

Faculdades
senac

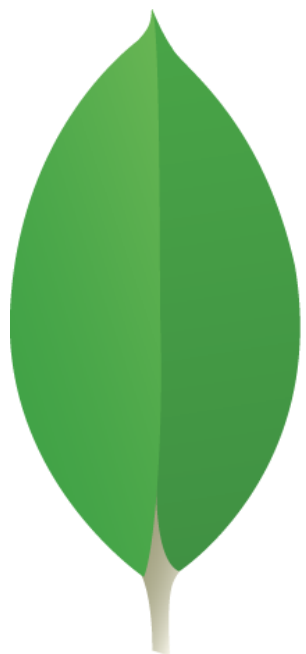


O que é NoSQL?



- Não usa SQL
- Utiliza uma linguagem de consulta customizada
- É um banco de dados “não-relacional”
- Significa coisas diferentes em implementações diferentes
- Favorece a velocidade e escalabilidade mais que qualquer outro recurso
- Não substitui o tradicional RDBMS

**É um CONCEITO
NÃO é um padrão**



mongoDB®

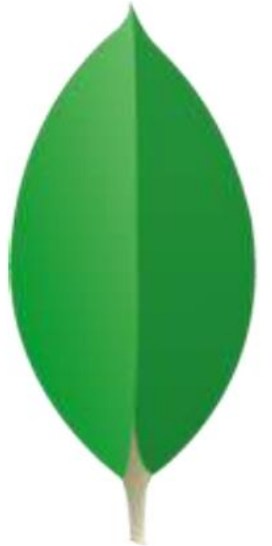
O que é **mongoDB**?

Uma base de dados orientada a “documentos”

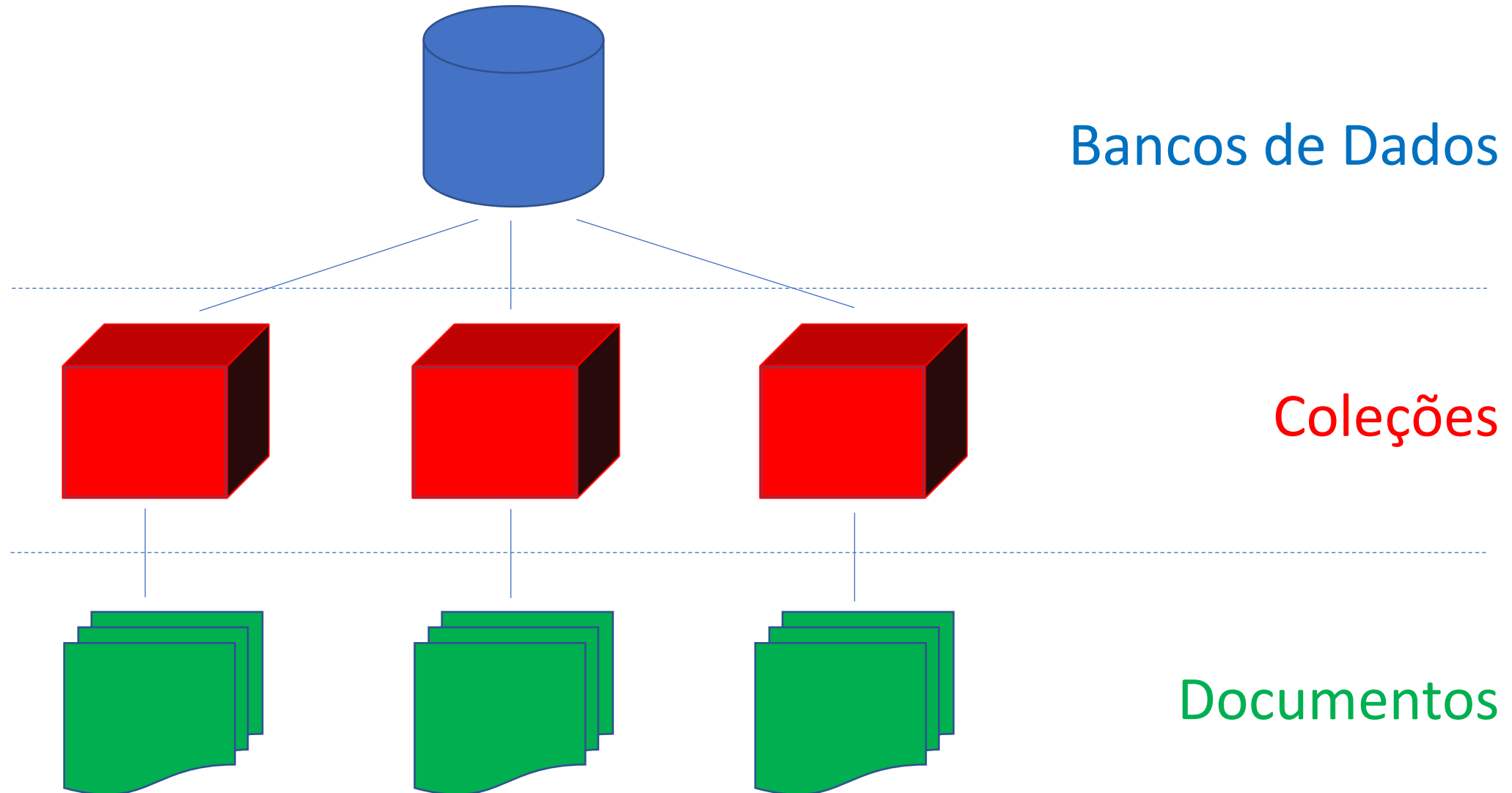
Documentos são representados como pares de ***Name : Value***

Documentos aninhados e ***arrays*** reduzem a necessidade de ***joins***

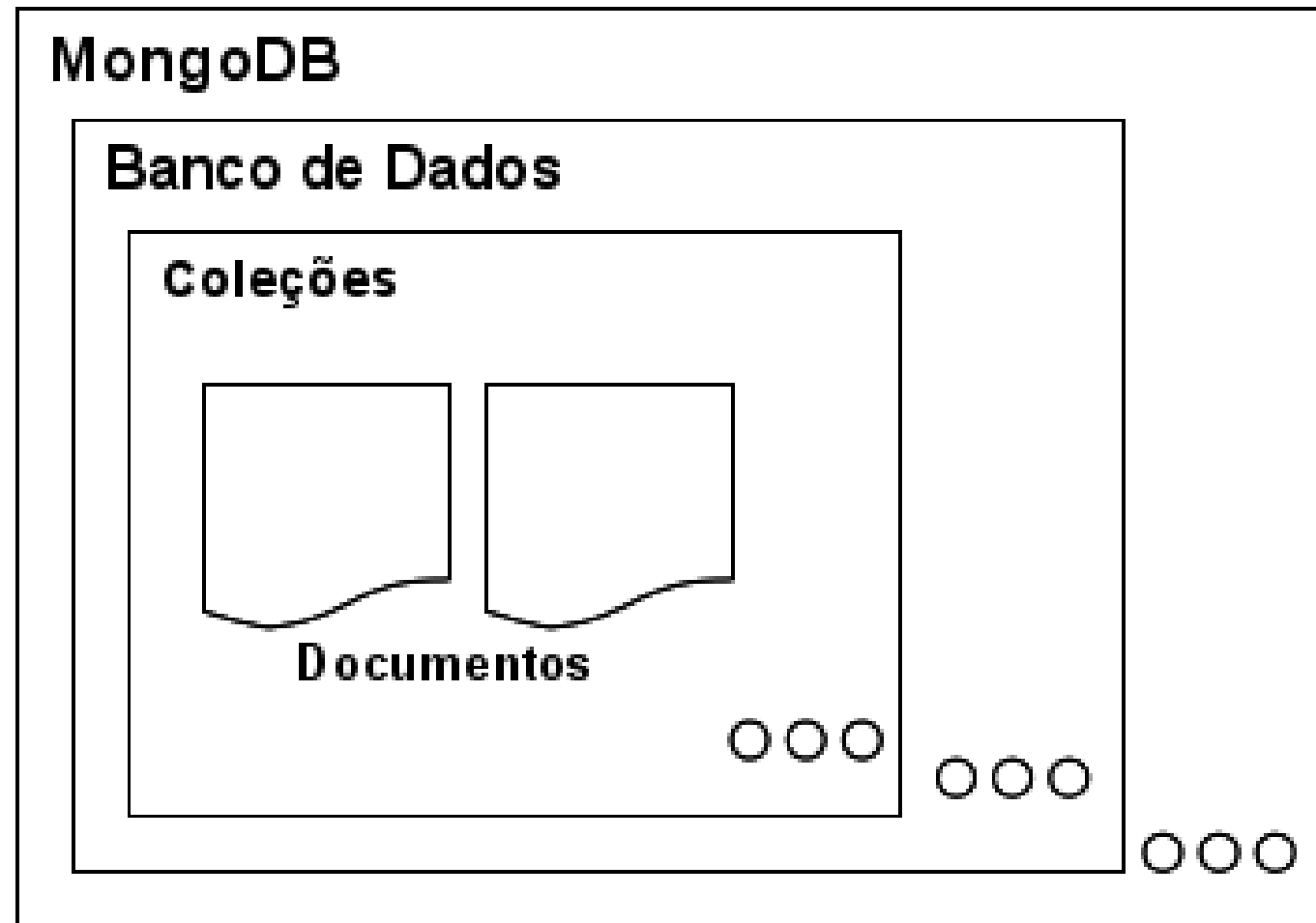
Esquemas dinâmicos – permitem dados não estruturados e complexos



Estrutura de um banco de dados MongoDB



Estrutura de um banco de dados MongoDB



MongoDB x MySQL

MySQL

- Tabelas
- Linhas
- Colunas
- Estrutura definida
- Joins



MongoDB

- Collection
- Documentos
- Atributos
- Estrutura flexível
- Documentos completos

MongoDB – Documento exemplo

```
▪ {  
▪   "firstName":"Jack",  
▪   "secondName":"Jones",  
▪   "age":30,  
▪   "phoneNumbers":[  
▪     {fixedLine:"1234"},  
▪     {mobile:"5678"}  
▪   ],  
▪   "residentialAddress":{  
▪     lineOne:"...",  
▪     lineTwo:"...",  
▪     city:"...",  
▪     state:"...",  
▪     zip:"...",  
▪     country:"..."  
▪   }  
▪ }
```

