

[Mongodb] 01. Mongodb 설치

학습 목표

가. MongoDB 프로그램을 다운로드 후, 설치할 수 있다.

나. 설치 후, mongodb를 실행할 수 있다.

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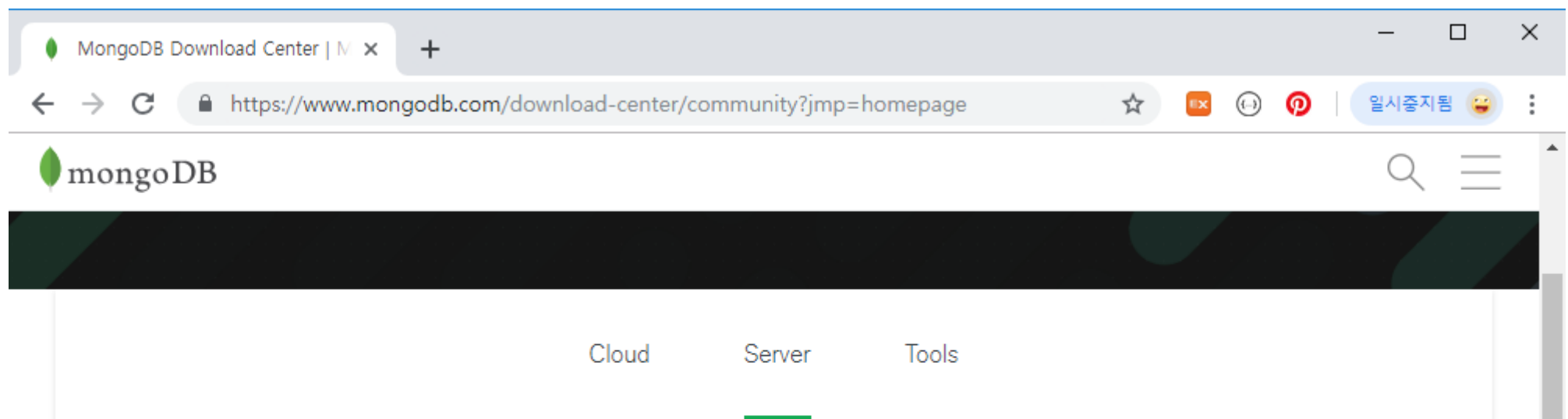
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(가) 다운로드 URL로 이동한다.

mongoDB 다운로드 URL :

<https://www.mongodb.com/download-center?jmp=homepage#community>



Select the server you would like to run:

MongoDB Community Server

FEATURE RICH. DEVELOPER READY.

MongoDB Enterprise Server

ADVANCED FEATURES. PERFORMANCE GRADE.

Version

4.0.6 (current release)

OS

Windows 64-bit x64

Package

MSI

Download

https://fastdl.mongodb.org/win32/mongodb-win32-x86_64-2008plus-ssl-4.0.6-signed.msi

- Release notes
- Changelog
- All version binaries
- Installation instructions
- Download source (tgz)
- Download source (zip)

MongoDB offers both an Enterprise and Community version of its powerful non-relational database. MongoDB Enterprise is available as part of the MongoDB Enterprise Advanced subscription, which features the most comprehensive support for MongoDB and the best SLA, in addition to Ops Manager, Compass, and the Connector for BI.

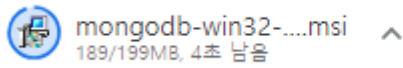
MongoDB Enterprise comes with:

- **In-memory Storage Engine** - deliver high throughput and predictable low latency
- **Encrypted Storage Engine** - encrypt your data at rest

환경에 맞는 프로그램을 선택 후, 'DOWNLOAD(msi)' 버튼을 선택 후, 프로그램을 다운로드를 진행한다.

(나) 프로그램 다운로드

프로그램 : mongodb-win32-x86_64-2008plus-ssl-4.0.6-signed.msi (19/03/20버전)

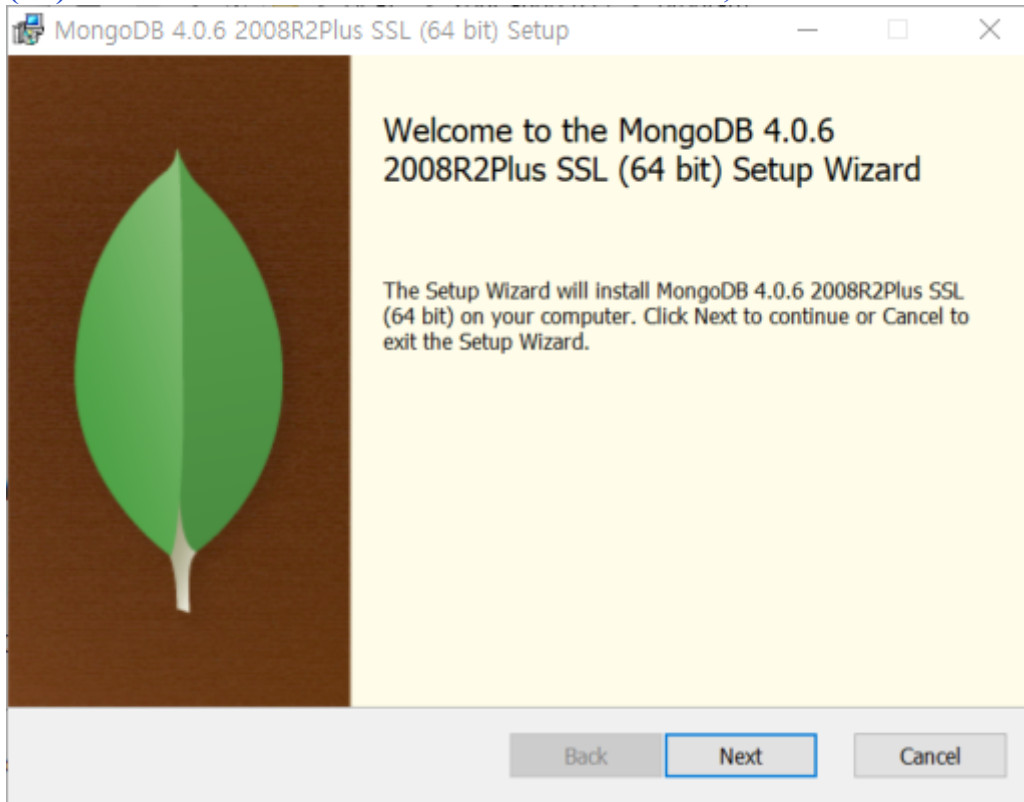
[전체 보기](#)

* 설치 버전에 따라 프로그램 이름이 달라질 수 있다.

