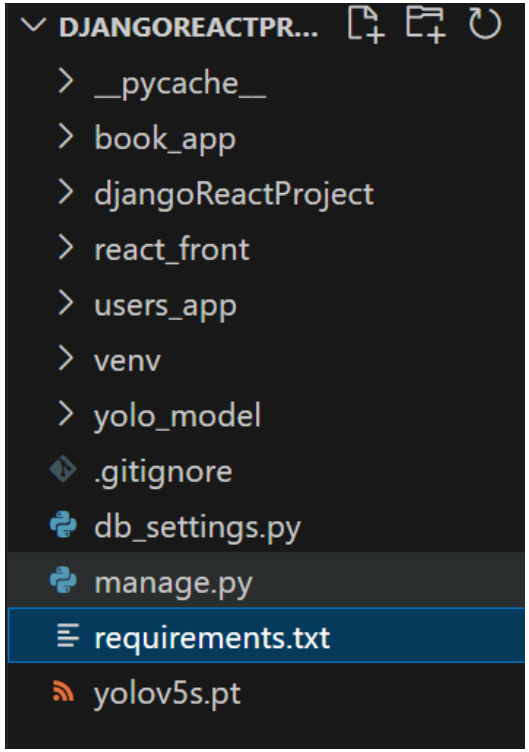



```
# Django-react-project
__pycache__
db_settings.py
venv
```

requirements.txt 생성

- pip freeze > requirements.txt

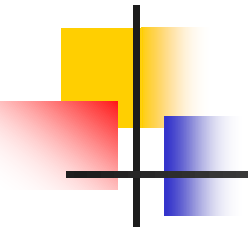
```
(venv) C:\reactWorkspace\djangoReactProject>pip freeze > requirements.txt
```



requirements.txt

```
absl-py==2.1.0
asgiref==3.7.2
boto3==1.34.21
botocore==1.34.21
cachetools==5.3.2
certifi==2023.7.22
chardet==4.0.0
charset-normalizer==3.3.2
click==8.1.7
colorama==0.4.6
contourpy==1.2.0
cycler==0.10.0
Django==5.0.1
django-cors-headers==4.3.1
djangorestframework==3.14.0
filelock==3.13.1
fire==0.5.0
fonttools==4.47.2
```

설치해야 할
필수 패키지 목록



requirements.txt

패키지 버전 변경
new_requirements.txt 파일 내용으로 변경

깃 허브에 업로드

- repository 생성
  - django_react
  - 주소 복사
- Git Bash 사용 : (C:\reactWorkspace\djangoReactProject)
  - git init
  - git add .
  - git commit -m "django-react project"
  - git config --global user.name " 본인 아이디"
  - git config --global user.email 본인이메일
  - git remote add origin "https://주소"
  - git pull origin main
  - git push -u origin +main
- repository 확인

```
warning: in the working copy of 'react_front/asset-manifest.json', LF will be replaced by CRLF the nex
t time Git touches it
```

윈도우
git config core.autocrlf true
(git config --global core.autocrlf true : 시스템 전체)

Mac
git config core.autocrlf input

3. MySQL 설치

- 서버에 MySQL 서버 하나만 설치
- 팀원 중 1명만 설치 진행
- PuTTy에서 ubuntu로 로그인

yum 설치

sudo apt install yum

```
ubuntu@ip-172-31-3-8:~$ sudo apt install yum
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following package was automatically installed and
  nvidia-container-runtime
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  debugedit libarchive13 libdw1 liblua5.2-0 librpm8 l
```

sudo (super user do)

- super user 권한 부여

설치

오류

```
ubuntu@ip-172-31-3-8:~$ yum localinstall mysql80-community-release-el7-3.noarch.rpm
  File "/usr/bin/yum", line 30
    except KeyboardInterrupt, e:
                            ^
SyntaxError: invalid syntax
```

sudo vim /usr/bin/yum
첫 줄을 #!/usr/bin/python2 로 변경
(i 누르고 맨 뒤로 이동해서 2 입력/저장/종료)
- ESC
- :wq!