- Nomes sempre entre aspas
- Valores string sempre entre aspas
- Separado por virgulas
- Chaves representam objetos
 - *residentialAddress* é um objeto aninhado
- Colchetes representam arrays
 - *phoneNumbers* é um array de objetos

MongoDB - Vocabulário

SQL	MongoDB
<ul style="list-style-type: none">■ Database<ul style="list-style-type: none">■ Table■ Record / Row<ul style="list-style-type: none">■ Column■ Primary Key<ul style="list-style-type: none">■ Index■ Cursor■ Schema	<ul style="list-style-type: none">■ Database<ul style="list-style-type: none">■ <i>Collection</i>■ <i>Document</i>■ <i>Field</i>■ Primary Key<ul style="list-style-type: none">■ Index■ Cursor■ Schema

MongoDB - Detalhes

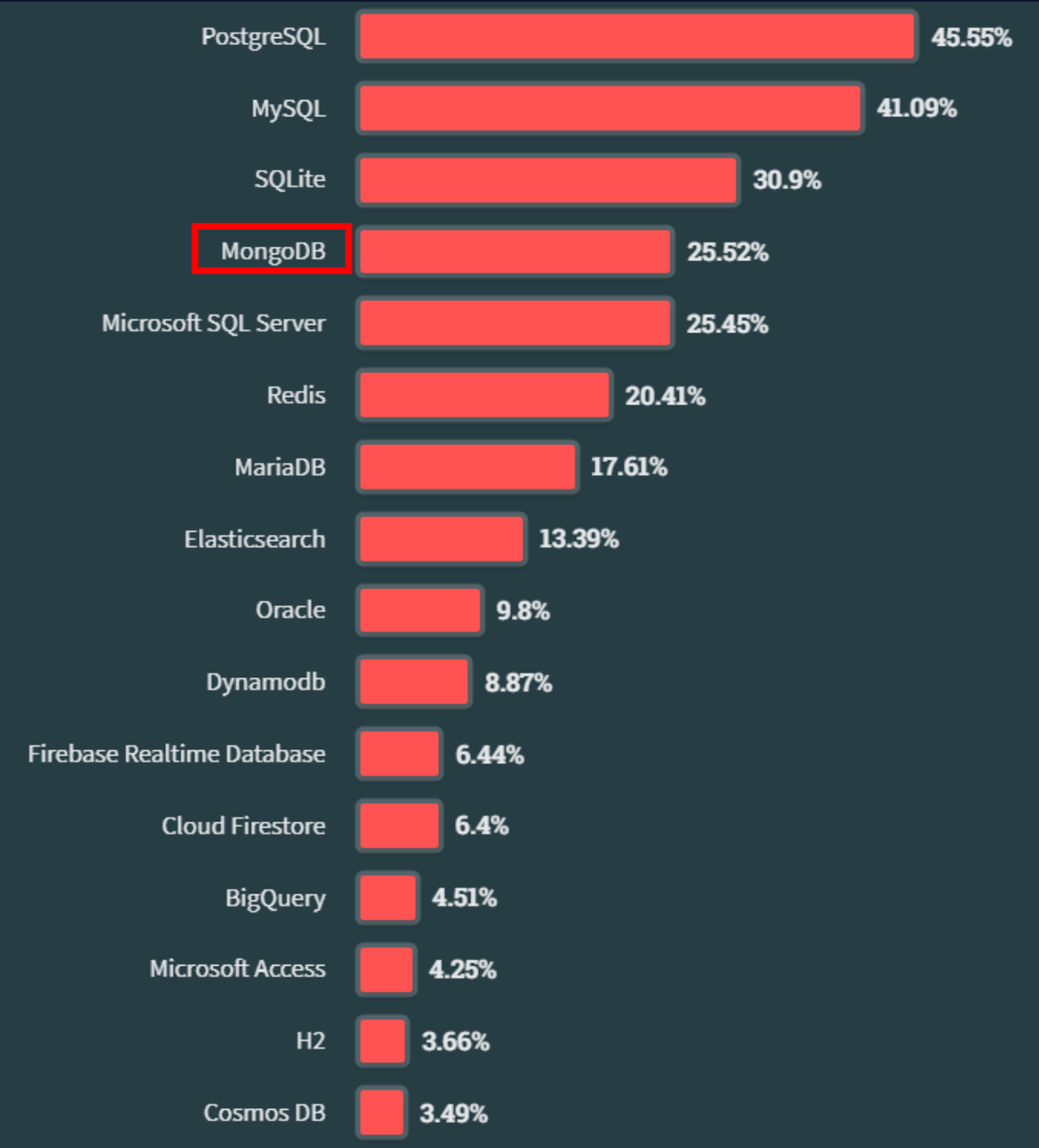
Todos os documentos tem um campo **_id**

Uma *collection* somente existe quando há dados

Documentos em uma *collection* não necessitam um esquema rígido, mas tipicamente são similares

A linguagem de consulta suporta estruturas complexas, incluindo expressões regulares

Rank			DBMS	Database Model	Score		
Jun 2023	May 2023	Jun 2022			Jun 2023	May 2023	Jun 2022
1.	1.	1.	Oracle	Relational, Multi-model	1231.48	-1.16	-56.27
2.	2.	2.	MySQL	Relational, Multi-model	1163.94	-8.52	-25.27
3.	3.	3.	Microsoft SQL Server	Relational, Multi-model	930.06	+9.97	-3.76
4.	4.	4.	PostgreSQL	Relational, Multi-model	612.82	-5.08	-8.02
5.	5.	5.	MongoDB	Document, Multi-model	425.36	-11.25	-55.36
6.	6.	6.	Redis	Key-value, Multi-model	167.35	-0.78	-7.96
7.	7.	7.	IBM Db2	Relational, Multi-model	144.89	+1.87	-14.30
8.	8.	8.	Elasticsearch	Search engine, Multi-model	143.75	+2.11	-12.25
9.	10.	9.	Microsoft Access	Relational	134.45	+3.28	-7.36
10.	9.	10.	SQLite	Relational	131.21	-2.65	-4.22
11.	11.	13.	Snowflake	Relational	114.13	+2.41	+17.71
12.	12.	11.	Cassandra	Wide column	108.55	-2.58	-6.90
13.	13.	12.	MariaDB	Relational, Multi-model	97.31	+0.44	-14.27
14.	14.	14.	Splunk	Search engine	89.45	+2.81	-6.11
15.	15.	16.	Amazon DynamoDB	Multi-model	79.90	-1.20	-3.98
16.	16.	15.	Microsoft Azure SQL Database	Relational, Multi-model	78.96	-0.23	-7.05
17.	17.	17.	Hive	Relational	75.52	+1.91	-6.06
18.	18.	24.	Databricks	Multi-model	65.82	+1.87	+17.69
19.	19.	18.	Teradata	Relational, Multi-model	62.64	-0.07	-7.76
20.	20.	23.	Google BigQuery	Relational	54.64	-0.24	+5.57
21.	21.	22.	FileMaker	Relational	54.38	+2.39	+2.80



MongoDB – Indicação de uso

Big Data

Escrita intensa

Busca simples, porém pesada

Alta escalabilidade e disponibilidade

Schema instável

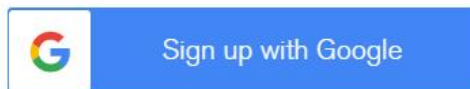
MongoDB – Site

{ } Register for MongoDB.live today! →

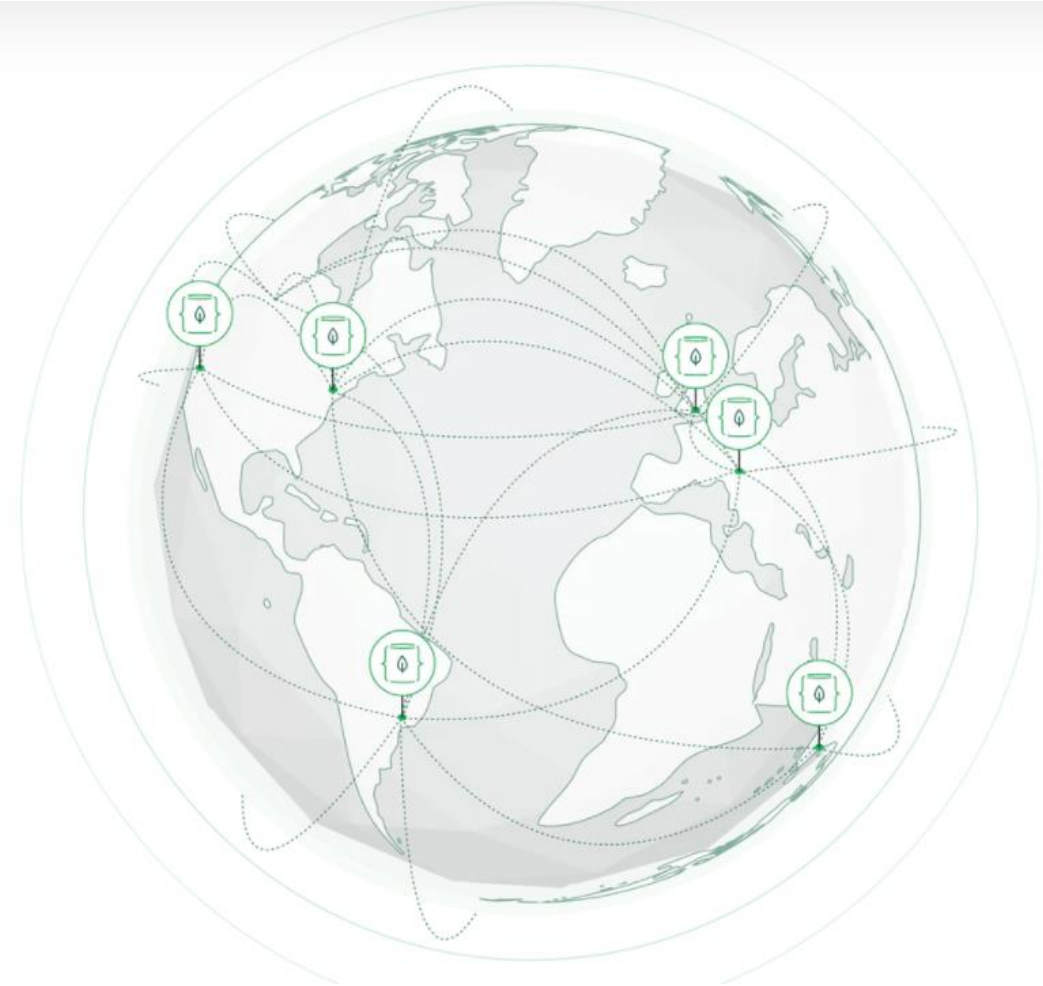
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MongoDB Atlas

Cloud-hosted MongoDB service on AWS, Azure and Google Cloud. Deploy, operate, and scale a MongoDB database in just a few clicks



or

[Start Free](#)

MongoDB – Site

Evento

Desconto de 50% no MongoDB.local São Paulo com o código WEB50! Saiba mais >



Produtos

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Logar

Teste Grátis

NOVO

Apresentando o suporte nativo para dados de séries Saiba mais >

Crie mais rapidamente.
Crie com mais
inteligência.

