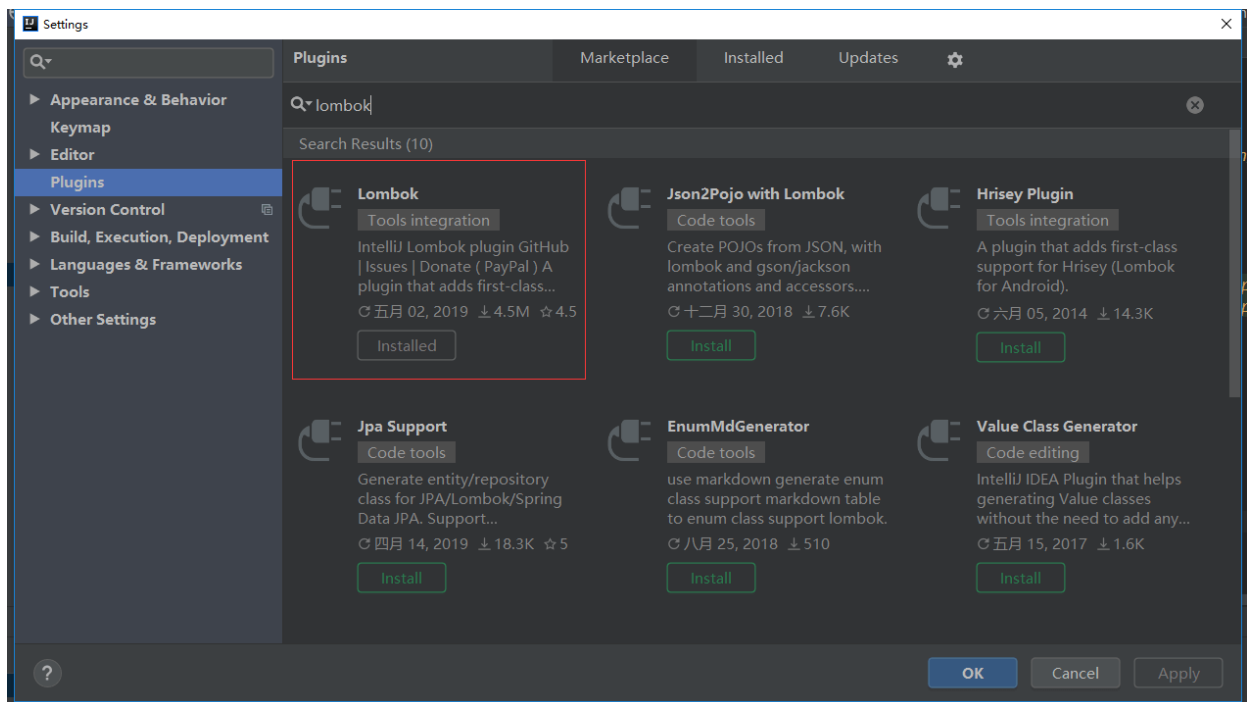


mall在Windows环境下的部署

本文主要以图文的形式讲解mall项目所需环境在windows下的安装，主要包括 IDEA、Mysql、Redis、Mongodb、RabbitMQ、Elasticsearch、Logstash、Kibana、OSS。

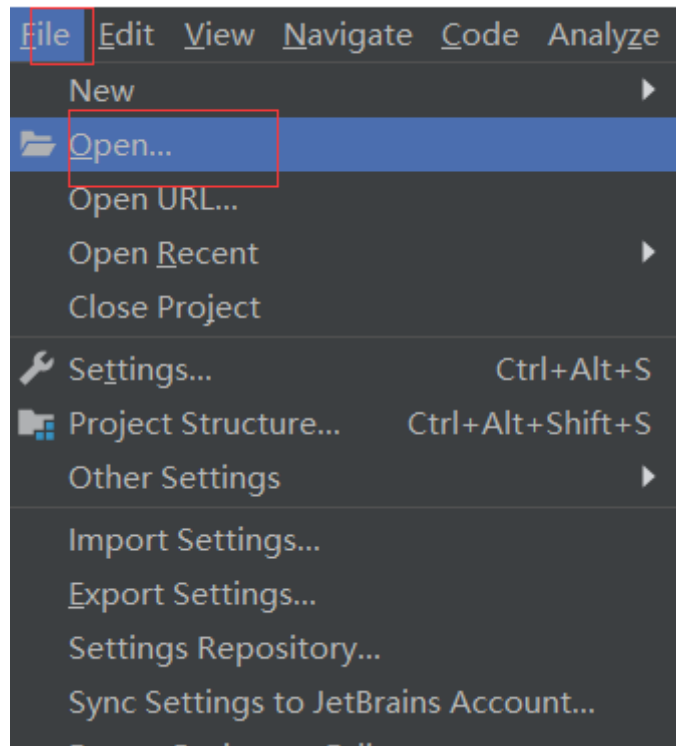
IDEA

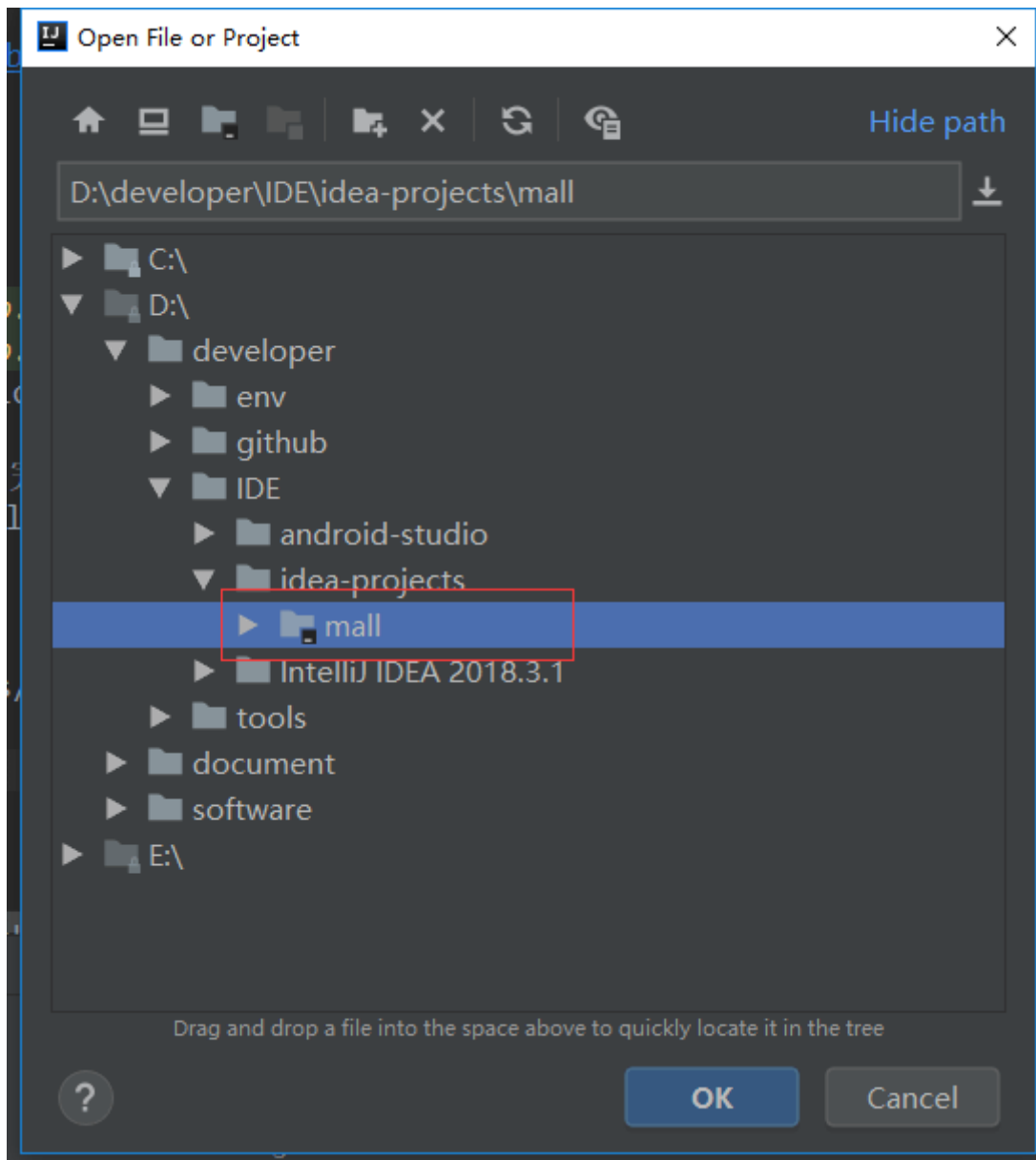
- 关于IDEA的安装与使用请参考：<https://github.com/judasn/IntelliJ-IDEA-Tutorial>
- 搜索插件仓库，安装插件Lombok；



- 将项目下载到本地，然后直接打开。

U mall [D:\developer\github\mall] - ...\document\referen





Mysql

- 下载并安装mysql5.7版本，下载地址：
<https://dev.mysql.com/downloads/installer/>
- 设置数据库帐号密码：root root
- 下载并安装客户端连接工具Navicat, 下载地址：
<http://www.formysql.com/xiazai.html>
- 创建数据库mall
- 导入document/sql下的mall.sql文件

Redis

- 下载Redis, 下载地址：<https://github.com/MicrosoftArchive/redis/releases>

Pre-release

win-3.2.100

def0757

3.2.100

enricogior released this on 1 Jul 2016 · 1208 commits to 3.0 since this release





This is the first release of Redis on Windows 3.2.