1-2. MongoDB 설치하기

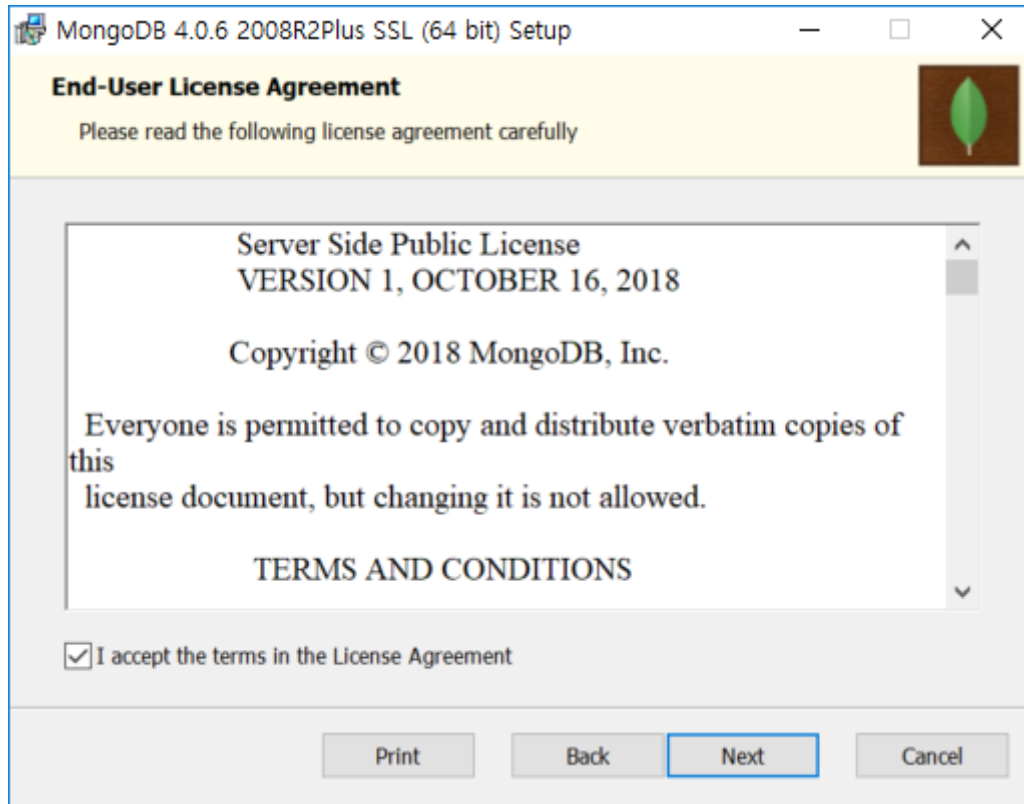
환경 : Window 10

(가) 다운로드 받은 프로그램을 더블 클릭 후, 프로그램을 실행한다.



