

# Passo a passo para instalação do SGBD MongoDB

Disciplina: Fundamentos em Engenharia de Dados

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- 1º) Utilizando o browser de sua preferência (Google Chrome, Firefox, etc.), acesse o endereço para download da ferramenta (<https://www.mongodb.com/download-center/community>).
- 2º) Selecione o Sistema operacional do computador que será instalado.
- 3º) Clique no botão de download, o download vai iniciar, não sendo necessário fazer o cadastro no site do MongoDB.

The screenshot shows the MongoDB Download Center interface. At the top, there is a navigation bar with links for Products, Solutions, Customers, and Resources. The main heading is "MongoDB Download Center". Below this, there are two tabs: "Cloud" and "Server". A large black arrow points to the "Server" tab, indicating step 2. Under the "Server" tab, there are two options: "MongoDB Community Server" (highlighted with a green bar) and "MongoDB Enterprise Server". Below these, there are two dropdown menus: "Version" (set to "4.2.0 (current release)") and "OS" (set to "Windows x64 x64"). A red rectangle highlights these two dropdowns, with a black arrow labeled "2º" pointing to it. Below the dropdowns, there is a "Package" dropdown set to "MSI" and a green "Download" button. A black arrow labeled "3º" points to the "Download" button. Below the "Download" button, there is a URL: "https://fastdl.mongodb.org/win32/mongodb-win32-x86\_64-2012plus-4.2.0-signed.msi". To the right of the "Download" button, there is a list of links: "Release notes", "Changelog", "binaries", "Installation instructions", "Download source (tgz)", and "Download source (zip)".

4º) Após o download, vá até a pasta onde o arquivo foi salvo e clique duas vezes sobre o arquivo de instalação.

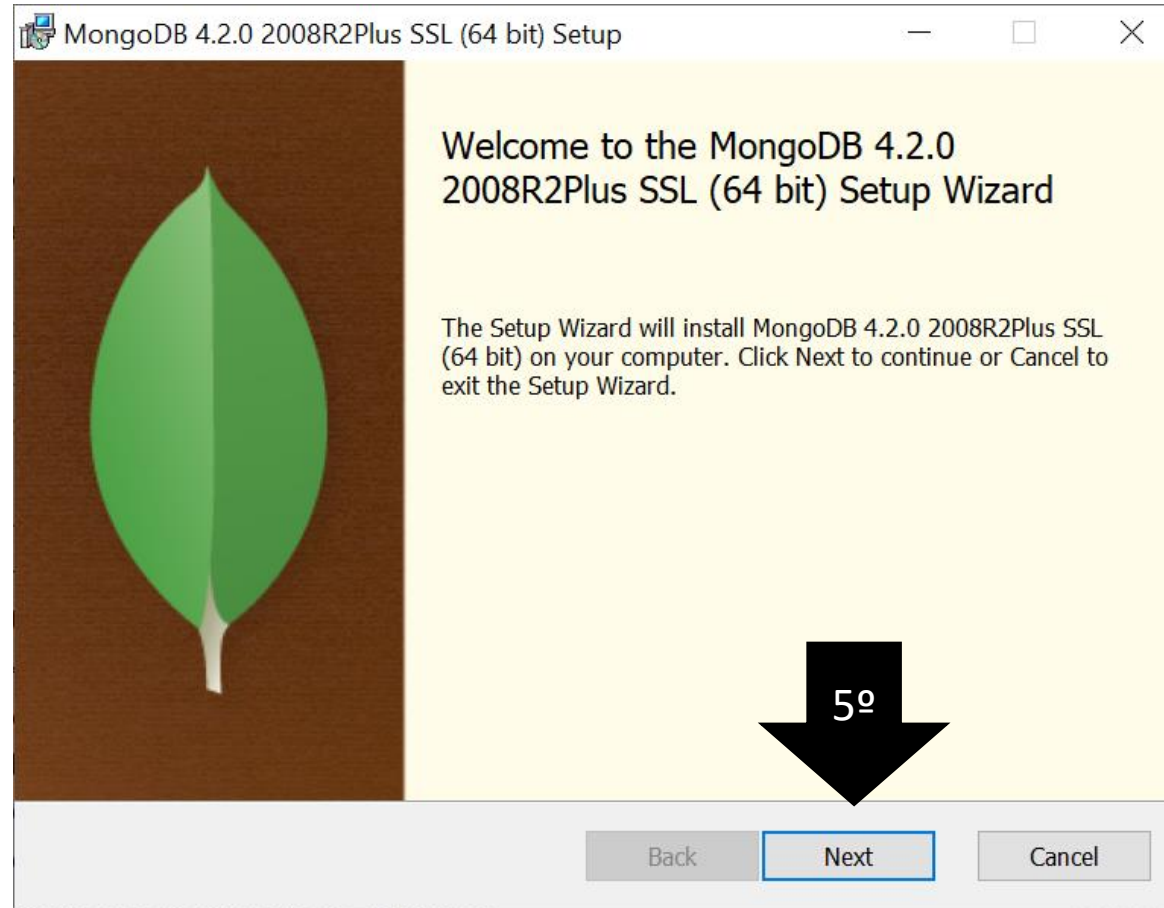
A instalação do MongoDB no Windows 10 é relativamente simples.

