Chap09.
Python & MariaDB 연동

작성자 : 김진성

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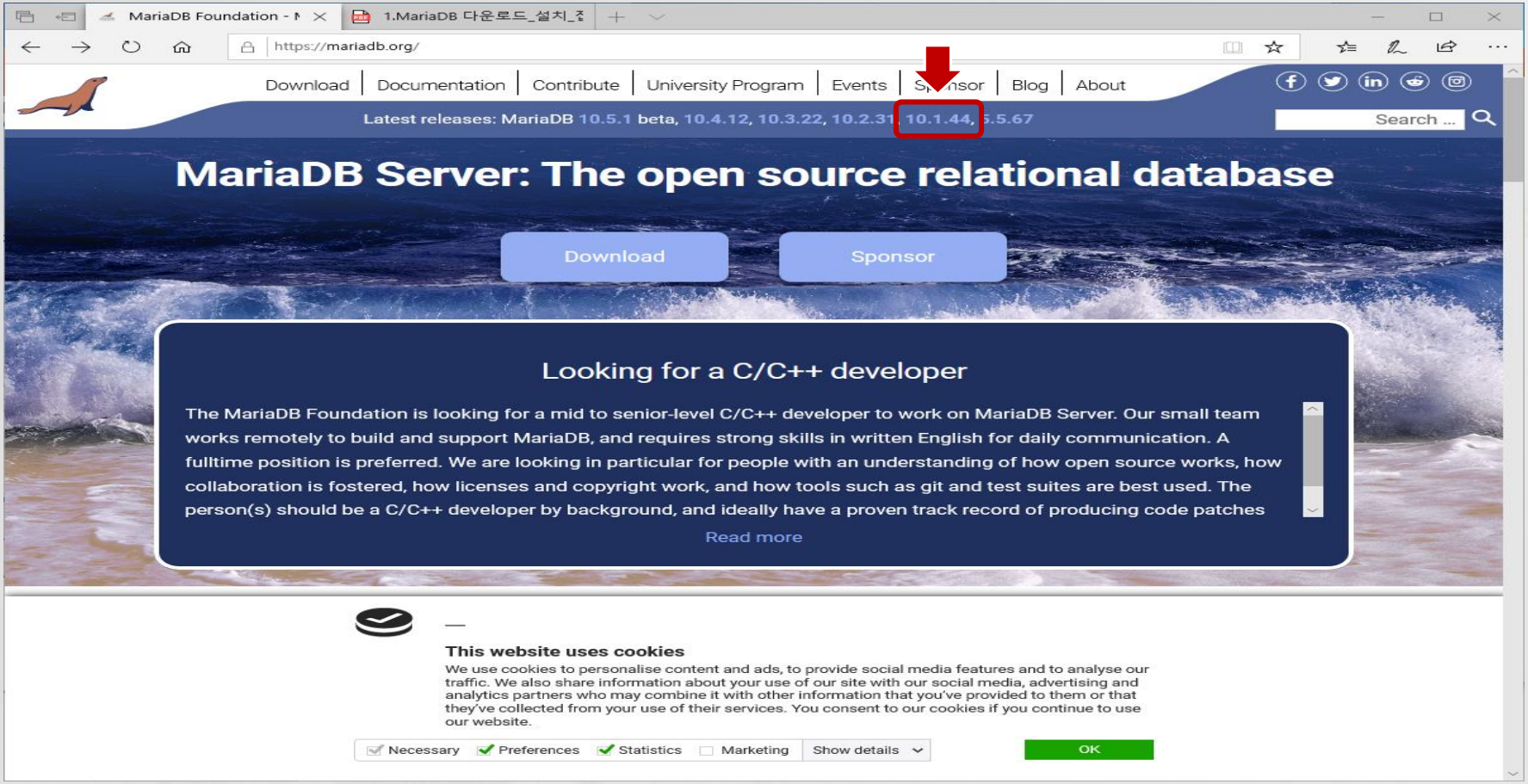
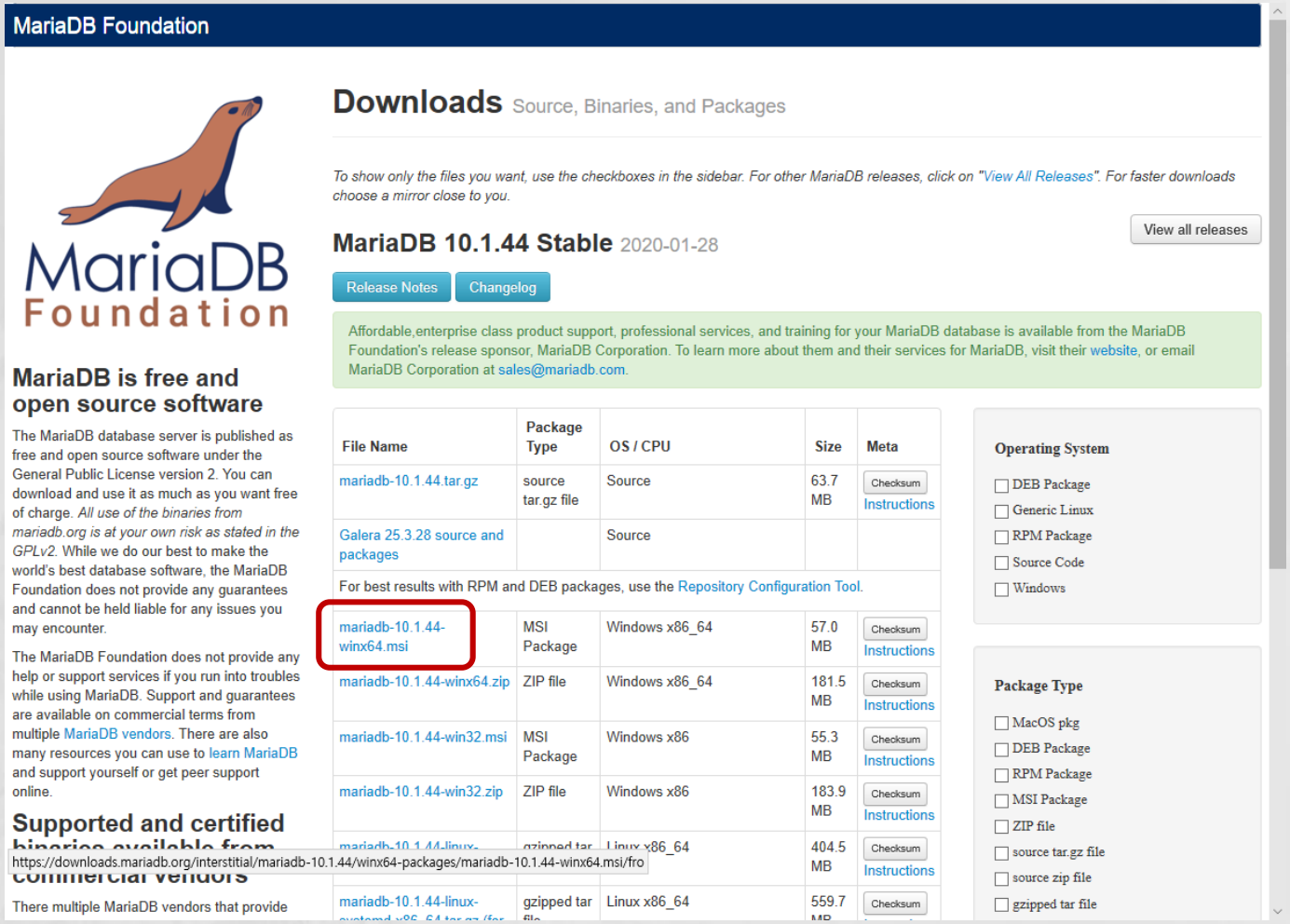
1. MariaDB 다운로드 & 설치

