


Установка и настройка MongoDB

Скачайте установщик с официального сайта: <https://www.mongodb.com/try/download/community>.

 MongoDB

Products ▾

Resources ▾

Solutions ▾

Company ▾

Pricing

MongoDB Atlas

MongoDB Enterprise Advanced

MongoDB Community Edition

MongoDB Community Server

MongoDB Community Kubernetes Operator

Tools

Atlas SQL Interface

Mobile & Edge

auto-scaling, serverless instances, full-text search, and data distribution across regions and clouds. Deploy in minutes on AWS, Google Cloud, and/or Azure, with no downloads necessary.

Give it a try with a free, highly-available 512 MB cluster. or get started from your terminal with the following two commands:

```
$ brew install mongodb-atlas
$ atlas setup
```

Version

8.0.0 (current)

▾

Platform

Windows x64

▾

Package

msi

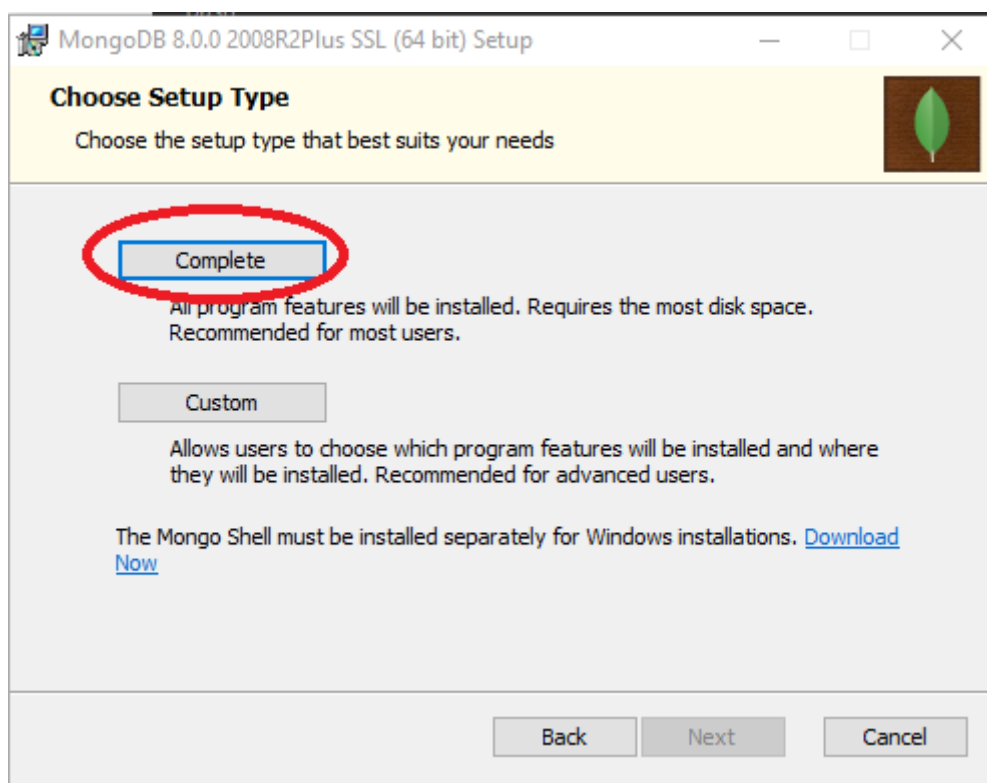
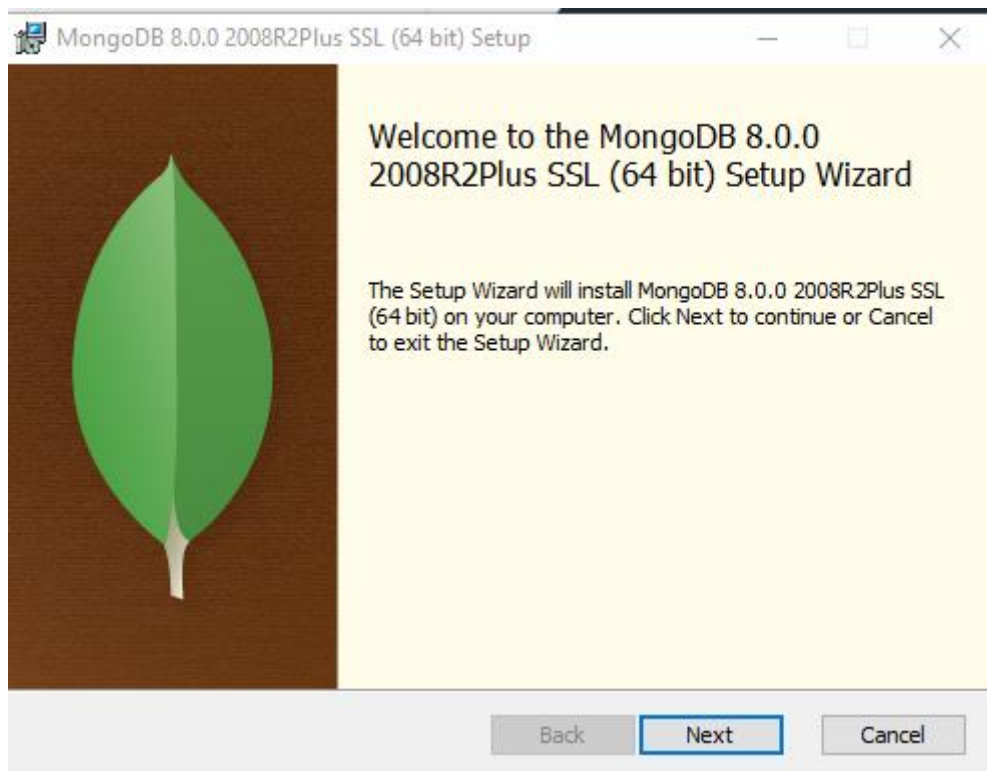
▾

