

# windows中mongodb安装配置及说明

## windows中mongodb安装配置及说明

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## 下载

### 下载地址

进入到下载地址找到对应的版本

Cloud

Server

Tools

Select the server you would like to run:

MongoDB Community Server

FEATURE RICH. DEVELOPER READY.

MongoDB Enterprise Server

ADVANCED FEATURES. PERFORMANCE GRADE.

Version

4.0.5 (current release)

OS

Windows 64-bit x64

Package

MSI

选择对应的版本

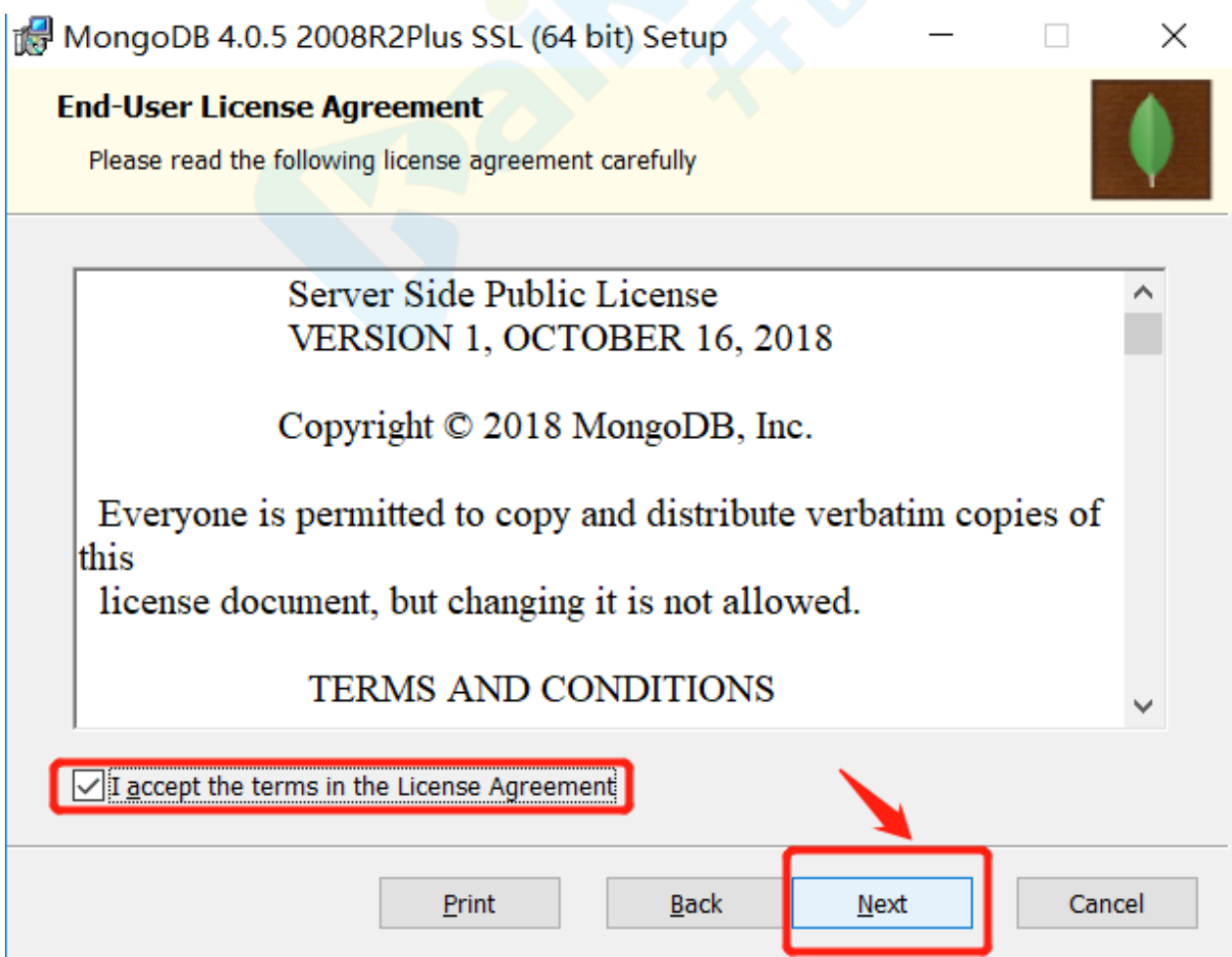
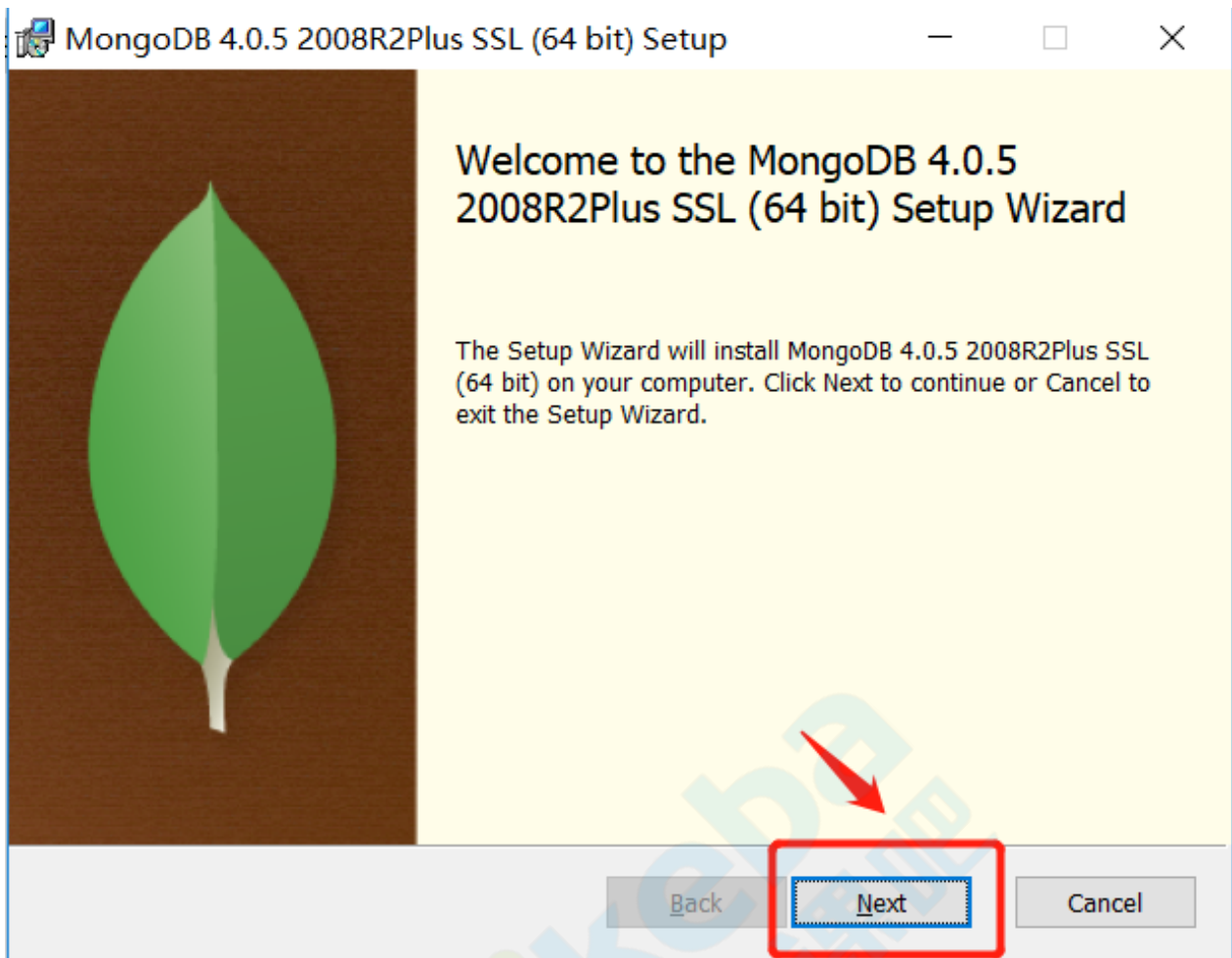
Download