mongodb-win32-x86\_64-2012plus-4.2.0-signed.msi

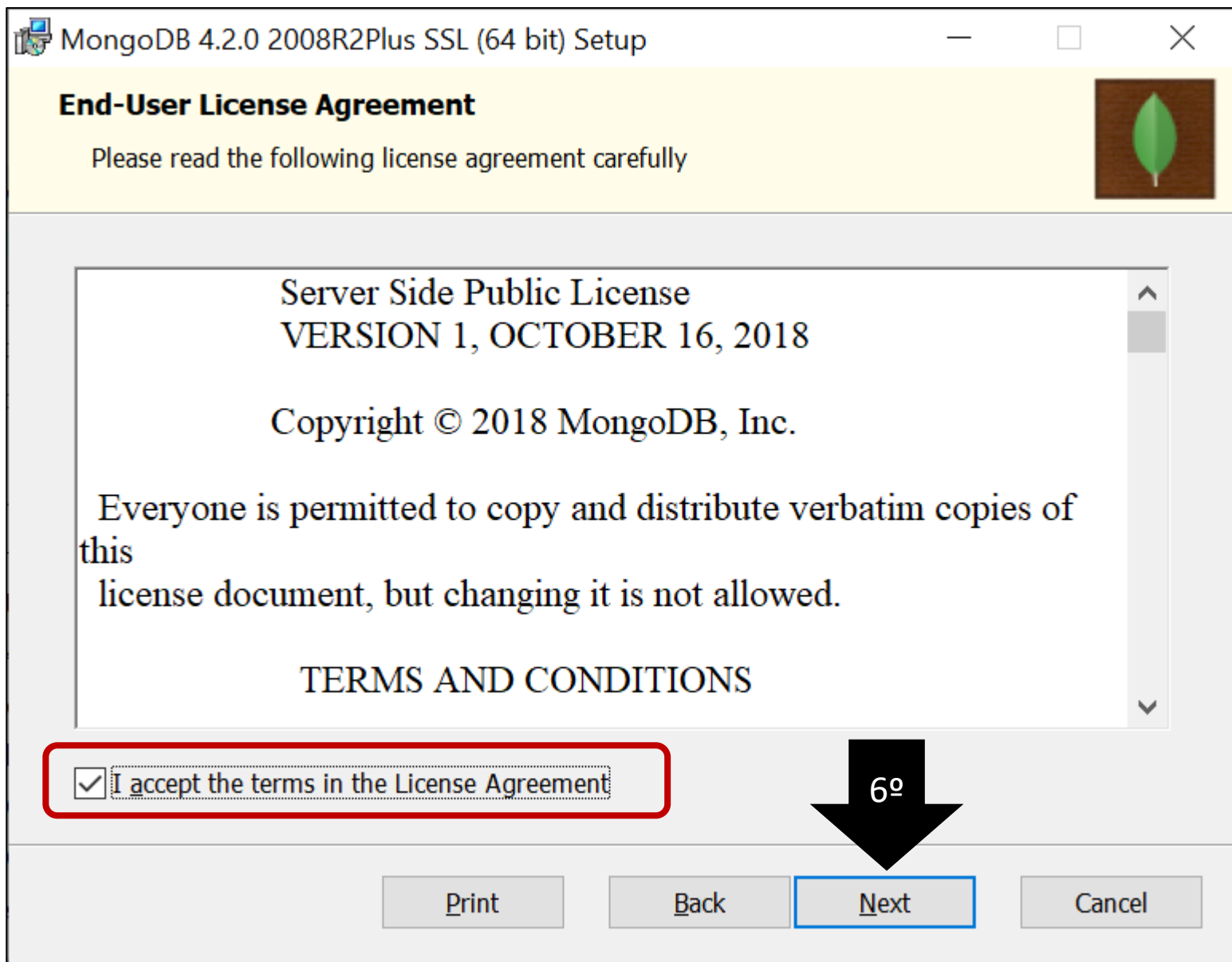
4º

Lembre-se que é necessário ter permissão de administrador para realizar a instalação.