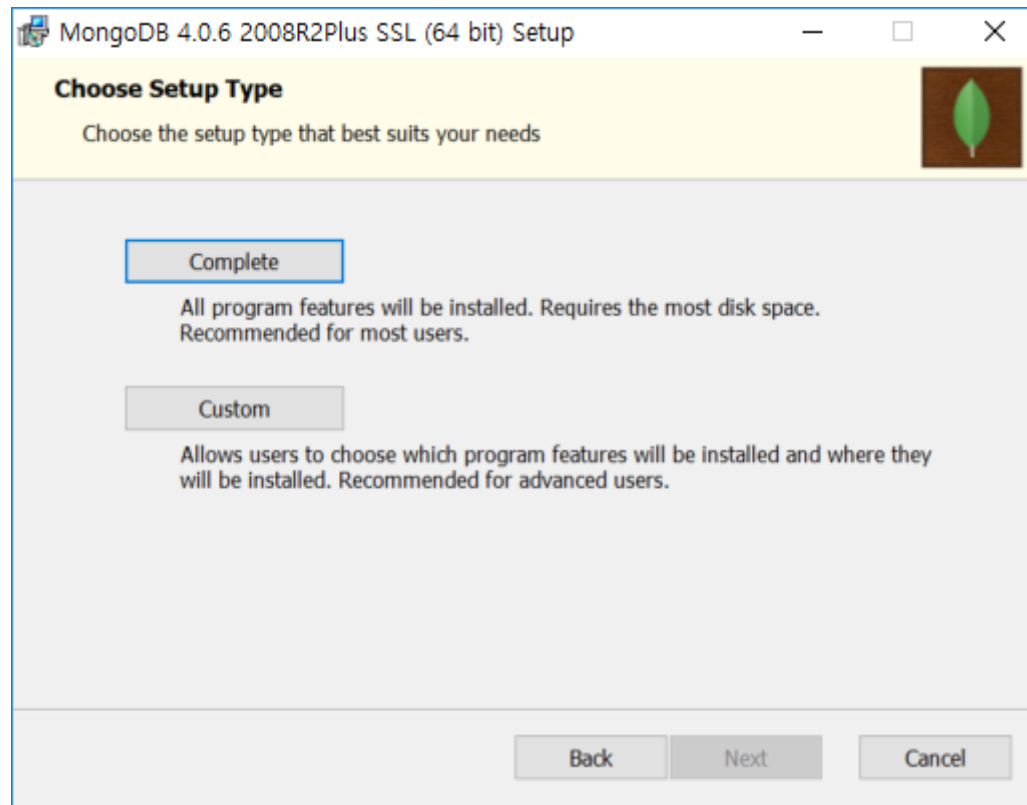
(나) 'End User License Agreement' 화면

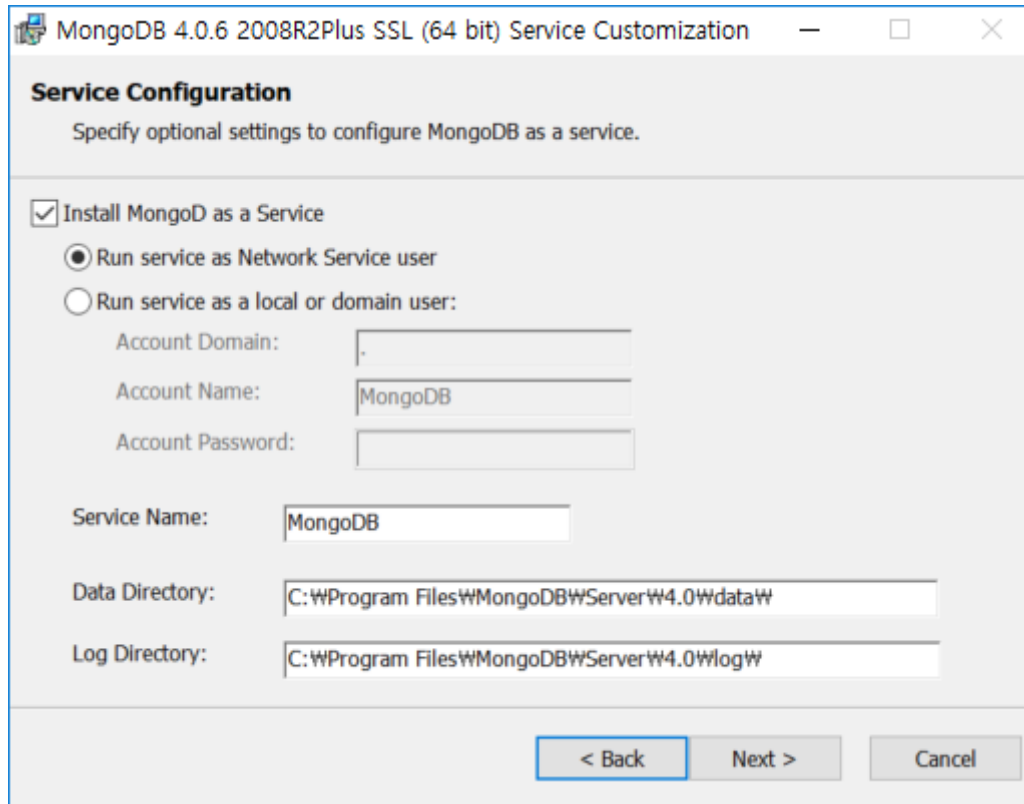
'I accept the terms in the License Agreement'을 체크 후, 'Next' 선택한다.



(다) 설치 형태 선택하기 - 'Choose Setup Type'

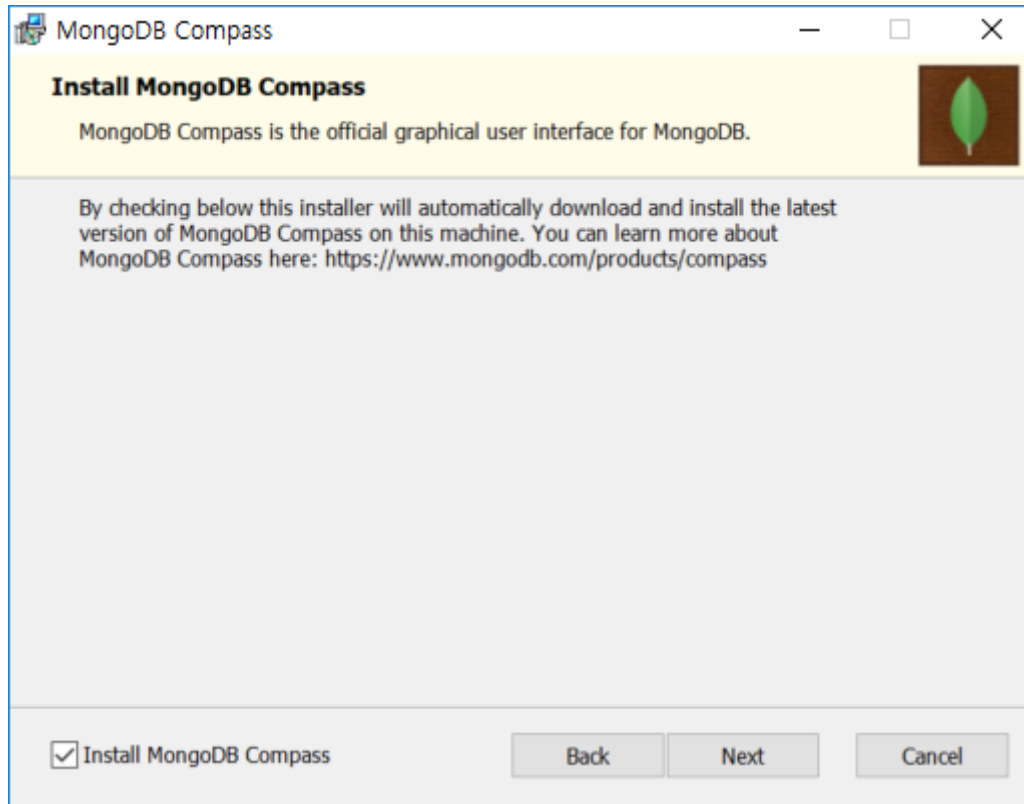
'Complete' 기본 설정으로 두고, 'Next' 선택한다.





(라) 'Install MongoDB Compass'

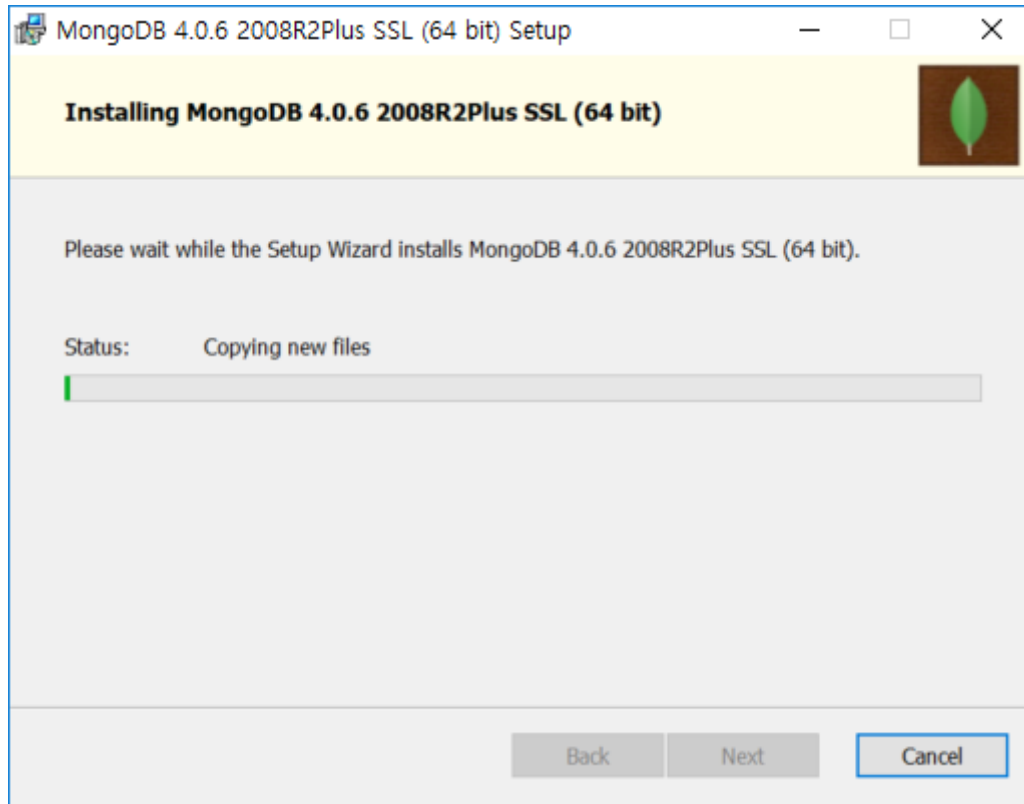
기본 설정으로 둔 상태에서 'Next'를 선택한다.