Download ⬇

Copy link

More Options ⋮

И запускаем:



Установите MongoDB как сервис (чтобы MongoDB автоматически запускался при загрузке системы)

MongoDB 8.0.0 2008R2Plus SSL (64 bit) Service Customization

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:

Account Password:

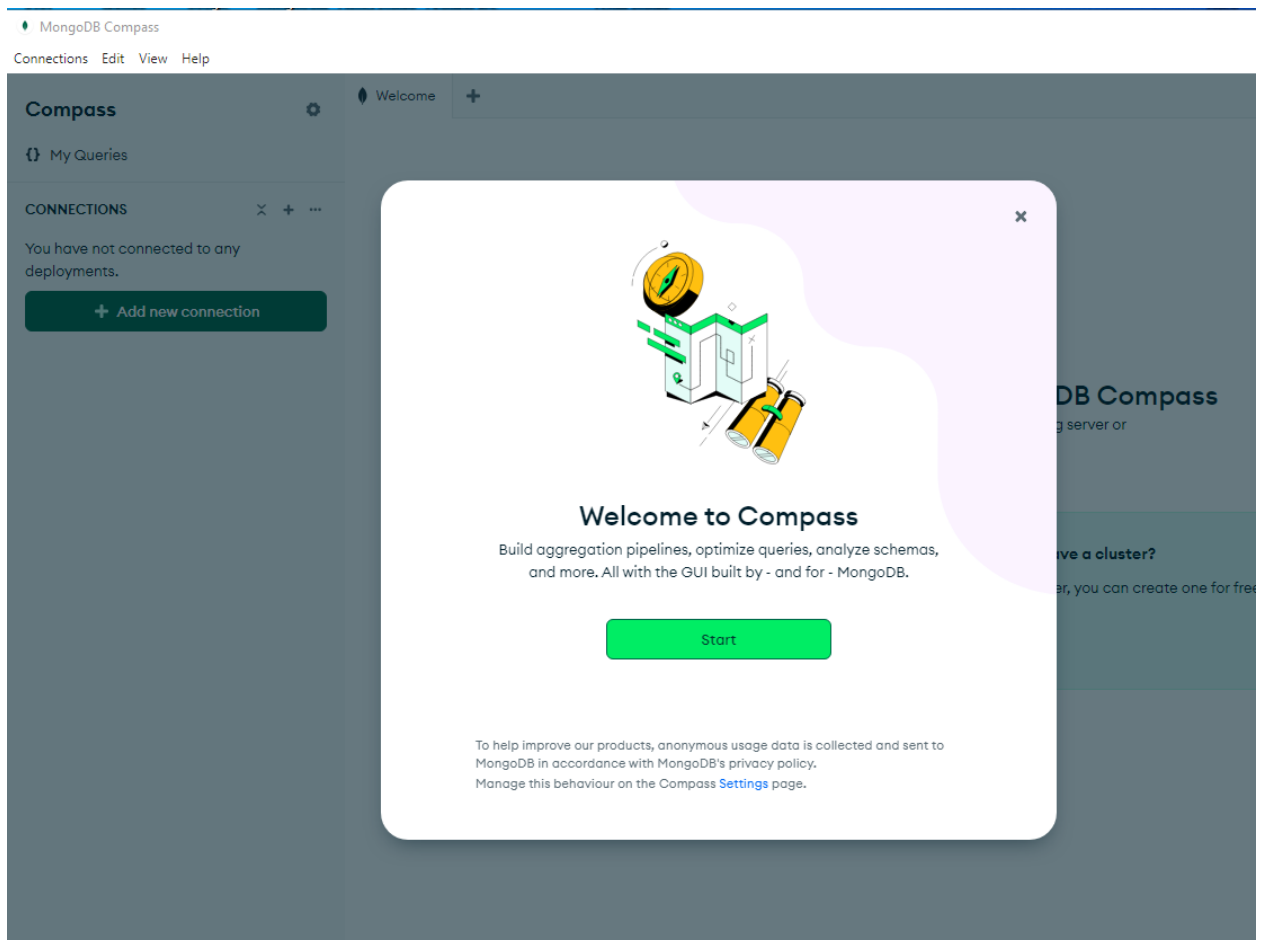
Service Name:

Data Directory:

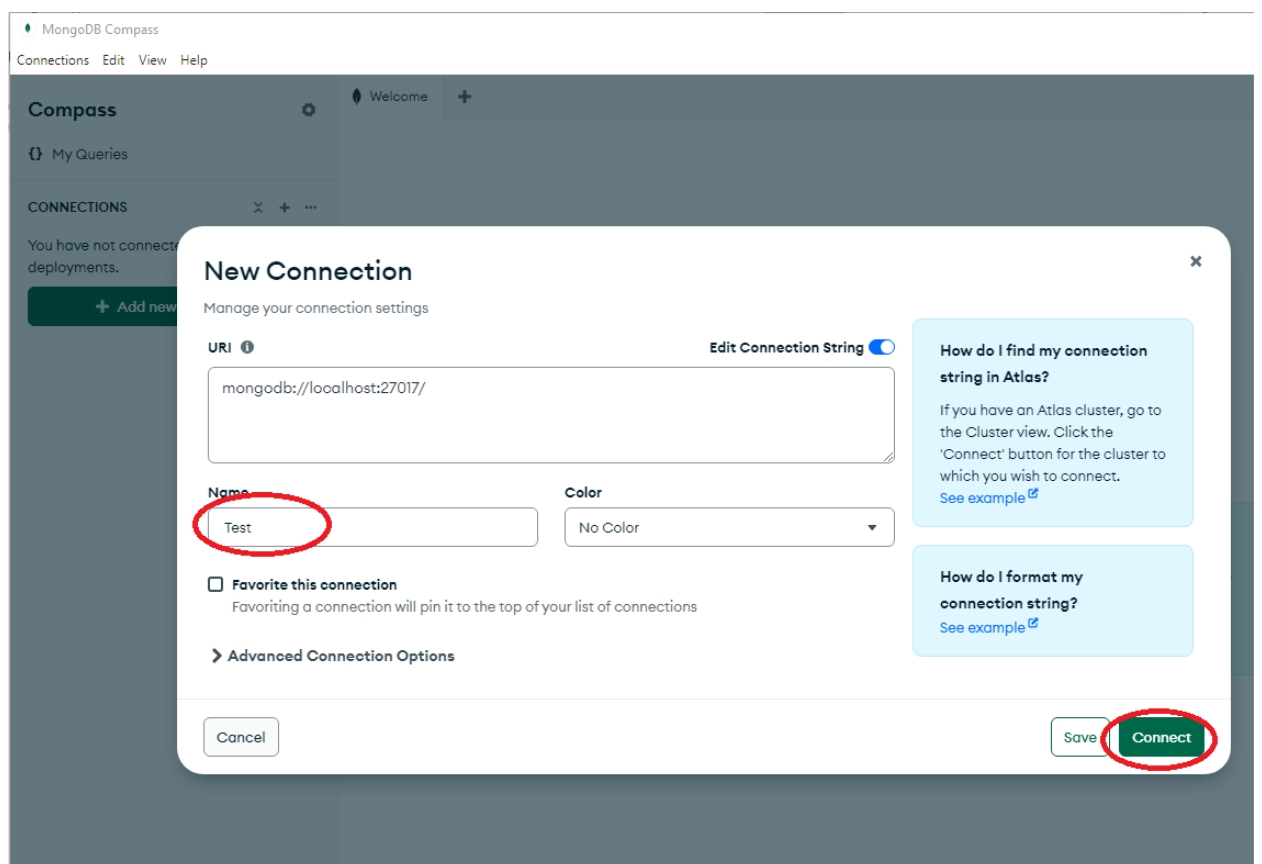
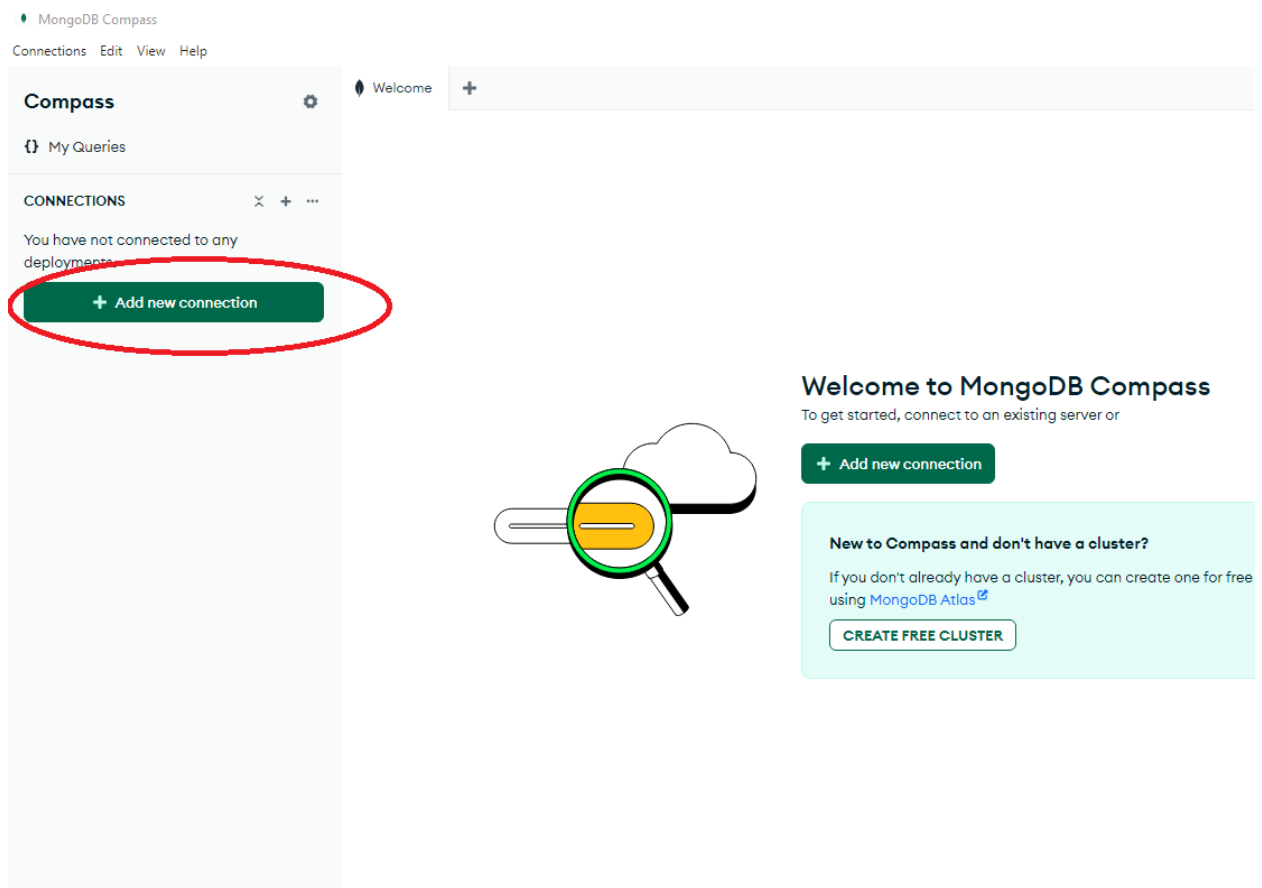
Log Directory:

< Back Next > Cancel

Дожидаемся окончания установки



Создание нового соединения:



Создание базы данных:

Compass

My Queries

CONNECTIONS (1)