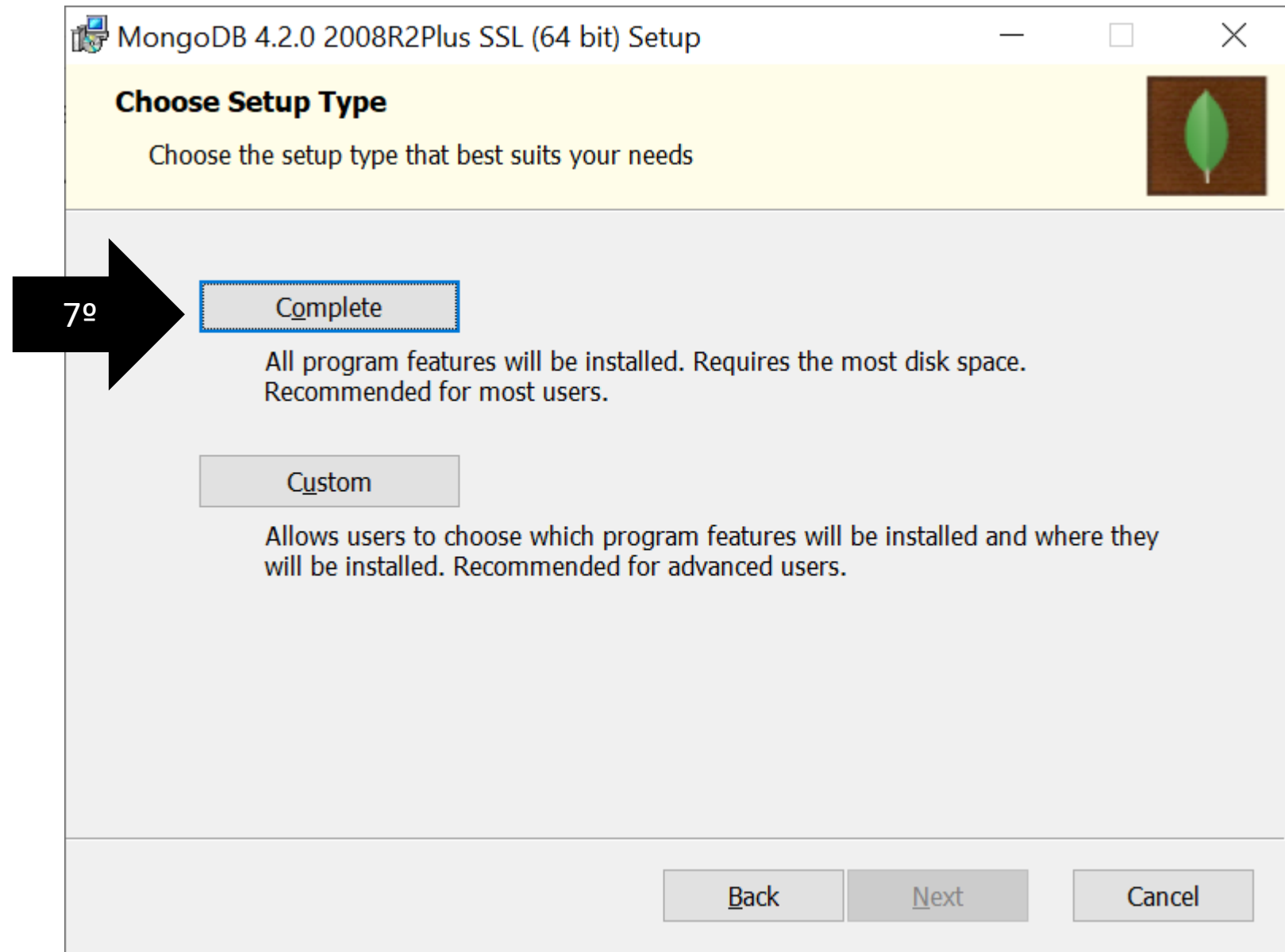
5º) A instalação será iniciada. Na primeira tela, clique em próximo (Next).



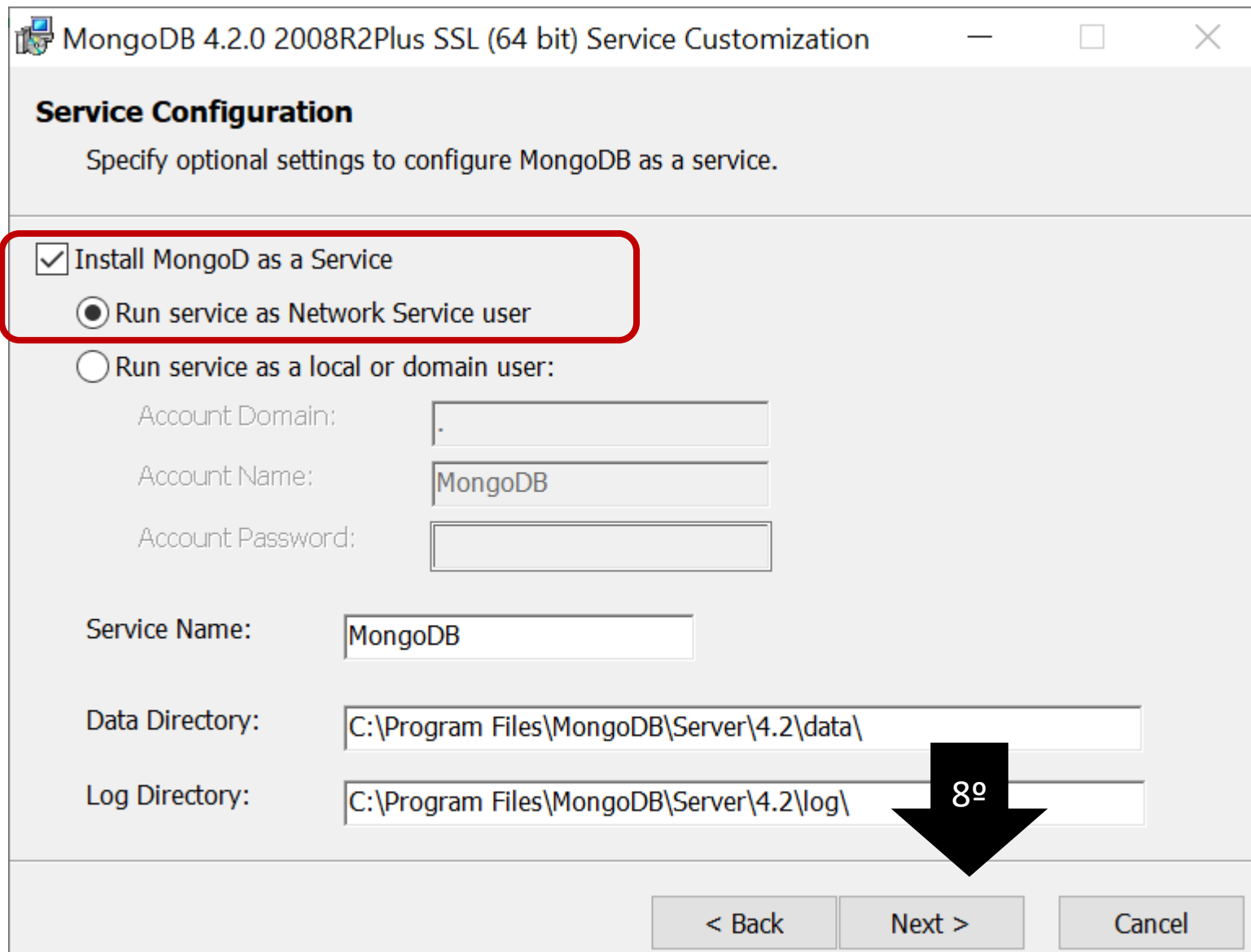
6º) Na tela seguinte, aceite os Termos da Licença, e clique em próximo (Next) novamente:



7º) Na tela seguinte vamos escolher o tipo de instalação. Como será nossa primeira instalação do software, vamos escolher a opção padrão, que é completa (Complete), a qual instalará todos os pacotes disponíveis. Para isso, clique no botão “Complete”:



8º) Selecione a opção de instalar MongoDB como um serviço (Install MongoDB as a Service). Verifique se os caminhos para os diretórios de log e dados, e clique em próximo (Next) novamente.



**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: MongoDB

Account Password:

Service Name: MongoDB

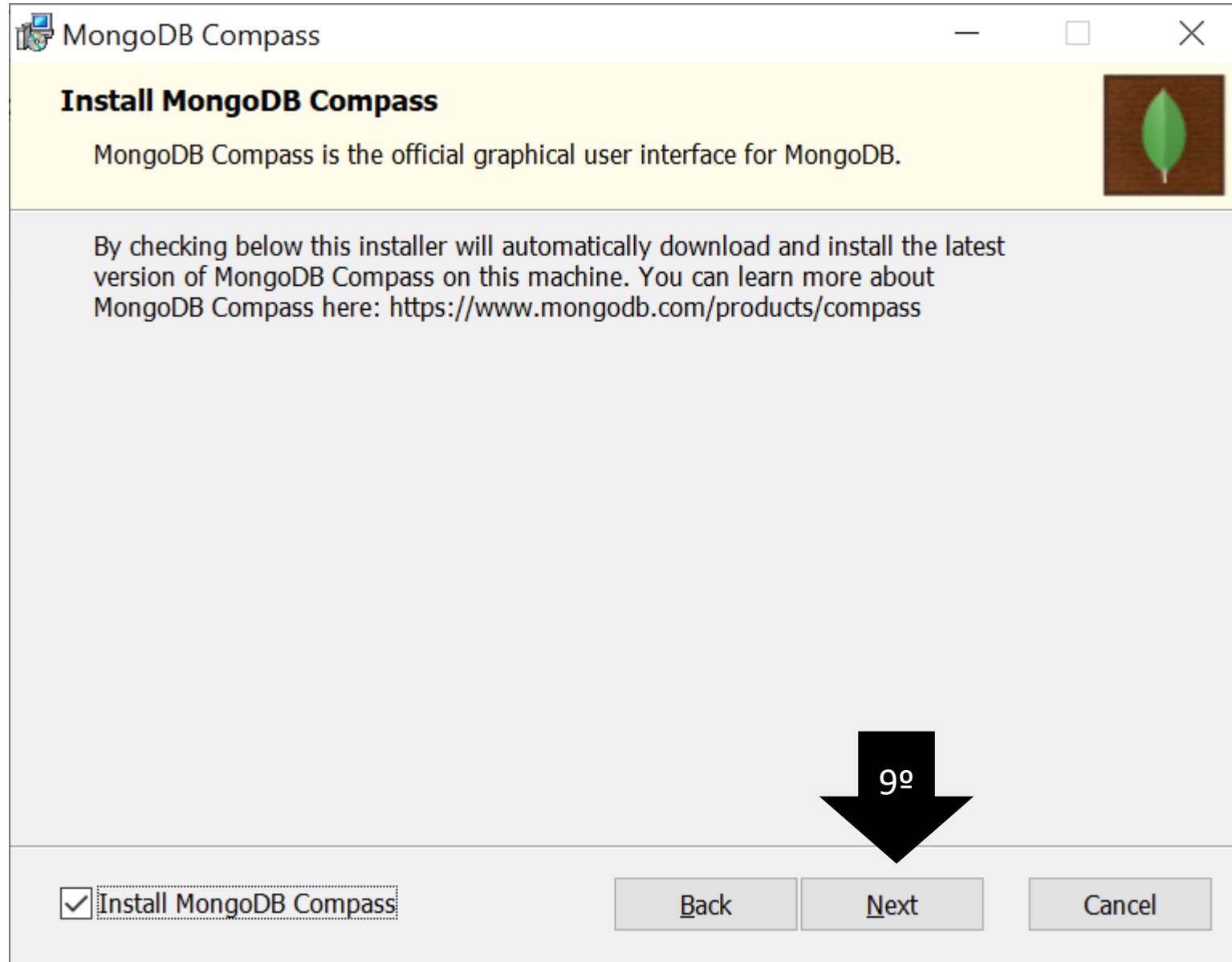
Data Directory: C:\Program Files\MongoDB\Server\4.2\data\