https://mariadb.org/




MariaDB Foundation
MariaDB Foundation
Downloads Source, Binaries, and Packages
To show only the files you want, use the checkboxes in the sidebar. For other MariaDB releases, click on "View All Releases". For faster downloads choose a mirror close to you.
MariaDB 10.1.44 Stable 2020-01-28
View all releases
Release Notes
Changelog
Affordable,enterprise class product support, professional services, and training for your MariaDB database is available from the MariaDB Foundation's release sponsor, MariaDB Corporation. To learn more about them and their services for MariaDB, visit their website, or email MariaDB Corporation at sales@mariadb.com.
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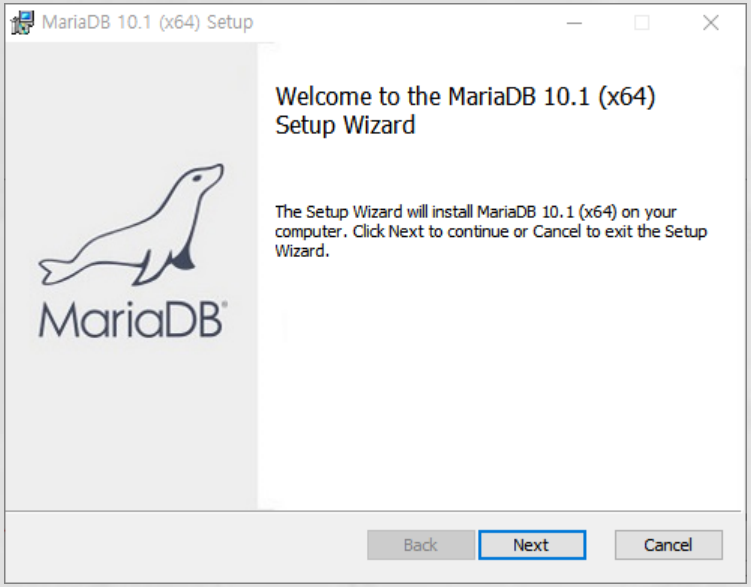
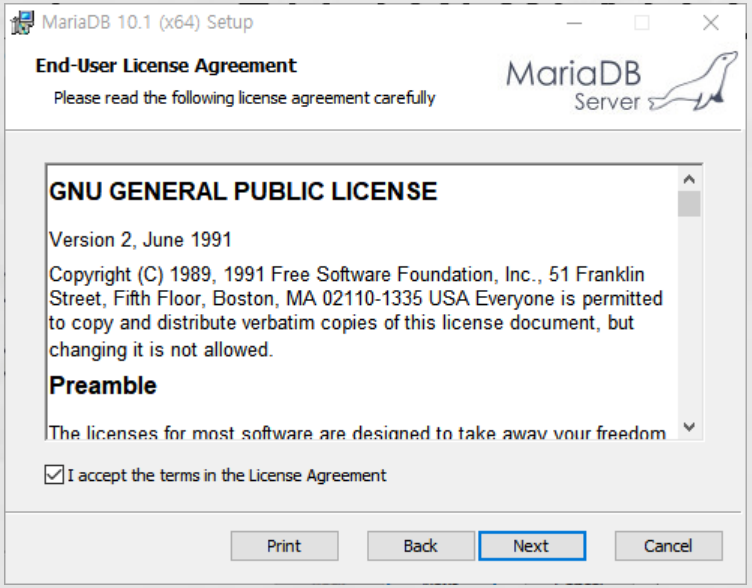
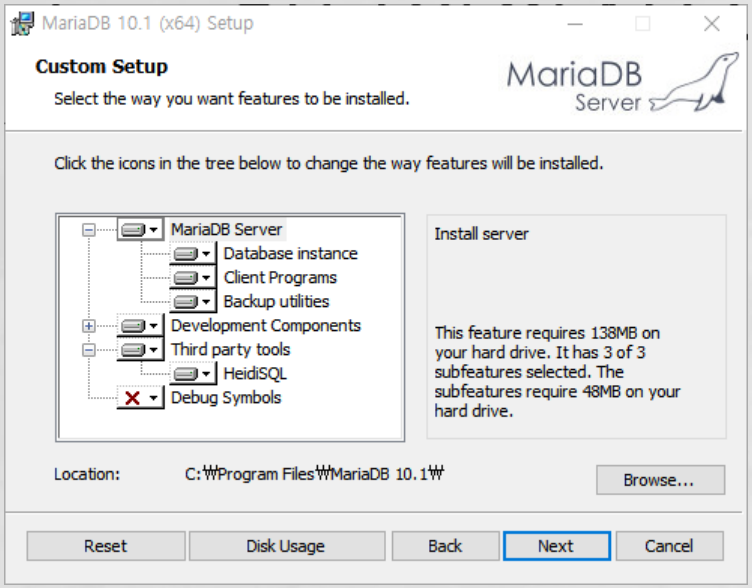
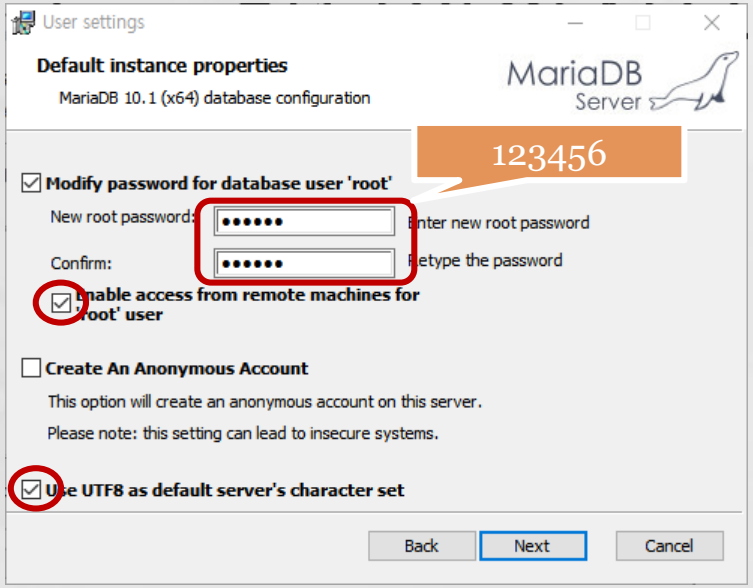
The MariaDB Foundation does not provide any help or support services if you run into troubles while using MariaDB. Support and guarantees are available on commercial terms from multiple MariaDB vendors. There are also many resources you can use to learn MariaDB and support yourself or get peer support online.