This release is based on antirez/redis/3.2.1 plus some Windows specific fixes. It has passed all the standard tests but it hasn't been tested in a production environment.

Therefore, before considering using this release in production, make sure to test it thoroughly in your own test environment.

See the [release notes](#) for details.

Assets 4

 Redis-x64-3.2.100.msi	5.8 MB
 Redis-x64-3.2.100.zip	4.98 MB
 Source code (zip)	
 Source code (tar.gz)	

- 下载完后解压到指定目录;

管理

robo3t-1.3.1

查看

应用程序工具

磁盘 (I:) > developer > env > robo3t-1.3.1

搜索

名称	修改日期	类型	大小
imageformats	2019/3/22 15:56	文件夹	
include	2019/3/22 15:56	文件夹	
lib	2019/3/22 15:56	文件夹	
platforms	2019/3/22 15:56	文件夹	
CHANGELOG	2019/3/18 20:46	文件	28 KB
COPYRIGHT	2018/11/8 18:59	文件	1 KB
DESCRIPTION	2018/11/8 18:59	文件	1 KB
libeay32.dll	2018/11/15 5:17	应用程序扩展	2,053 KB
LICENSE	2018/11/8 18:59	文件	35 KB
msvcp140.dll	2016/6/10 3:53	应用程序扩展	619 KB
qt.conf	2019/3/22 15:24	CONF 文件	1 KB
Qt5Core.dll	2017/12/5 15:29	应用程序扩展	5,647 KB
Qt5Gui.dll	2017/11/16 1:52	应用程序扩展	5,909 KB
Qt5Network.dll	2017/11/16 1:52	应用程序扩展	1,190 KB
Qt5PrintSupport.dll	2017/11/16 1:58	应用程序扩展	313 KB
Qt5Widgets.dll	2017/11/16 1:57	应用程序扩展	5,401 KB
Qt5Xml.dll	2017/11/16 1:47	应用程序扩展	190 KB
robo3t.exe	2019/3/22 15:31	应用程序	20,366 KB
robo3t.exe - 快捷方式	2020/3/20 11:22	快捷方式	2 KB
ssleay32.dll	2018/11/15 5:17	应用程序扩展	349 KB
vcruntime140.dll	2016/6/10 3:53	应用程序扩展	86 KB

- 在当前地址栏输入cmd后，执行redis的启动命令：`redis-server.exe`

`redis.windows.conf`

C:\Windows\System32\cmd.exe

```
Microsoft Windows [版本 10.0.17134.706]
(c) 2018 Microsoft Corporation。保留所有权利。

D:\developer\env\Redis-x64-3.2.100>redis-server.exe redis.windows.conf
```

Elasticsearch

- 下载Elasticsearch7.6.2的zip包，并解压到指定目录，下载地址：

<https://www.elastic.co/cn/downloads/past-releases/elasticsearch-7-6-2>

elasticsearch-7.6.2

共享 查看

本地磁盘 (D:) > developer > env > elasticsearch-7.6.2				
名称	修改日期	类型	大小	
bin	2020/3/26 6:41	文件夹		
config	2020/3/26 6:41	文件夹		
jdk	2020/3/26 6:41	文件夹		
lib	2020/3/26 6:41	文件夹		
logs	2020/3/26 6:36	文件夹		
modules	2020/3/26 6:41	文件夹		
plugins	2020/3/26 6:36	文件夹		
LICENSE.txt	2020/3/26 6:28	文本文档	14 KB	
NOTICE.txt	2020/3/26 6:36	文本文档	511 KB	
README.asciidoc	2020/3/26 6:28	ASCIIDOC 文件	8 KB	

- 安装中文分词插件，在elasticsearch-7.6.2\bin目录下执行以下命令：

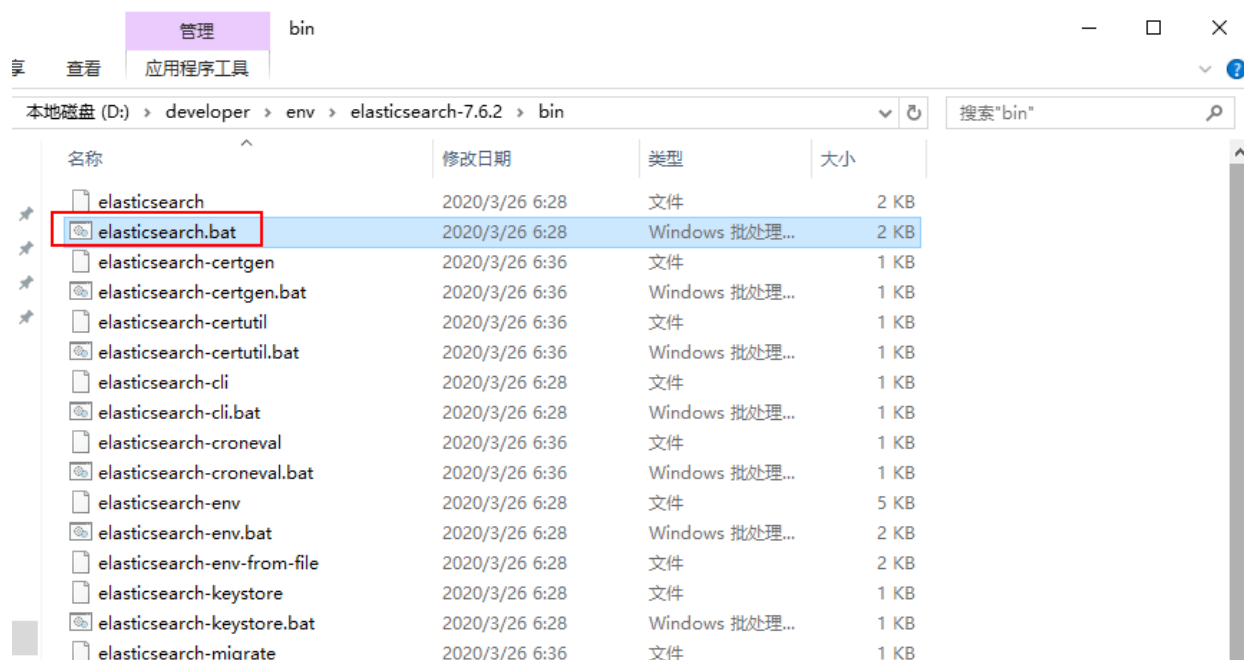
elasticsearch-plugin install https://github.com/medcl/elasticsearch-analysis-

ik/releases/download/v7.6.2/elasticsearch-analysis-ik-7.6.2.zip

```
Microsoft Windows [版本 10.0.18362.836]
(c) 2019 Microsoft Corporation。保留所有权利。

D:\developer\env\elasticsearch-7.6.2\bin>elasticsearch-plugin install https://github.com/medcl/elasticsearch-analysis-ik/releases/download/v7.6.2/elasticsearch-analysis-ik-7.6.2.zip
```

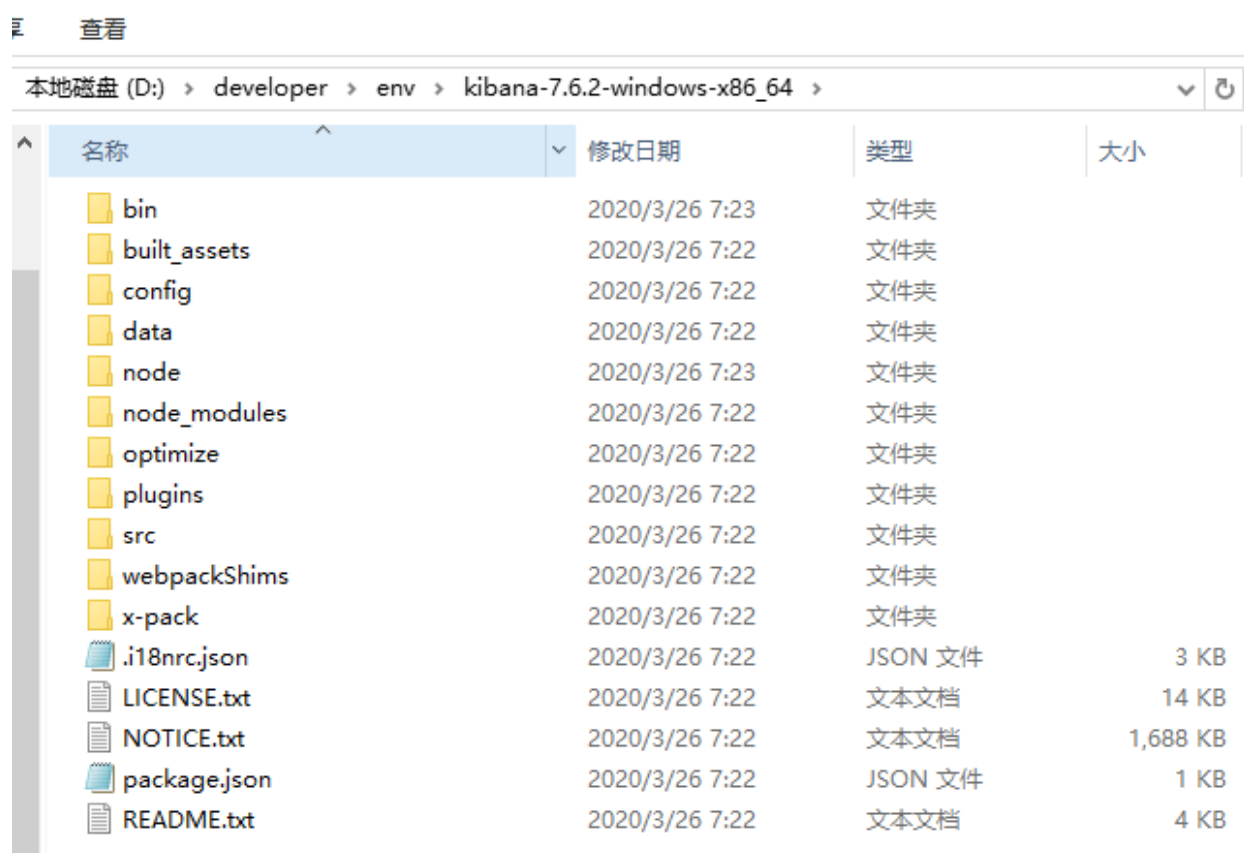
- 运行bin目录下的`elasticsearch.bat`启动Elasticsearch服务。