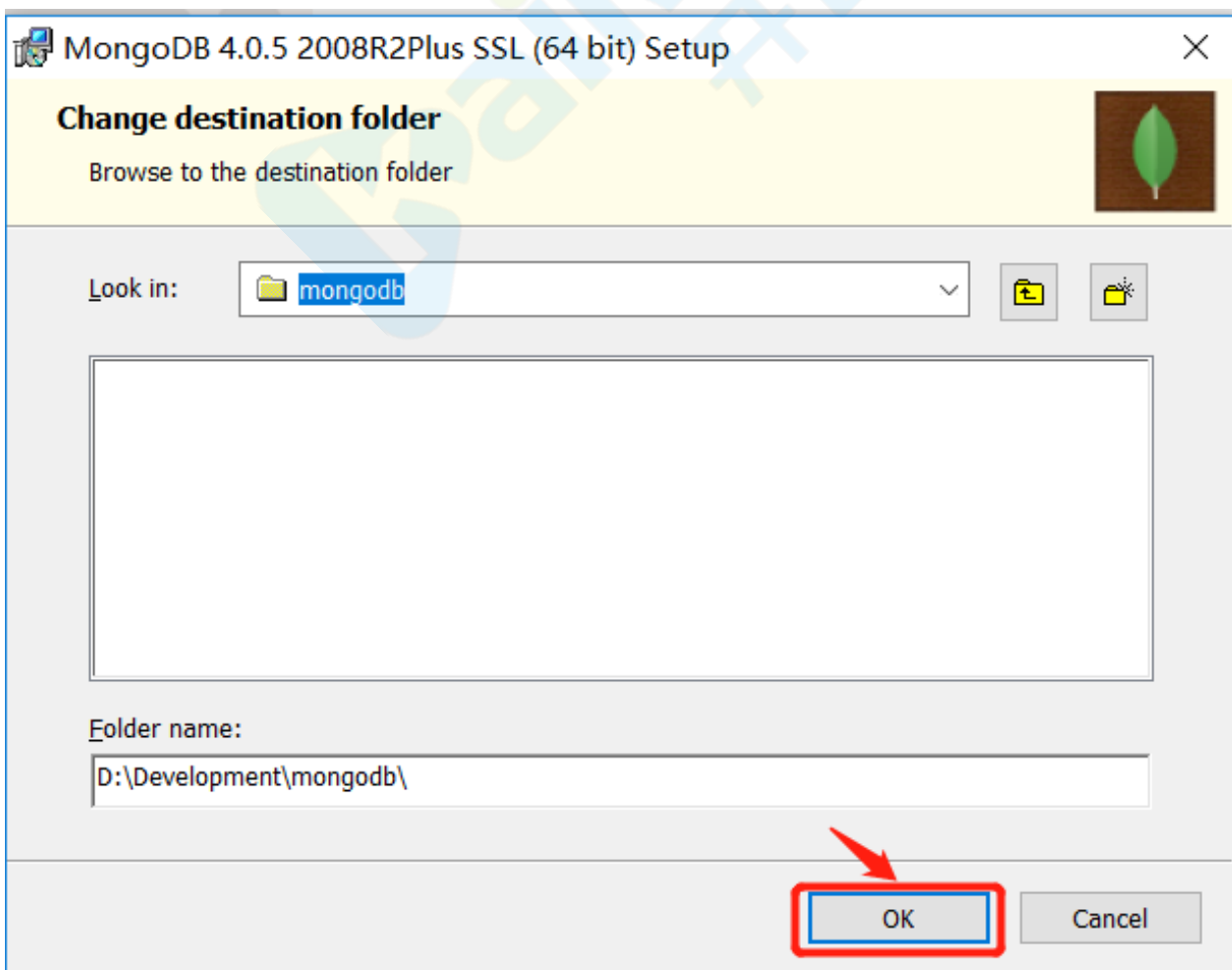
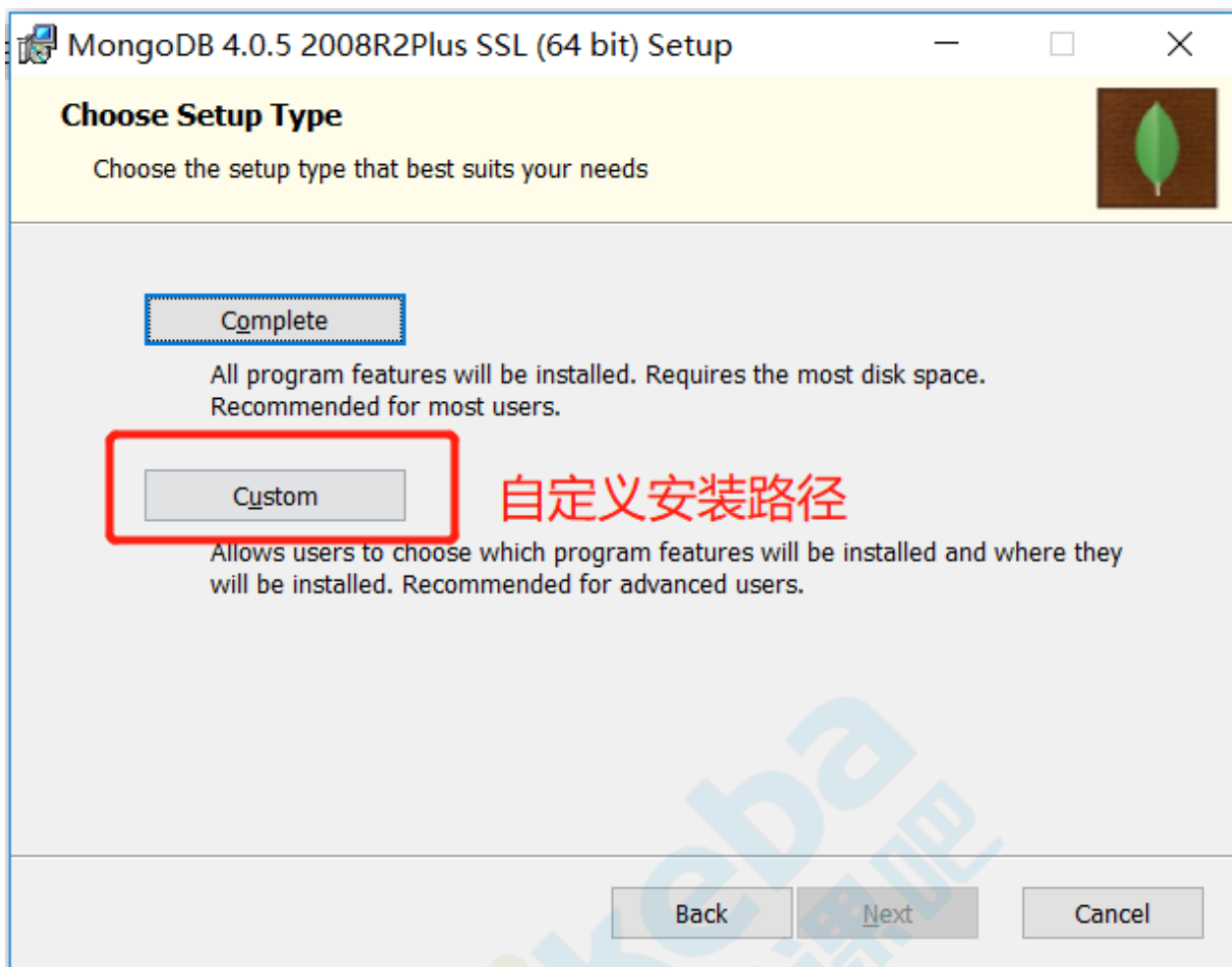
https://fastdl.mongodb.org/win32/mongodb-win32-x86\_64-2008plus-ssl-4.0.5-signed.msi

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

## 安装

打开安装文件





**Custom Setup**

Select the way you want features to be installed.