Log Directory: C:\Program Files\MongoDB\Server\4.2\log\

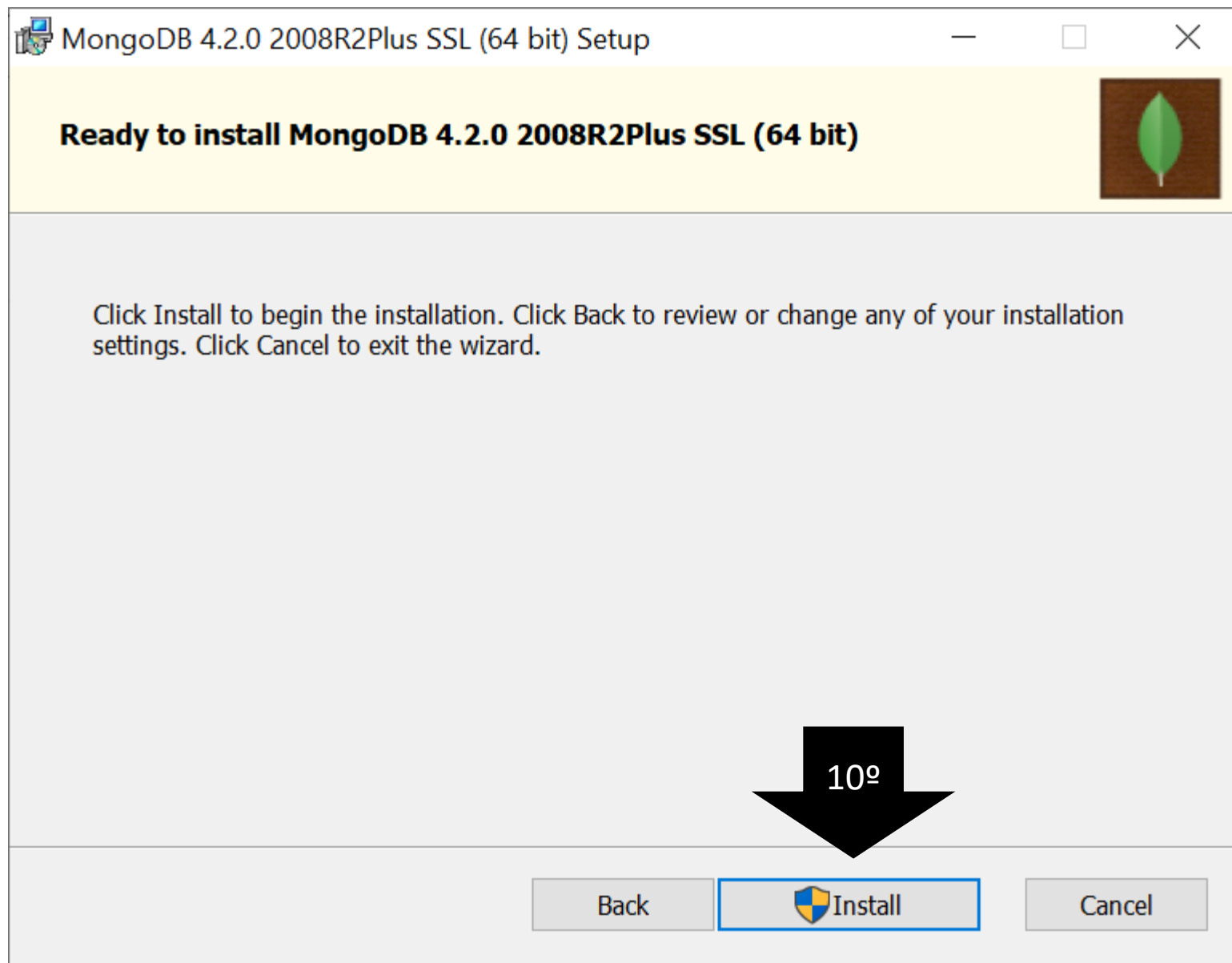
8º

< Back Next > Cancel

9º) Agora, selecione a opção “Install MongoDB Compass” e clique no botão próximo (Next).