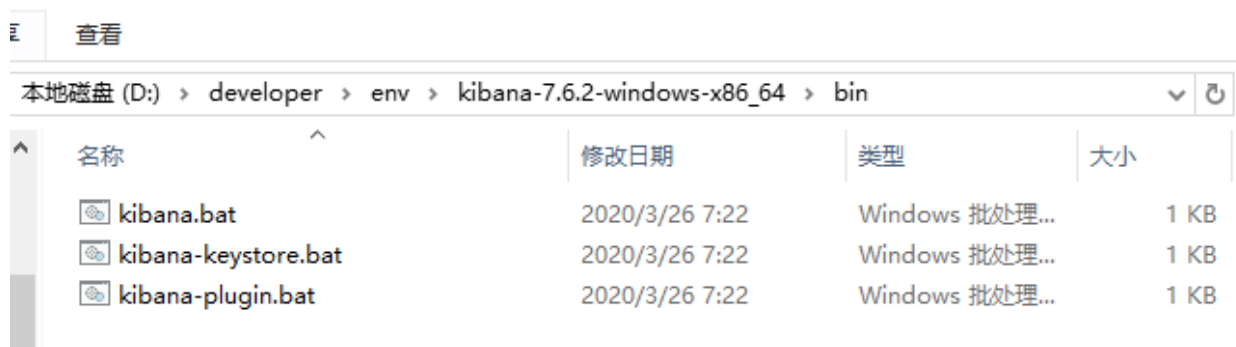
Kibana

- 下载Kibana，作为访问Elasticsearch的客户端，请下载7.6.2版本的zip包，并解压到指定目录，下载地址：<https://www.elastic.co/cn/downloads/past-releases/kibana-7-6-2>

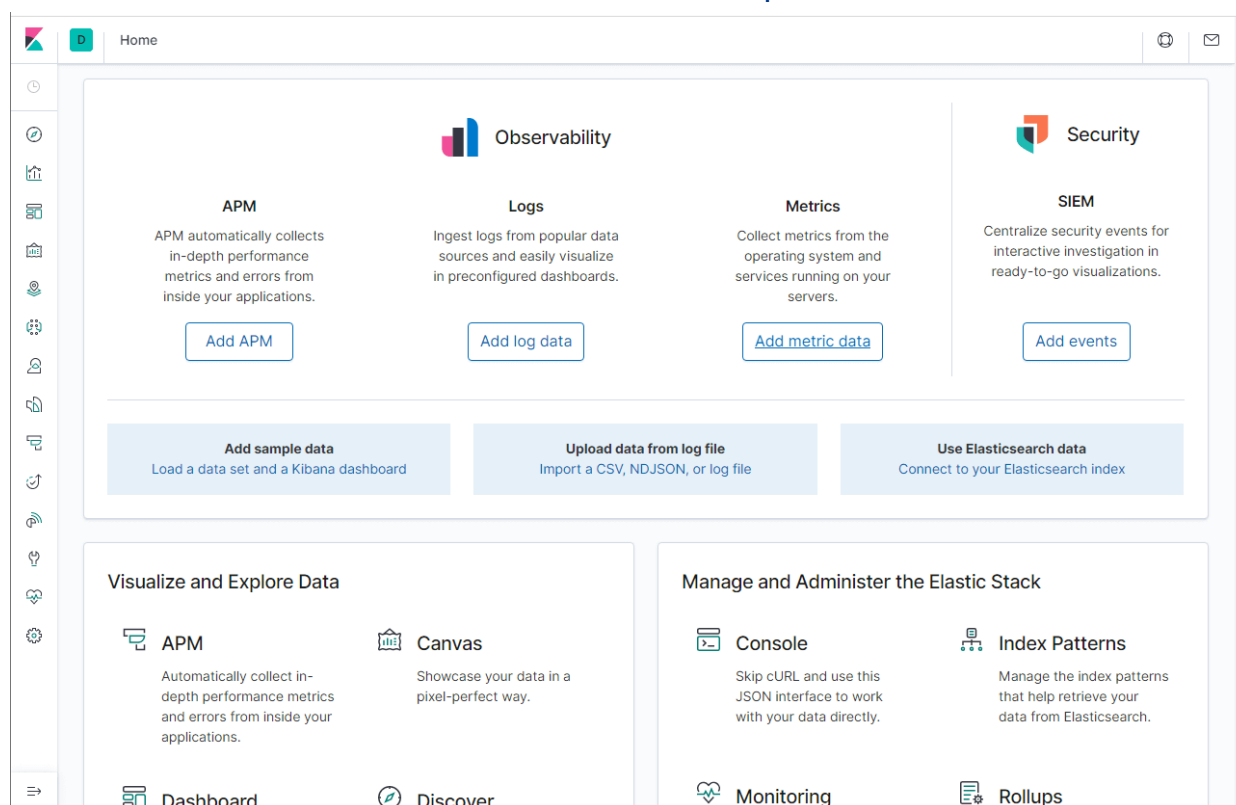
a-7.6.2-windows-x86_64



- 运行bin目录下的kibana.bat，启动Kibana服务；



- 打开Kibana的用户界面，访问地址：<http://localhost:5601>



Logstash

- 下载Logstash，用于收集日志，请下载7.6.2版本的zip包，并解压到指定目录，下载地址：<https://www.elastic.co/cn/downloads/past-releases/logstash-7-6-2>

本地磁盘 (D:) > developer > env > logstash-7.6.2					▼	🔄
名称	修改日期	类型	大小			
bin	2020/8/4 16:15	文件夹				
config	2020/8/4 16:15	文件夹				
data	2020/3/26 8:56	文件夹				
lib	2020/8/4 16:15	文件夹				
logstash-core	2020/8/4 16:15	文件夹				
logstash-core-plugin-api	2020/8/4 16:15	文件夹				
modules	2020/8/4 16:15	文件夹				
tools	2020/8/4 16:15	文件夹				
vendor	2020/8/4 16:17	文件夹				
x-pack	2020/8/4 16:17	文件夹				
CONTRIBUTORS	2020/3/26 8:56	文件	3 KB			
Gemfile	2020/3/26 8:56	文件	4 KB			
Gemfile.lock	2020/3/26 8:56	LOCK 文件	23 KB			
LICENSE.txt	2020/3/26 8:56	文本文档	14 KB			
NOTICE.TXT	2020/3/26 8:56	文本文档	470 KB			

- 将Logstash的配置文件logstash.conf拷贝到安装目录的bin目录下，配置文件地址：

<https://github.com/macrozheng/mall/blob/master/document/elk/logstash.conf>

本地磁盘 (D:) > developer > env > logstash-7.6.2 > bin					▼	🔄
名称	修改日期	类型	大小			
benchmark.sh	2020/3/26 8:56	Shell Script	1 KB			
cpdump	2020/3/26 8:56	文件	1 KB			
dependencies-report	2020/3/26 8:56	文件	2 KB			
ingest-convert.sh	2020/3/26 8:56	Shell Script	1 KB			
logstash	2020/3/26 8:56	文件	3 KB			
logstash.bat	2020/3/26 8:56	Windows 批处理...	3 KB			
logstash.conf	2020/7/29 8:57	CONF 文件	1 KB			
logstash.lib.sh	2020/3/26 8:56	Shell Script	5 KB			
logstash-keystore	2020/3/26 8:56	文件	1 KB			
logstash-keystore.bat	2020/3/26 8:56	Windows 批处理...	1 KB			
logstash-plugin	2020/3/26 8:56	文件	1 KB			
logstash-plugin.bat	2020/3/26 8:56	Windows 批处理...	1 KB			
pqcheck	2020/3/26 8:56	文件	2 KB			
pqrepair	2020/3/26 8:56	文件	2 KB			
ruby	2020/3/26 8:56	文件	1 KB			
setup.bat	2020/3/26 8:56	Windows 批处理...	2 KB			
system-install	2020/3/26 8:56	文件	4 KB			