Click the icons in the tree below to change the way features will be installed.



MongoDB 4.0.5 2008R2Plus SSL (64 bit)

This feature requires 113KB on your hard drive. It has 6 of 6 subfeatures selected. The subfeatures require 697MB on your hard drive.

Location: D:\Development\mongodb\

Browse...

Reset

Disk Usage

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Next

Cancel

**Service Configuration**

Specify optional settings to configure MongoDB as a service.

☒ Install MongoD as a Service

☒ Run service as Network Service user

☐ Run service as a local or domain user:

Account Domain:

.

Account Name:

MongoDB

Account Password:

Service Name:

MongoDB

Data Directory:

D:\Development\mongodb\data\

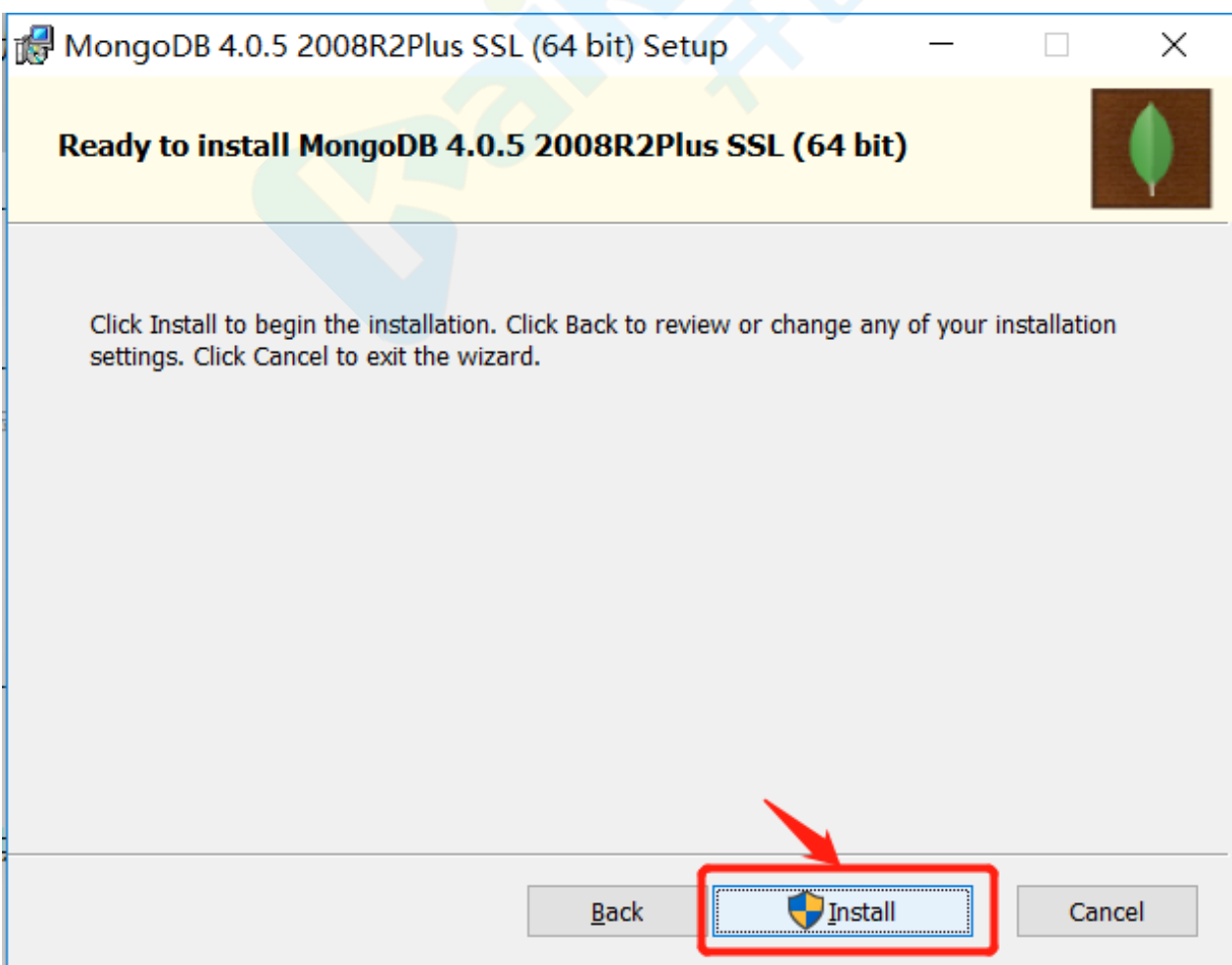
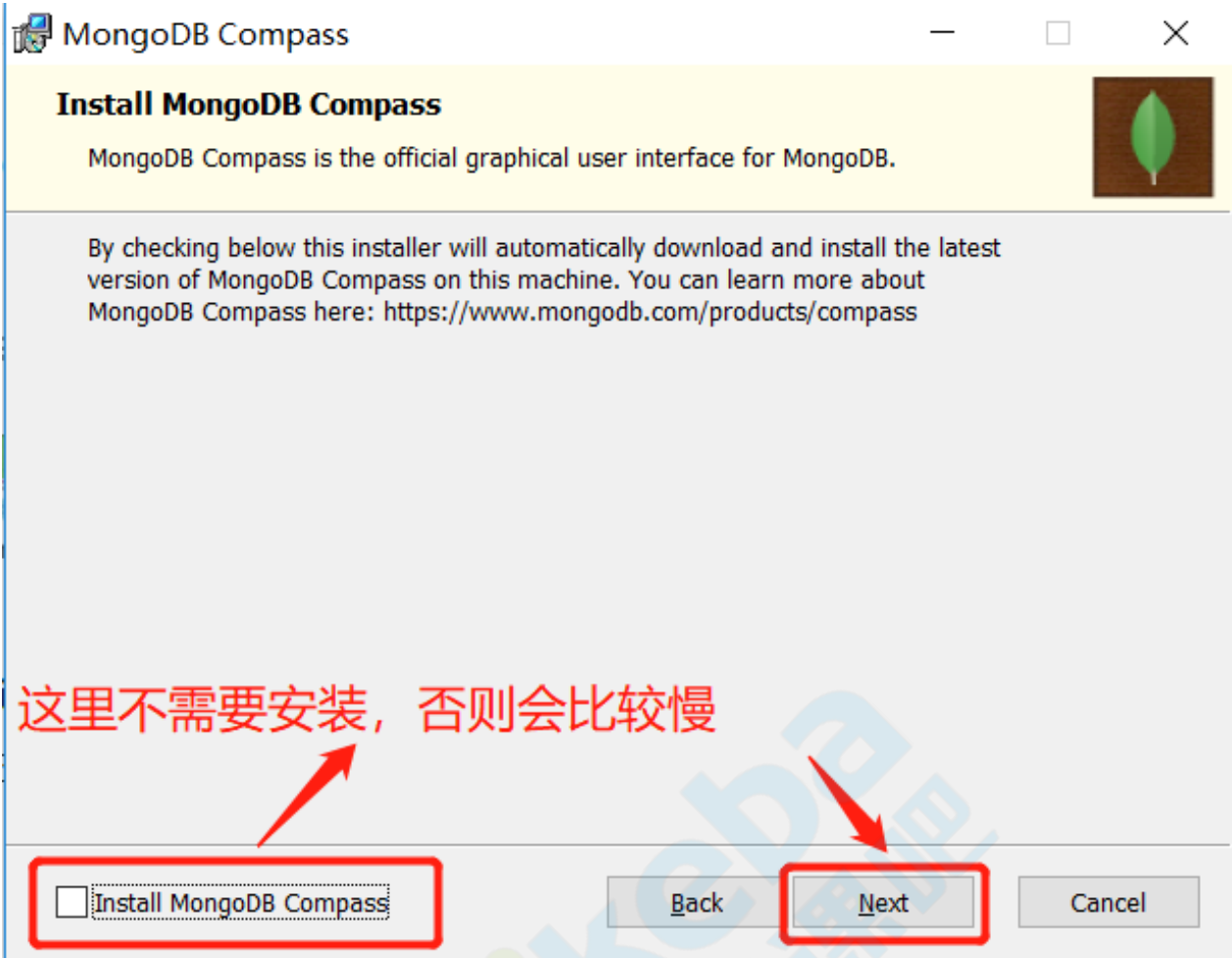
Log Directory:

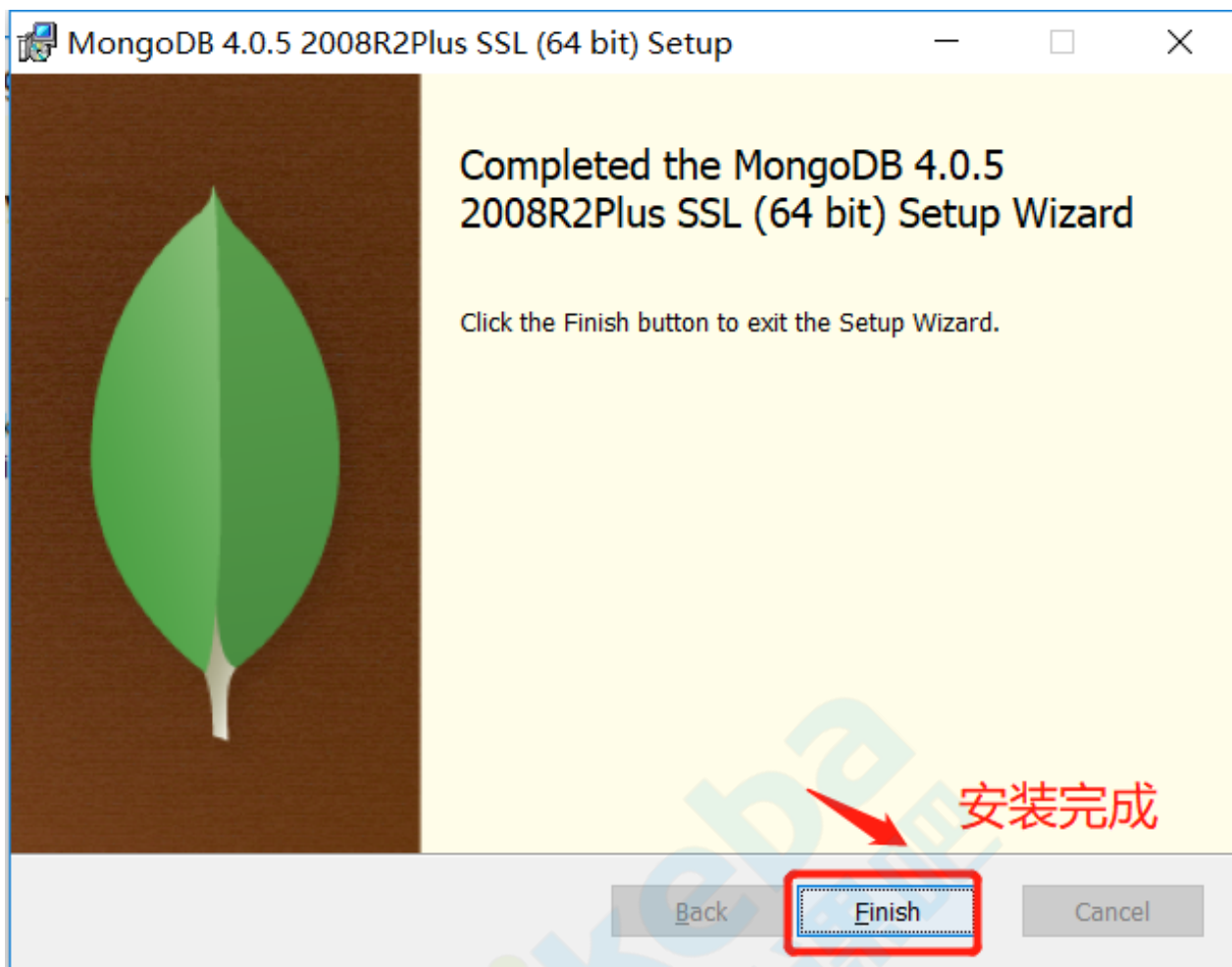
D:\Development\mongodb\log\

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Cancel





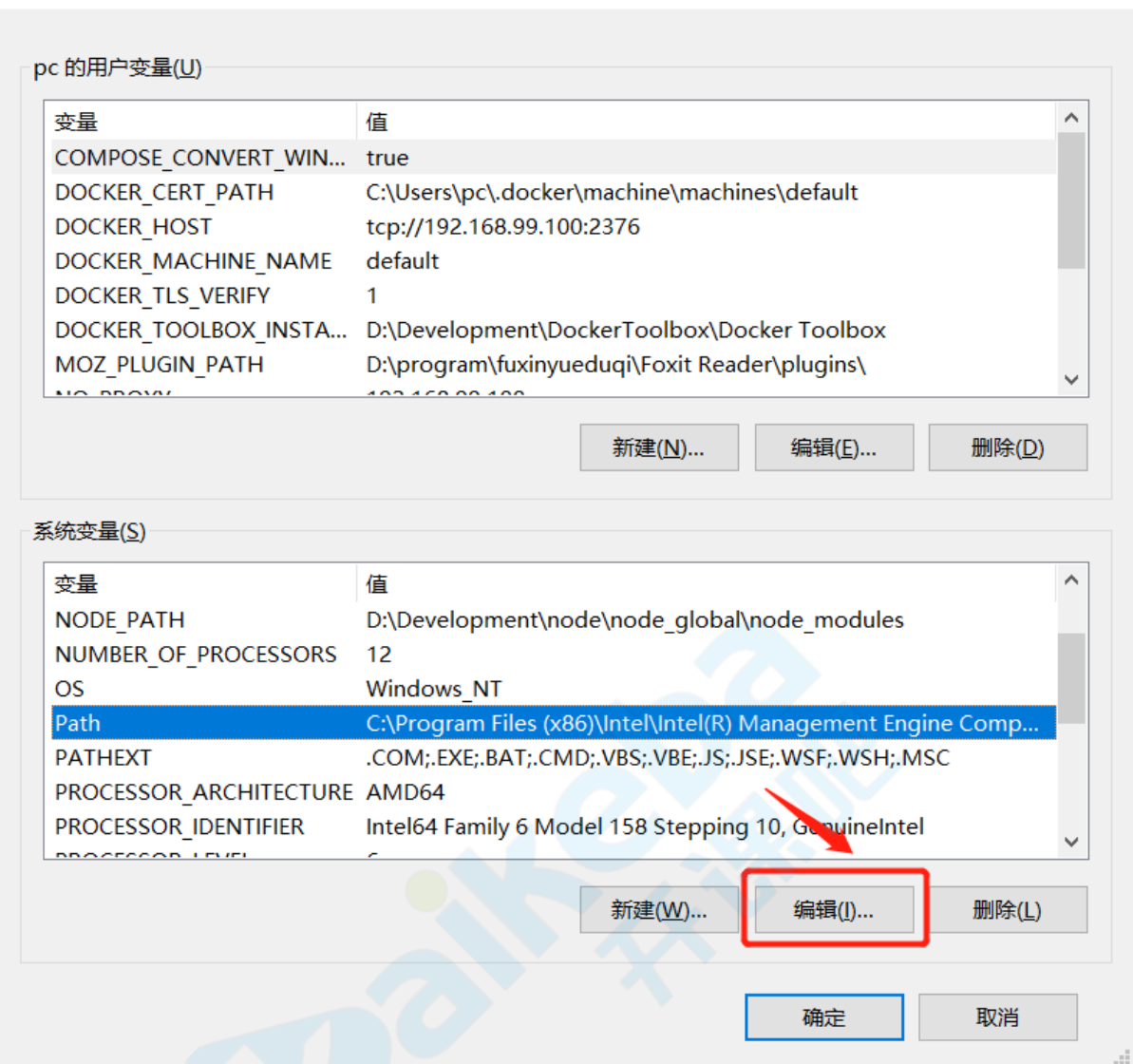
## 配置环境变量

当MongoDB安装完后，需要配置环境变量

1. 鼠标右键选择“计算机”“属性”，会弹出一个框，点击“高级系统设置”，会弹出一个系统属性，找到环境变量

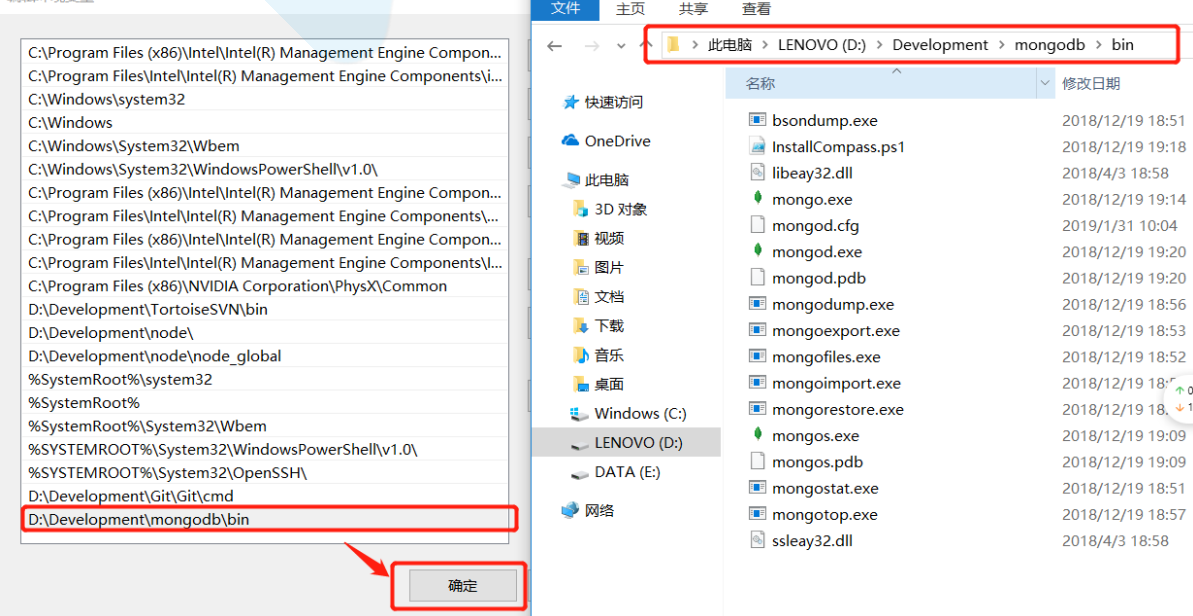


2. 在找到系统变量里面的path这个，点击编辑



3. 找到自己安装的目录，一定要进入bin这个目录里面，把这个目录拷贝到变量值里面，如果win7的话后面要加一个“;”，然后点击确定，这样环境变量就已经配置好了

编辑环境变量



## 创建数据库文件的存放位置

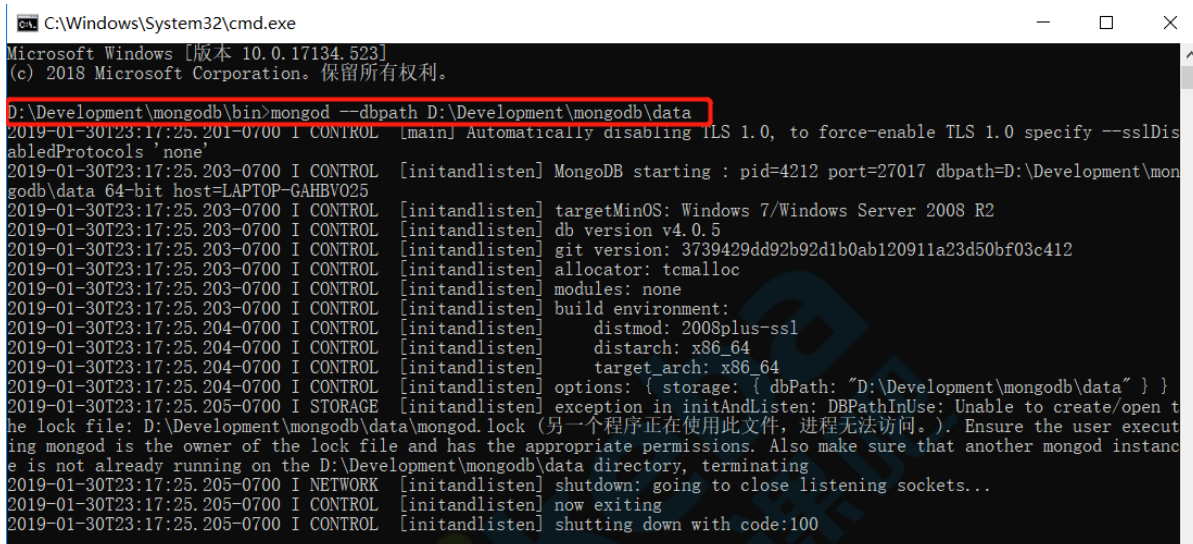


你data的目录下，创建一个db文件 G:\mongodb\data\db

因为启动mongodb服务之前需要必须创建数据库文件的存放文件夹，否则命令不会自动创建，而且不能启动成功

## 启动MongoDB服务

1. 打开cmd命令用Windows+R键打开，输入cmd
2. 进入D盘，然后cd到安装的目录，D:\Development\mongodb\bin;(或者在当前目录下打开cmd)
3. 输入如下命令启动MongoDB，mongod --dbpath D:\Development\mongodb\data, 这个是你安装的目录，然后回车



```
C:\Windows\System32\cmd.exe
Microsoft Windows [版本 10.0.17134.523]
(c) 2018 Microsoft Corporation。保留所有权利。

D:\Development\mongodb\bin>mongod --dbpath D:\Development\mongodb\data
2019-01-30T23:17:25.203-0700 I CONTROL [main] Automatically disabling TLS 1.0, to force-enable TLS 1.0 specify --sslDisabledProtocols 'none'
2019-01-30T23:17:25.203-0700 I CONTROL [initandlisten] MongoDB starting : pid=4212 port=27017 dbpath=D:\Development\mongodb\data 64-bit host=LAPTOP-GAHHV025
2019-01-30T23:17:25.203-0700 I CONTROL [initandlisten] targetMinOS: Windows 7/Windows Server 2008 R2