다시 실행

다운로드할 Repository 확인만 할 것

https://dev.mysql.com/downloads/repo/apt/

mysql-apt-config_0.8.29-1_all.deb

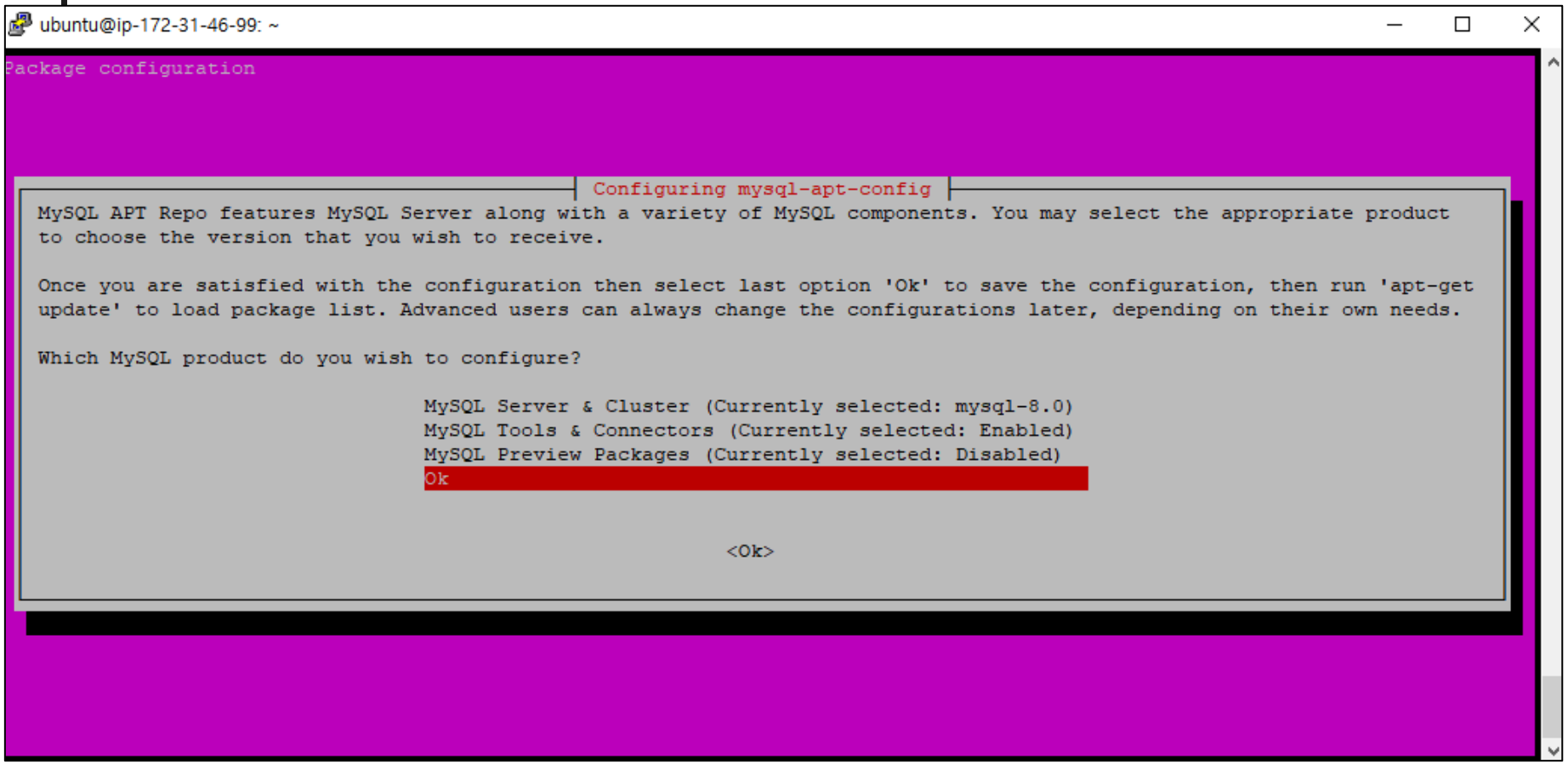
다운로드 Repository

sudo wget https://dev.mysql.com/get/mysql-apt-config_0.8.22-1_all.deb

```
ubuntu@ip-172-31-46-99:~$ sudo wget https://dev.mysql.com/get/mysql-apt-config_0.8.29-1_all.deb
--2024-01-28 17:40:27--  https://dev.mysql.com/get/mysql-apt-config_0.8.29-1_all.deb
Resolving dev.mysql.com (dev.mysql.com)... 23.194.75.87, 2600:140b:1a00:3ad::2e31, 2600:140b:1a00:38a::2e31
Connecting to dev.mysql.com (dev.mysql.com)|23.194.75.87|:443... connected.
HTTP request sent, awaiting response... 302 Moved Temporarily
Location: https://repo.mysql.com//mysql-apt-config_0.8.29-1_all.deb [following]
--2024-01-28 17:40:27--  https://repo.mysql.com//mysql-apt-config_0.8.29-1_all.deb
Resolving repo.mysql.com (repo.mysql.com)... 23.198.121.244, 2600:1417:4400:38d::1d68, 2600:1417:4400:3bd::1d68
Connecting to repo.mysql.com (repo.mysql.com)|23.198.121.244|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 18172 (18K) [application/x-debian-package]
Saving to: 'mysql-apt-config_0.8.29-1_all.deb'

mysql-apt-config_0.8.29-1_all.d 100%[=============================================================>]  17.75K  --.-KB/s    in 0.002s

2024-01-28 17:40:27 (9.13 MB/s) - 'mysql-apt-config_0.8.29-1_all.deb' saved [18172/18172]

ubuntu@ip-172-31-46-99:~$
```

최신 버전 mysql-apt-config_0.8.29-1_all.deb 설치 불가하므로
0.8.22로 버전 낮춰서 다운로드

sudo dpkg -i mysql-apt-config_0.8.22-1_all.deb



repository 추가

sudo apt-get update

```
ubuntu@ip-172-31-46-99:~$ sudo apt-get update
Hit:1 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu bionic InRelease
Hit:2 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu bionic-updates InRelease
Hit:3 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu bionic-backports InRelease
Get:4 https://nvidia.github.io/libnvidia-container/stable/ubuntu18.04/amd64  InRelease [1484 B]
Get:5 https://nvidia.github.io/nvidia-container-runtime/stable/ubuntu18.04/amd64  InRelease [1481 B]
Get:6 https://nvidia.github.io/nvidia-docker/ubuntu18.04/amd64  InRelease [1474 B]
Hit:7 http://repo.mysql.com/apt/ubuntu bionic InRelease
Hit:8 http://security.ubuntu.com/ubuntu bionic-security InRelease
Hit:9 https://apt.repos.neuron.amazonaws.com bionic InRelease
Hit:10 http://ppa.launchpad.net/openjdk-r/ppa/ubuntu bionic InRelease
Fetched 4439 B in 1s (6490 B/s)
Reading package lists... Done
ubuntu@ip-172-31-46-99:~$
```

publick key 오류 날 경우

```
ubuntu@ip-172-31-46-99:~$ sudo apt-get update
Hit:1 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu bionic InRelease
Hit:2 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu bionic-updates InRelease
Get:3 https://nvidia.github.io/libnvidia-container/stable/ubuntu18.04/amd64  InRelease [1484 B]
Hit:4 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu bionic-backports InRelease
Get:5 https://nvidia.github.io/nvidia-container-runtime/stable/ubuntu18.04/amd64  InRelease [1481 B]
Get:6 https://nvidia.github.io/nvidia-docker/ubuntu18.04/amd64  InRelease [1474 B]
Get:7 http://repo.mysql.com/apt/ubuntu bionic InRelease [20.0 kB]
Hit:8 http://security.ubuntu.com/ubuntu bionic-security InRelease
Get:9 https://apt.repos.neuron.amazonaws.com bionic InRelease [1446 B]
Err:7 http://repo.mysql.com/apt/ubuntu bionic InRelease
  The following signatures couldn't be verified because the public key is not available: NO_PUBKEY B7B3B788A8D3785C
Err:9 https://apt.repos.neuron.amazonaws.com bionic InRelease
  The following signatures were invalid: EXPKEYSIG 5749CAD8646D9185 Amazon AWS Neuron <neuron-maintainers@amazon.com>
Hit:10 http://ppa.launchpad.net/openjdk-r/ppa/ubuntu bionic InRelease
Reading package lists... Done
W: GPG error: http://repo.mysql.com/apt/ubuntu bionic InRelease: The following signatures couldn't be verified because the publ
ic key is not available: NO_PUBKEY B7B3B788A8D3785C
E: The repository 'http://repo.mysql.com/apt/ubuntu bionic InRelease' is not signed.
N: Updating from such a repository can't be done securely, and is therefore disabled by default.
N: See apt-secure(8) manpage for repository creation and user configuration details.
W: An error occurred during the signature verification. The repository is not updated and the previous index files will be used
. GPG error: https://apt.repos.neuron.amazonaws.com bionic InRelease: The following signatures were invalid: EXPKEYSIG 5749CAD8
646D9185 Amazon AWS Neuron <neuron-maintainers@amazon.com>
ubuntu@ip-172-31-46-99:~$
```

wget -qO - https://apt.repos.neuron.amazonaws.com/GPG-PUB-KEY-AMAZON-AWS-NEURON.PUB | sudo apt-key add -