Leve suas ideias ao mercado mais rapidamente usando uma

_id: _____

MongoDB – Site - Download

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Kubernetes Operator](#)[Tools](#)[Atlas SQL Interface](#)[Mobile & Edge](#)[Version](#)

6.0.6 (current)

[Platform](#)

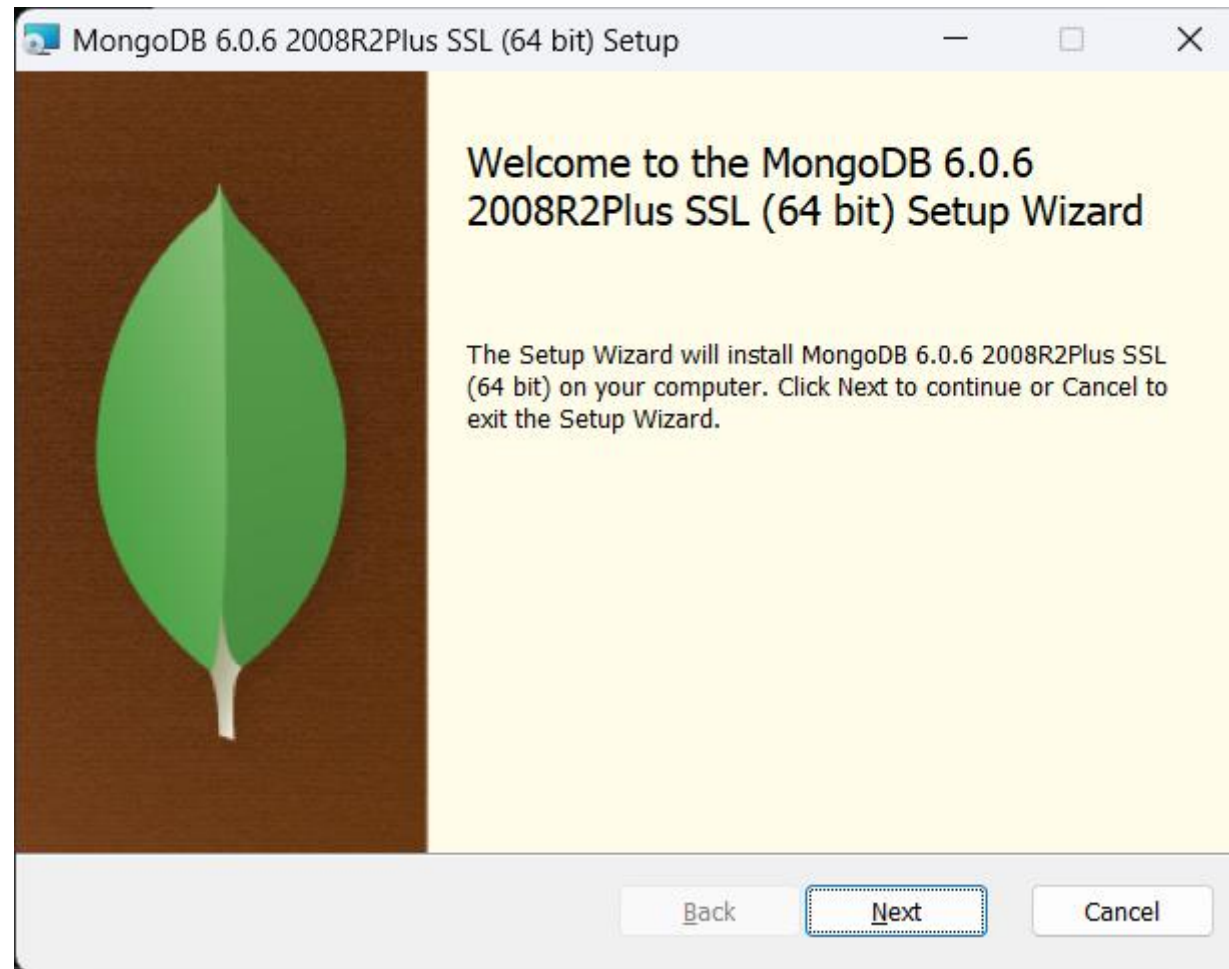
Windows x64

[Package](#)

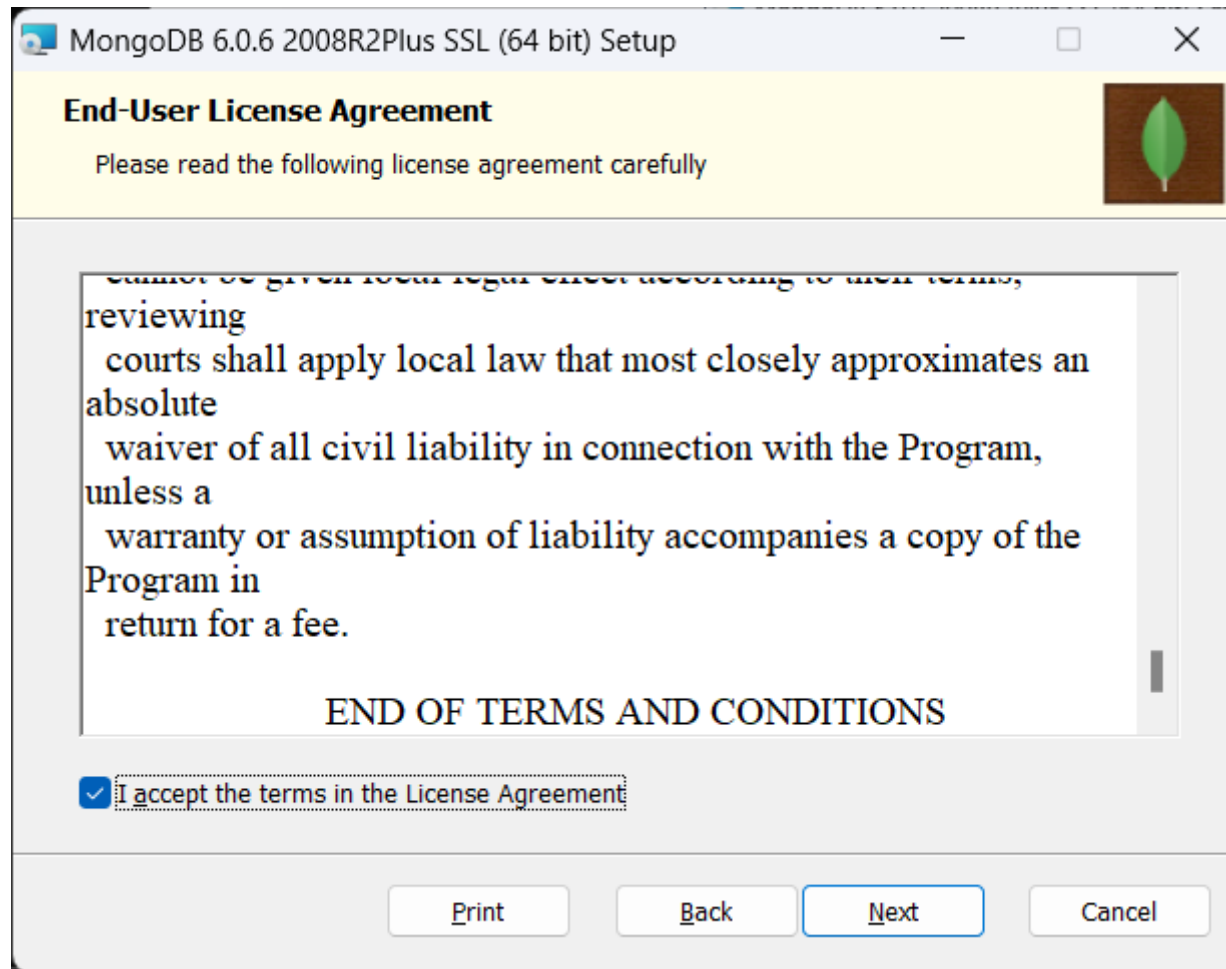
msi

[Download](#)[Copy link](#)[More Options](#)