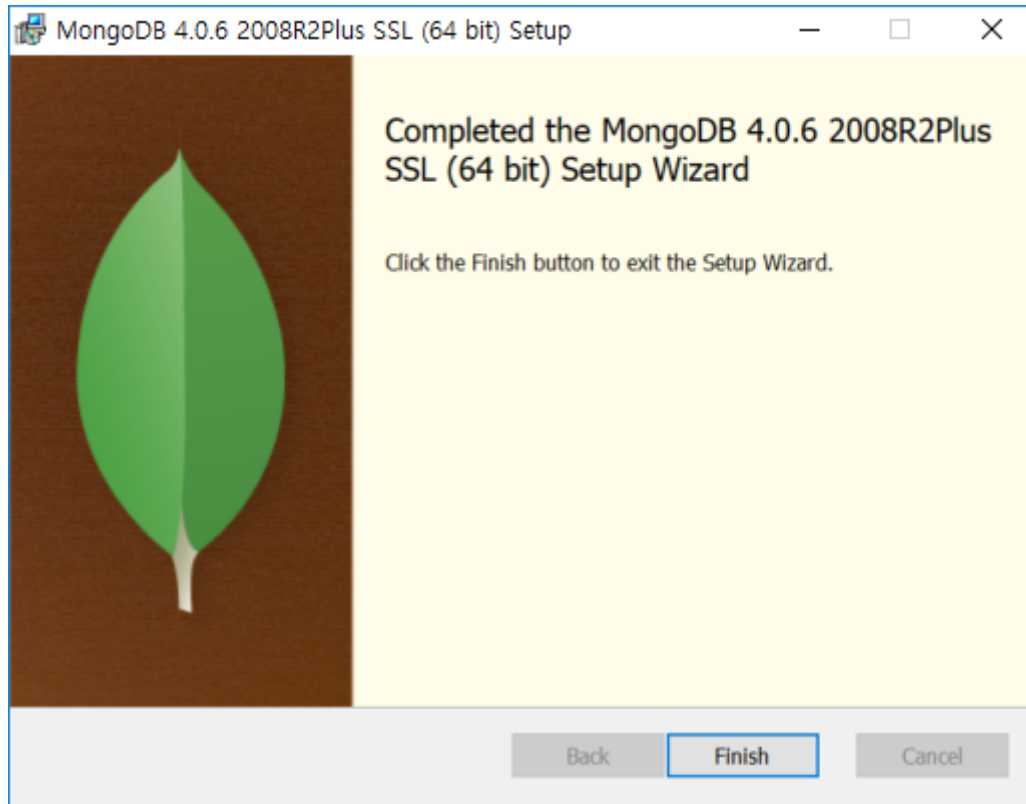
(마) 'Ready to install MongoDB 3.6.5 2008R2Plus SSL (64 bit)' 화면

'Install'를 선택 후, 설치를 진행한다.

(바) 'Ready to install MongoDB 3.6.5 2008R2Plus SSL (64 bit)' 설치 진행 화면



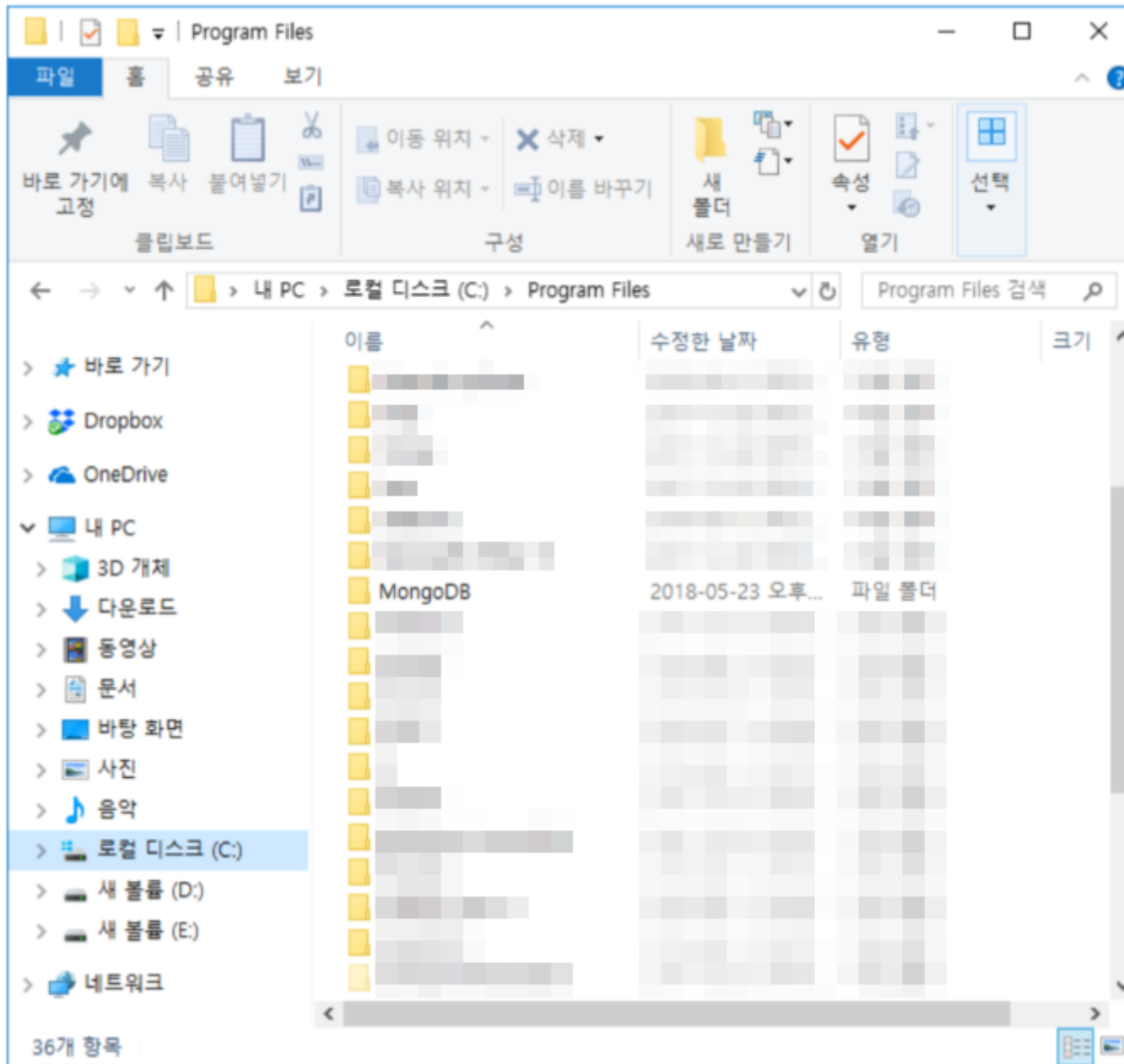
(사) 설치 완료 화면



1-3. 설치 후, 시작해 보기

(가) 정상적으로 설치가 완료되면 MongoDB 아래 위치에 설치가 된다.