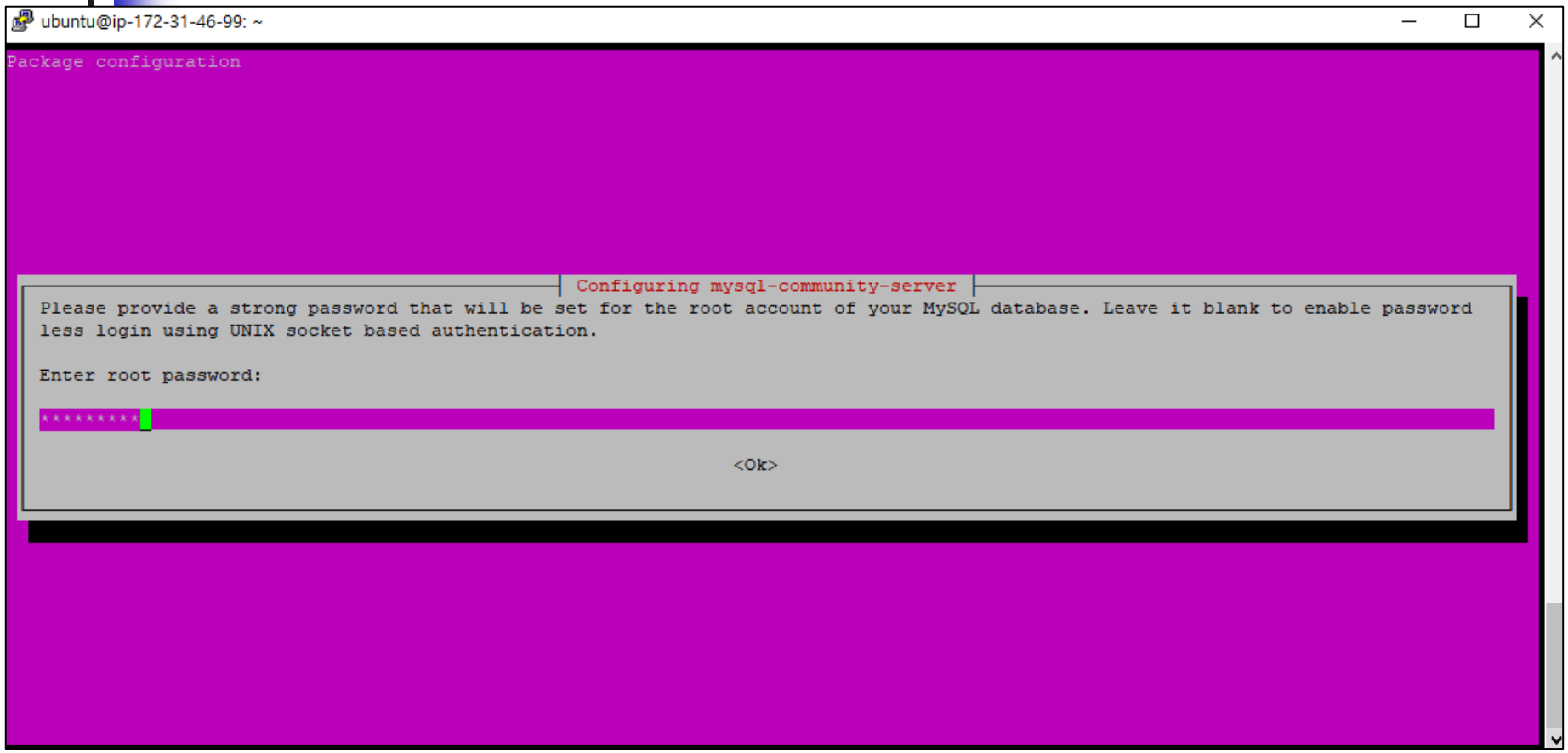
우리는 오류 없음

설치

sudo apt-get install mysql-server

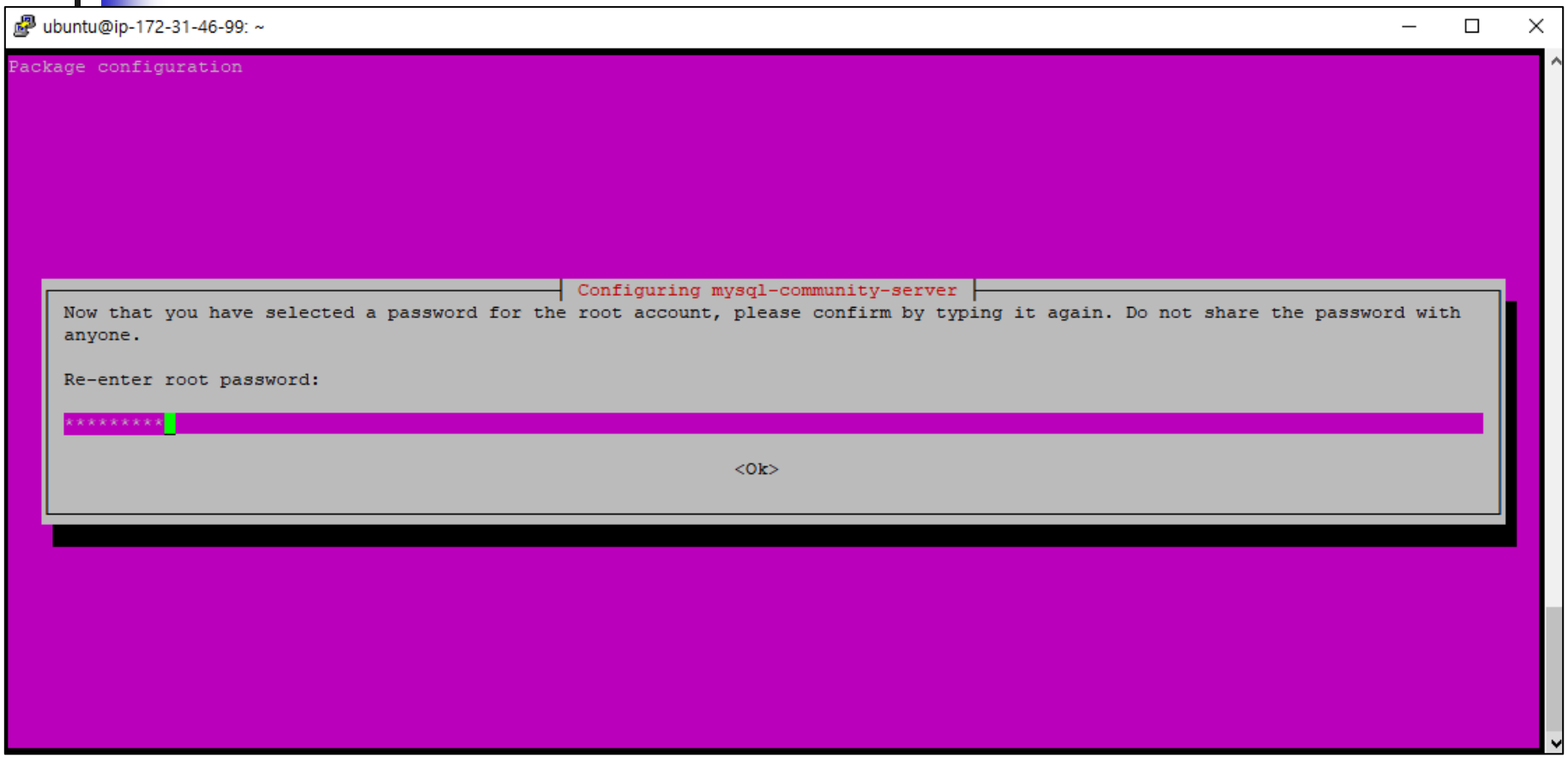
```
ubuntu@ip-172-31-46-99:~$ sudo apt-get install mysql-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  librados2 librbd1
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  libmecab2 mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client mysql-common mysql-community-client mysql-community-client-core
  mysql-community-client-plugins mysql-community-server mysql-community-server-core
The following NEW packages will be installed:
  libmecab2 mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client mysql-community-client mysql-community-client-core
  mysql-community-client-plugins mysql-community-server mysql-community-server-core mysql-server
The following packages will be upgraded:
  mysql-common
1 upgraded, 11 newly installed, 0 to remove and 46 not upgraded.
Need to get 48.5 MB of archives.
After this operation, 364 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
```

root 비밀번호 입력 : 1234Abcd!



비밀번호 입력하고 엔터

비밀번호 확인 입력 : 1234Abcd!