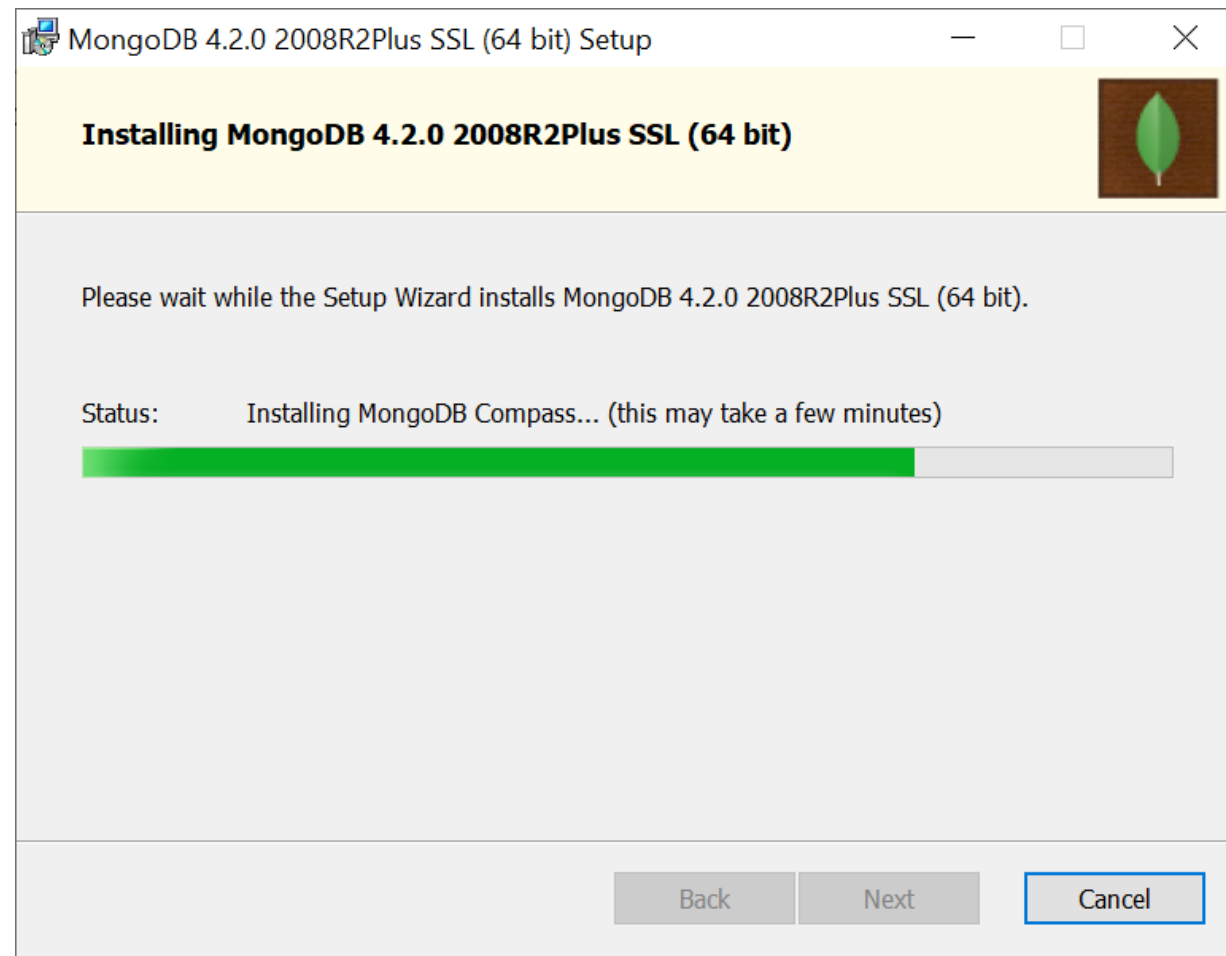
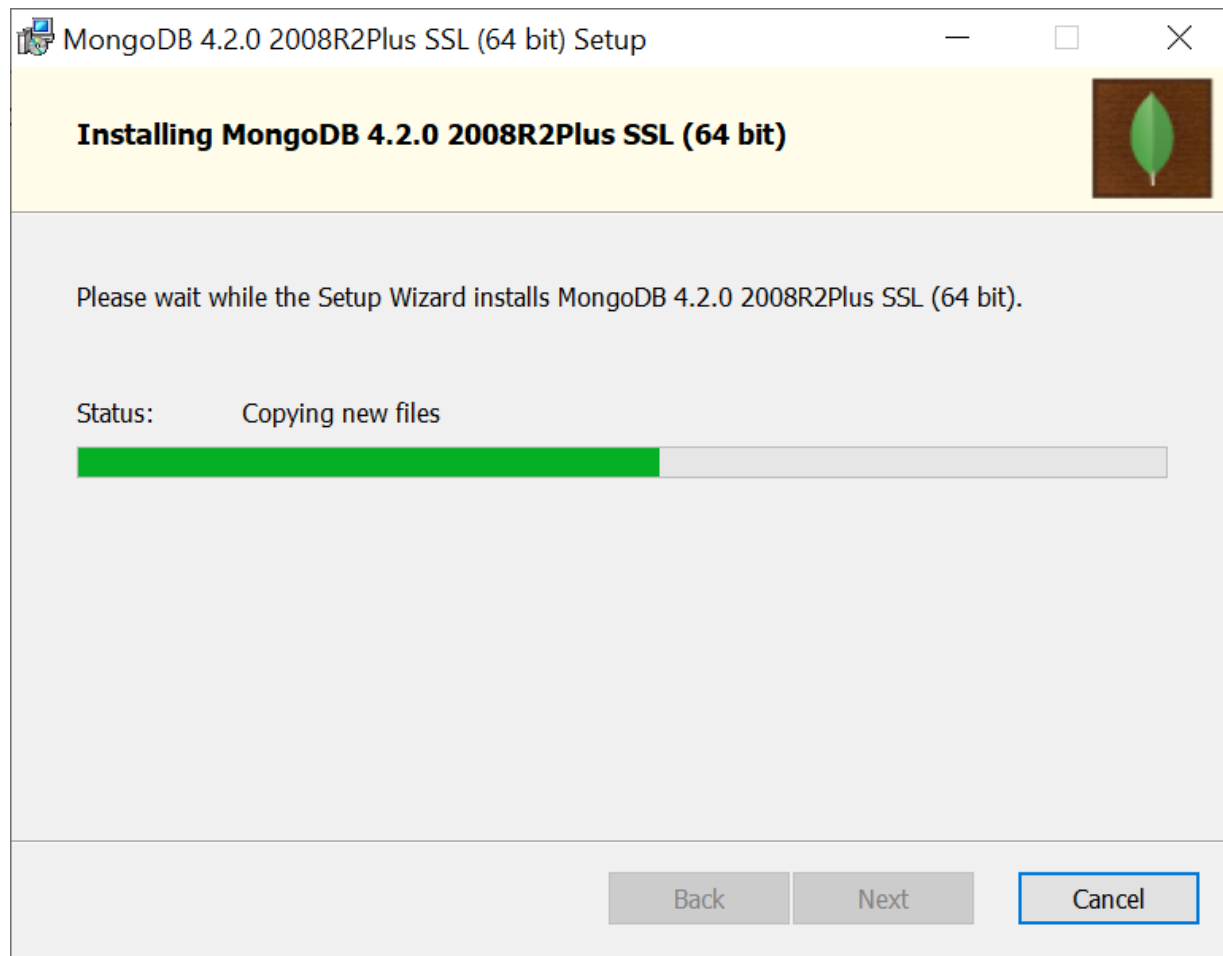


10º) Clique no botão instalar (Install). para que a instalação seja de fato iniciada.