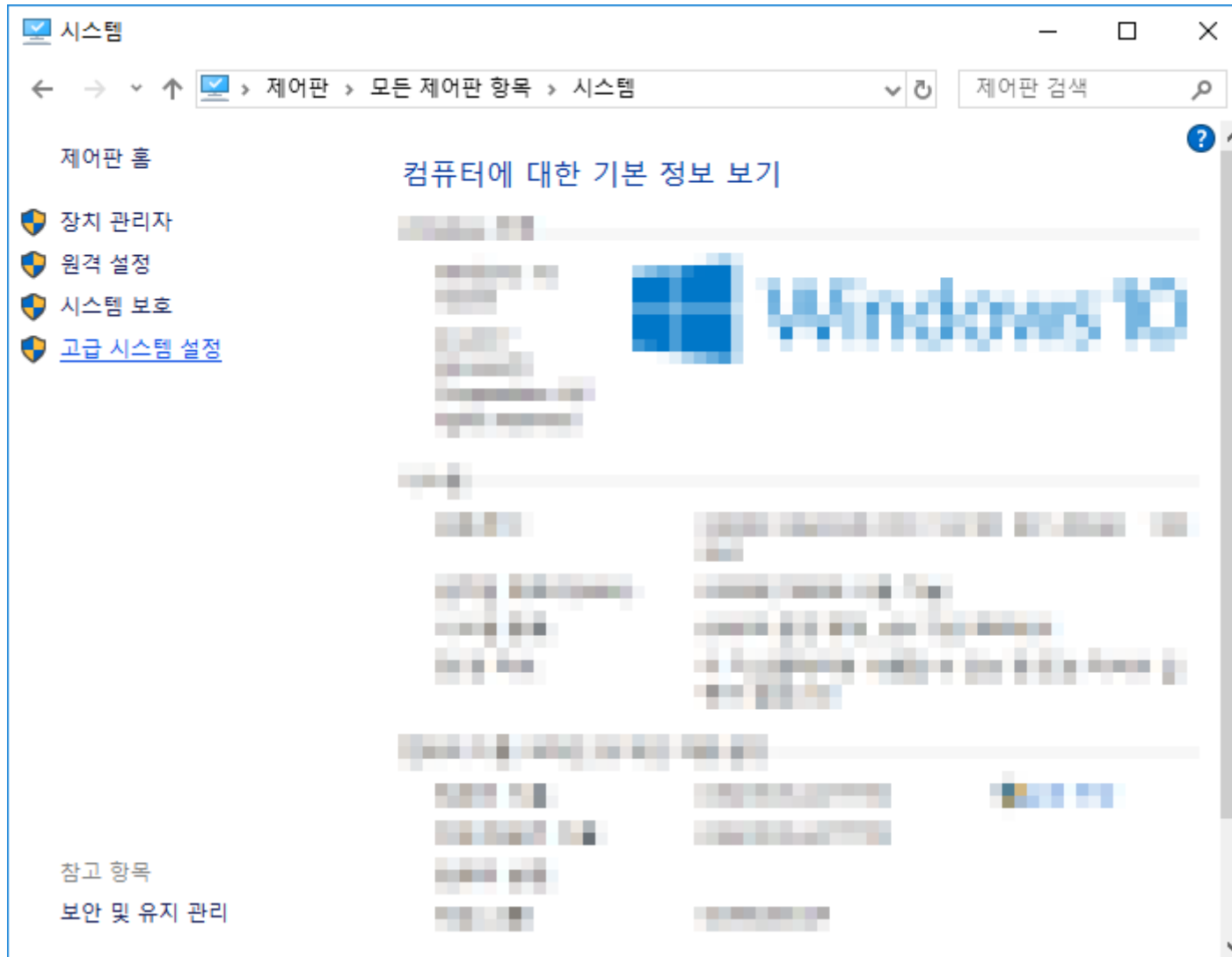
설치 위치 : C:\Program Files\MongoDB



(나) 환경 변수 추가

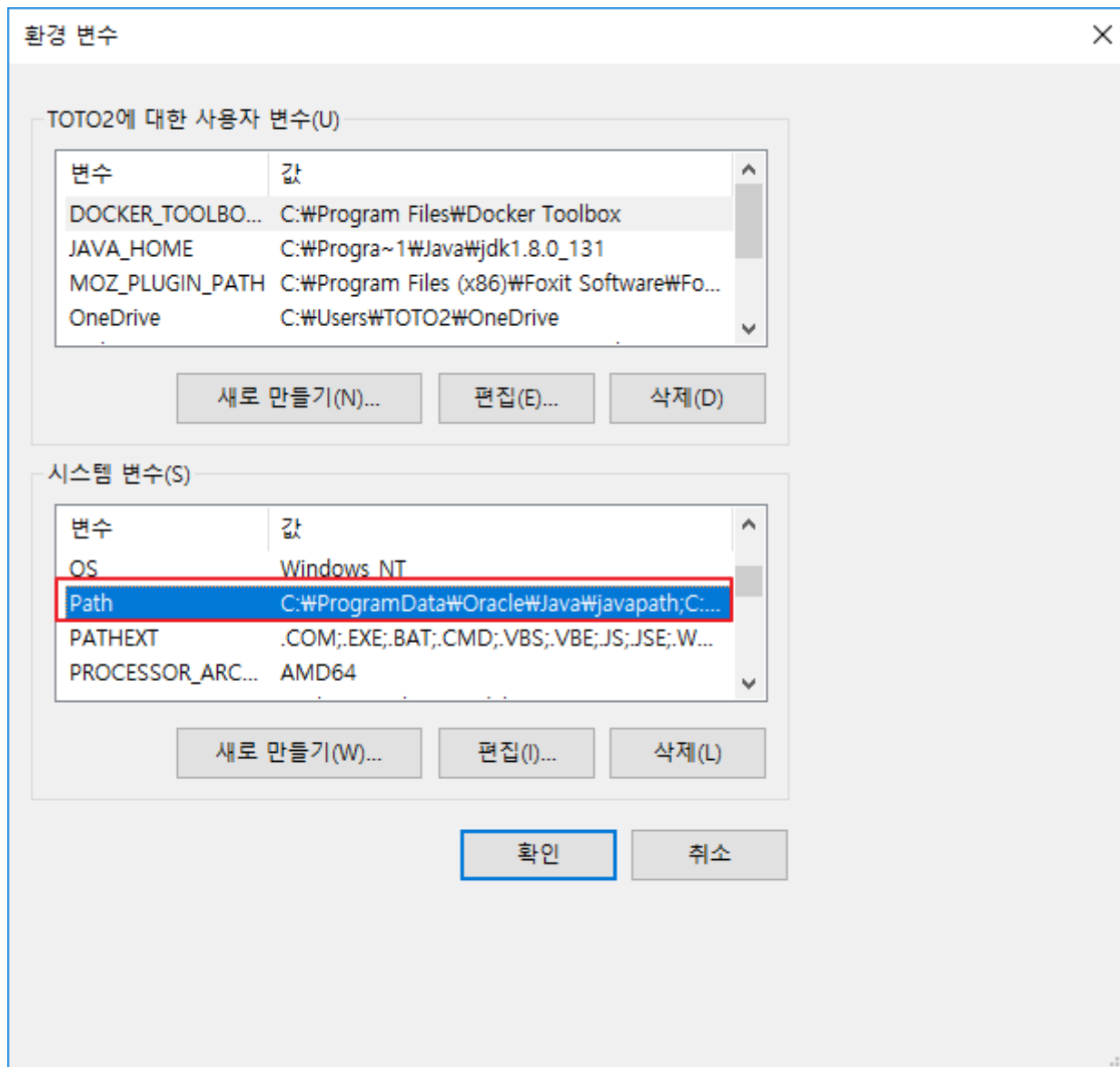
위치 : C:\Program Files\MongoDB

제어판 실행 -> 시스템 선택 -> 고급 시스템 설정 -> 환경 변수 선택



프로그램이 설치된 위치를 복사 후, Path에 추가한다.