Search connections

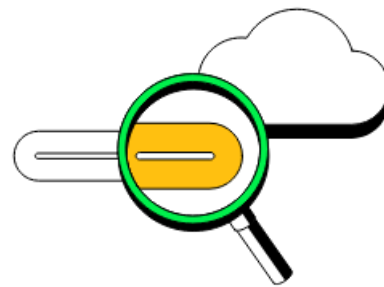
Test

- admin
- config
- local



Create database

Welcome



Welcome

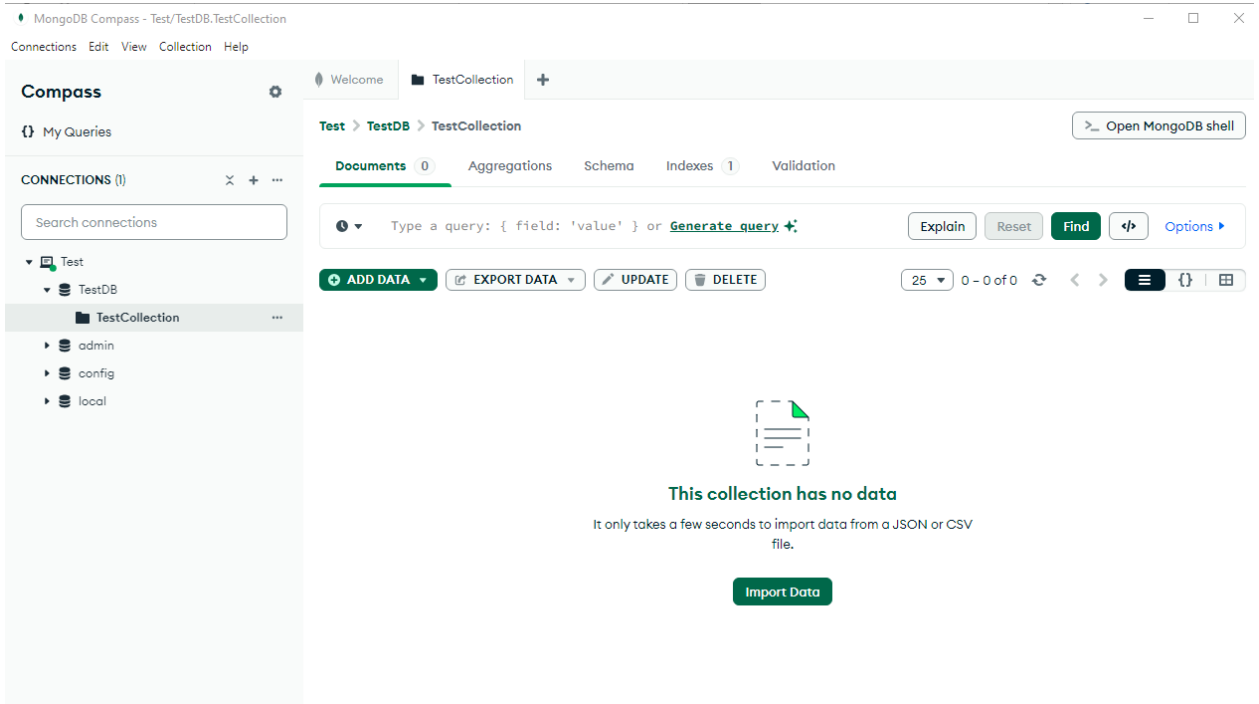
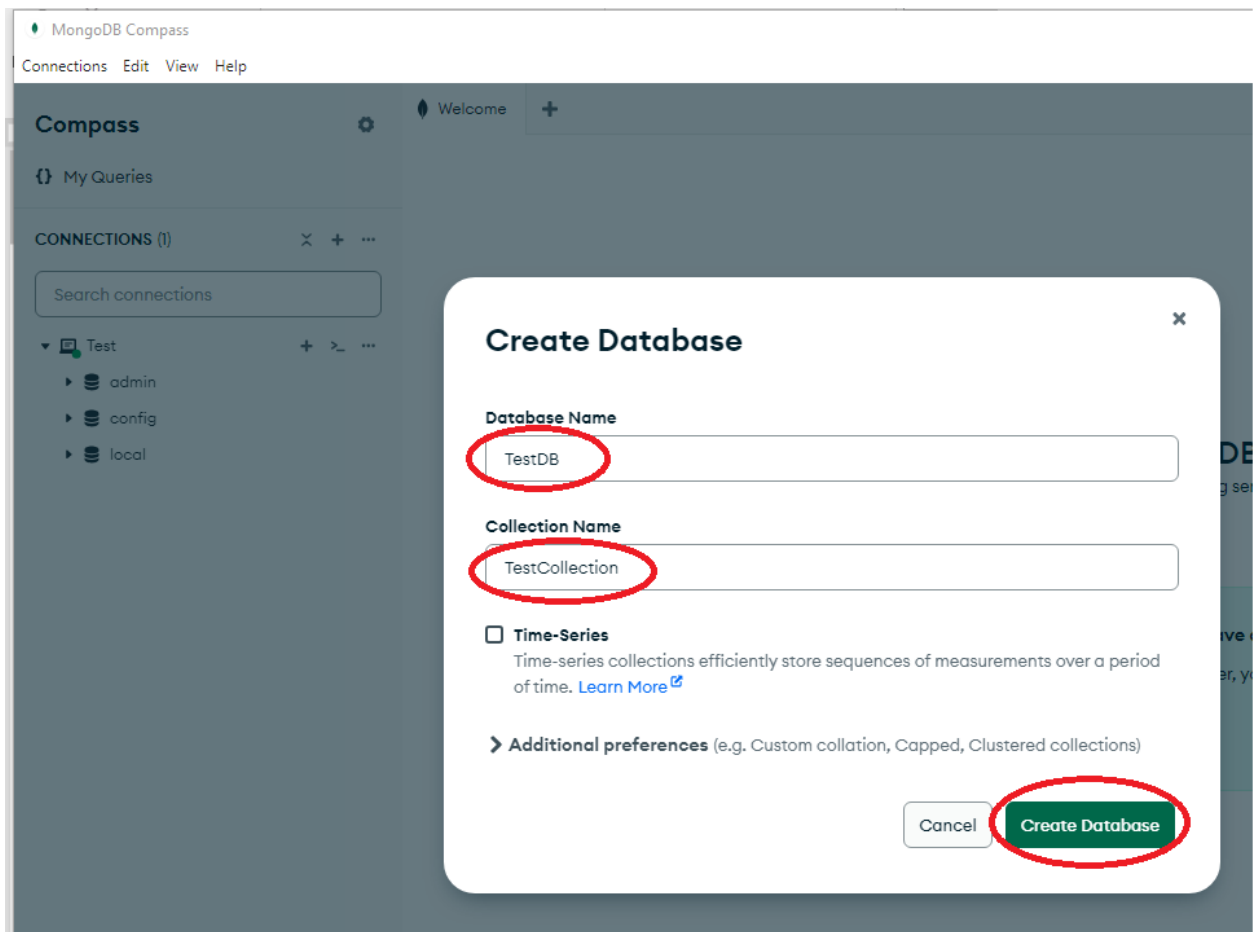
To get started