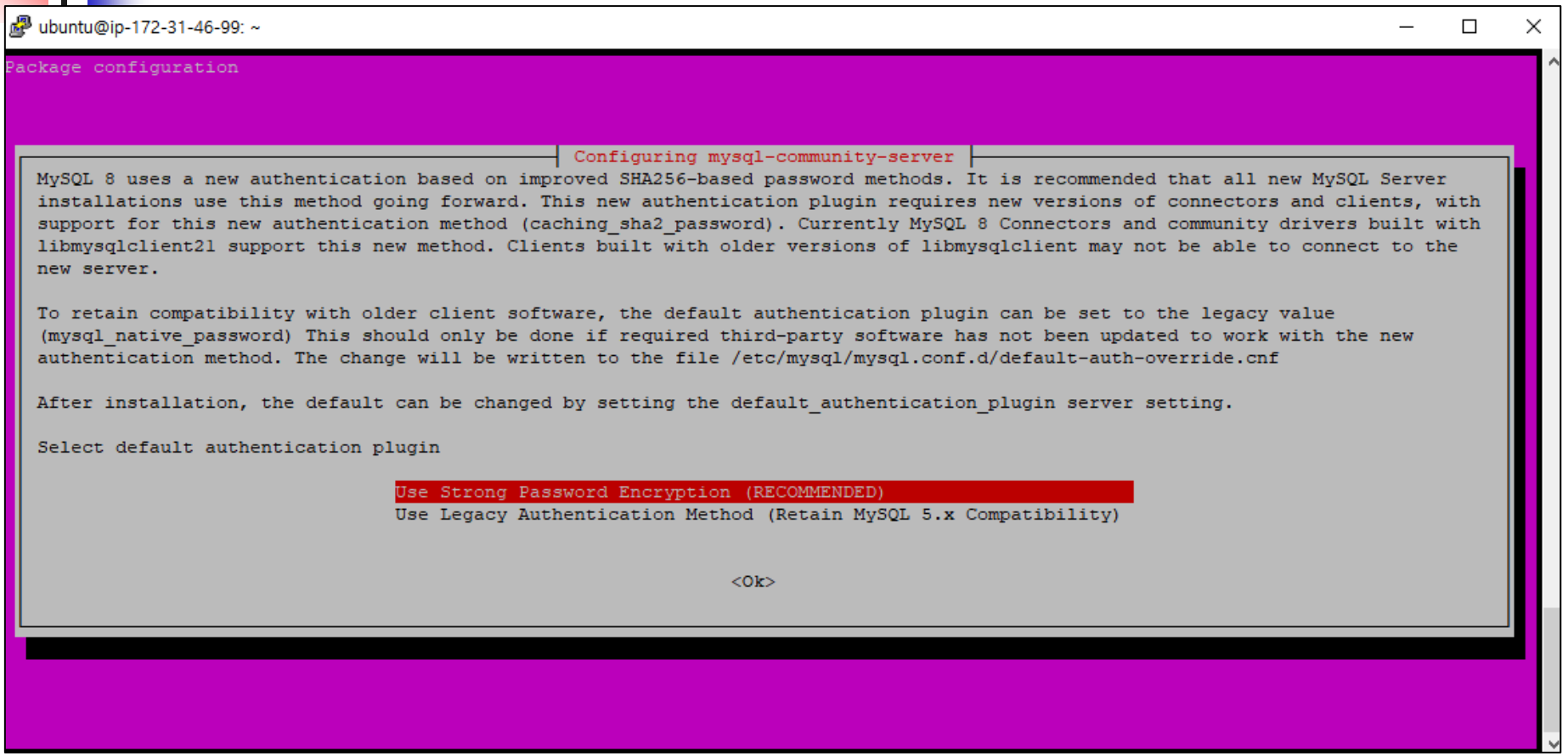


비밀번호 입력하고 엔터

엔터


ubuntu@ip-172-31-3-8: ~
Package configuration
Configuring mysql-community-server
MySQL 8 uses a new authentication based on improved SHA256-based password methods. It is recommended that all new MySQL Server installations use this method going forward. This new authentication plugin requires new versions of connectors and clients, with support for this new authentication method (caching_sha2_password). Currently MySQL 8 Connectors and community drivers built with libmysqlclient21 support this new method. Clients built with older versions of libmysqlclient may not be able to connect to the new server.
To retain compatibility with older client software, the default authentication plugin can be set to the legacy value (mysql_native_password) This should only be done if required third-party software has not been updated to work with the new authentication method. The change will be written to the file /etc/mysql/mysql.conf.d/default-auth-override.cnf
After installation, the default can be changed by setting the default_authentication_plugin server setting.
<Ok>

엔터




```
reading /usr/share/mecab/dic/ipadic/matrix.def ... 1316x1316
emitting matrix      : 100% |###########################################|

done!
update-alternatives: using /var/lib/mecab/dic/ipadic-utf8 to provide /var/lib/mecab/dic/debian (mecab-dictionary) in auto mode
Setting up mysql-community-client (8.0.33-1ubuntu18.04) ...
Setting up mysql-client (8.0.33-1ubuntu18.04) ...
Setting up mysql-community-server (8.0.33-1ubuntu18.04) ...
update-alternatives: using /etc/mysql/mysql.cnf to provide /etc/mysql/my.cnf (my.cnf) in auto mode
Created symlink /etc/systemd/system/multi-user.target.wants/mysql.service → /lib/systemd/system/mysql.service.
Setting up mysql-server (8.0.33-1ubuntu18.04) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Processing triggers for libc-bin (2.27-3ubuntu1.6) ...
ubuntu@ip-172-31-46-99:~$
```

버전 확인

apt policy mysql-server

```
ubuntu@ip-172-31-46-99:~$ apt policy mysql-server
mysql-server:
  Installed: 8.0.33-1ubuntu18.04
  Candidate: 8.0.33-1ubuntu18.04
  Version table:
 *** 8.0.33-1ubuntu18.04 500
        500 http://repo.mysql.com/apt/ubuntu bionic/mysql-8.0 amd64 Packages
        100 /var/lib/dpkg/status
     5.7.42-0ubuntu0.18.04.1 500
        500 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/main
 amd64 Packages
        500 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages
     5.7.21-1ubuntu1 500
        500 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu bionic/main amd64 P
ackages
ubuntu@ip-172-31-46-99:~$
```

8.033 설치됨

systemctl status mysql

실행 확인 : active (running)

```
ubuntu@ip-172-31-46-99:~$ systemctl status mysql
● mysql.service - MySQL Community Server
     Loaded: loaded (/lib/systemd/system/mysql.service; enabled; vendor preset: e
     Active: active (running) since Sun 2024-01-28 19:23:06 KST; 3min 3s ago
       Docs: man:mysqld(8)
             http://dev.mysql.com/doc/refman/en/using-systemd.html
   Main PID: 5714 (mysqld)
     Status: "Server is operational"
      Tasks: 37 (limit: 4915)
     CGroup: /system.slice/mysql.service
             └─5714 /usr/sbin/mysqld

Jan 28 19:23:06 ip-172-31-46-99 systemd[1]: Starting MySQL Community Server...
Jan 28 19:23:06 ip-172-31-46-99 systemd[1]: Started MySQL Community Server.
lines 1-13/13 (END)
```

Ctrl + C

root 계정으로 접속

sudo mysql –u root –p
1234Abcd!

```
ubuntu@ip-172-31-46-99:~$ sudo mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.33 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input stat

mysql>
```

데이터베이스 생성

create database test_db;
show databases;

```
mysql> create databases test_db;
ERROR 1064 (42000): You have an error in your SQL
responds to your MySQL server version for the righ
est_db' at line 1
mysql> create database test_db;
Query OK, 1 row affected (0.01 sec)

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
| sys                |
| test_db            |
+--------------------+
5 rows in set (0.00 sec)

mysql>
```

계정 생성 및 권한 부여

계정 생성

```
create user 'test_user'@'%' identified by '1234Abcd!';
```

모든 데이터베이스이 모든 테이블에 대한 권한 부여

```
grant all privileges on *.* to 'test_user'@'%';
```

```
mysql> create user 'test user'@'%' identified by '1234Abcd!';
Query OK, 0 rows affected (0.01 sec)

mysql> select user, host from user;
+------------------+-----------+
| user             | host      |
+------------------+-----------+
| test_user        | %         |
| mysql.infoschema | localhost |
| mysql.session    | localhost |
| mysql.sys        | localhost |
| root             | localhost |
+------------------+-----------+
5 rows in set (0.00 sec)

mysql> grant all privileges on *.* to 'test_user'@'%';
Query OK, 0 rows affected (0.01 sec)

mysql>
```

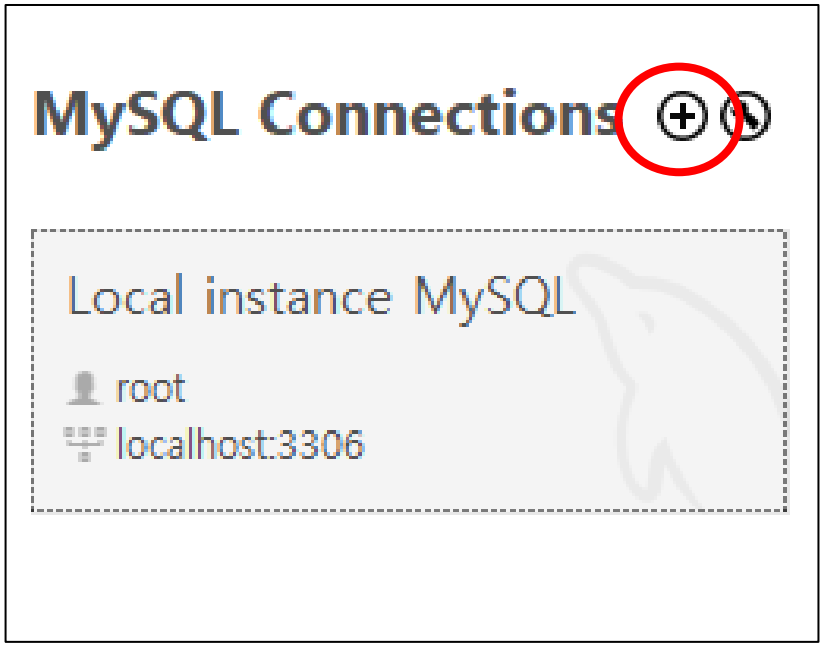
생성된 계정 확인

use mysql;
select user, host from user;