2019-01-30T23:17:25.203-0700 I CONTROL [initandlisten] db version v4.0.5
2019-01-30T23:17:25.203-0700 I CONTROL [initandlisten] git version: 3739429dd92b92d1b0ab120911a23d50bf03c412
2019-01-30T23:17:25.203-0700 I CONTROL [initandlisten] allocator: tcmalloc
2019-01-30T23:17:25.203-0700 I CONTROL [initandlisten] modules: none
2019-01-30T23:17:25.203-0700 I CONTROL [initandlisten] build environment:
2019-01-30T23:17:25.204-0700 I CONTROL [initandlisten] distmod: 2008plus-ssl
2019-01-30T23:17:25.204-0700 I CONTROL [initandlisten] distarch: x86_64
2019-01-30T23:17:25.204-0700 I CONTROL [initandlisten] target_arch: x86_64
2019-01-30T23:17:25.204-0700 I CONTROL [initandlisten] options: { storage: { dbPath: "D:\Development\mongodb\data" } }
2019-01-30T23:17:25.205-0700 I STORAGE [initandlisten] exception in initAndListen: DBPathInUse: Unable to create/open the lock file: D:\Development\mongodb\data\mongod.lock (另一个程序正在使用此文件，进程无法访问。). Ensure the user executing mongod is the owner of the lock file and has the appropriate permissions. Also make sure that another mongod instance is not already running on the D:\Development\mongodb\data directory, terminating
2019-01-30T23:17:25.205-0700 I NETWORK [initandlisten] shutdown: going to close listening sockets...
2019-01-30T23:17:25.205-0700 I CONTROL [initandlisten] now exiting
2019-01-30T23:17:25.205-0700 I CONTROL [initandlisten] shutting down with code:100
```