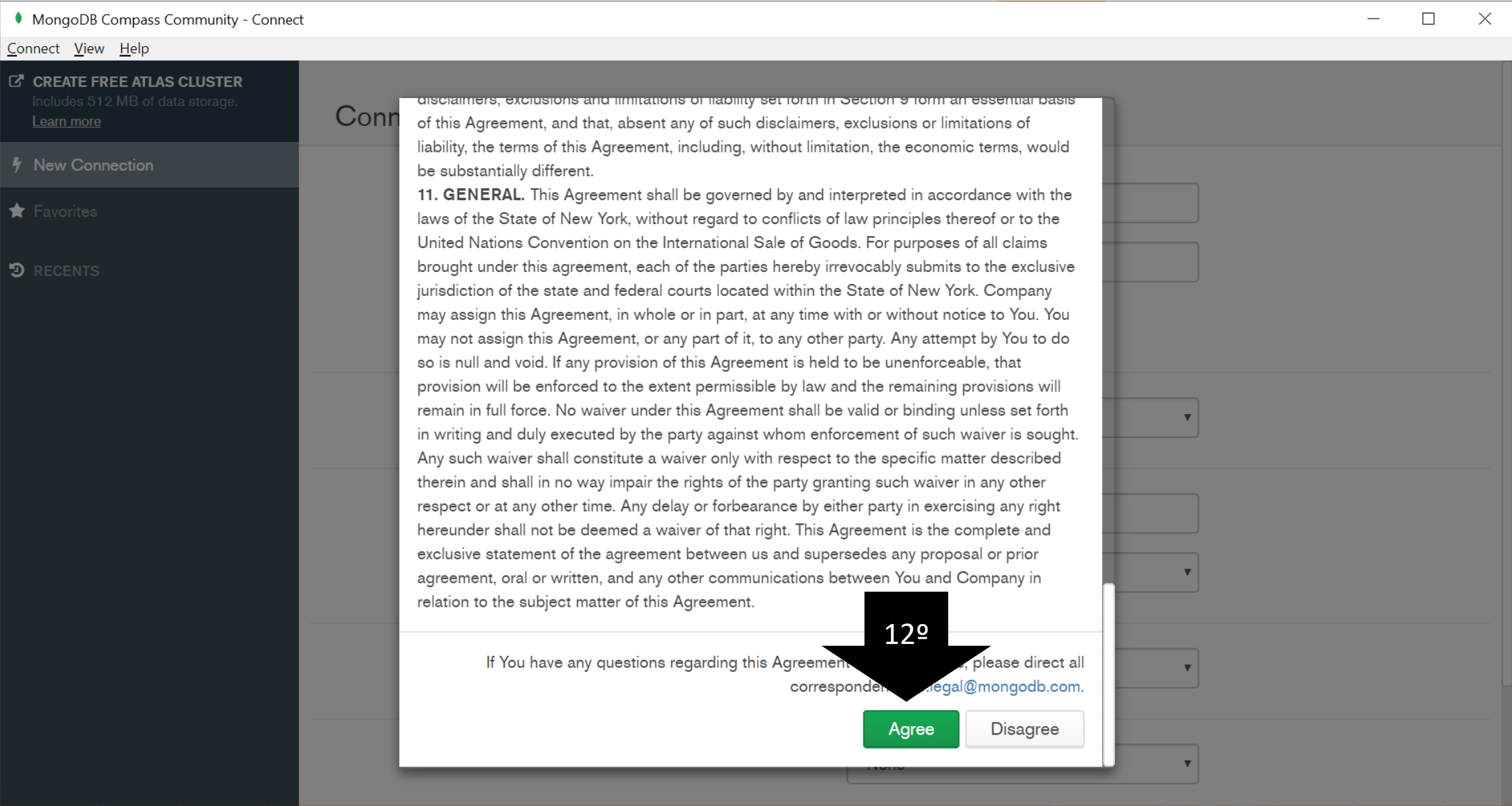
Aguarde enquanto a instalação tanto do MongoDB quanto do MongoDB Compass é realizada.



11º) Para finalizar a instalação e fechar o assistente, clique no botão finalizar (Finish).



12º) Quando a instalação do MongoDB Compass estiver finalizada ele será aberto automaticamente para você aceitar os termos de uso e realizar as configurações.





13º) Um tutorial de boas vindas será apresentado. Leia o tutorial para conhecer um pouco do MongoDB Compass.

Navegue pelo tutorial sempre clicando na opção próximo (Next).

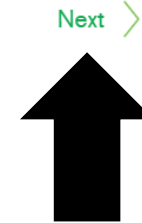
The screenshot shows the MongoDB Compass Community Connect window. The title bar reads "MongoDB Compass Community - Connect". The menu bar includes "Connect", "View", and "Help". The main content area displays a "Welcome to MongoDB Compass Community" message. On the left, a sidebar contains "CREATE FROM TEMPLATE" (with a sub-link "Includes 512 templates" and a "Learn more" link), "New Connection", "Favorites", and "RECENTS". The main area features a tutorial box titled "Welcome to MongoDB Compass Community" with the following content:

- Click on the instance area to get access to the list of databases and the performance charts.** (Points to the "localhost:27017" instance header)
- Use the filter box to find databases and collections. Regular expressions are supported, too.** (Points to the "mon|zip|^a" filter box)
- Select a database to create and delete collections.** (Points to the "mongodb" database in the list)
- Select a collection to get access to Schema, Documents, Indexes, Explain Plans and Document Validation.** (Points to the "citibike" collection in the list)

The sidebar lists the following databases and collections:

- localhost:27017 (Community version 3.4.0-rc5)
- 21 DBS 90 COLLECTIONS
- mon|zip|^a (filter)
- admin
- datasets
- zipcodes
- mongodb
- citibike
- enterprise
- fanclub

On the right, a section titled "Sidebar. Redesigned." explains the new navigation: "See with one glance what server you are connected to. Navigate between instance, database and collection level, with powerful filtering of your namespaces." Below this, a green "Next >" button is shown with a large black arrow pointing to it.