+ Add new connection

New to MongoDB?

If you are new to MongoDB, you can learn more about it by clicking on the link below.

CREATE NEW DATABASE



Добавление документа:

Compass

My Queries

CONNECTIONS (1)

Test

TestDB

TestCollection

admin

config

local

Welcome

TestCollection

+

Test > TestDB > TestCollection

Documents 0

Aggregations

Schema

Indexes 1

Validation

Type a query: { field: 'value' } or [Generate query](#)

ADD DATA

EXPORT DATA

UPDATE

DELETE

Import JSON or CSV file

Insert document

This collection has no
It only takes a few seconds to import data f
file.

Import Data

Compass

My Queries

CONNECTIONS (1)

Search connections

Test

TestDB

TestCollection

admin

config

local

Welcome

TestCollection

Test > TestDB > TestCollection

Documents 0

Aggregations

Schema

Indexes 1

Validation

Insert Document

To collection TestDB.TestCollection

VIEW



```
1  /**
2  * Paste one or more documents here
3  */
4  {
5    "_id": {
6      "$oid": "66fcf280403873ffa4966682"
7    }
8  }
```

Cancel

Insert

Compass

My Queries

CONNECTIONS (1)

Search connections

Test

TestDB

TestCollection

admin

config

local

Welcome

TestCollection

Test > TestDB > TestCollection

Documents 0

Aggregations

Schema

Indexes 1

Validation

Insert Document

To collection TestDB.TestCollection

VIEW



```
1 {  
2   "name": "Alex",  
3   "age": 20,  
4   "profession": "Student"  
5 }  
6
```

Cancel

Insert

Compass

{ } My Queries

CONNECTIONS (1)

- Test
 - TestDB
 - TestCollection**
 - admin
 - config
 - local

WelcomeTestCollection

Test > TestDB > TestCollection

Documents (3)AggregationsSchemaIndexes (1)Validation

Type a query: { field: 'value' } or [Generate query](#)

ADD DATA

EXPORT DATA

UPDATE

DELETE

_id: ObjectId('66fcf2f8403873ffa4966683')

name: "Alex"

age: 20

profession: "Student"