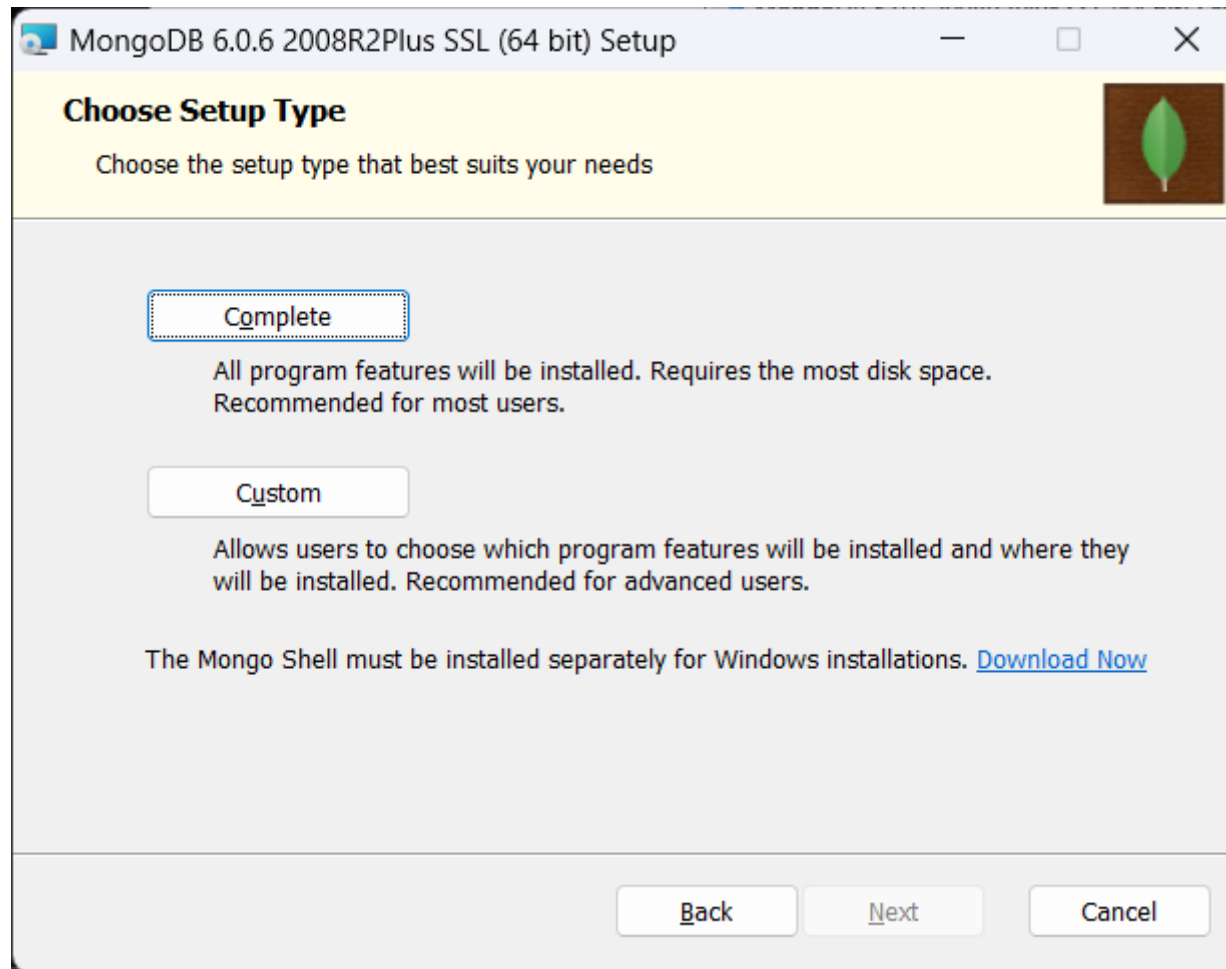
MongoDB – Instalação



MongoDB – Instalação



MongoDB – Instalação



MongoDB – Instalação – Service (ou não)

MongoDB 6.0.6 2008R2Plus SSL (64 bit) Service Customizati...

Service Configuration

Specify optional settings to configure MongoDB as a service.

☒ Install MongoDB as a Service

☒ Run service as Network Service user

☐ Run service as a local or domain user:

Account Domain:

Account Name:

Account Password:

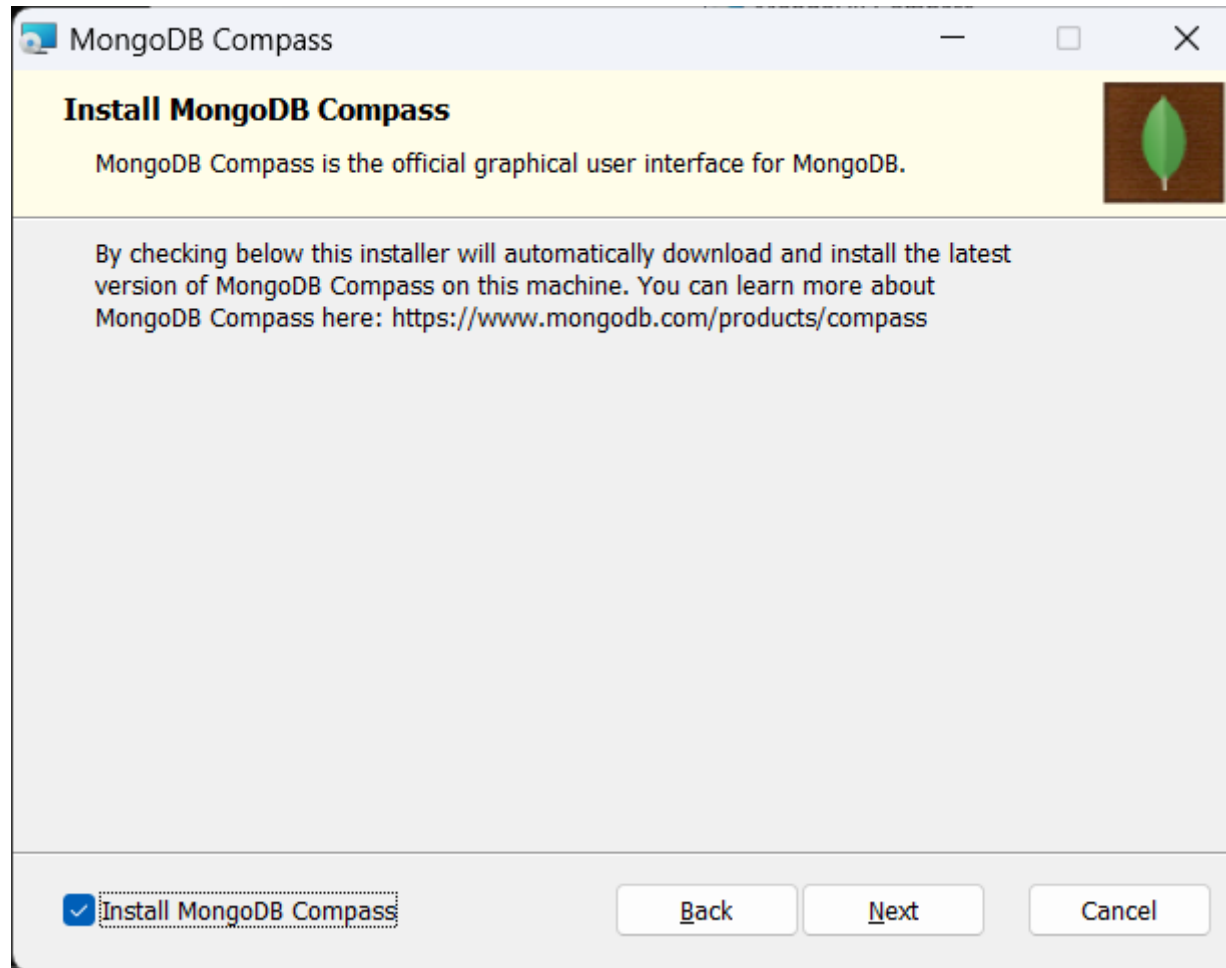
Service Name:

Data Directory:

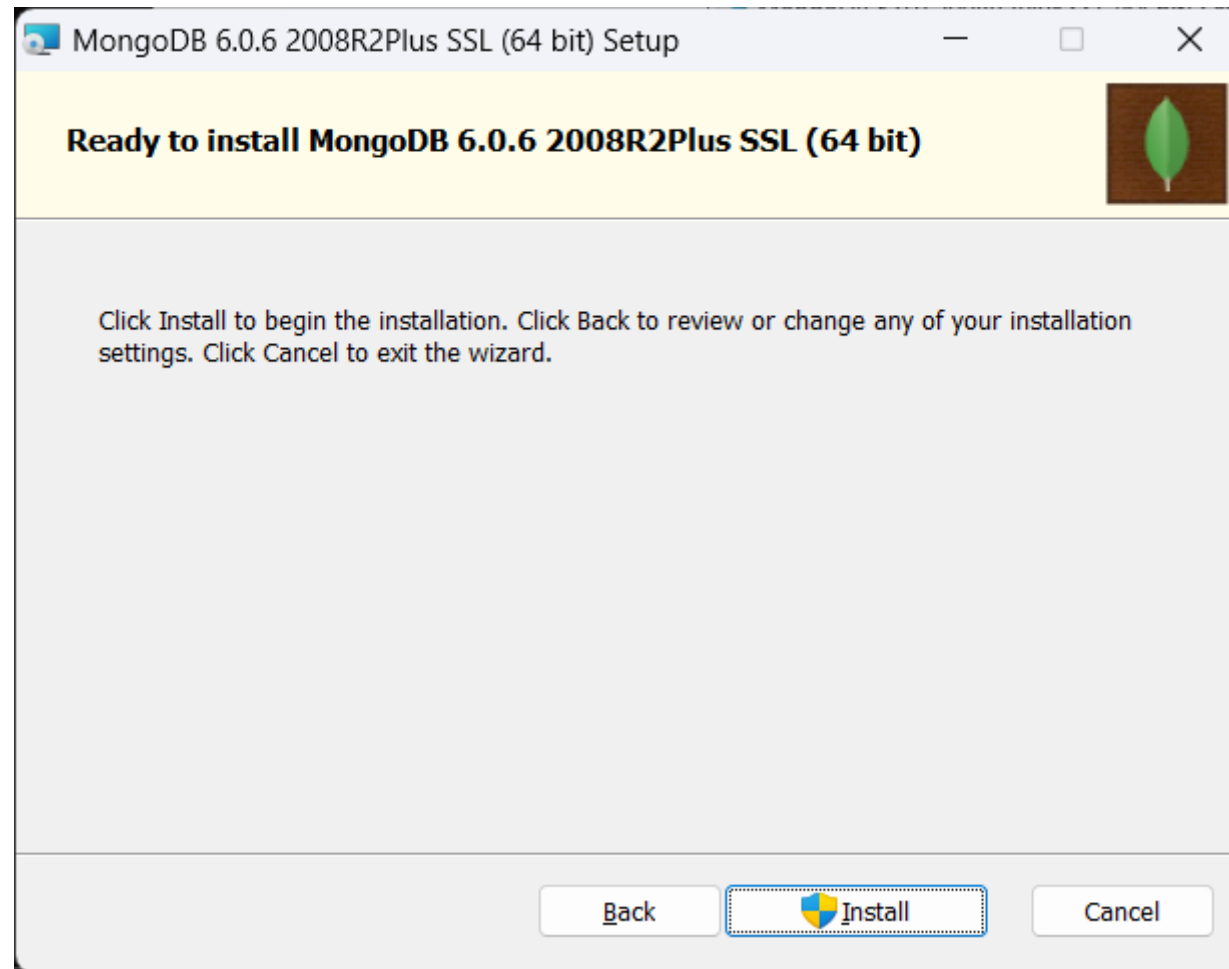
Log Directory:

< Back Next > Cancel

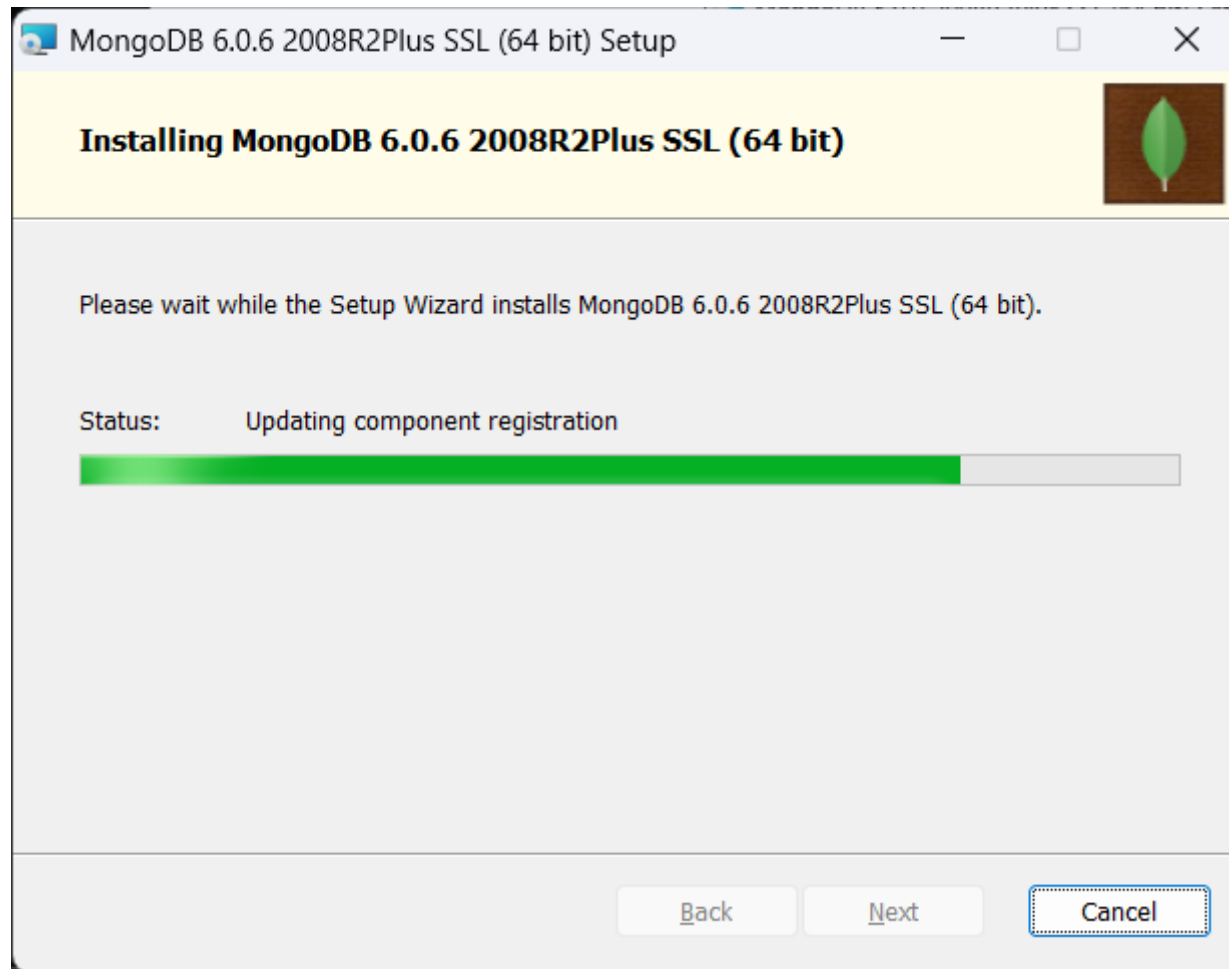
MongoDB – Instalação – Compass



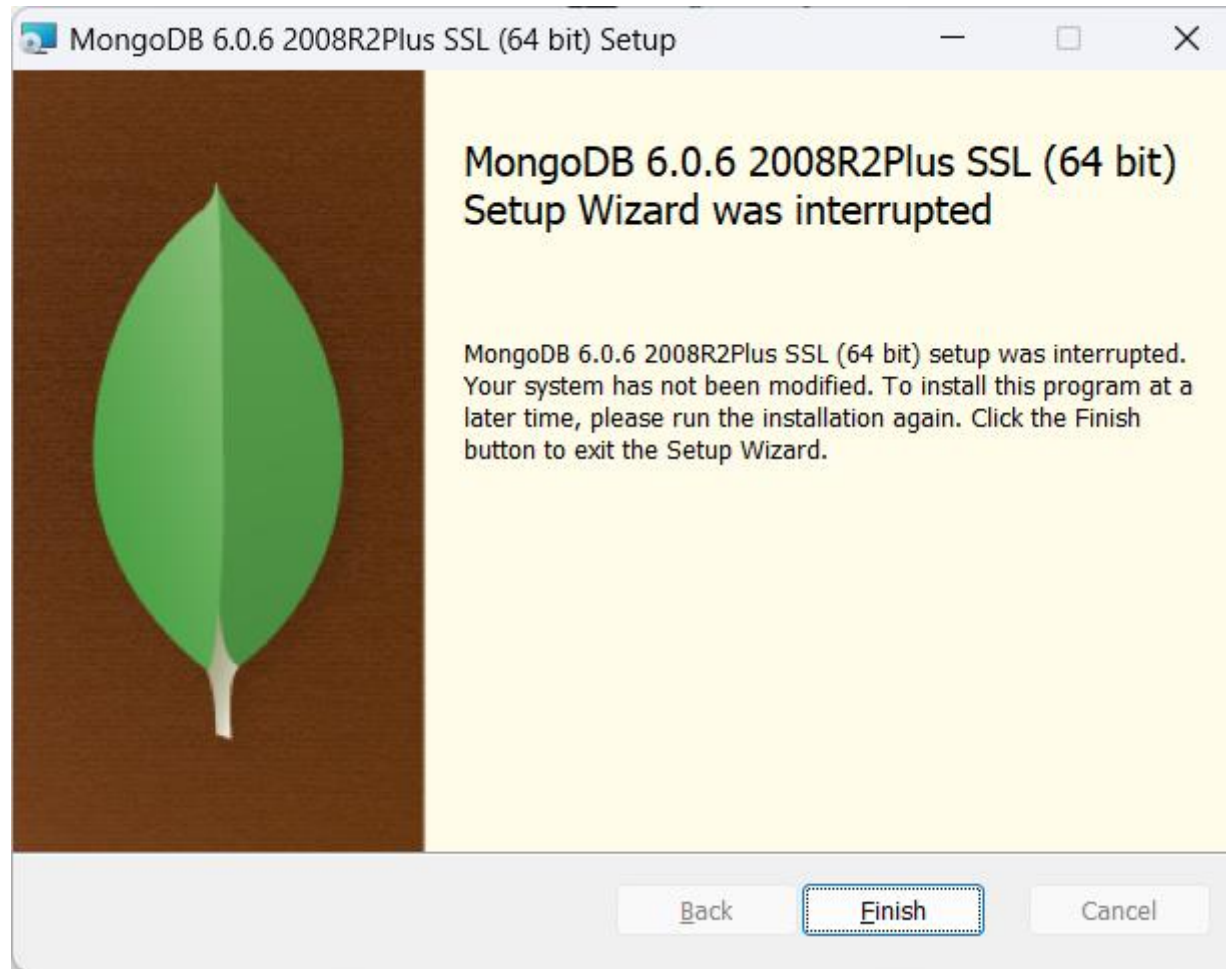
MongoDB – Instalação



MongoDB – Instalação...



MongoDB – Instalação – Se tudo deu certo...



MongoDB – Instalação – Se tudo deu certo...

MongoDB Compass

Connect Edit View Help

Compass

New connection +

Saved connections

Recents

New Connection

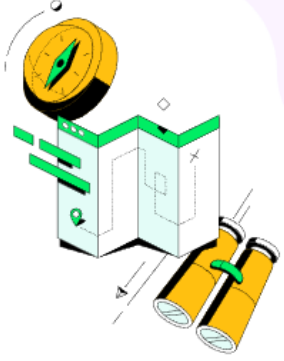
Connect to a new MongoDB cluster

URI ⓘ

mongodb://

Advanced options

Save



Welcome to Compass

Build aggregation pipelines, optimize queries, analyze schemas, and more. All with the GUI built by - and for - MongoDB.

To help improve our products, anonymous usage data is collected and sent to MongoDB in accordance with MongoDB's privacy policy. Manage this behaviour on the Compass [Settings](#) page.

Start

New to Compass and don't have a cluster?

If you don't already have a cluster, you can create one for free using [MongoDB Atlas](#)

CREATE FREE CLUSTER

How do I find my connection string in Atlas?

If you have an Atlas cluster, go to the Cluster view. Click the 'Connect' button for the cluster to which you wish to connect. [See example](#)

How do I format my connection string?