Supported and certified
commercial vendors
There multiple MariaDB vendors that provide
File Name
Package Type
OS / CPU
Size
Meta
mariadb-10.1.44.tar.gz
source tar.gz file
Source
63.7 MB
Checksum
Instructions
Galera 25.3.28 source and packages
Source
For best results with RPM and DEB packages, use the Repository Configuration Tool.
mariadb-10.1.44-winx64.msi
MSI Package
Windows x86_64
57.0 MB
Checksum
Instructions
mariadb-10.1.44-winx64.zip
ZIP file
Windows x86_64
181.5 MB
Checksum
Instructions
mariadb-10.1.44-win32.msi
MSI Package
Windows x86
55.3 MB
Checksum
Instructions
mariadb-10.1.44-win32.zip
ZIP file
Windows x86
183.9 MB
Checksum
Instructions
Linux x86_64
404.5 MB
Checksum
Instructions
mariadb-10.1.44-linux-
gzipped tar
Linux x86_64
559.7
Checksum
https://downloads.mariadb.org/interstitial/mariadb-10.1.44/winx64-packages/mariadb-10.1.44-winx64.msi/fro
Operating System
DEB Package
Generic Linux
RPM Package
Source Code
Windows
Package Type
MacOS pkg
DEB Package
RPM Package
MSI Package
ZIP file
source tar.gz file
source zip file
gzipped tar file