- Logstash需要安装json_lines插件。

```
logstash-plugin install logstash-codec-json_lines
```

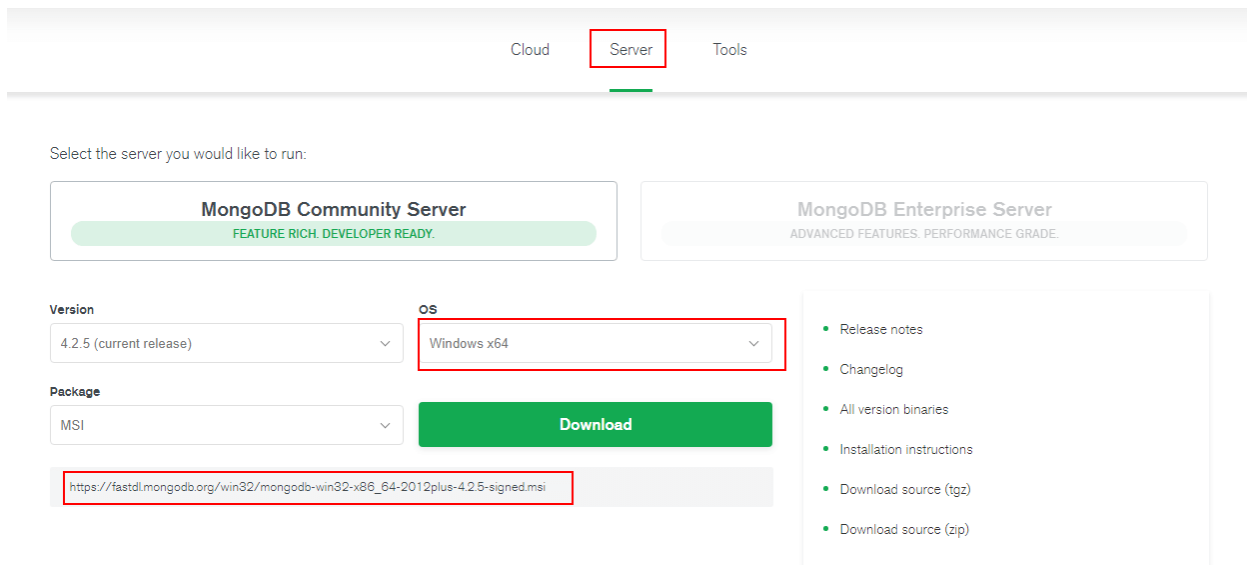
- 运行bin目录下的logstash.bat，启动Logstash服务，启动命令如下：

```
logstash -f logstash.conf
```

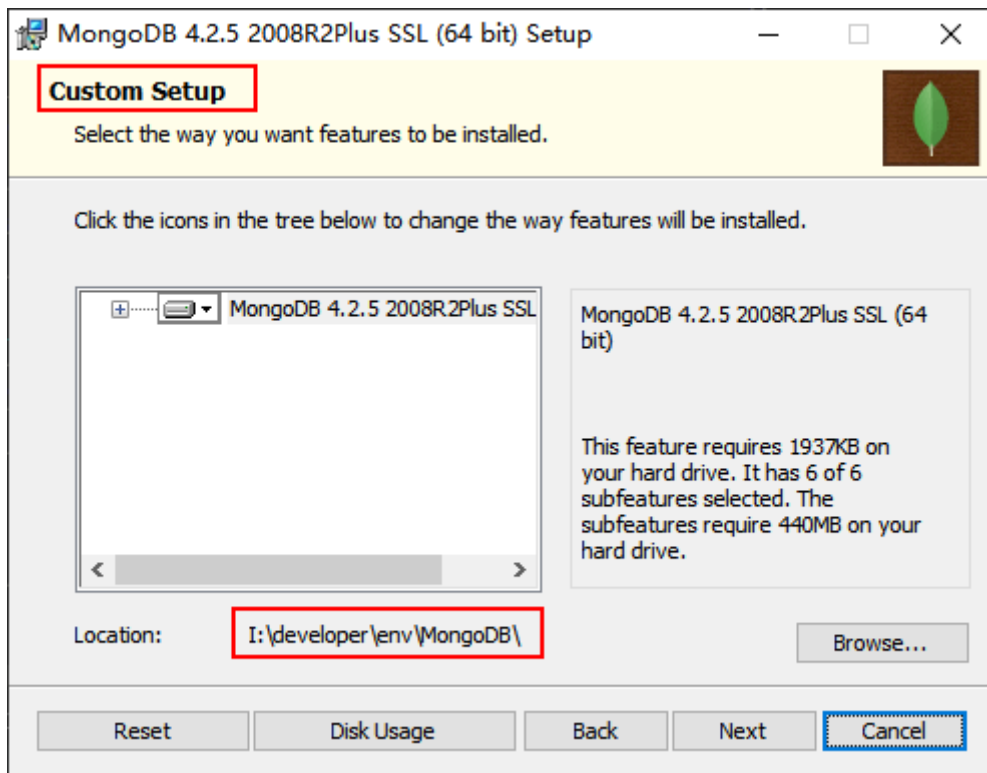
Mongodb

- 下载MongoDB安装包，选择Windows x64版本安装，下载地址：

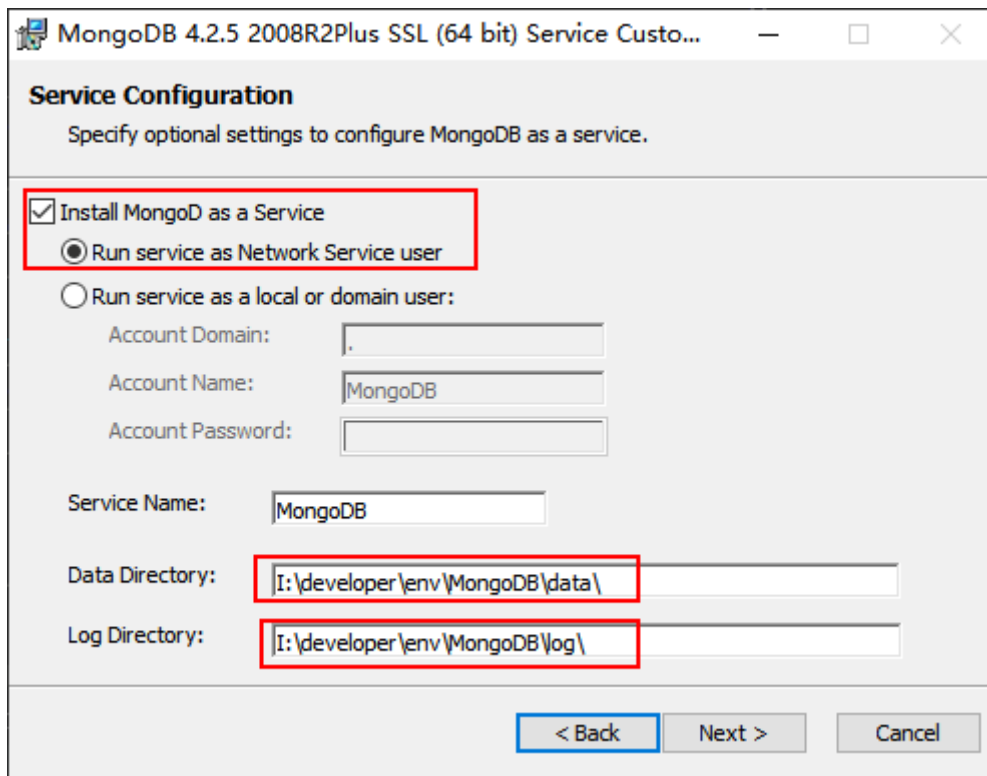
<https://www.mongodb.com/download-center/community>