[See example](#)

MongoDB – Criar pasta para Collections



MongoDB – Ferramentas

C:\Program Files\MongoDB\Server\6.0\bin

Nome	Data de modificação	Tipo	Tamanho
 InstallCompass.ps1	04/05/2023 17:20	Script do Window...	2 KB
  mongod.cfg	22/06/2023 23:34	Arquivo Fonte Con...	1 KB
  mongod.exe	04/05/2023 18:43	Aplicativo	55.172 KB
  mongod.pdb	04/05/2023 18:43	Program Debug D...	827.372 KB
  mongos.exe	04/05/2023 18:48	Aplicativo	34.066 KB
  mongos.pdb	04/05/2023 18:48	Program Debug D...	463.708 KB

MongoDB Shell

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Manager and Ops Manager](#)[MongoDB Cluster-to-Cluster
Sync](#)[Relational Migrator](#)

MongoDB Shell Download

MongoDB Shell is the quickest way to connect to (and work with) MongoDB. Easily query data, configure settings, and execute other actions with this modern, extensible command-line interface – replete with syntax highlighting, intelligent autocomplete, contextual help, and error messages.

Note: MongoDB Shell is an open source (Apache 2.0), standalone product developed separately from the MongoDB Server.

[Learn more](#)[Version](#)

1.10.1

[Platform](#)

Windows 64-bit (8.1+)

[Package](#)

zip



MongoDB – Subindo o server

```
Prompt de Comando - mongoc x + v
C:\Program Files\MongoDB\Server\6.0\bin>mongod
{"t":{"$date":"2023-06-22T23:37:14.954-03:00"},"s":"I", "c":"NETWORK",
specification","attr":{"spec":{"incomingExternalClient":{"minWireVersi
t":{"minWireVersion":0,"maxWireVersion":17},"outgoing":{"minWireVersion
}}
{"t":{"$date":"2023-06-22T23:37:14.958-03:00"},"s":"I", "c":"CONTROL", "id":23285, "ctx":"-", "msg":"Automatically di
sabling TLS 1.0, to force-enable TLS 1.0 specify --sslDisabledProtocols 'none'"}
{"t":{"$date":"2023-06-22T23:37:14.960-03:00"},"s":"I", "c":"NETWORK", "id":4648602, "ctx":"thread1", "msg":"Implicit T
CP FastOpen in use."}
{"t":{"$date":"2023-06-22T23:37:14.963-03:00"},"s":"I", "c":"REPL", "id":5123008, "ctx":"thread1", "msg":"Successful
ly registered PrimaryOnlyService","attr":{"service":"TenantMigrationDonorService","namespace":"config.tenantMigrationDon
ors"}}}
{"t":{"$date":"2023-06-22T23:37:14.963-03:00"},"s":"I", "c":"REPL", "id":5123008, "ctx":"thread1", "msg":"Successful
ly registered PrimaryOnlyService","attr":{"service":"TenantMigrationRecipientService","namespace":"config.tenantMigratio
nRecipients"}}}
{"t":{"$date":"2023-06-22T23:37:14.963-03:00"},"s":"I", "c":"REPL", "id":5123008, "ctx":"thread1", "msg":"Successful
ly registered PrimaryOnlyService","attr":{"service":"ShardSplitDonorService","namespace":"config.tenantSplitDonors"}}}
{"t":{"$date":"2023-06-22T23:37:14.964-03:00"},"s":"I", "c":"REPL", "id":5123008, "ctx":"thread1", "msg":"Multi thre
ading initialized"}
{"t":{"$date":"2023-06-22T23:37:14.966-03:00"},"s":"I", "c":"CONTROL", "id":4615611, "ctx":"initandlisten", "msg":"Mong
oDB starting","attr":{"pid":3816,"port":27020,"architecture":"64-bit","host":"Dell-G3"}}}
{"t":{"$date":"2023-06-22T23:37:14.966-03:00"},"s":"I", "c":"CONTROL", "id":23398, "ctx":"initandlisten", "msg":"Targ
et operating system","attr":{"targetMinOS":"Windows 7/Windows Server 2008 R2"}}}
{"t":{"$date":"2023-06-22T23:37:14.966-03:00"},"s":"I", "c":"CONTROL", "id":23403, "ctx":"initandlisten", "msg":"Buil
d Info","attr":{"buildVersion":"6.0.6","gitVersion":"26b4851a412cc8b9b4a18cdb6cd0f9f642e06aa7","modules":[],"all
ocator":"tcmalloc","environment":{"distmod":"windows","distarch":"x86_64","target_arch":"x86_64"}}}}
{"t":{"$date":"2023-06-22T23:37:14.967-03:00"},"s":"I", "c":"CONTROL", "id":51765, "ctx":"initandlisten", "msg":"Oper
ating System","attr":{"os":{"name":"Microsoft Windows 10","version":"10.0 (build 22631)}}}
{"t":{"$date":"2023-06-22T23:37:14.967-03:00"},"s":"I", "c":"CONTROL", "id":21951, "ctx":"initandlisten", "msg":"Opti
```

Subindo server:
C:\Program Files\MongoDB\Server\6.0\bin> mongod

MongoDB – Shell

```
mongosh mongodb://127.0.0.1:27017/ × + ▾  
C:\Program Files\MongoDB\Server\6.0\bin>mongosh  
Current Mongosh Log ID: 6495092a72df5bee591feb60  
Connecting to:      mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+1.10.1  
Using MongoDB:      6.0.6  
Using Mongosh:       1.10.1  
  
For mongosh info see: https://docs.mongodb.com/mongodb-shell/  
  
-----  
The server generated these startup warnings when booting  
2023-06-22T23:34:37.476-03:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted  
-----  
  
test> |
```

MongoDB – Visualizando bancos

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+1.10.1
C:\Program Files\MongoDB\Server\6.0\bin>mongosh
Current Mongosh Log ID: 6495092a72df5bee591feb60
Connecting to:      mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+1.10.1
Using MongoDB:      6.0.6
Using Mongosh:       1.10.1

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

-----
The server generated these startup warnings when booting
2023-06-22T23:34:37.476-03:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
-----

test> show databases
admin    40.00 KiB
config   12.00 KiB
local    40.00 KiB
test> |
```


MongoDB – Acessando banco

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+1.10.1
C:\Program Files\MongoDB\Server\6.0\bin>mongosh
Current Mongosh Log ID: 6495092a72df5bee591feb60
Connecting to:      mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+1.10.1
Using MongoDB:      6.0.6
Using Mongosh:      1.10.1

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

-----
The server generated these startup warnings when booting
2023-06-22T23:34:37.476-03:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
-----

test> show databases
admin   40.00 KiB
config  12.00 KiB
local   40.00 KiB
test> use farmacia
switched to db farmacia
farmacia> |
```



Ao acessar um banco inexistente o mesmo será criado

MongoDB – Exibindo coleções

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+1.10.1

C:\Program Files\MongoDB\Server\6.0\bin>mongosh
Current Mongosh Log ID: 6495092a72df5bee591feb60
Connecting to:      mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+1.10.1
Using MongoDB:      6.0.6
Using Mongosh:      1.10.1

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

-----
  The server generated these startup warnings when booting
  2023-06-22T23:34:37.476-03:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
-----

test> show databases
admin   40.00 KiB
config  12.00 KiB
local   40.00 KiB
test> use farmacia
switched to db farmacia
farmacia> show collections

farmacia> |
```

Banco vazio. Ainda não criamos nenhuma collection

MongoDB – Insert

Inserindo
documento na
coleção
produtos

```
farmacia> db.produtos.insert({"nome":"Sabonete Limpa Tudo", "categoria": "higiene", "valor":123})
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("64950a6b72df5bee591feb61") }
}
farmacia> |
```

MongoDB – Find

Buscando
documentos na
coleção **produtos**

```
farmacia> db.produtos.find()  
[  
  {  
    _id: ObjectId("64950a6b72df5bee591feb61"),  
    nome: 'Sabonete Limpa Tudo',  
    categoria: 'higiene',  
    valor: 123  
  }  
]  
farmacia> |
```

MongoDB – Insert múltiplo

```
mongosh mongodb://127.0.0.1
farmacia> db.produtos.insert([{"nome":"Talco para idosos", "categoria": "higiene", "valor":12}, {"nome":"Pastilha Bafo Colorido", "categoria": "medicamento", "data":"2023-06-23"}])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("64950c5272df5bee591feb62"),
    '1': ObjectId("64950c5272df5bee591feb63")
  }
}
farmacia> |
```

Confirmação da inserção

Inserindo dois documentos na coleção produtos

```
db.produtos.insert([{"nome":"Talco para idosos", "categoria": "higiene", "valor":12}, {"nome":"Pastilha Bafo Colorido", "categoria": "medicamento", "data":"2023-06-23"}])
```

MongoDB – Find



mongosh mongodb://127.0.0.1



```
farmacia> db.produtos.find()
[
  {
    _id: ObjectId("64950a6b72df5bee591feb61"),
    nome: 'Sabonete Limpa Tudo',
    categoria: 'higiene',
    valor: 123
  },
  {
    _id: ObjectId("64950c5272df5bee591feb62"),
    nome: 'Talco para idosos',
    categoria: 'higiene',
    valor: 12
  },
  {
    _id: ObjectId("64950c5272df5bee591feb63"),
    nome: 'Pastilha Bafo Colorido',
    categoria: 'medicamento',
    data: '2023-06-23'
  }
]
farmacia> |
```


Consulta na
coleção
produtos

MongoDB – Consulta por categoria

```
farmacia> db.produtos.find({"categoria":"higiene"})
```

```
[
  {
    _id: ObjectId("64950a6b72df5bee591feb61"),
    nome: 'Sabonete Limpa Tudo',
    categoria: 'higiene',
    valor: 123
  },
  {
    _id: ObjectId("64950c5272df5bee591feb62"),
    nome: 'Talco para idosos',
    categoria: 'higiene',
    valor: 12
  }
]
farmacia> |
```

MongoDB — updateMany / updateOne

 mongosh mongodb://127.0.0.1

+

▼

```
farmacia> db.produtos.updateMany( { "nome": "Sabonete Limpa Tudo" }, { $set: { "nome": "Sabonete Limpa Nada", "estoque": 48 } })
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
farmacia> db.produtos.find()
[
  {
    _id: ObjectId("64950a6b72df5bee591feb61"),
    nome: 'Sabonete Limpa Nada',
    categoria: 'higiene',
    valor: 123,
    estoque: 48
  },
  {
    _id: ObjectId("64950c5272df5bee591feb62"),
    nome: 'Talco para idosos',
    categoria: 'higiene',
    valor: 12
  },
  {
    _id: ObjectId("64950c5272df5bee591feb63"),
    nome: 'Pastilha Bafo Colorido',
    categoria: 'medicamento',
    data: '2023-06-23'
  }
]
farmacia> |
```

MongoDB – replaceOne