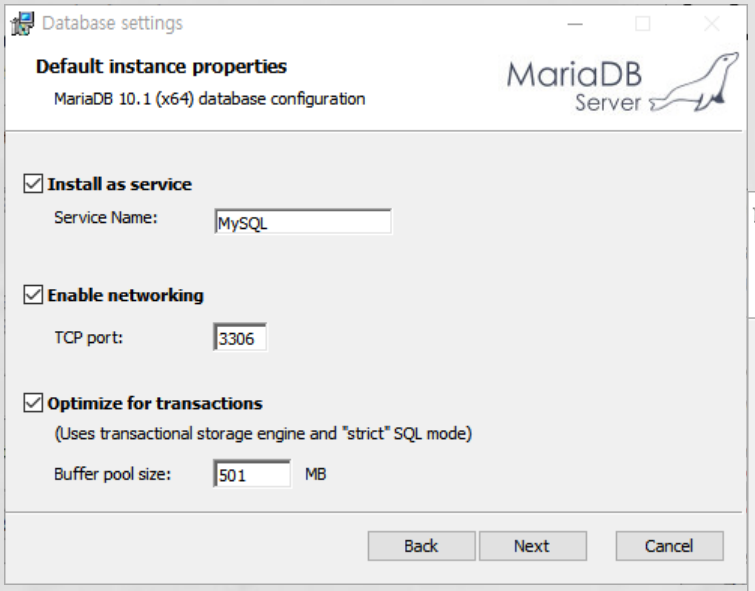
설치

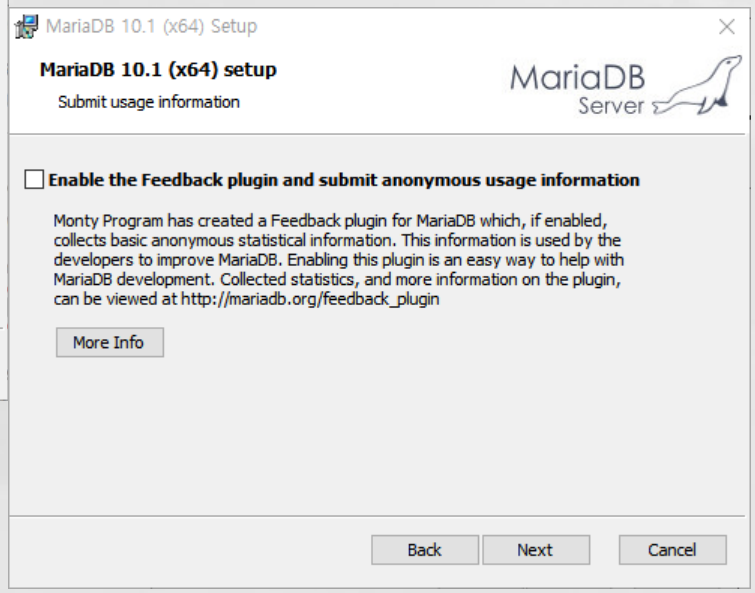

MariaDB 10.1 (x64) Setup
Welcome to the MariaDB 10.1 (x64) Setup Wizard
The Setup Wizard will install MariaDB 10.1 (x64) on your computer. Click Next to continue or Cancel to exit the Setup Wizard.
MariaDB
Back
Next
Cancel