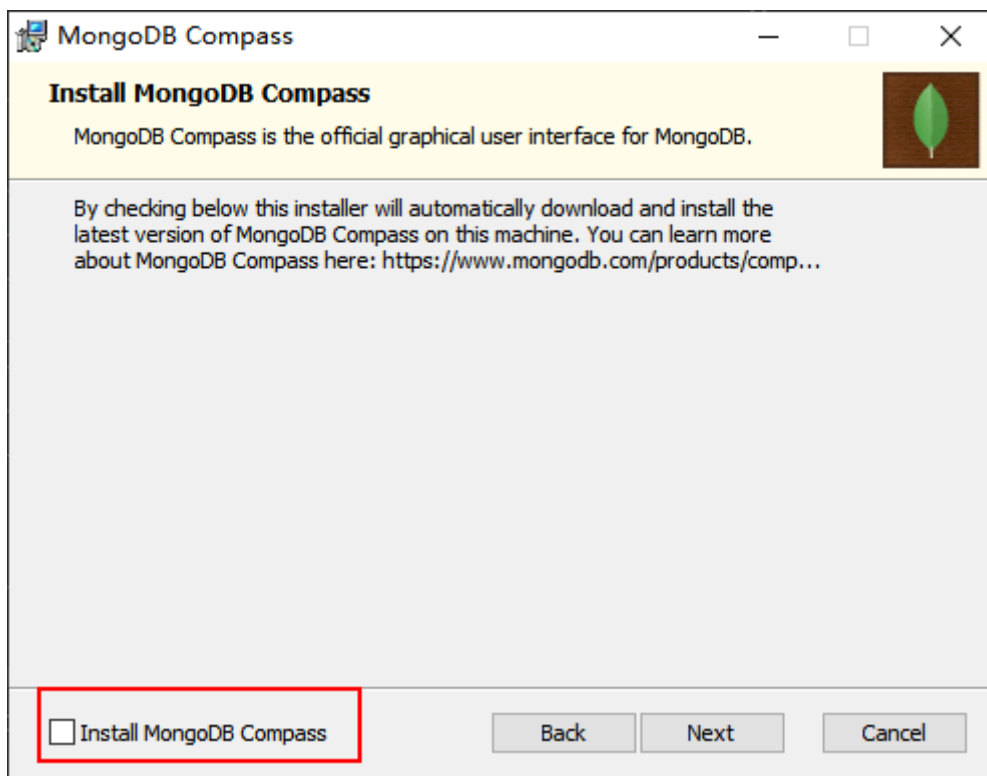
- 运行MongoDB安装包并选择自定义安装，设置好安装路径；



- 配置MongoDB，让MongoDB作为服务运行，并配置好数据目录和日志目录；



- 取消MongoDB Compass的安装选项（不取消安装极慢），需要可自行安装；



- 双击mongo.exe可以运行MongoDB自带客户端，操作MongoDB；

管理	bin
查看	应用程序工具

地磁盘 (I:) > developer > env > MongoDB > bin

搜索"bin"

名称	修改日期	类型	大小
bsondump.exe	2020/3/24 4:54	应用程序	14,827 KB
InstallCompass.ps1	2020/3/24 5:22	Windows Power...	2 KB
mongo.exe	2020/3/24 5:10	应用程序	20,952 KB
mongod.cfg	2020/4/16 14:59	CFG 文件	1 KB
mongod.exe	2020/3/24 5:26	应用程序	35,263 KB
mongod.pdb	2020/3/24 5:26	PDB 文件	461,988 KB
mongodump.exe	2020/3/24 4:54	应用程序	22,801 KB
mongoexport.exe	2020/3/24 4:54	应用程序	22,436 KB
mongofiles.exe	2020/3/24 4:54	应用程序	22,370 KB
mongoimport.exe	2020/3/24 4:54	应用程序	22,688 KB
mongorestore.exe	2020/3/24 4:54	应用程序	23,286 KB
mongos.exe	2020/3/24 5:24	应用程序	18,053 KB
mongos.pdb	2020/3/24 5:24	PDB 文件	240,188 KB
mongostat.exe	2020/3/24 4:54	应用程序	21,991 KB
mongotop.exe	2020/3/24 4:54	应用程序	21,561 KB

- 连接成功后会显示如下信息；

```

I:\developer\env\MongoDB\bin\mongo.exe
MongoDB shell version v4.2.5
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("6498cffc-351b-4fef-b286-81c3179c2bf4") }
MongoDB server version: 4.2.5
Server has startup warnings:
2020-04-16T14:59:55.161+0800 I CONTROL [initandlisten]
2020-04-16T14:59:55.161+0800 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for the database.
2020-04-16T14:59:55.161+0800 I CONTROL [initandlisten] **      Read and write access to data and configuration is
unrestricted.
2020-04-16T14:59:55.161+0800 I 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.

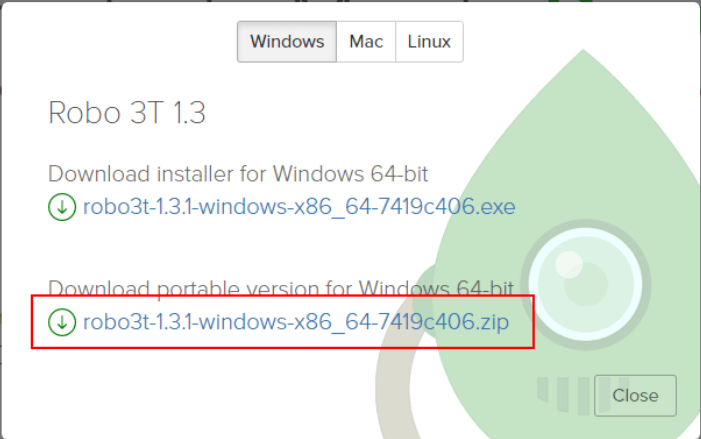
To enable free monitoring, run the following command: db.enableFreeMonitoring()
To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
>

```

- 如果需要移除MongoDB服务，只需使用管理员权限运行cmd工具，并输入如下命令。

sc.exe delete MongoDB

- 下载客户端工具Robo 3T，下载地址：<https://robomongo.org/download>



The image shows a screenshot of the Robo 3T website with a download modal window open. The modal has tabs for 'Windows', 'Mac', and 'Linux'. Under the 'Windows' tab, it displays 'Robo 3T 1.3' and two download options: 'Download installer for Windows 64-bit' with a link to 'robo3t-1.3.1-windows-x86_64-7419c406.exe' and 'Download portable version for Windows 64-bit' with a link to 'robo3t-1.3.1-windows-x86_64-7419c406.zip'. The second link is highlighted with a red rectangle. A 'Close' button is at the bottom right of the modal. The background shows the website header with 'Robo 3T', 'Download', 'Blog', and 'Account' links, and a main section titled 'Simple, Powerful, Modern' with a description of Studio 3T as a professional GUI and IDE for MongoDB.

Robo 3T

Download Blog Account

Simple, Powerful, Modern

Two... ver.

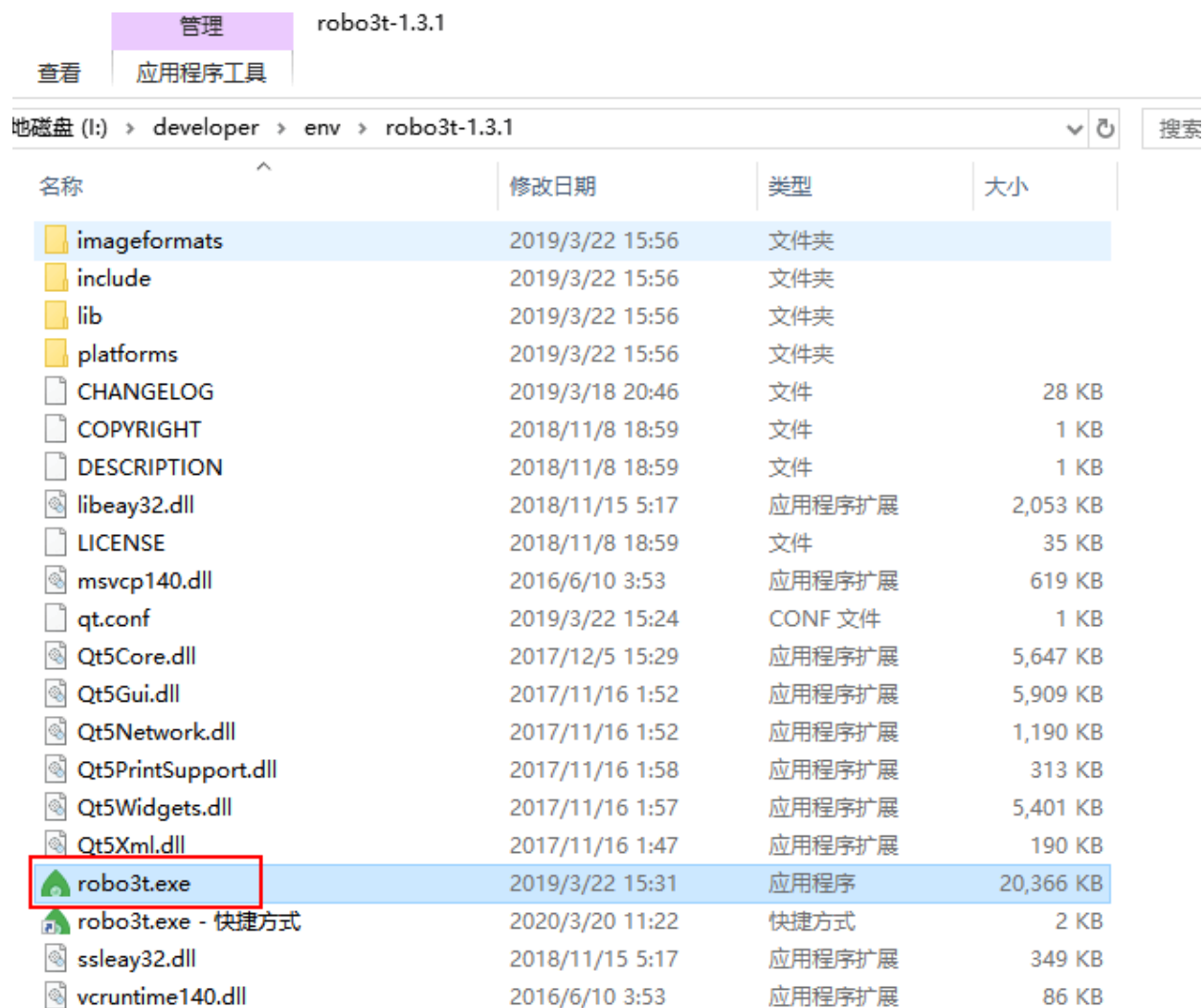
The most powerful op...
Meet Studio brother.