C:\Program Files\MongoDB\Server\4.0\bin



Path 선택 후, '편집' 버튼 선택 후, 해당 경로 추가한다.

C:\Program Files\MongoDB\Server\4.0\bin

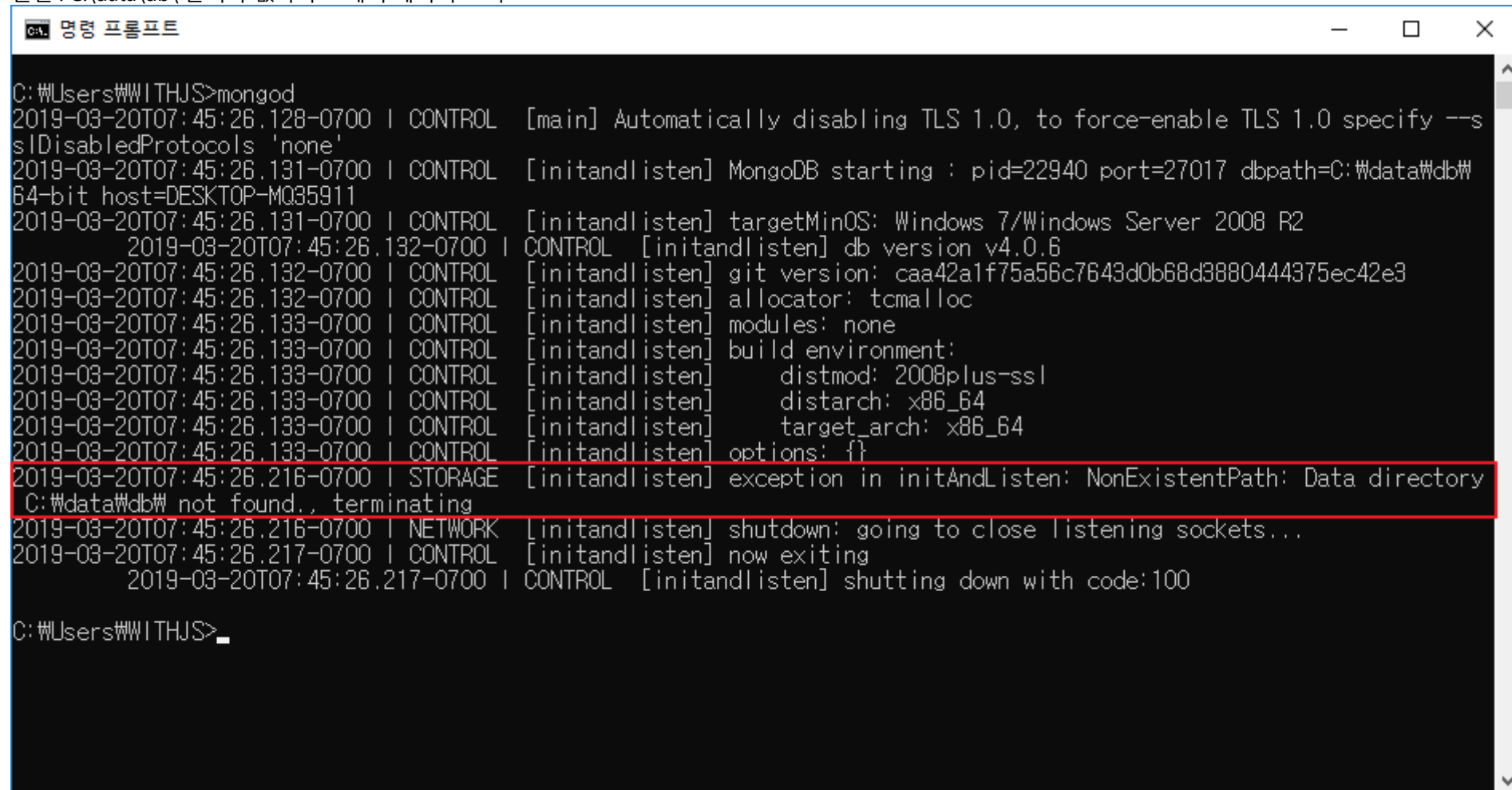
경로 추가 후, '확인' 버튼 선택한다.

(다) 실행 시키기

- cmd 실행 후, mongod를 실행한다.