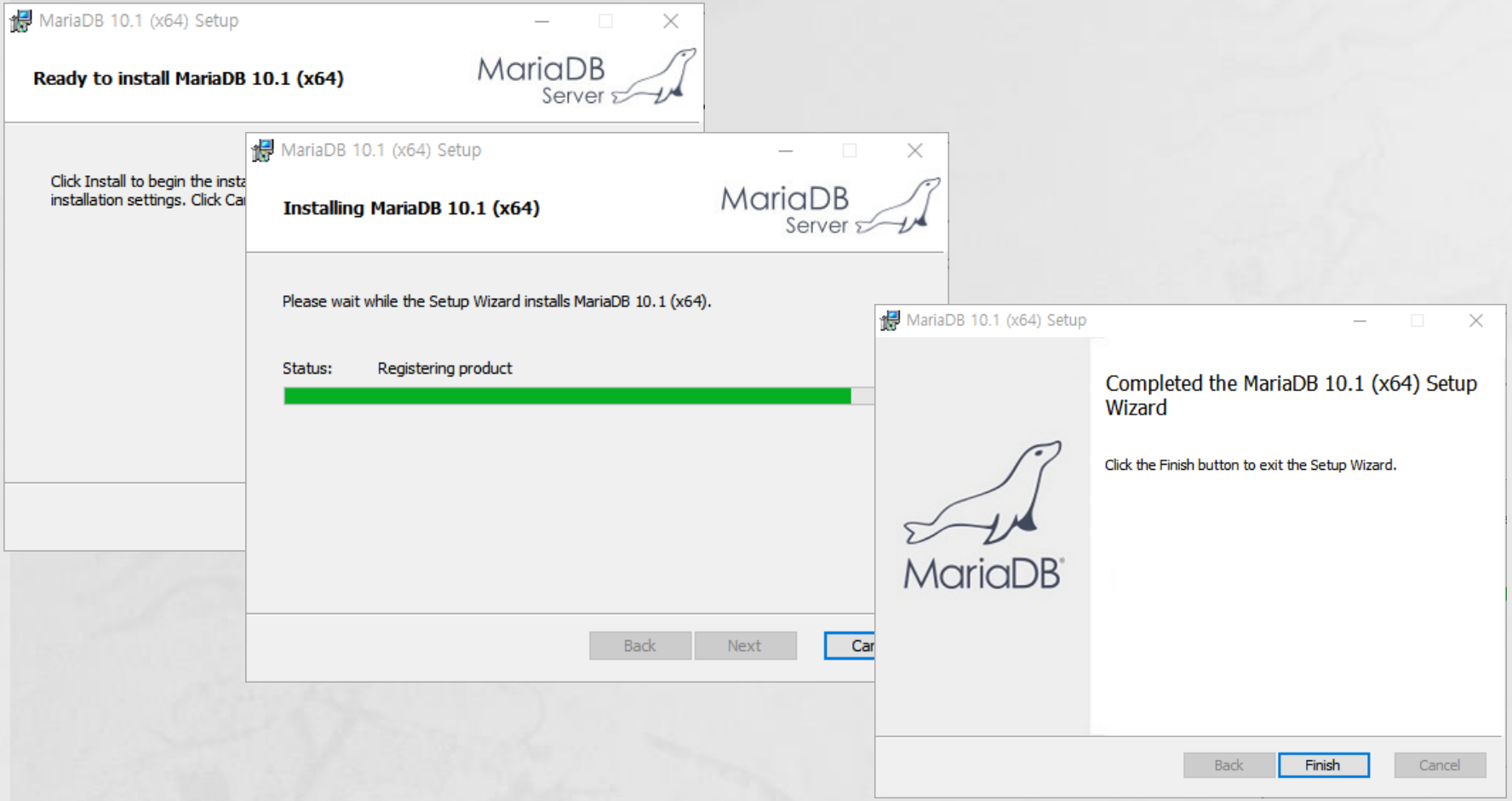

MariaDB 10.1 (x64) Setup
End-User License Agreement
Please read the following license agreement carefully
MariaDB Server
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991
Copyright (C) 1989, 1991 Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
Preamble
The licenses for most software are designed to take away your freedom
I accept the terms in the License Agreement
Print
Back
Next
Cancel


MariaDB 10.1 (x64) Setup
Custom Setup
Select the way you want features to be installed.
MariaDB Server
Click the icons in the tree below to change the way features will be installed.
MariaDB Server
Database instance
Client Programs
Backup utilities
Development Components
Third party tools
HeidiSQL
Debug Symbols
Install server
This feature requires 138MB on your hard drive. It has 3 of 3 subfeatures selected. The subfeatures require 48MB on your hard drive.
Location:
C:₩Program Files₩MariaDB 10.1₩
Browse...
Reset
Disk Usage
Back
Next
Cancel