Studio 3T is the professional GUI and IDE for MongoDB available for Windows, Mac, and Linux. Explore and manage your data faster with features like query building, data exploration, aggregation and data comparison, import/export, code generation, and more – with or without the knowledge of the MongoDB query language.

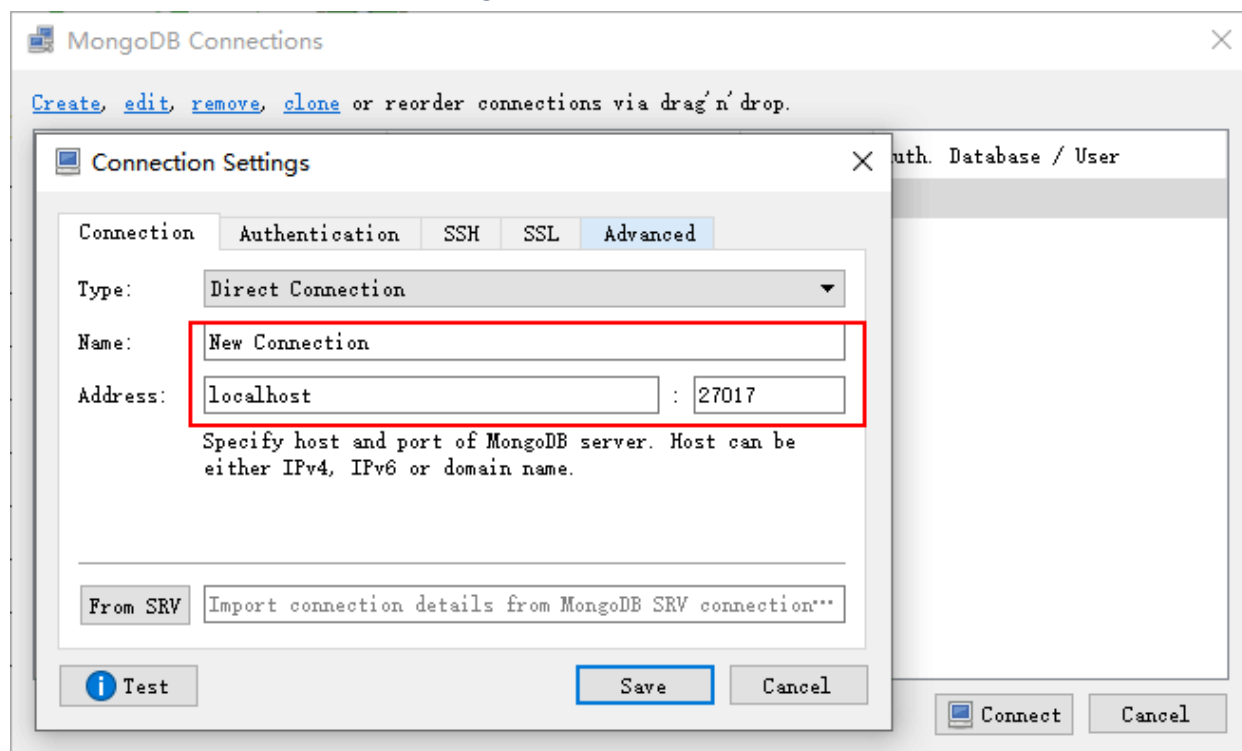
Robo 3T 1.3 brings you support for MongoDB 4.0 and SCRAM-SHA-256, an upgraded mongo shell, support for importing from MongoDB SRV connection strings, among many other fixes and improvements.

Download Robo 3T

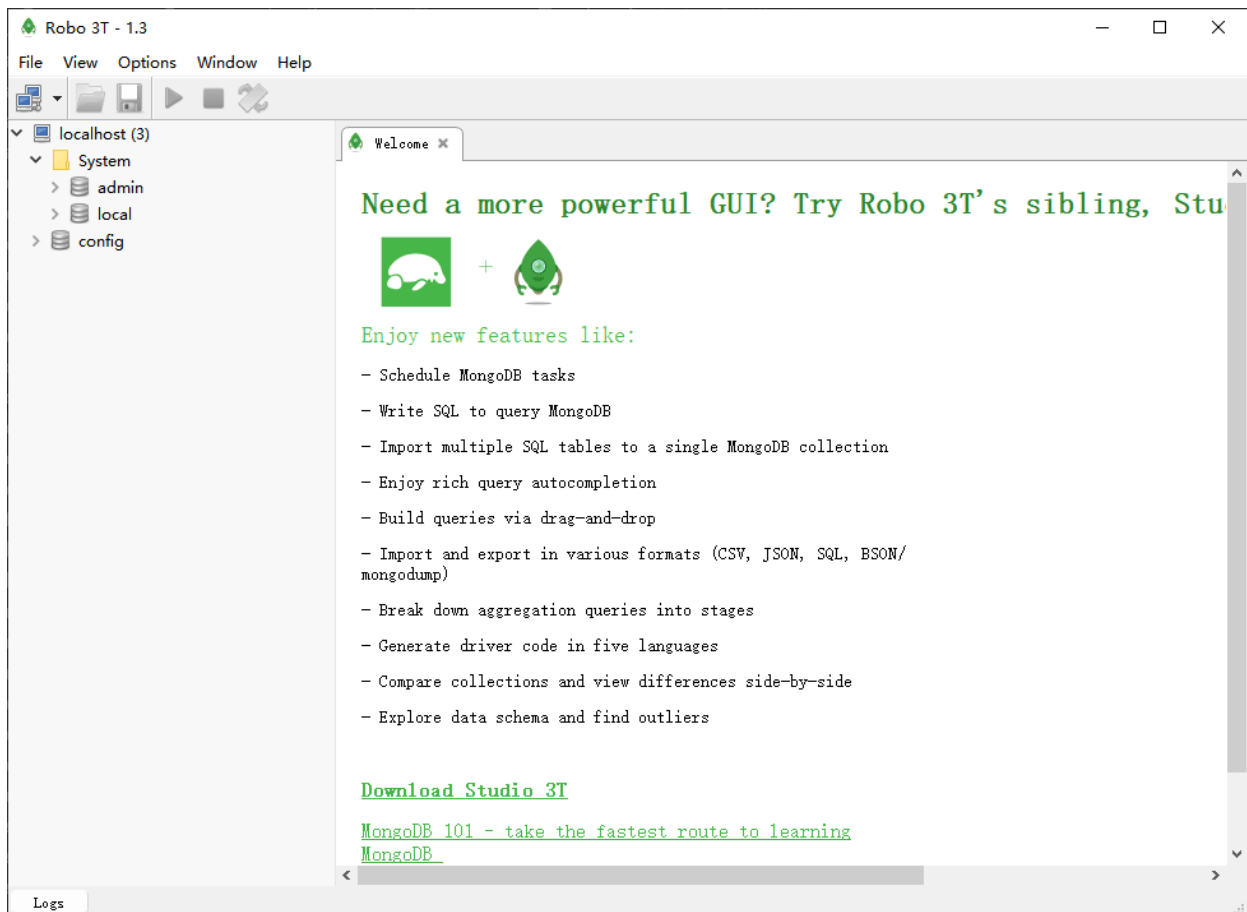
- 下载完成后解压，双击robo3t.exe即可使用；



- 之后创建一个到MongoDB的连接;