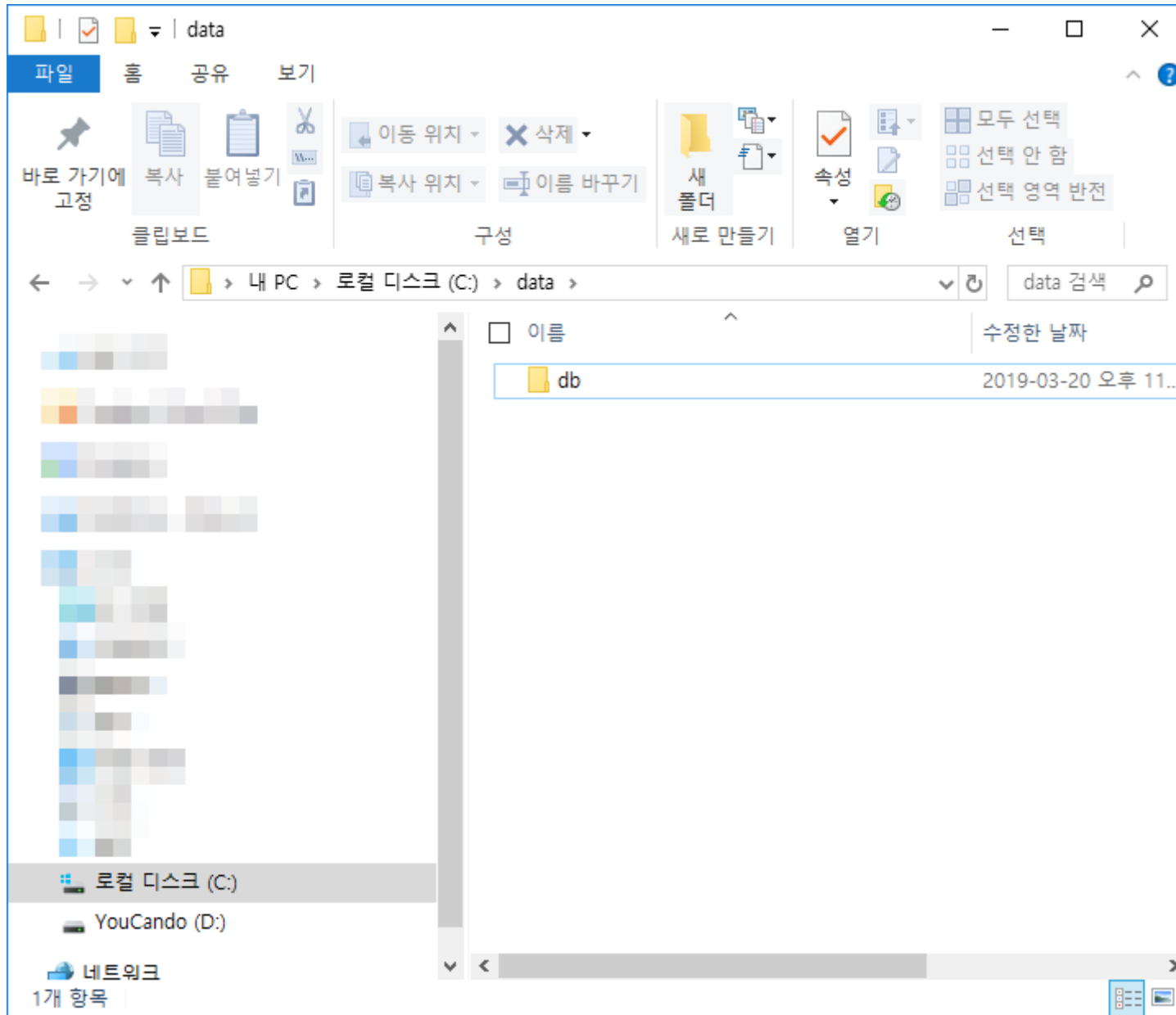
cmd 실행 후, mongod 실행 시, 에러 발생.

원인 : C:\data\db\ 폴더가 없다고 에러 메시지 표시



```
C:\Users\WITHJS>mongod
2019-03-20T07:45:26.128-0700 | CONTROL | [main] Automatically disabling TLS 1.0, to force-enable TLS 1.0 specify --s
sldisabledprotocols 'none'
2019-03-20T07:45:26.131-0700 | CONTROL | [initandlisten] MongoDB starting : pid=22940 port=27017 dbpath=C:\data\db\
64-bit host=DESKTOP-MQ35911
2019-03-20T07:45:26.131-0700 | CONTROL | [initandlisten] targetMinOS: Windows 7/Windows Server 2008 R2
2019-03-20T07:45:26.132-0700 | CONTROL | [initandlisten] db version v4.0.6
2019-03-20T07:45:26.132-0700 | CONTROL | [initandlisten] git version: caa42a1f75a56c7643d0b68d3880444375ec42e3
2019-03-20T07:45:26.132-0700 | CONTROL | [initandlisten] allocator: tcmalloc
2019-03-20T07:45:26.133-0700 | CONTROL | [initandlisten] modules: none
2019-03-20T07:45:26.133-0700 | CONTROL | [initandlisten] build environment:
2019-03-20T07:45:26.133-0700 | CONTROL | [initandlisten]   distmod: 2008plus-ssl
2019-03-20T07:45:26.133-0700 | CONTROL | [initandlisten]   distarch: x86_64
2019-03-20T07:45:26.133-0700 | CONTROL | [initandlisten]   target_arch: x86_64
2019-03-20T07:45:26.133-0700 | CONTROL | [initandlisten] options: {}
2019-03-20T07:45:26.216-0700 | STORAGE | [initandlisten] exception in initAndListen: NonExistentPath: Data directory
C:\data\db\ not found., terminating
2019-03-20T07:45:26.216-0700 | NETWORK | [initandlisten] shutdown: going to close listening sockets...
2019-03-20T07:45:26.217-0700 | CONTROL | [initandlisten] now exiting
2019-03-20T07:45:26.217-0700 | CONTROL | [initandlisten] shutting down with code:100

C:\Users\WITHJS>
```