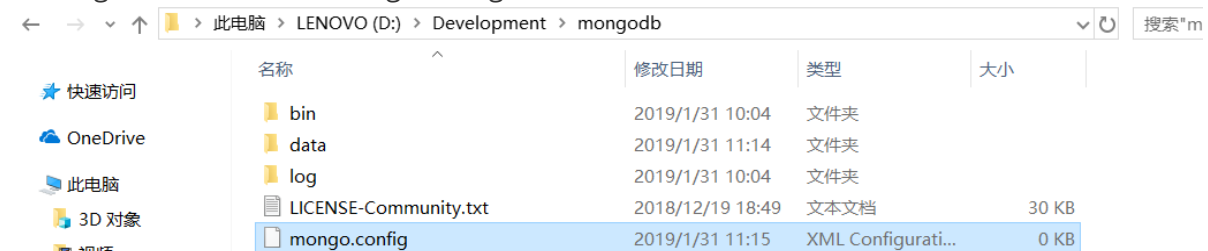
4. 在浏览器输入<http://localhost:27017> (27017是mongodb的端口号)，如果在浏览器中出现下面一段英文说明成功了



## 配置本地windows mongodb 服务

这样可设置为 开机自启动，可直接手动启动关闭，可通过命令行net start MongoDB 启动。该配置会大大方便。也不要再在进入bin的目录下启动了

1. 先在data文件下创建一个新文件夹log (用来存放日志文件)
2. 在mongodb新建配置文件mongo.config,这个是和bin目录同级的 ss



3. 用记事本打开mongo.config，并输入下面两个命令，然后保存

```
dbpath=D:\Development\mongodb\data
```

```
logpath=D:\Development\mongodb\log\mongod.log
```

4. 用管理员身份打开cmd，左上角会出现管理员三个字，然后一次进入你的bin的目录下  
D:\Development\mongodb\bin，这个一定要有管理员的身份去打开，否则执行下面命令会一直报错

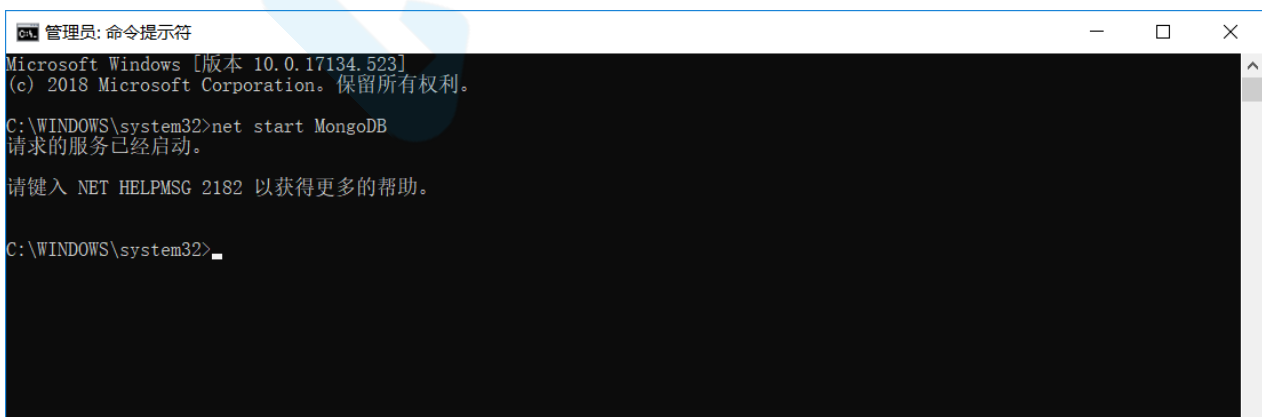


输入: `mongod -dbpath "D:\Development\mongodb\data" -logpath "D:\Development\mongodb\log\mongod.log" -install -serviceName "MongoDB"`, MongoDB就是启动的名字



如果输入命令出现错误的话，先删除服务sc delete MongoDB，再次输入上个命令就好了

5. 这样的话，mongodb服务Windows已经配置好了，我们可以不用进入bin的目录下启动MongoDB了



如果当我们通过输入net start MongoDB启动的时候报这个错误

```
管理员: C:\Windows\system32\cmd.exe
Microsoft Windows [版本 6.1.7601]
版权所有 (c) 2009 Microsoft Corporation。保留所有权利。

C:\Users\Administrator>net start MongoDB
MongoDB 服务正在启动。
MongoDB 服务无法启动。

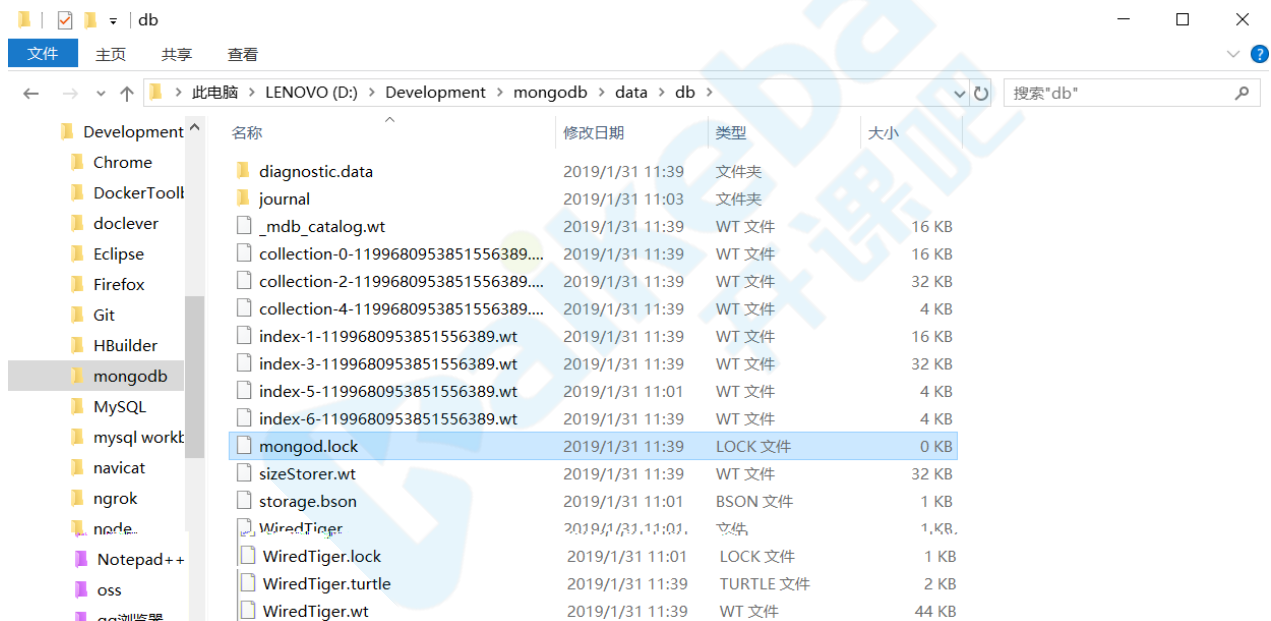
发生服务特定错误: 100。

请键入 NET HELPMSG 3547 以获得更多的帮助。

C:\Users\Administrator>
```