User settings
Default instance properties
MariaDB 10.1 (x64) database configuration
MariaDB Server
123456
Modify password for database user 'root'
New root password:
Enter new root password
Confirm:
Retype the password
Enable access from remote machines for 'root' user
Create An Anonymous Account
This option will create an anonymous account on this server.
Please note: this setting can lead to insecure systems.
Use UTF8 as default server's character set
Back
Next
Cancel


Database settings
Default instance properties
MariaDB 10.1 (x64) database configuration
MariaDB Server
Install as service
Service Name:
MySQL
Enable networking
TCP port:
3306
Optimize for transactions
(Uses transactional storage engine and "strict" SQL mode)
Buffer pool size:
501
MB
Back
Next
Cancel

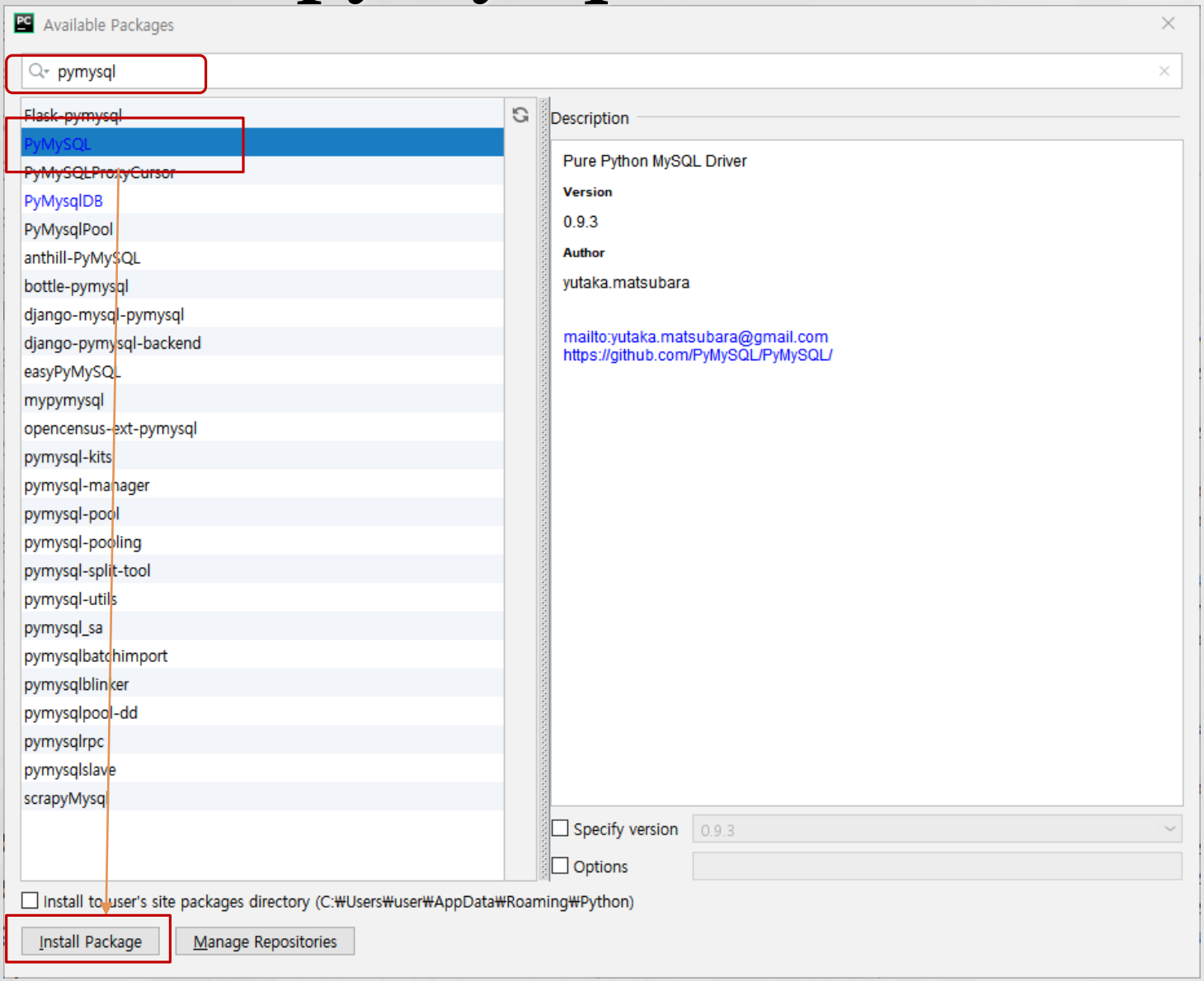

MariaDB 10.1 (x64) Setup
MariaDB 10.1 (x64) setup
Submit usage information
MariaDB Server
Enable the Feedback plugin and submit anonymous usage information
Monty Program has created a Feedback plugin for MariaDB which, if enabled, collects basic anonymous statistical information. This information is used by the developers to improve MariaDB. Enabling this plugin is an easy way to help with MariaDB development. Collected statistics, and more information on the plugin, can be viewed at http://mariadb.org/feedback_plugin
More Info
Back
Next
Cancel


MariaDB 10.1 (x64) Setup
Ready to install MariaDB 10.1 (x64)
MariaDB Server
Click Install to begin the insta
installation settings. Click Ca
MariaDB 10.1 (x64) Setup
Installing MariaDB 10.1 (x64)
MariaDB Server
Please wait while the Setup Wizard installs MariaDB 10.1 (x64).