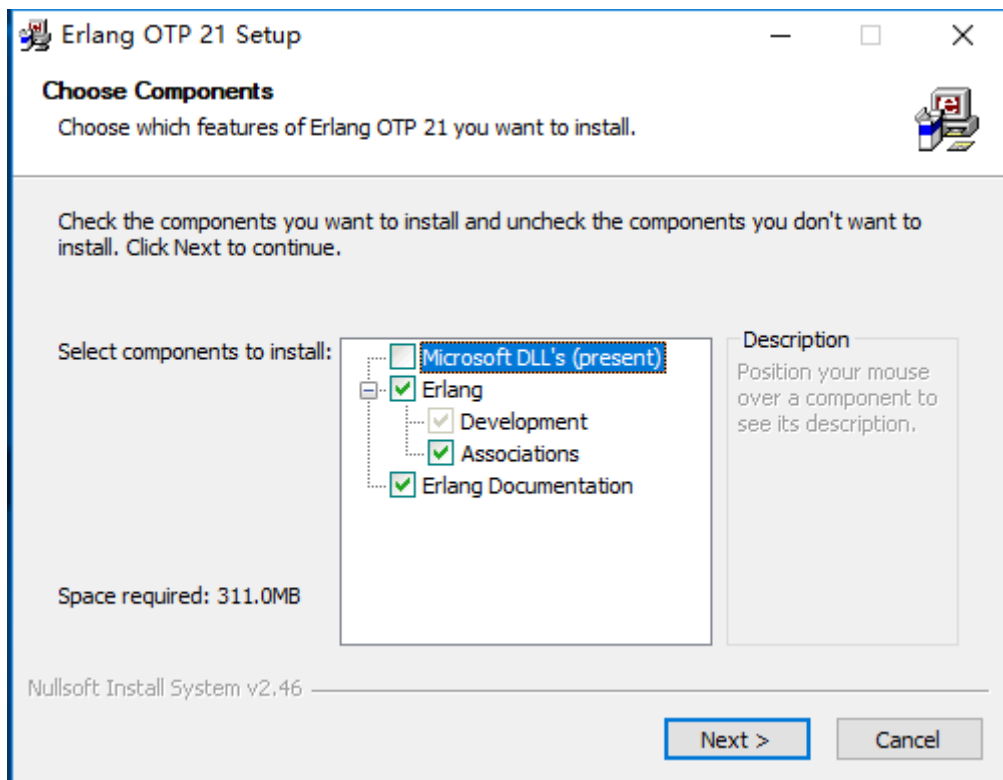


- 创建连接成功以后，就可以操作MongoDB了。

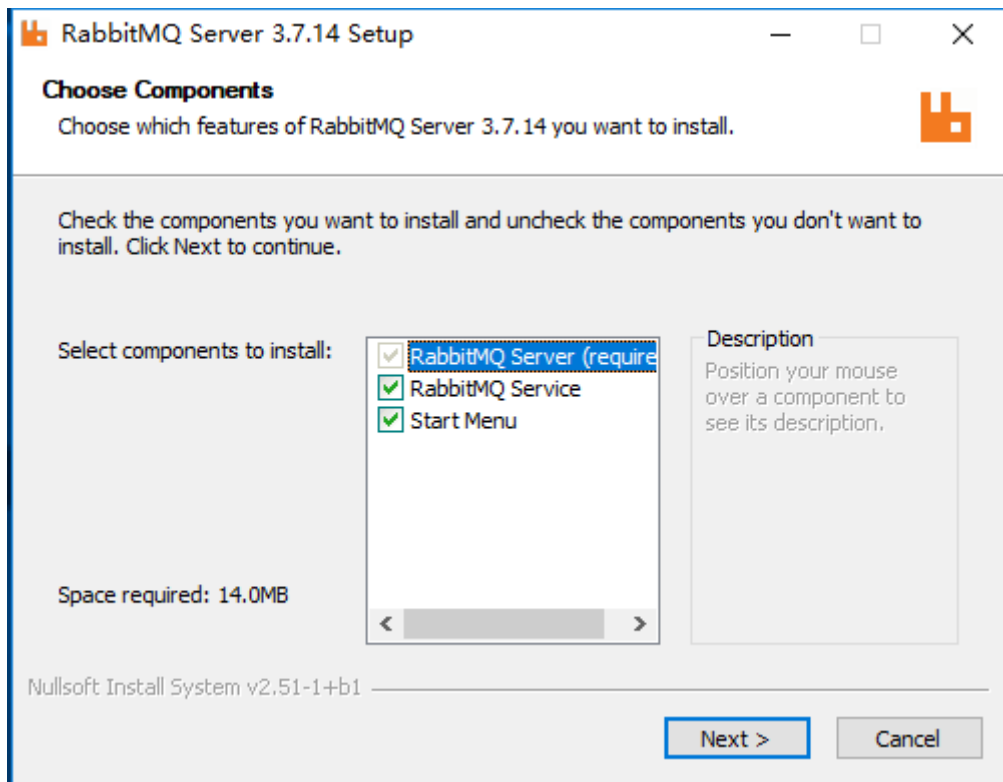


RabbitMQ

- 安装Erlang, 下载地址: http://erlang.org/download/otp_win64_21.3.exe



- 安装RabbitMQ, 下载地址: <https://dl.bintray.com/rabbitmq/all/rabbitmq-server/3.7.14/rabbitmq-server-3.7.14.exe>



- 安装完成后，进入RabbitMQ安装目录下的sbin目录

台电脑 > 本地磁盘 (D:) > developer > env > RabbitMQ Server > rabbitmq_server-3.7.14 > sbin

名称	修改日期	类型	大小
cuttlefish	2019/3/29 5:47	文件	458 KB
rabbitmqctl.bat	2019/3/29 5:47	Windows 批处理...	3 KB
rabbitmq-defaults.bat	2019/3/29 5:47	Windows 批处理...	2 KB
rabbitmq-diagnostics.bat	2019/3/29 5:47	Windows 批处理...	3 KB
rabbitmq-echopid.bat	2019/3/29 5:47	Windows 批处理...	2 KB
rabbitmq-env.bat	2019/3/29 5:47	Windows 批处理...	17 KB
rabbitmq-plugins.bat	2019/3/29 5:47	Windows 批处理...	3 KB
rabbitmq-server.bat	2019/3/29 5:47	Windows 批处理...	11 KB
rabbitmq-service.bat	2019/3/29 5:47	Windows 批处理...	14 KB

- 在地址栏输入cmd并回车启动命令行，然后输入以下命令启动管理功能：

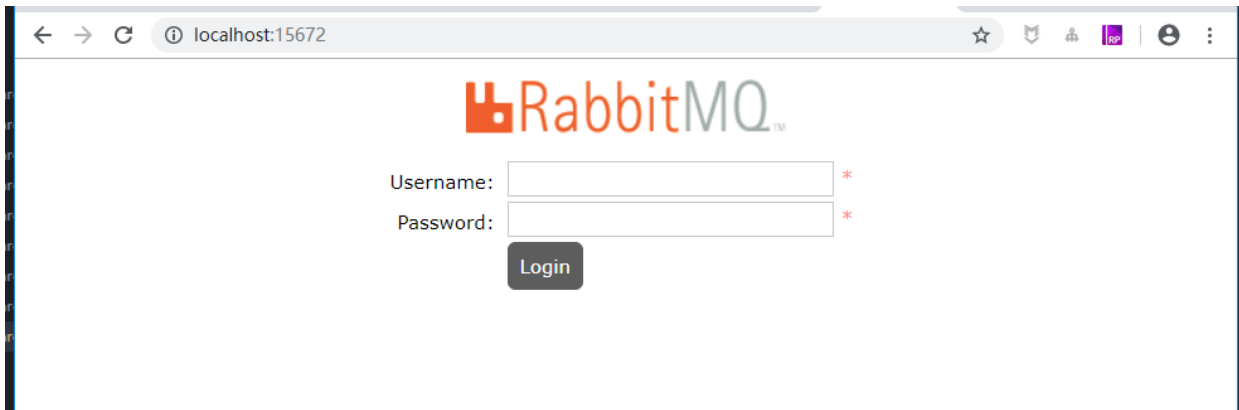
rabbitmq-plugins enable rabbitmq_management

```
C:\Windows\System32\cmd.exe
Microsoft Windows [版本 10.0.17134.765]
(c) 2018 Microsoft Corporation。保留所有权利。

D:\developer\env\RabbitMQ Server\rabbitmq_server-3.7.14\sbin>rabbitmq-plugins enable rabbitmq_management
Enabling plugins on node rabbit@DESKTOP-K1F707Q:
rabbitmq_management
{:plugins_not_found, [:rabbitmq_delayed_message_exchange]}

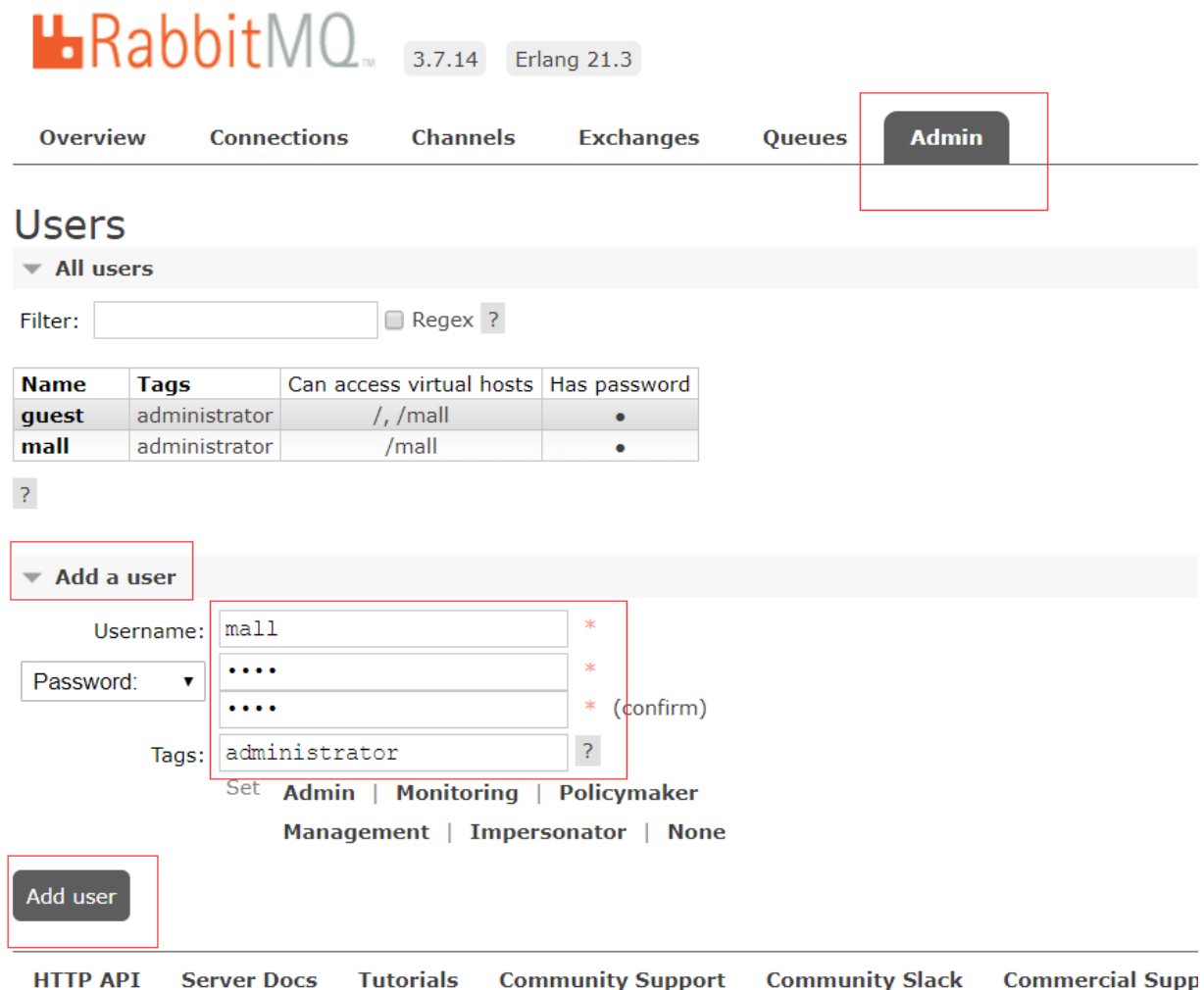
D:\developer\env\RabbitMQ Server\rabbitmq_server-3.7.14\sbin>
```