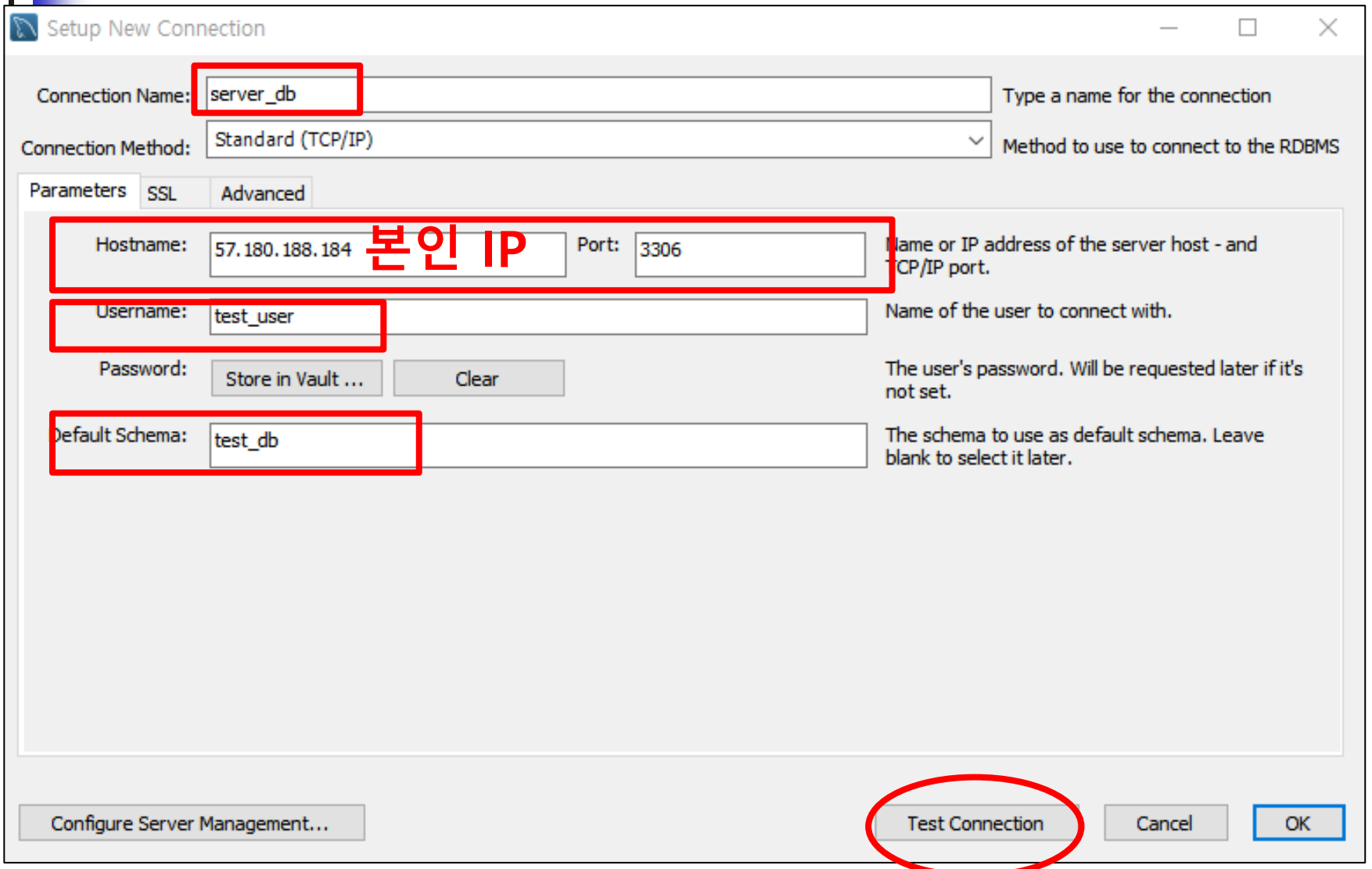
```
mysql> use mysql
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> select user, host from user;
+------------------+-----------+
| user             | host      |
+------------------+-----------+
| test_user        | %         |
| mysql.infoschema | localhost |
| mysql.session    | localhost |
| mysql.sys        | localhost |
| root             | localhost |
+------------------+-----------+
5 rows in set (0.00 sec)

mysql>
```