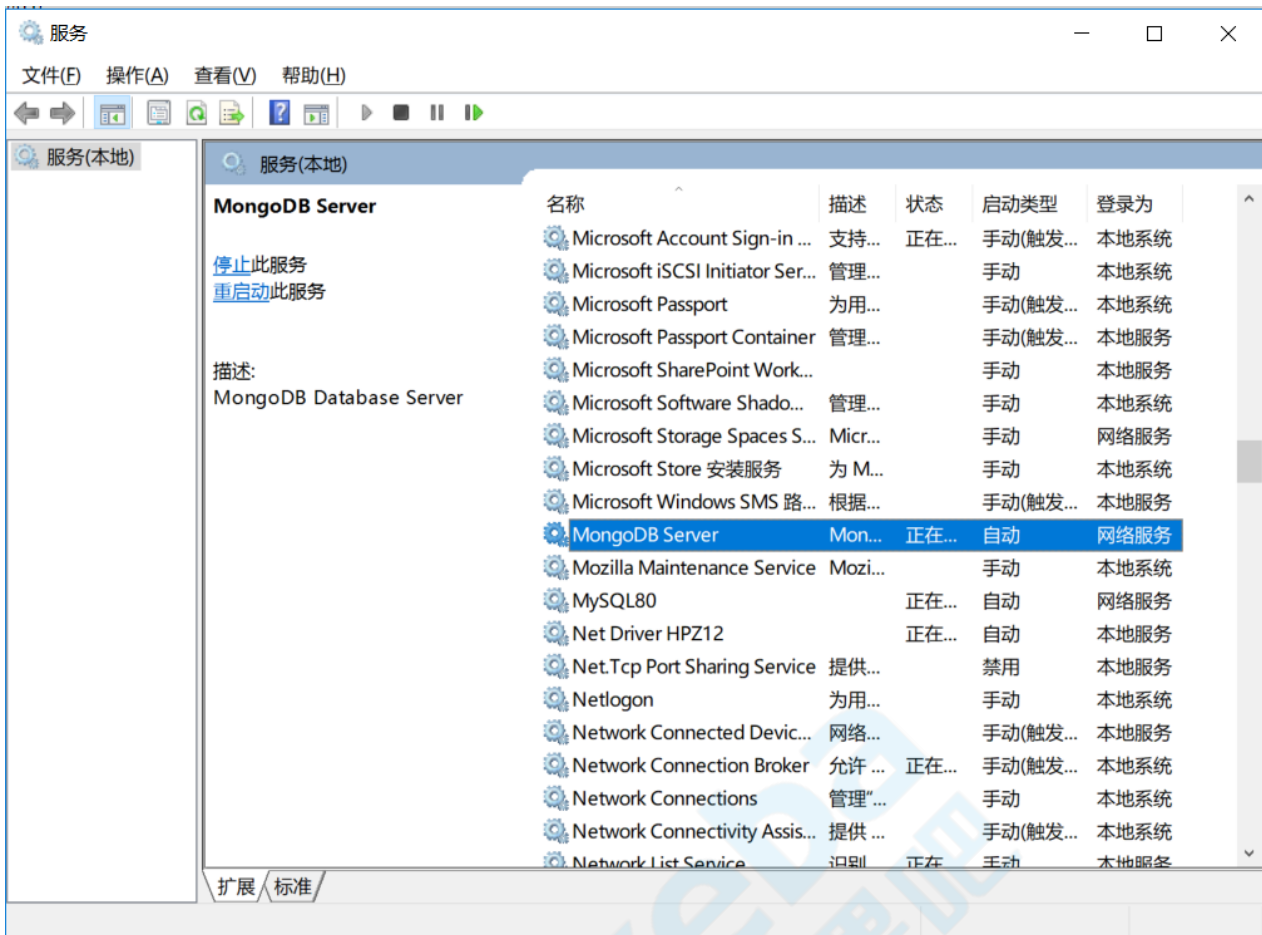
## 解决方法

在mongodb>data>db找到这个目录，删除mongod.lock这个文件，



删除这个文件之后，再次运行 net start MongoDB这个命令，服务已经能启动了，说明MongoDB已经配置好了

我们可以通过在命令窗口输入services.msc这个命令，弹出一个服务窗口，可以看到MongoDB服务启动中



## 常用命令

`net start MongoDB` 开启服务

`net stop MongoDB` 关闭服务

- 建立一个数据表

完成以上的配置我们就可以自己搭建一个数据库了，只要按照上面的步骤一步一步的来，就会成功，小编也是踩了很多的坑，总结出来的，

建立数据库的常用命令，这几个命令一定要记住

在bin的目录下，输入 `mongo` 启动，开始写入数据内容

`show dbs` 显示当前的数据，可以看到，当前没有数据内容

```
> show dbs
admin  0.000GB
config 0.000GB
local  0.000GB
>
```

`use students` 创建数据库名字，students就是数据库名字

```
> use students
switched to db students
>
```

`db` 显示当前数据库

```
> db
students
```

`show collections` 显示数据库中所有的集合

`db.<collection>.insert(doc)` 往数据库插入文档

`db.students.insert({id:"001",name:"JIM",age:"18"})`;这个就是我们插入的数据

```
> db.students.insert({id:"001",name:"JIM",age:"18"})
WriteResult({"nInserted" : 1 })
```

`db.students.find()` 通过数据这个命令，往students这个数据库查询当前集合中所有的文档，也可以条件查询

```
> db.students.find()
{ "_id" : ObjectId("5c5289bb6834add49d073102"), "id" : "001", "name" : "JIM", "age" : "18" }
-
```

## 可视化工具Robomongo安装使用

### 下载

[下载地址](#)

### 下载Studio 3T for MongoDB

无论你是新来的NoSQL或MongoDB的亲，更有效率使用Studio 3T功能，如丰富的查询自动完成，编写SQL查询的MongoDB，自动代码生成的能力，以及更多。



### 安装



Setup - Studio 3T 2018.6.1



## Welcome to the Studio 3T Setup Wizard

This will install Studio 3T on your computer. The wizard will lead you step by step through the installation.

Click Next to continue, or Cancel to exit Setup.

3T Software Labs



Cancel

**License Agreement**

Please read the following important information before continuing.



Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.

**3T Software Labs EULA**

Any use of the Software (as defined below) is subject to the terms of this licence agreement ("Agreement"). Please read the full Agreement carefully.

You confirm that you accept and agree to be legally bound by all terms

☒ I accept the agreement

☐ I do not accept the agreement

3T Software Labs

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Cancel



## Uninstall previous versions



In case you have an old (prior to 5.7.0) version of Studio 3T installed, please make sure to manually uninstall that version first.

More recent versions ( $\geq 5.7.0$ ) do not need to be uninstalled manually and you can just proceed.

3T Software Labs

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Next >

Cancel



**Select Destination Directory**

Where should Studio 3T be installed?



Select the folder where you would like Studio 3T to be installed, then click Next.

选择安装路径

D:\Development\robomongo\Studio 3T

Browse ...

Required disk space: 297 MB

Free disk space: 28 GB

3T Software Labs

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Cancel



## Completing the Studio 3T Setup Wizard


Setup has finished installing Studio 3T on your computer. The application may be launched by selecting the installed icons.

Click Finish to exit Setup.