- 访问地址查看是否安装成功：<http://localhost:15672/>



A screenshot of the RabbitMQ login page in a web browser. The address bar shows 'localhost:15672'. The page features the RabbitMQ logo at the top. Below it, there are two input fields: 'Username:' and 'Password:', each followed by a red asterisk. A 'Login' button is positioned below the password field.

- 输入账号密码并登录: guest guest
- 创建帐号并设置其角色为管理员: mall mall



A screenshot of the RabbitMQ Admin interface. At the top, the RabbitMQ logo is followed by version information '3.7.14' and 'Erlang 21.3'. A navigation bar contains links for 'Overview', 'Connections', 'Channels', 'Exchanges', 'Queues', and 'Admin' (which is highlighted with a red box). Below the navigation bar, the 'Users' section is active. It shows a dropdown for 'All users', a filter input, and a checkbox for 'Regex'. A table lists users: 'guest' (administrator, Can access virtual hosts: /, /mall, Has password: •) and 'mall' (administrator, Can access virtual hosts: /mall, Has password: •). Below the table is a red box containing the 'Add a user' section. This section has fields for 'Username:' (filled with 'mall'), 'Password:' (two masked fields with red asterisks and '(confirm)'), and 'Tags:' (filled with 'administrator' and a red box). Below the tags field, there is a 'Set' button and a list of roles: 'Admin | Monitoring | Policymaker | Management | Impersonator | None'. At the bottom of the 'Add a user' section is an 'Add user' button (highlighted with a red box). The footer contains links for 'HTTP API', 'Server Docs', 'Tutorials', 'Community Support', 'Community Slack', and 'Commercial Supp'.

Name	Tags	Can access virtual hosts	Has password
guest	administrator	/, /mall	•
mall	administrator	/mall	•

Filter: ☐ Regex ?

▼ Add a user

Username: *

Password: * (confirm)

Tags: ?

Set **Admin** | Monitoring | Policymaker | Management | Impersonator | None

Add user

- 创建一个新的虚拟host为: /mall

localhost:15672/#/vhosts

Refreshed 2019-05-18 20:13:42 Refresh every 5 seconds

Virtual host All

Cluster rabbit@DESKTOP-K1F707Q

User guest Log out

Overview **Connections** Channels Exchanges Queues **Admin**

Virtual Hosts

▼ All virtual hosts

Filter: ☐ Regex ? 1 item, page size up to 100

Overview			Messages			Network		Message rates	
Name	Users ?	State	Ready	Unacked	Total	From client	To client	publish	deliver / get
/	guest	running	0	0	0				

▼ Add a new virtual host

Name: *

Add virtual host

Users

Policies

Limits

Cluster

HTTP API Server Docs Tutorials Community Support Community Slack Commercial Support Plugins GitHub Changelog

- 点击mall用户进入用户配置页面

RabbitMQ 3.7.14 Erlang 21.3

Overview **Connections** Channels Exchanges Queues **Admin**

Users

▼ All users

Filter: ☐ Regex ?

Name	Tags	Can access virtual hosts	Has password
guest	administrator	/, /mall	•
mall	administrator	No access	•

?

▼ Add a user

Username: *

Password: * * (confirm)

Tags: ?

Set Admin | Monitoring | Policymaker Management | Impersonator | None

Add user

- 给mall用户配置该虚拟host的权限

User: mall

This user does not have permissions to use "Set Permission" below to grant permissions.

Overview

Tags administrator
Can log in with password •

Permissions

Current permissions

... no permissions ...

Set permission

Virtual Host: /mall

Configure regexp: .*

Write regexp: .*

Read regexp: .*

Set permission

- 至此，RabbitMQ的安装和配置完成。

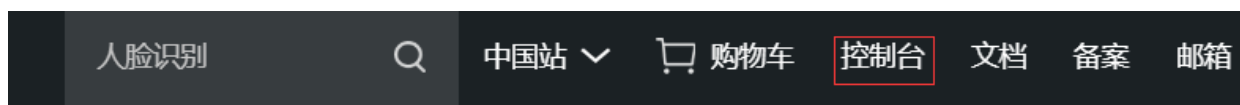
OSS

开通OSS服务

- 登录阿里云官网；
- 将鼠标移至产品标签页，单击对象存储 OSS，打开OSS 产品详情页面；
- 在OSS产品详情页，单击立即开通。

创建存储空间

- 点击网页右上角控制台按钮进入控制台；



- 选择我的云产品中的对象存储OSS；

我的云产品

云服务器 ECS

对象存储 OSS

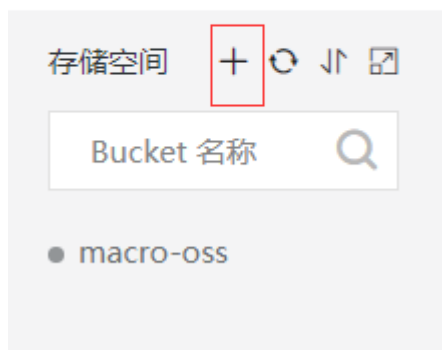
访问控制

域名

- 点击左侧存储空间的加号新建存储空间；

对象存储

概览



- 新建存储空间并设置读写权限为公共读。

新建 Bucket

[? 创建存储空间](#)

⚠ 注意：Bucket 创建成功后，您所选择的**存储类型**、**区域**不支持变更。

Bucket 名称 10/63 ✓

区域 ▼

相同区域内的产品内网可以互通；订购后不支持更换区域，请谨慎选择

您在该区域下没有可用的 **存储包**、**流量包**。建议您购买资源包享受更多优惠，点击 [购买](#)。

Endpoint

存储类型 ☒ 标准存储 ☐ 低频访问 ☐ 归档存储

标准：高可靠、高可用、高性能，数据会经常被访问到。

[如何选择适合您的存储类型？](#)

读写权限 ☐ 私有 ☒ 公共读 ☐ 公共读写

选择公共读，否则图片上传后将无法访问

公共读：对文件写操作需要进行身份验证；可以对文件进行匿名读。

实时日志查询 ☐ 开通 ☒ 不开通

OSS 与日志服务深度结合，免费提供最近7天内的 OSS 实时日志查询。开通该功能后，用户可对 Bucket 的访问记录进行实时查询分析，[了解详情](#)

跨域资源共享 (CORS) 的设置

- 选择一个存储空间，打开其基础设置；



- 点击跨越设置的设置按钮；

跨域设置

解决 JavaScript 的跨域访问问题，了解 [跨域设置使用指南](#)



- 点击创建规则；



- 进行跨域规则设置；

* 来源

*

|

来源可以设置多个，每行一个，每行最多能有一个通配符「*」

* 允许 Methods

☐ GET

☒ POST

☐ PUT

☐ DELETE

☐ HEAD

允许 Headers

*

允许 Headers 可以设置多个，每行一个，每行最多能有一个通配符「*」

暴露 Headers

暴露 Headers 可以设置多个，每行一个，不允许出现通配符「*」

缓存时间（秒）

600