내 컴퓨터의 MySQL Workbench에서 접속

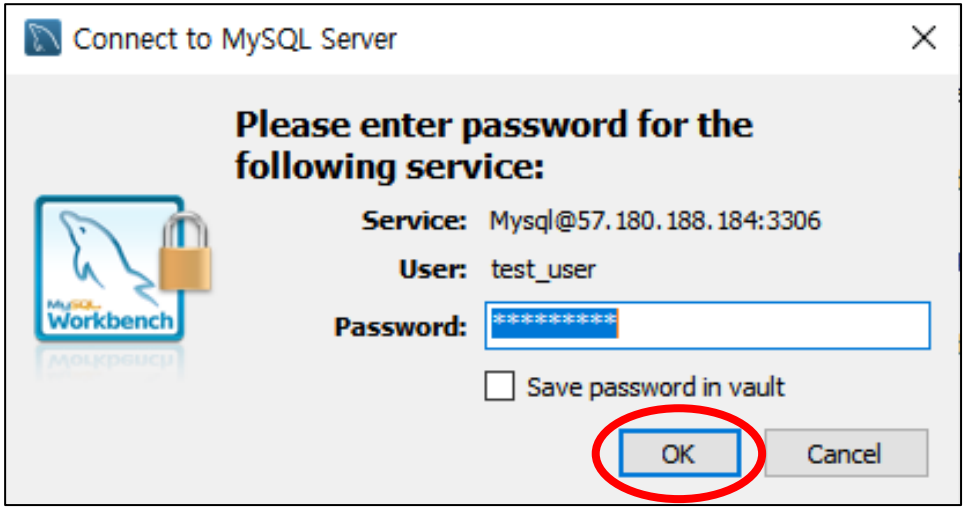
새 접속 생성

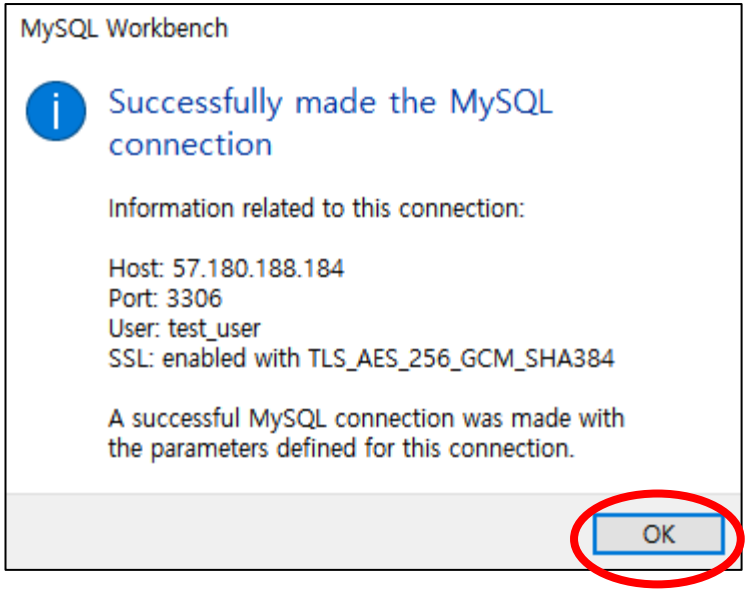


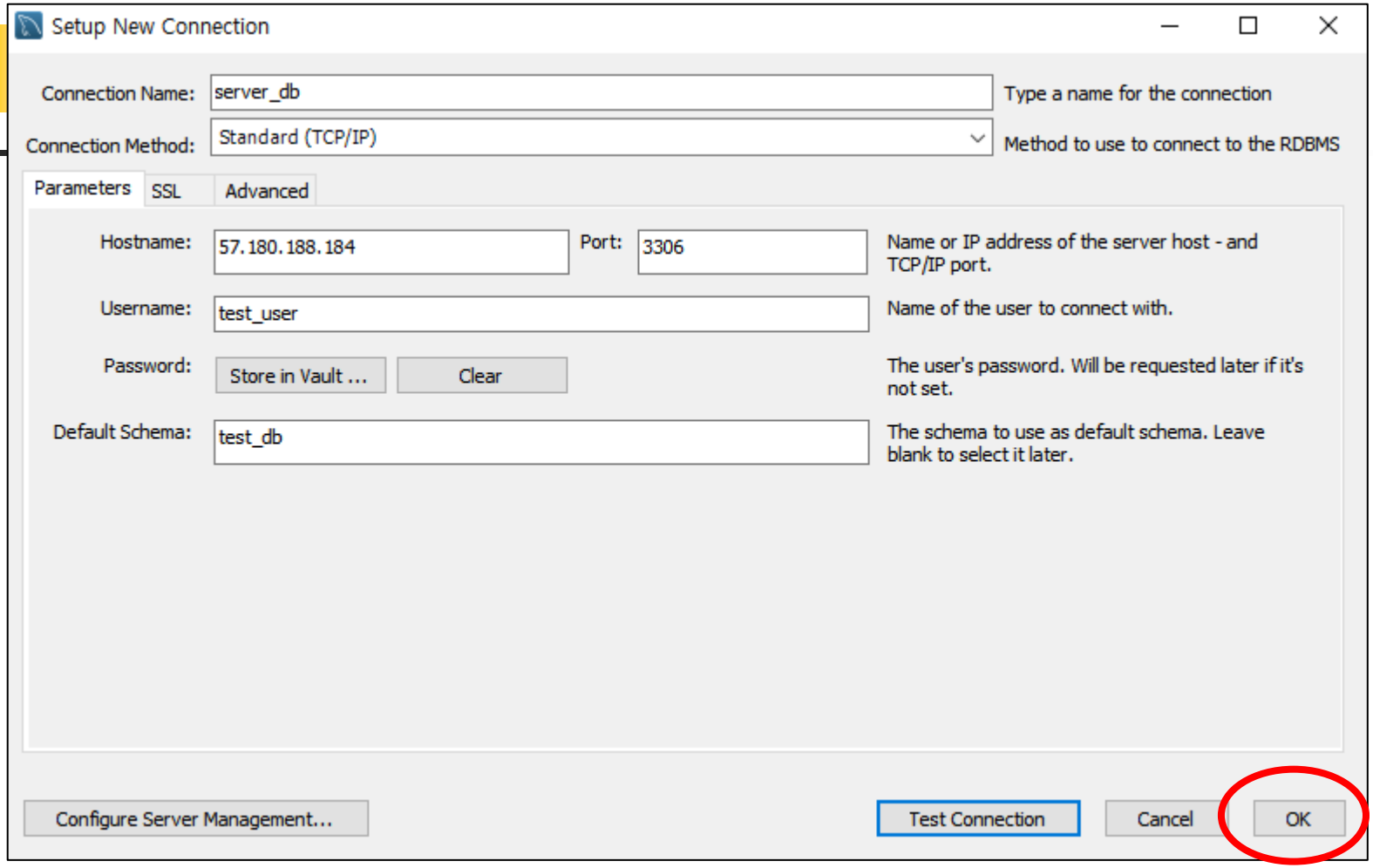
서버에 접속


Setup New Connection
Connection Name:
server_db
Type a name for the connection
Connection Method:
Standard (TCP/IP)
Method to use to connect to the RDBMS
Parameters
SSL
Advanced
Hostname:
57.180.188.184
본인 IP
Port:
3306
Name or IP address of the server host - and TCP/IP port.
Username:
test_user
Name of the user to connect with.
Password:
Store in Vault ...
Clear
The user's password. Will be requested later if it's not set.
Default Schema:
test_db
The schema to use as default schema. Leave blank to select it later.
Configure Server Management...
Test Connection
Cancel
OK

비밀번호 : 1234Abcd!

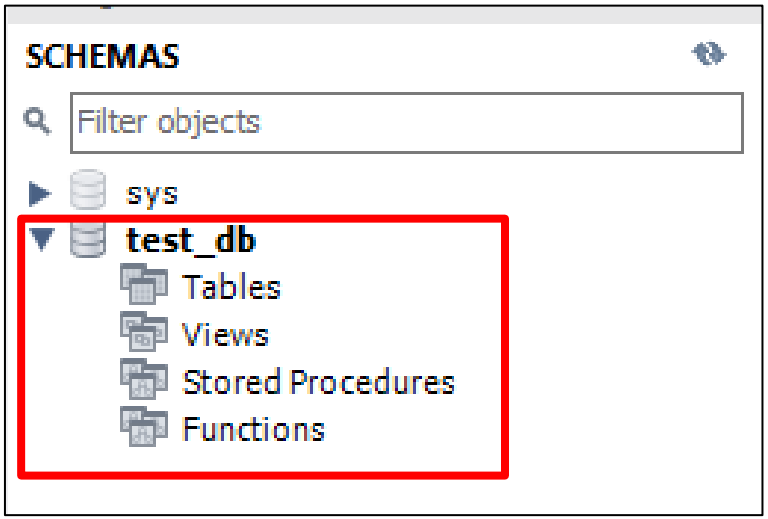





Setup New Connection
Connection Name:
server_db
Type a name for the connection
Connection Method:
Standard (TCP/IP)
Method to use to connect to the RDBMS
Parameters
SSL
Advanced
Hostname:
57.180.188.184
Port:
3306
Name or IP address of the server host - and TCP/IP port.
Username:
test_user
Name of the user to connect with.
Password:
Store in Vault ...
Clear
The user's password. Will be requested later if it's not set.
Default Schema:
test_db
The schema to use as default schema. Leave blank to select it later.
Configure Server Management...
Test Connection
Cancel
OK