_id: ObjectId('66fcf313403873ffa4966685')

name: "Alice"

age: 22

profession: "Student"

_id: ObjectId('66fcf356403873ffa4966687')

name: "Bill"

age: 21

profession: "Student"

email: "bill21@examplecom"

Использование фильтра:

Welcome

TestCollection



Test > TestDB > TestCollection

Documents 4

Aggregations

Schema

Indexes 1

Validation



{age: 22}



[Generate query](#)

+ ADD DATA

EXPORT DATA

UPDATE

DELETE

```
_id: ObjectId('66fcf313403873ffa4966685')
name: "Alice"
age: 22
profession: "Student"
```

```
_id: ObjectId('66fcffca403873ffa496668d')
name: "Mark"
age: 22
profession: "Developer"
phone: "+7-777-777-77-77"
```

Test > TestDB > TestCollection

Documents 4

Aggregations

Schema

Indexes 1

Validation



{profession: "Developer"}



[Generate query](#)

+ ADD DATA

EXPORT DATA

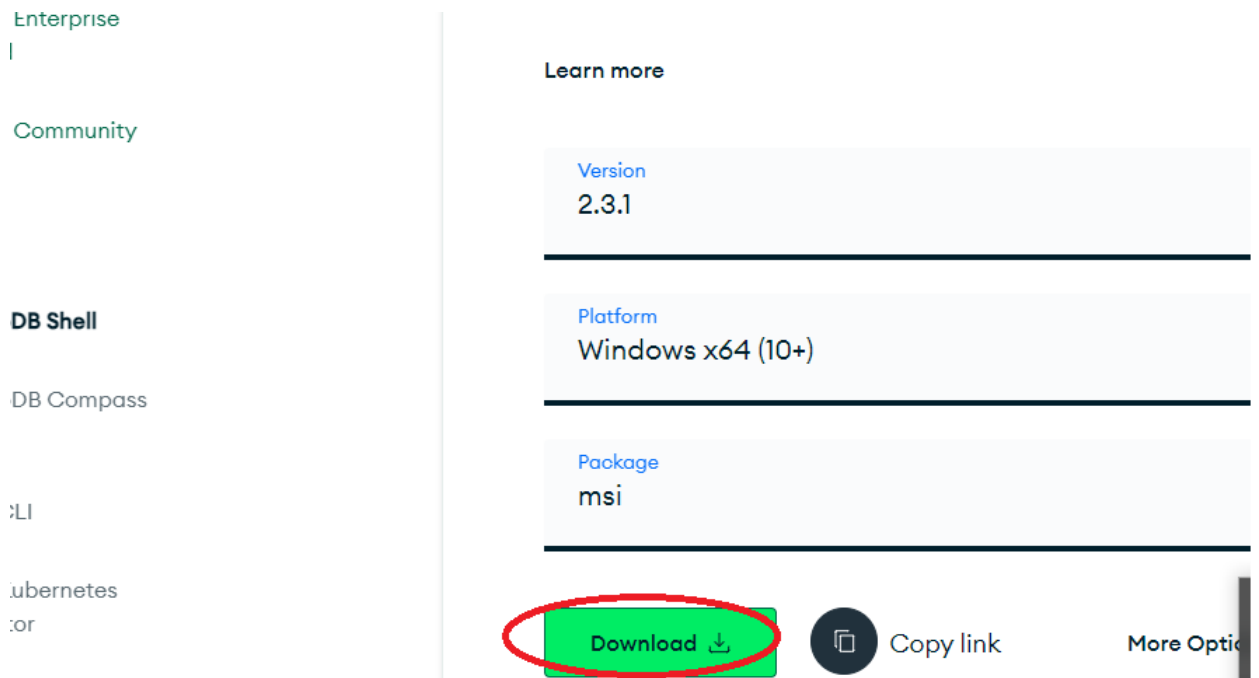
UPDATE

DELETE

```
_id: ObjectId('66fcffca403873ffa496668d')
name: "Mark"
age: 22
profession: "Developer"
phone: "+7-777-777-77-77"
```

Работа в консоли:

Скачиваем и устанавливаем MongoDB Shell: <https://www.mongodb.com/try/download/shell>