```
farmacia> db.produtos.replaceOne( { "nome": "Talco para idosos" }, { "nome": "Talco branco", "categoria":"perfumaria", "estoque": 19 })
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
farmacia> db.produtos.find()
[
  {
    _id: ObjectId("64950a6b72df5bee591feb61"),
    nome: 'Sabonete Limpa Nada',
    categoria: 'higiene',
    valor: 123,
    estoque: 48
  },
  {
    _id: ObjectId("64950c5272df5bee591feb62"),
    nome: 'Talco branco',
    categoria: 'perfumaria',
    estoque: 19
  },
  {
    _id: ObjectId("64950c5272df5bee591feb63"),
    nome: 'Pastilha Bafo Colorido',
    categoria: 'medicamento',
    data: '2023-06-23'
  }
]
farmacia> |
```


MongoDB – Remove

```
farmacia> db.produtos.remove({_id : ObjectId("64950c5272df5bee591feb63")})
DeprecationWarning: Collection.remove() is deprecated. Use deleteOne, deleteMany, findOneAndDelete, or bulkWrite.
{ acknowledged: true, deletedCount: 1 }
farmacia> db.produtos.find()
[
  {
    _id: ObjectId("64950a6b72df5bee591feb61"),
    nome: 'Sabonete Limpa Nada',
    categoria: 'higiene',
    valor: 123,
    estoque: 48
  },
  {
    _id: ObjectId("64950c5272df5bee591feb62"),
    nome: 'Talco branco',
    categoria: 'perfumaria',
    estoque: 19
  }
]
farmacia> |
```

MongoDB – Verificando as coleções



mongosh mongodb://127.0.0.1



```
farmacia> show collections
produtos
farmacia> |
```

MongoDB x SQL – Exemplos

Criando e inserindo



SQL

```
CREATE TABLE usuarios (  
    id INT AUTO_INCREMENT,  
    nome Varchar(30),  
    cidade Varchar(60),  
    estado Varchar(60),  
    PRIMARY KEY (id)  
);  
  
INSERT INTO usuarios (nome, cidade, estado)  
VALUES ("Lucas", "Pelotas", "RS");
```



MongoDB

```
db.usuarios.insert(  
    {"nome": "Lucas",  
     "cidade": "Pelotas",  
     "estado": "RS"  
    }  
)
```

SQL

DELETE

FROM usuarios

WHERE estado = "RS";



MongoDB

```
db.usuarios.deleteMany({ "estado": "RS" });
```



SQL

```
UPDATE usuarios  
SET estado = "RS"  
WHERE cidade = "Pelotas"
```



MongoDB

```
db.usuarios.updateMany(  
  { "cidade": "Pelotas" },  
  { $set: { "estado": "RS" } },  
)
```



SQL

```
SELECT *  
FROM usuarios  
WHERE estado = "RS";
```



MongoDB

```
db.usuarios.find({ "estado": "RS" });
```



MongoDB x SQL – Exemplos

Consultando (com condição dupla)

SQL

```
SELECT *  
FROM usuarios  
WHERE (idade > 18) AND (idade <= 40);
```



MongoDB

```
db.usuarios.find({"idade":{"$gt":18, "$lte":40}})
```



SQL

```
SELECT *  
FROM usuarios  
WHERE nome LIKE "Arthur%";
```



MongoDB

```
db.usuarios.find({"nome":/^Arthur/})
```



SQL

```
SELECT *  
FROM usuarios  
WHERE cidade = "Pelotas"  
ORDER BY nome ASC;
```



MongoDB