데이터베이스 확인


server_db
test_user
57.180.188.184:3306

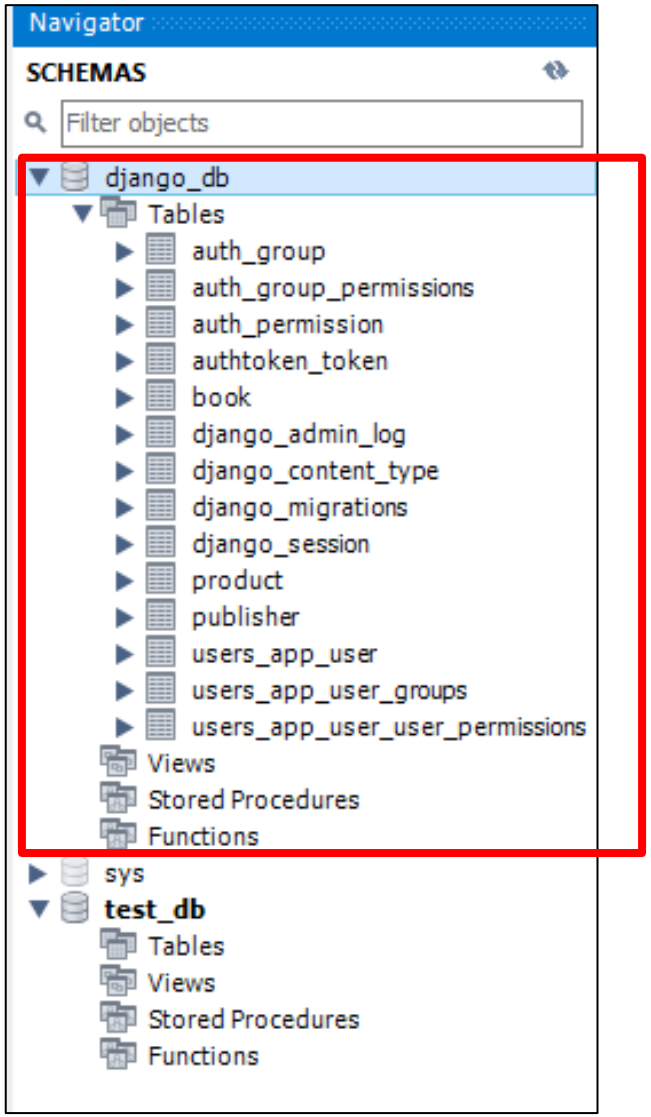

SCHEMAS
Filter objects
sys
test_db
Tables
Views
Stored Procedures
Functions

로컬의 django_db import

Export 한 django_db.sql 파일로 import

Server / Data Export
dango_db.sql 파일 열고 인코딩 수정
- 메모장에서
- utf8mb4_0900_ai_c 찾아서
- utf8mb4_general_ci 로 변경

Server / Data Import



새로고침하고 확인

MySQL 타임존 설정

현재 설정된 타임존 확인

SELECT @@GLOBAL.time_zone, @@SESSION.time_zone;

```
mysql> SELECT @@GLOBAL.time_zone, @@SESSION.time_zone;
+--------------------+---------------------+
| @@GLOBAL.time_zone | @@SESSION.time_zone |
+--------------------+---------------------+
| SYSTEM             | SYSTEM              |
+--------------------+---------------------+
1 row in set (0.00 sec)

mysql>
```

MySQL 타임존 설정

SET GLOBAL time_zone = '+9:00';
SET time_zone = '+9:00';
SELECT @@GLOBAL.time_zone, @@SESSION.time_zone;

```
mysql> SET GLOBAL time_zone = '+9:00';
Query OK, 0 rows affected (0.00 sec)

mysql> SET time_zone = '+9:00';
Query OK, 0 rows affected (0.00 sec)

mysql> SELECT @@GLOBAL.time_zone, @@SESSION.time_zone;
+--------------------+---------------------+
| @@GLOBAL.time_zone | @@SESSION.time_zone |
+--------------------+---------------------+
| +09:00             | +09:00              |
+--------------------+---------------------+
1 row in set (0.00 sec)

mysql>
```

my.cnf 설정 파일에 디폴트 타임존 설정

exit

```
mysql> exit
Bye
ubuntu@ip-172-31-46-99:~$
```

sudo vi /etc/mysql/mysql.conf.d/mysqld.cnf
맨 뒤로 이동해서 i 누르고 입력 후
ESC
:wq!

```
[mysqld]
pid-file        = /var/run/mysqld/mysqld.pid
socket          = /var/run/mysqld/mysqld.sock
datadir         = /var/lib/mysql
log-error       = /var/log/mysql/error.log
default_time_zone = '+09:00'
:wq!
```

vi : visual editor
vim : improved vi

MySQL 서버 재시작

```
sudo systemctl restart mysql
exit
```

libmysqlclient-dev 설치

- 파이썬에서 mysqlclient 모듈 사용하기 위해
- libmysqlclient-dev 설치

sudo apt-get install libmysqlclient-dev -y

```
ubuntu@ip-172-31-3-8:~$ sudo apt-get install libmysqlclient-dev -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
libmysqlclient-dev is already the newest version (8.0.33-1ubuntu18.04).
0 upgraded, 0 newly installed, 0 to remove and 5 not upgraded.
ubuntu@ip-172-31-3-8:~$
```

python3 버전 변경

현재 python3 버전 확인

python3 -V

```
ubuntu@ip-172-31-3-8:~$ python3 -V
Python 3.6.9
ubuntu@ip-172-31-3-8:~$
```

python 다른 버전 확인

ls /usr/bin/ | grep python

```
ubuntu@ip-172-31-3-8:~$ ls /usr/bin/ | grep python
dh_python2
dh_python3
python
python-config
python2
python2-config
python2.7
python2.7-config
python3
python3-config
python3-jsondiff
python3-jsonpatch
python3-jsonpointer
python3-jsonschema
python3.6
python3.6-config
python3.6m
python3.6m-config
python3.8
python3m
python3m-config
x86_64-linux-gnu-python-config
x86_64-linux-gnu-python2.7-config
x86_64-linux-gnu-python3-config
x86_64-linux-gnu-python3.6-config
x86_64-linux-gnu-python3.6m-config
x86_64-linux-gnu-python3m-config
ubuntu@ip-172-31-3-8:~$
```

alternatives 확인

sudo update-alternatives --config python3

```
ubuntu@ip-172-31-3-8:~$ sudo update-alternatives --config python3
update-alternatives: error: no alternatives for python3
ubuntu@ip-172-31-3-8:~$
```

python3.8을 우선순위 1로
python 3.6을 우선순위 2로 등록

sudo update-alternatives --install /usr/bin/python3 python3 /usr/bin/python3.8 1
sudo update-alternatives --install /usr/bin/python3 python3 /usr/bin/python3.6 2

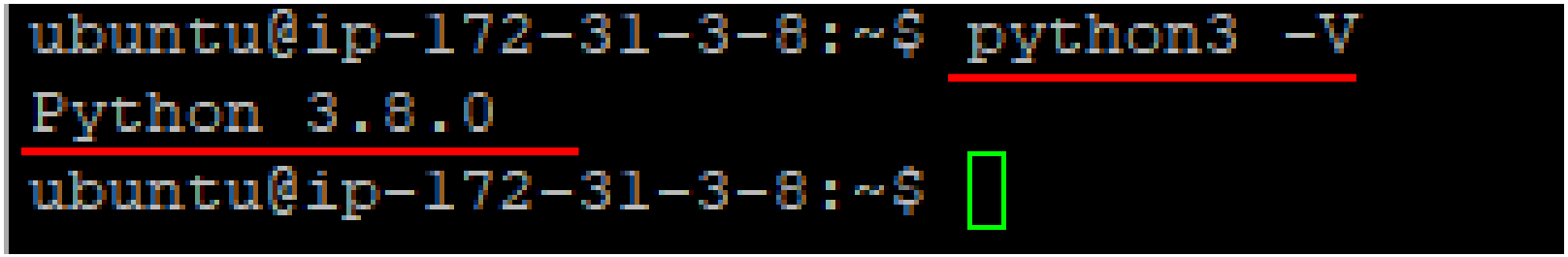
```
ubuntu@ip-172-31-3-8:~$ sudo update-alternatives --install /usr/bin/python3 python3 /usr/bin/python3.8 1
update-alternatives: using /usr/bin/python3.8 to provide /usr/bin/python3 (python3) in auto mode
ubuntu@ip-172-31-3-8:~$ sudo update-alternatives --install /usr/bin/python3 python3 /usr/bin/python3.6 2
update-alternatives: using /usr/bin/python3.6 to provide /usr/bin/python3 (python3) in auto mode
ubuntu@ip-172-31-3-8:~$
```

python3.8 선택
sudo update-alternatives --config python
2 선택

```
ubuntu@ip-172-31-3-8:~$ sudo update-alternatives --config python3
There are 2 choices for the alternative python3 (providing /usr/bin/python3).

  Selection    Path                Priority   Status
------------------------------------------------------------
* 0            /usr/bin/python3.6   2         auto mode
  1            /usr/bin/python3.6   2         manual mode
  2            /usr/bin/python3.8   1         manual mode

Press <enter> to keep the current choice[*], or type selection number: 2
```