Status: Registering product
Back
Next
Car
MariaDB 10.1 (x64) Setup
MariaDB
Completed the MariaDB 10.1 (x64) Setup Wizard
Click the Finish button to exit the Setup Wizard.
Back
Finish
Cancel

2. MariaDB 드라이버 다운로드&설치

- Driver : 프로그램에서 DB를 연결시키는 역할
- 프로그램의 유형에 따라서 드라이버 다름
- Mysql의 드라이버를 그대로 사용
  - Python 전용 드라이버 : python 프로그램과 DB 연동

pymysql 설치


Available Packages
pymysql
Flask-pymysql
PyMySQL
PyMySQLProxyCursor
PyMysqlDB
PyMysqlPool
anthill-PyMySQL
bottle-pymysql
django-mysql-pymysql
django-pymysql-backend
easyPyMySQL
mypymysql
opencensus-ext-pymysql
pymysql-kits
pymysql-manager
pymysql-pool
pymysql-pooling
pymysql-split-tool
pymysql-utils
pymysql_sa
pymysqlbatchimport
pymysqlblinker
pymysqlpool-dd
pymysqlrpc
pymysqlslave
scrapyMysql
Description
Pure Python MySQL Driver
Version
0.9.3
Author
yutaka.matsubara
mailto:yutaka.matsubara@gmail.com
https://github.com/PyMySQL/PyMySQL/
Specify version
0.9.3
Options
Install to user's site packages directory (C:₩Users₩user₩AppData₩Roaming₩Python)
Install Package
Manage Repositories

3. 라이브러리 import 및 DB 연동 테스트

```
import pymysql

config = {
    'host' : '127.0.0.1',
    'user' : 'scott',
    'password' : 'tiger',
    'database' : 'work',
    'port' : 3306,
    'charset':'utf8',
    'use_unicode' : True}

try :
    # db 연동 객체
     conn = pymysql.connect(**config)
    # sql문 실행 객체
    cursor = conn.cursor()

    sql = "select * from goods"
    cursor.execute(sql)

    dataset = cursor.fetchall()
    for row in dataset :
        print(row)

except Exception as e :
    print('db error :', e)
    conn.rollback()
finally:
    cursor.close()
    conn.close()
```