☒ Run Studio 3T

☒ Create a desktop icon

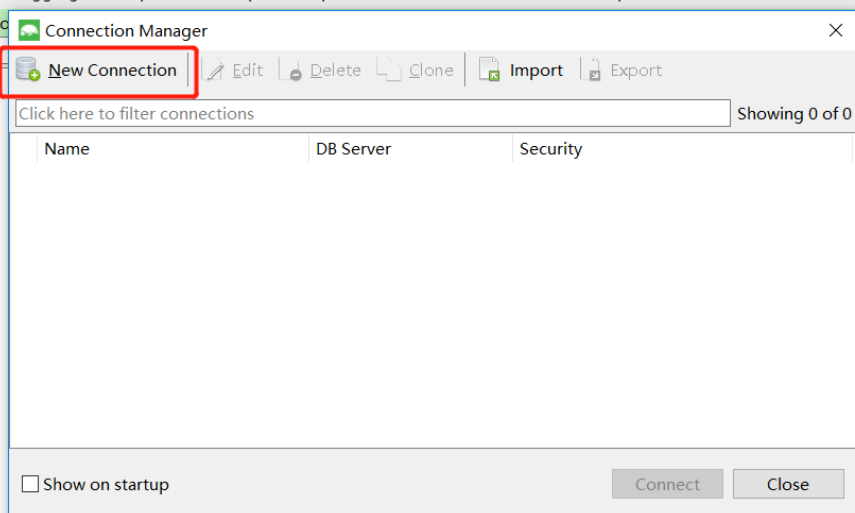
3T Software Labs



Finish

## 使用连接

1. 新建库



New Connection

Enter a name for this connection:

test

库名

ServerAuthenticationSSLSSTunnelProxyAdvanced

Connection Type: Direct Connection

Server:localhostPort:27017

Enter the MongoDB server host name or IP address and port

服务及端口号

☐ Read-Only Lock

Enable the read-only lock by default for results shown from this connection. Note this will make the results read-only within Studio 3T, it will not affect MongoDB user permissions or roles or the state of the data on the server.

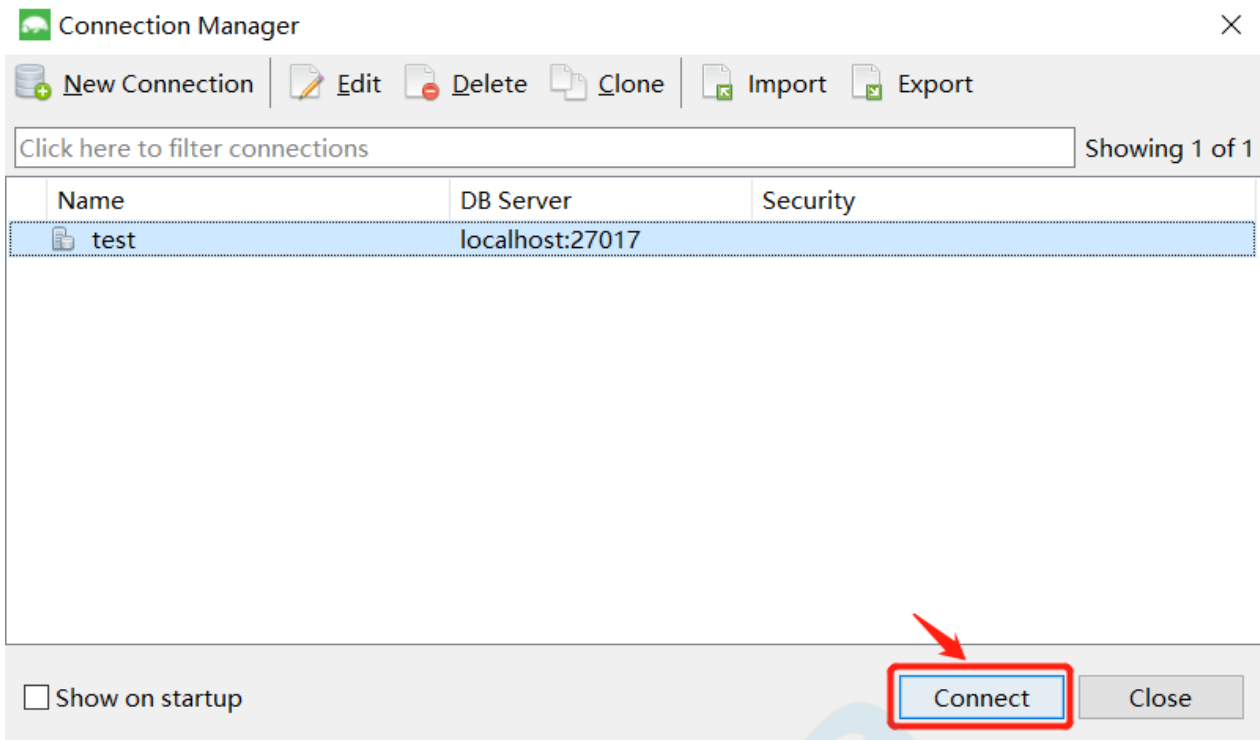
From URI...Use this option to import connection details from a URI

To URI...Use this option to export complete connection details to a URI

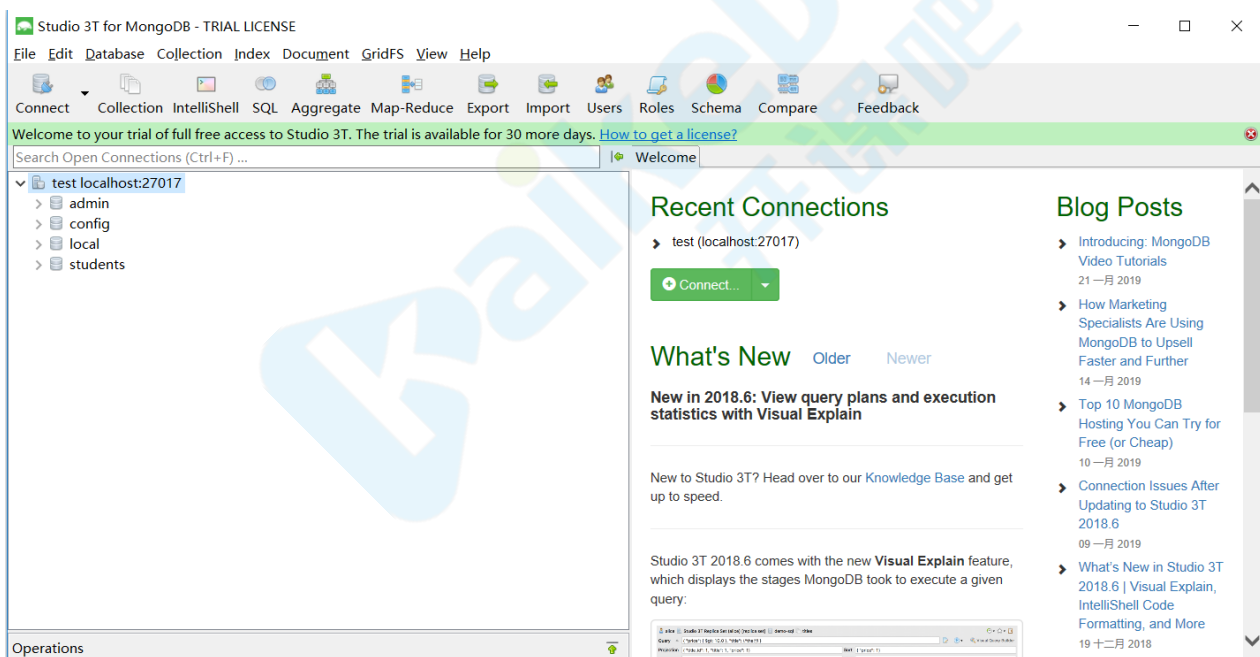
Test Connection

Save

Cancel



创建完成后即可看到新建的库



下面就可以通过可视化工具进行对应的数据操作了