В командной строке набираем: mongosh

```
cmd mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
Microsoft Windows [Version 10.0.19045.4957]
(c) Корпорация Майкрософт (Microsoft Corporation). Все права защищены.

C:\Users\user>mongosh
Current Mongosh Log ID: 67026ec791cf8fec67c73bf7
Connecting to:      mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2
.3.1
Using MongoDB:      8.0.0
Using Mongosh:      2.3.1

For mongosh info see: https://www.mongodb.com/docs/mongosh-shell/

To help improve our products, anonymous usage data is collected and sent to MongoDB periodically (https://www.mongodb.co
m/legal/privacy-policy).
You can opt-out by running the disableTelemetry() command.

-----
  The server generated these startup warnings when booting
  2024-10-06T15:52:11.156+05:00: Access control is not enabled for the database. Read and write access to data and conf
  igation is unrestricted
  -----

test>
```

Подключимся к базе TestDB и создадим коллекцию "Users":

```
test> use TestDB
switched to db TestDB
TestDB> db.createCollection("Users")
{ ok: 1 }
TestDB>
```

Добавление одного документа:

```
TestDB> db.users.insertOne({"name": "Ivan", "email": "ivan@mail.com", "age": 22})
{
  acknowledged: true,
  insertedId: ObjectId('670272b391cf8fec67c73bf8')
}
TestDB>
```

```
TestDB> db.users.insertOne({"name": "Ivan", "email": "ivan@mail.com", "courses": ["Python", "Web", "CSharp"]})
{
  acknowledged: true,
  insertedId: ObjectId('6702747191cf8fec67c73bfc')
}
TestDB>
```

Добавление нескольких документов:

```
TestDB> db.users.insertMany([
... {"name": "Stepan",
... "email": "stepan@mail.com",
... "age": 21},
... {"name": "Alex",
... "email": "alex@mail.com",
... "age": 22},
... {"name": "Nikita",
... "email": "nikita@mail.com",
... "age": 23},
... ])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('6702740291cf8fec67c73bf9'),
    '1': ObjectId('6702740291cf8fec67c73bfa'),
    '2': ObjectId('6702740291cf8fec67c73bfb')
  }
}
TestDB>
```

Просмотр документов в Compass:

The screenshot shows the MongoDB Compass interface. At the top, there's a breadcrumb navigation: **Test > TestDB > users**. Below this, there are tabs for **Documents** (5), **Aggregations**, **Schema**, **Indexes** (1), and **Validation**. The **Documents** tab is active, showing a list of 5 documents in the **users** collection. Above the list, there's a search bar with the placeholder text "Type a query: { field: 'value' } or [Generate query](#)". To the right of the search bar are buttons for **Explain**, **Reset**, **Find**, and **Options**. Below the search bar, there are buttons for **ADD DATA**, **EXPORT DATA**, **UPDATE**, and **DELETE**. On the right side of the interface, there are controls for the number of documents to display (25) and navigation arrows. The document list itself has columns for **name** (String), **email** (String), **age** (Int32), and **courses** (Array). Each document is shown with its index, a truncated ObjectId, and the values for these fields. Document 5 shows an empty **courses** array, while the others show "No field".

	name String	email String	age Int32	courses Array	
1	2b391cf8f...	"Ivan"	"ivan@mail.com"	22	No field
2	40291cf8f...	"Stepan"	"stepan@mail.com"	21	No field
3	40291cf8f...	"Alex"	"alex@mail.com"	22	No field
4	40291cf8f...	"Nikita"	"nikita@mail.com"	23	No field
5	47191cf8f...	"Ivan"	"ivan@mail.com"	No field	[] 3 elements

Основные команды MongoDB:

Показать все базы данных

```
show dbs
```

Создание или выбор базы данных

```
use mydatabase
```

Показать коллекции в базе данных

```
show collections
```

Создание новой коллекции

```
db.createCollection("mycollection")
```

Вставка документа в коллекцию

```
db.mycollection.insertOne({ name: "John", age: 30, city: "New York" })
```

Вставка нескольких документов

```
db.mycollection.insertMany([
  { name: "Jane", age: 25, city: "Los Angeles" },
  { name: "Mike", age: 35, city: "Chicago" }
])
```

Чтение документов

```
db.mycollection.find()
```

```
db.mycollection.find({ age: { $gt: 30 } })
```

Обновление документа

```
db.mycollection.updateOne(
  { name: "John" },
  { $set: { age: 31 } }
)
```

```
db.mycollection.updateMany(
  { city: "New York" },
  { $set: { city: "NYC" } }
)
```

Удаление документов

```
db.mycollection.deleteOne({ name: "John" })
```

Удаление коллекции

```
db.mycollection.drop()
```

Удаление базы данных

```
db.dropDatabase()
```