```
db.usuarios.find({"cidade":"Pelotas"}).sort({nome:1})
```



SQL

```
SELECT *  
FROM usuarios  
WHERE cidade = "Pelotas"  
ORDER BY nome DESC;
```

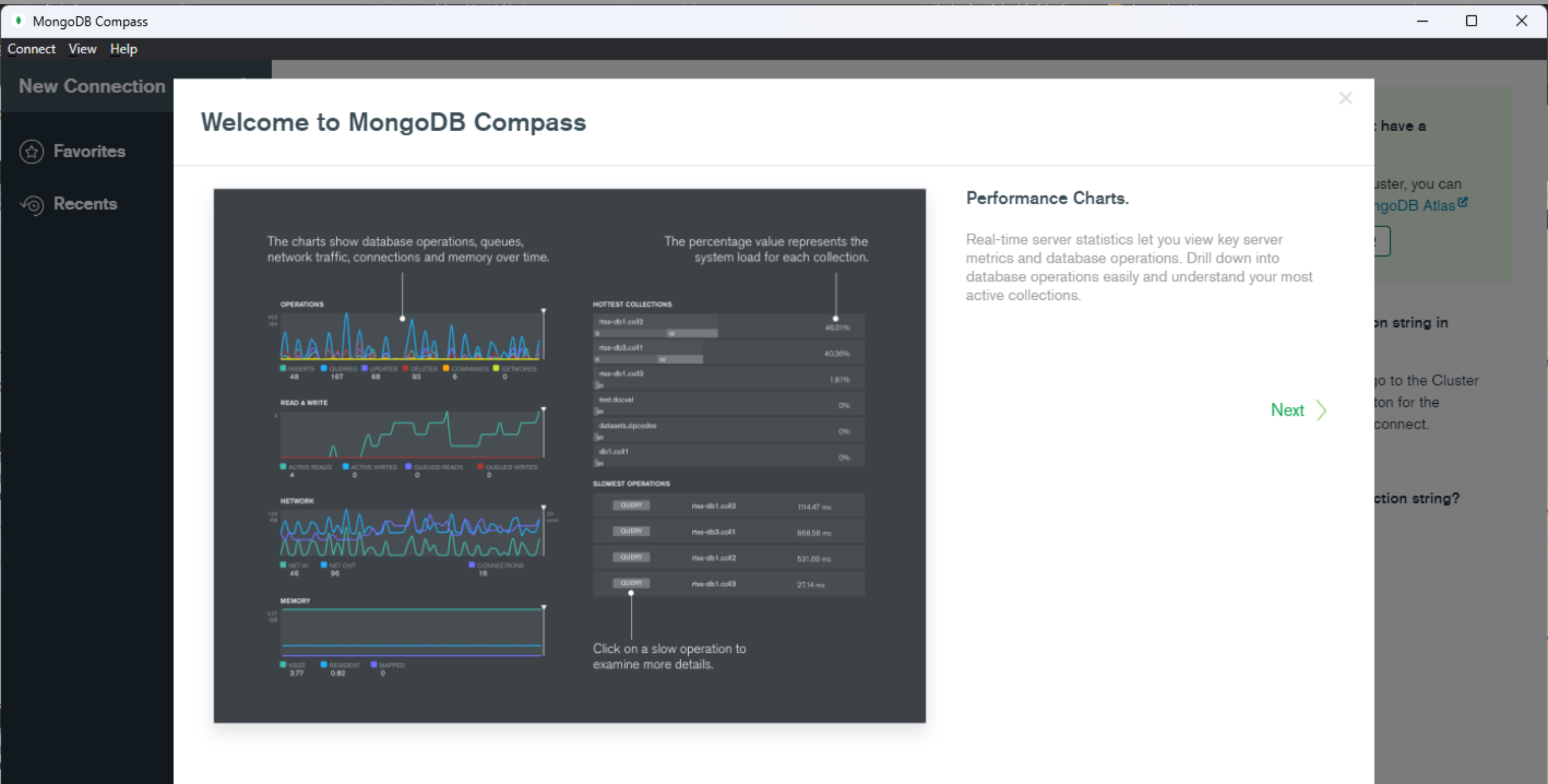


MongoDB

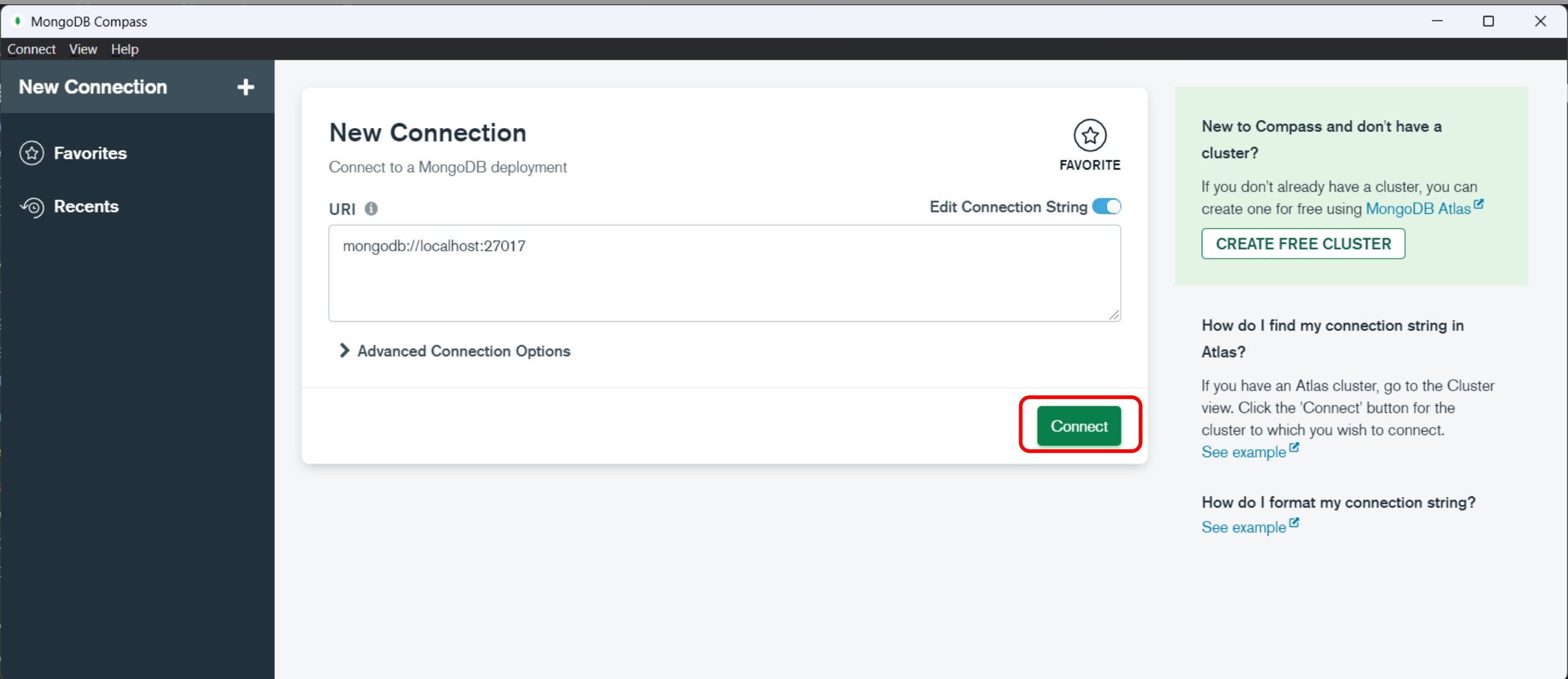
```
db.usuarios.find({"cidade":"Pelotas"}).sort({"nome":-1})
```



MongoDB Compass



MongoDB Compass



MongoDB Compass

MongoDB Compass - localhost:27017

Connect View Help

localhost:27017

3 DBS 3 COLLECTIONS

☆ FAVORITE

HOST
localhost:27017

CLUSTER
Standalone

EDITION
MongoDB 5.0.9 Community

{ } My Queries

⌵ Databases

🔍 Filter your data

▸ admin

▸ config

▸ local

+

>_MONGOSH

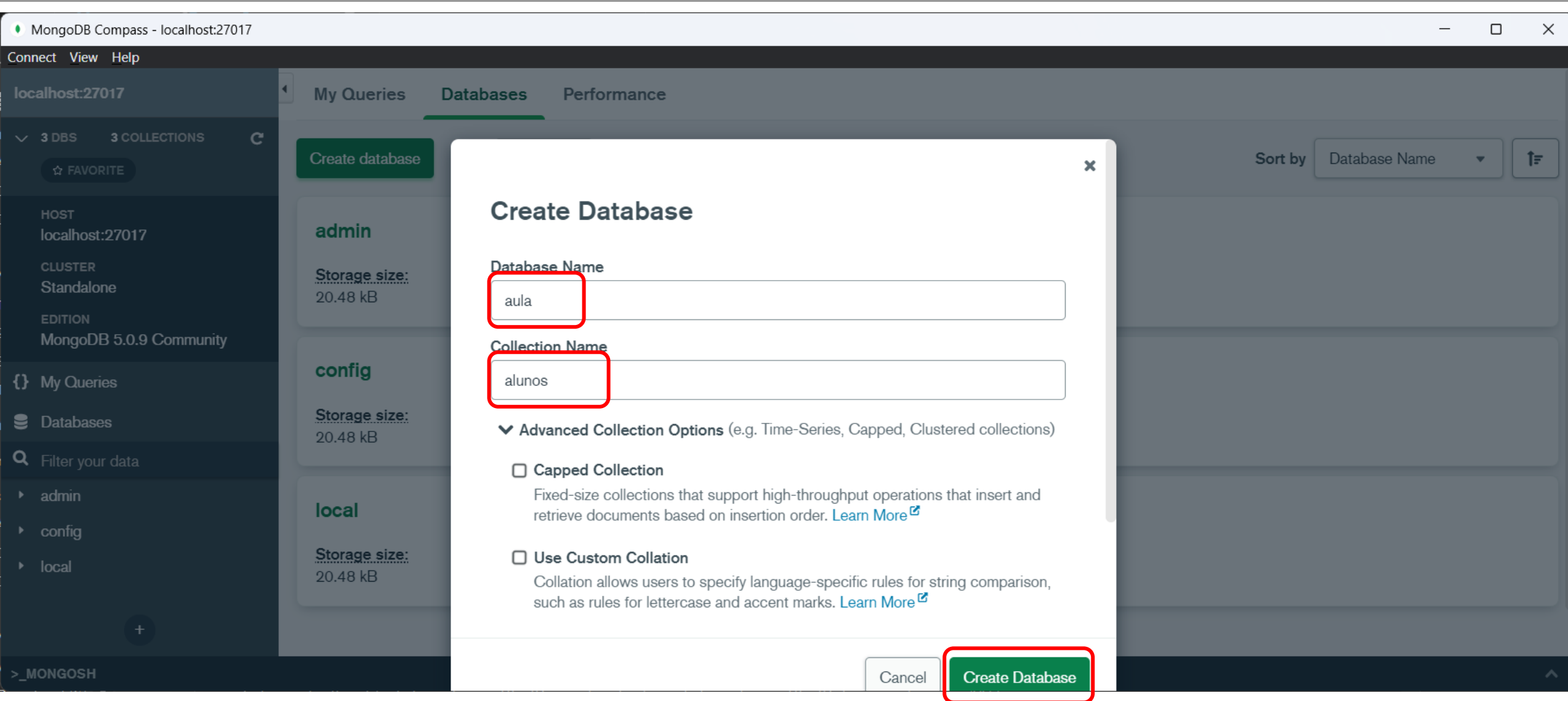
My Queries Databases Performance

Create database View

Sort by Database Name

admin			
<u>Storage size:</u> 20.48 kB	<u>Collections:</u> 1	<u>Indexes:</u> 1	
config			
<u>Storage size:</u> 20.48 kB	<u>Collections:</u> 1	<u>Indexes:</u> 2	
local			
<u>Storage size:</u> 20.48 kB	<u>Collections:</u> 1	<u>Indexes:</u> 1	

MongoDB Compass



MongoDB Compass

MongoDB Compass - localhost:27017

Connect View Help

localhost:27017

4 DBS 4 COLLECTIONS

☆ FAVORITE

HOST
localhost:27017

CLUSTER
Standalone

EDITION
MongoDB 5.0.9 Community

{ } My Queries

☰ Databases

🔍 Filter your data

▸ admin

▸ aula

▸ config

▸ local

My Queries Databases Performance

Create database

View



Sort by

Database Name



admin

Storage size:
20.48 kB

Collections:
1

Indexes:
1

aula

Storage size:
4.10 kB

Collections:
1

Indexes:
1

config

Storage size:
20.48 kB

Collections:
1

Indexes:
2

local

Storage size:
20.48 kB

Collections:
1

Indexes:
1

MongoDB Compass

MongoDB Compass - localhost:27017/aula



Connect View Help

localhost:27017

4 DBS 4 COLLECTIONS

☆ FAVORITE

HOST
localhost:27017

CLUSTER
Standalone

EDITION
MongoDB 5.0.9 Community

{ } My Queries

Databases

Filter your data

admin

aula + -

alunos

config

local

+

Collections

Create collection

View



Sort by

Collection Name



alunos

Storage size:
4.10 kB

Documents:
0

Avg. document size:
0 B

Indexes:
1

Total index size:
4.10 kB

MongoDB Compass

MongoDB Compass - localhost:27017/aula.alunos

Connect View Collection Help

localhost:27017

4 DBS 4 COLLECTIONS

☆ FAVORITE

HOST
localhost:27017

CLUSTER
Standalone

EDITION
MongoDB 5.0.9 Community

{ } My Queries

Databases

Filter your data

- admin
- aula
 - alunos
- config
- local

Documents
aula.alunos

aula.alunos

0 1
DOCUMENTS INDEXES

Documents Aggregations Schema Explain Plan Indexes Validation

FILTER { field: 'value' }

OPTIONS

FIND RESET ↺ ⋮

ADD DATA

Import File
Insert Document

VIEW



Displaying documents 0 - 0 of 0 < > REFRESH



This collection has no data

It only takes a few seconds to import data from a JSON or CSV file

Import Data

MongoDB Compass

MongoDB Compass - localhost:27017/aula.alunos

Connect View Help

localhost:27017

4 DBS 4 COLLECTIONS

☆ FAVORITE

HOST

localhost:27017

CLUSTER

Standalone

EDITION

MongoDB 5.0.9 Community

{ } My Queries

Databases

Filter your data

admin

aula

alunos

config

local

Documents

aula.alunos

aula.alunos

Documents

Aggregati

FILTER { field: 'value' }

ADD DATA

VIEW

Insert to Collection aula.alunos

VIEW {}

```
1 {  
2   "nome": "Ricardo", "idade": 18  
3 }
```

Cancel

Insert

0 1
DOCUMENTS INDEXES

OPTIONS

FIND

RESET

...

Displaying documents 0 - 0 of 0

< >

REFRESH

N or CSV file

MongoDB Compass

MongoDB Compass - localhost:27017/aula.alunos

Connect View Help

localhost:27017

4 DBS 4 COLLECTIONS

☆ FAVORITE

HOST

localhost:27017

CLUSTER

Standalone

EDITION

MongoDB 5.0.9 Community

{ } My Queries

Databases

Filter your data

admin

aula

alunos

config

local

Documents
aula.alunos

aula.alunos

1 1
DOCUMENTS INDEXES

Documents Aggregations Schema Explain Plan Indexes Validation

FILTER { field: 'value' }

OPTIONS

FIND

RESET

...

ADD DATA



VIEW



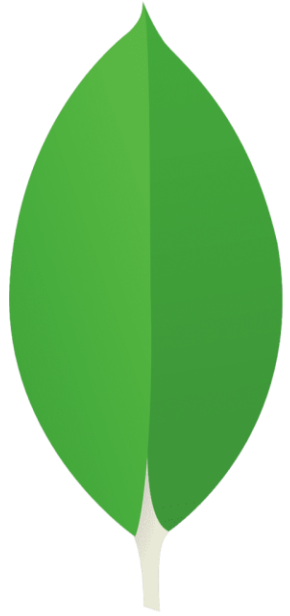
Displaying documents 0 - 1 of 1



REFRESH

```
nome: "Ricardo"  
idade: 18  
_id: ObjectId('62abd55749730743037d282d')
```

Bora Mongar?



mongoDB®