db 폴더를 생성 후, 다시 진행하면 에러 메시지가 생기지 않고 정상적으로 진행된다.

```

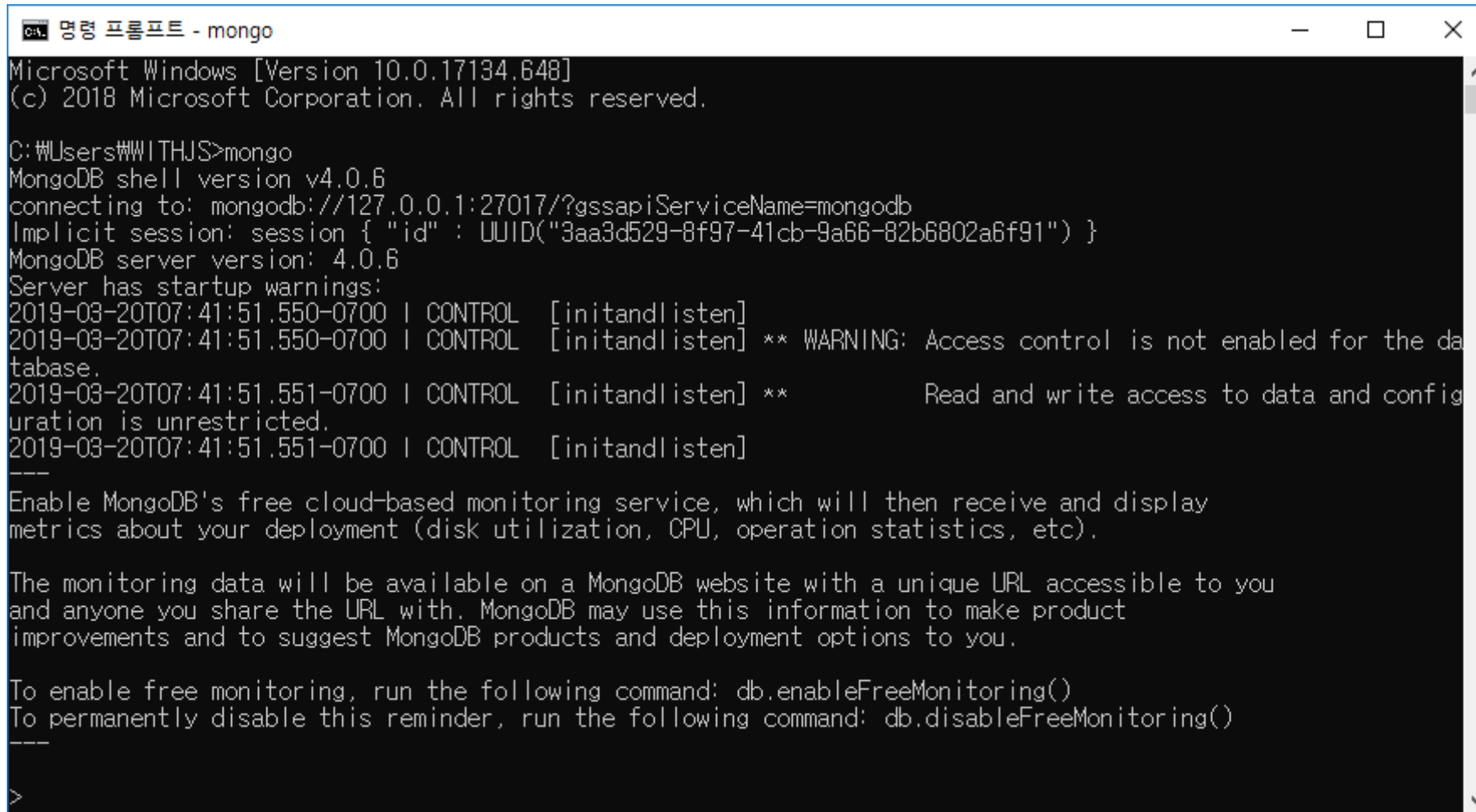
2019-03-20T07:46:17.286-0700 | CONTROL | [initandlisten] **      Remote systems will be unable to connect to thi
s server.
2019-03-20T07:46:17.287-0700 | CONTROL | [initandlisten] **      Start the server with --bind_ip <address> to sp
ecify which IP
2019-03-20T07:46:17.287-0700 | CONTROL | [initandlisten] **      addresses it should serve responses from, or wi
th --bind_ip_all to
2019-03-20T07:46:17.289-0700 | CONTROL | [initandlisten] **      bind to all interfaces. If this behavior is des
ired, start the
2019-03-20T07:46:17.290-0700 | CONTROL | [initandlisten] **      server with --bind_ip 127.0.0.1 to disable this
warning.
2019-03-20T07:46:17.291-0700 | CONTROL | [initandlisten]
2019-03-20T23:46:17.292+0900 | STORAGE | [initandlisten] createCollection: admin.system.version with provided UUID:
3b4c39d7-4781-4991-9267-2a6e661b7a09
2019-03-20T23:46:17.310+0900 | COMMAND | [initandlisten] setting featureCompatibilityVersion to 4.0
2019-03-20T23:46:17.315+0900 | STORAGE | [initandlisten] createCollection: local.startup_log with generated UUID: f4
13eb99-ef28-4404-8e5b-94413ac6d4db
2019-03-20T23:46:17.956+0900 | FTDC   | [initandlisten] Initializing full-time diagnostic data capture with directo
ry 'C:/data/db/diagnostic.data'
2019-03-20T23:46:17.961+0900 | NETWORK | [initandlisten] waiting for connections on port 27017
2019-03-20T23:46:17.961+0900 | STORAGE | [LogicalSessionCacheRefresh] createCollection: config.system.sessions with
generated UUID: a377fbd9-327b-4287-a14c-578104cbd20f
2019-03-20T23:46:17.979+0900 | INDEX   | [LogicalSessionCacheRefresh] build index on: config.system.sessions propert
ies: { v: 2, key: { lastUse: 1 }, name: "lsidTTLIndex", ns: "config.system.sessions", expireAfterSeconds: 1800 }
2019-03-20T23:46:17.979+0900 | INDEX   | [LogicalSessionCacheRefresh] building index using bulk method; build ma
y temporarily use up to 500 megabytes of RAM
2019-03-20T23:46:17.986+0900 | INDEX   | [LogicalSessionCacheRefresh] build index done. scanned 0 total records. 0
secs

```

db서버가 실행된 상태이다. 자 이제 그렇다면 다른 cmd 창을 띄워 mongodb에 접속해 보자.

1-4. MongoDB 에 접속 후, 기본 명령어 실행하기

(가) 다른 cmd 실행 후, mongo를 입력 후, 실행한다.



```
CA. 명령 프롬프트 - mongo
Microsoft Windows [Version 10.0.17134.648]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\WITHJS>mongo
MongoDB shell version v4.0.6
connecting to: mongodb://127.0.0.1:27017/?gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("3aa3d529-8f97-41cb-9a66-82b6802a6f91") }
MongoDB server version: 4.0.6
Server has startup warnings:
2019-03-20T07:41:51.550-0700 | CONTROL | [initandlisten]
2019-03-20T07:41:51.550-0700 | CONTROL | [initandlisten] ** WARNING: Access control is not enabled for the database.
2019-03-20T07:41:51.551-0700 | CONTROL | [initandlisten] **           Read and write access to data and configuration is unrestricted.
2019-03-20T07:41:51.551-0700 | CONTROL | [initandlisten]
---
Enable MongoDB's free cloud-based monitoring service, which will then receive and display
metrics about your deployment (disk utilization, CPU, operation statistics, etc).

The monitoring data will be available on a MongoDB website with a unique URL accessible to you
and anyone you share the URL with. MongoDB may use this information to make product
improvements and to suggest MongoDB products and deployment options to you.

To enable free monitoring, run the following command: db.enableFreeMonitoring()
To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
---
>
```

(나) 다른 cmd 실행 후, mongo를 입력 후, 실행한다.

[실습 1] 아래 명령을 실행시켜보고 어떤 명령인지 간단한 설명을 작성해보자.

> show dbs

> use local

> show collections

> db.startup_log.find()