파이썬 버전 확인

python3 -V



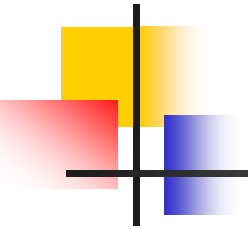
환경변수 설정

which python3

```
ubuntu@ip-172-31-3-8:~$ which python3
/usr/bin/python3
ubuntu@ip-172-31-3-8:~$
```

vi ~/.bashrc
맨 아래로 이동해서 한 줄 띄고 i 누르고 입력
export PATH=/usr/bin/python3:$PATH
export MYSQLCLIENT_LDFLAGS=$(pkg-config --libs mysqlclient)
export MYSQLCLIENT_CFLAGS=$(pkg-config --cflags mysqlclient)
ESC
:wq!

```
fi
unset __conda_setup
# <<< conda initialize <<<

export PATH=/usr/bin/python3:$PATH
export MYSQLCLIENT_LDFLAGS=$(pkg-config --libs mysqlclient)
export MYSQLCLIENT_CFLAGS=$(pkg-config --cflags mysqlclient)
:wq!
```



source ~/.bashrc (변경 사항 반영)

```
ubuntu@ip-172-31-3-8:~$ source ~/.bashrc
ubuntu@ip-172-31-3-8:~$
```

venv 가상환경 생성하기 위한 패키지 설치

```
sudo apt-get install python3.8-venv

sudo apt-get install python3.8-dev
```

ubuntu 계정 종료

```
exit
```

4. 서버에 업로드

- Putty로 접속하고
- pwd로 현재 위치 확인하고 : /home/lab01
- 현재 위치에서 깃 복제
  - git clone https://github.com/xxxx(본인 주소)
- 디렉토리명 변경 : 본인 이니셜 붙임
  - ls로 django_react 디렉토리 확인
  - mv django_react django_react_hkd
  - cd django_react_hkd 하고 내용 확인

db_settings.py 파일 생성

- django_react_hkd에 db_settings.py 파일 생성
- db_settings.py에서 USER와 PASSWORD 변경
  - “USER” : “test_db”
  - “PASSWORD” : “1234Abcd!”
- vi db_settings.py 해서 파일 열고 내용 복사/붙여넣기

가상환경 생성 / 필수 패키지 설치

- django_react_hkd 디렉토리 안에서
  - 가상환경 생성
    - python3 –m venv venv
    - 활성화 : source venv/bin/activate
  - 필수 패키지 설치
    - pip3 install --upgrade pip
    - pip3 install --upgrade setuptools
    - pip3 install -r requirements.txt
    - pip3 install cryptography

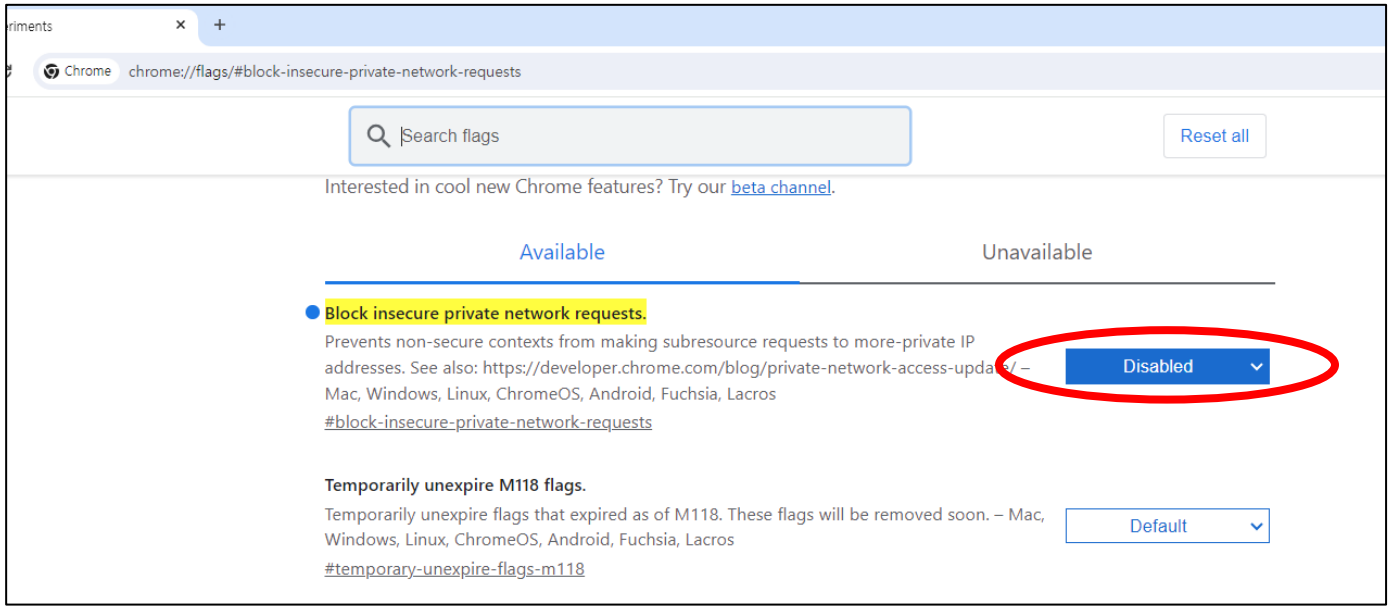
실행 확인

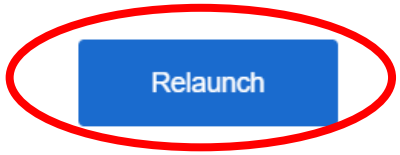
- django 서버 실행
  - python3 manage.py runserver 0.0.0.0:8000

```
(venv) tutor@ip-172-31-3-8:~/django_react_ysj$ python3 manage.py runserver 0.0.0.0:8000
Watching for file changes with StatReloader
Performing system checks...

LoginSerializer 로그인
views 로그인
System check identified no issues (0 silenced).
January 29, 2024 - 07:32:35
Django version 4.2.9, using settings 'djangoReactProject.settings'
Starting development server at http://0.0.0.0:8000/
Quit the server with CONTROL-C.
```

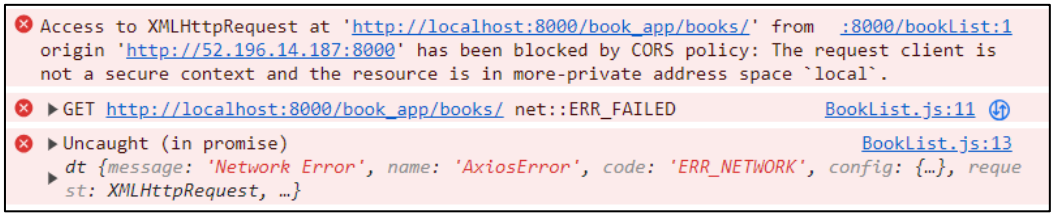
CORS 오류 처리

chrome://flags/#block-insecure-private-network-requests



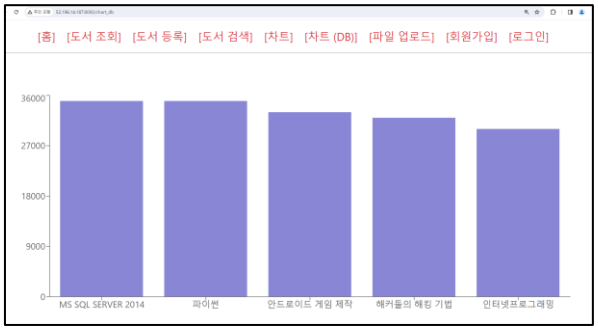


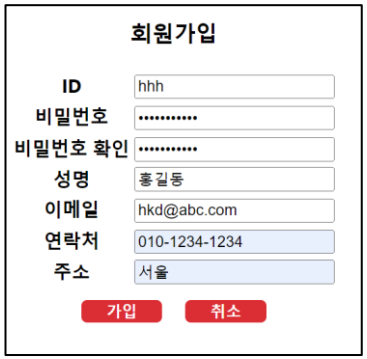
Disabled 설정하지 않으면 오류 발생



또는
https 전환하면
오류 없이 실행

결과 확인





모든 기능 다 잘 됨