# Welcome to MongoDB Compass Community

Click the pen icon in the top right corner of a document to enter edit mode.

You can undo any modifications with the circular arrow icon.

new fields are green, changes are yellow, and deletions are red.

Dismiss the changes with the Cancel button or send them to the server with the Update button.

1	_id : ObjectID('572bb8222b288919b68abf5a')	ObjectID
2	tripduration : 379	Int32
3	start station id : 476	Int32
4	start station name : E 31 St & 3 Ave	String
5	end station id : 498	Int32
6	end station name : Broadway & W 32 St	String
7	bikeid : 17829	Int32
8	usertype : Subscriber	String
9	birth year : 1969	Int32
10	gender : 1	Int32
11	start station location : Object	
12	end station location : Object	
13	start time : Fri Jan 01 2016 11:00:45 GMT+1100 (AEDT)	
14	stop time : Fri Jan 01 2016 11:07:04 GMT+1100 (AEDT)	
15	modified : true	Boolean

Document Modified. CANCEL UPDATE

## Interactive Document Editor.

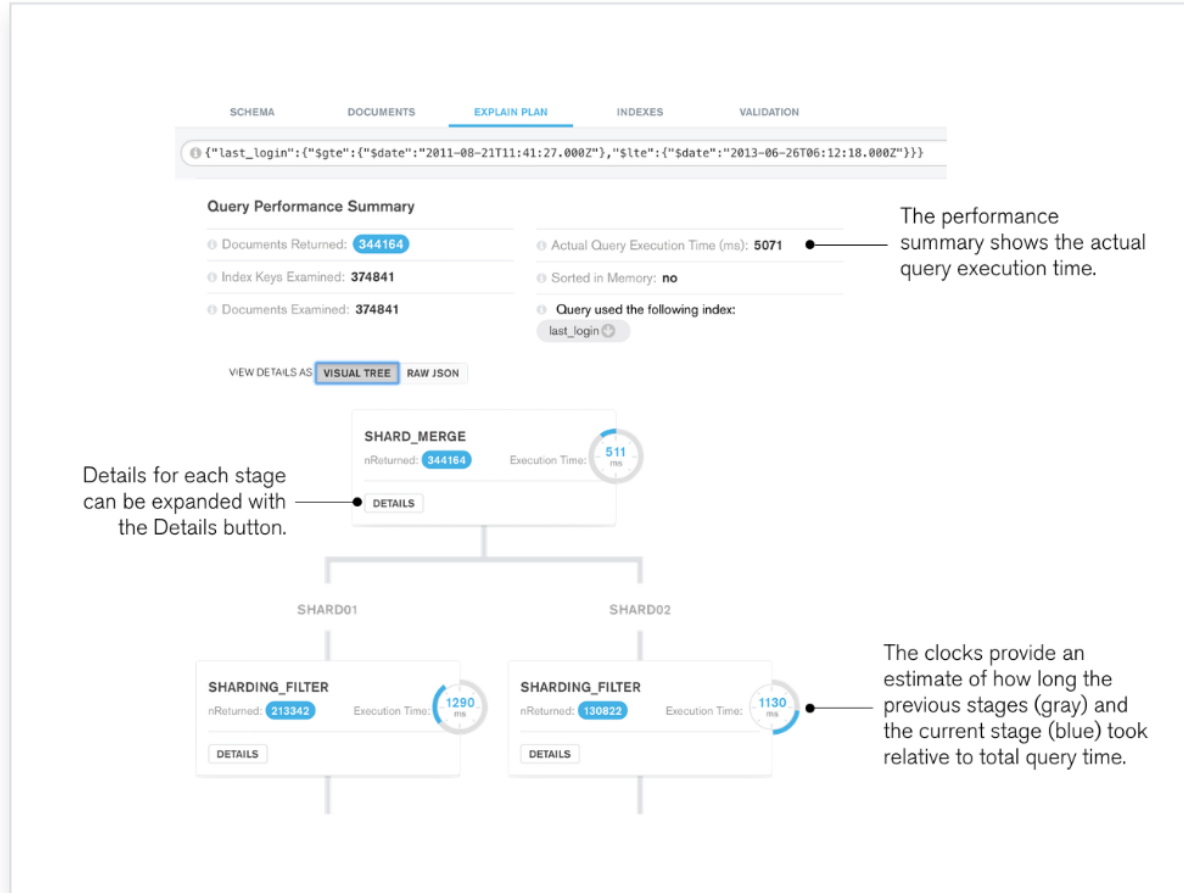
Modify existing documents with greater confidence using the intuitive visual editor, or insert new documents and clone or delete existing ones in just a few clicks.

< Previous

Next >



# Welcome to MongoDB Compass Community



## Visual Explain Plans.

Know how queries are running through an easy-to-understand GUI that helps you identify and resolve performance issues.

[< Previous](#)

[Next >](#)



# Welcome to MongoDB Compass Community

Create new indexes via the Create Index button.

Delete an index by clicking the trash can icon.

CREATE INDEX				
SCHEMA	DOCUMENTS	EXPLAIN PLAN	INDEXES	VALIDATION
Name and Definition	Type	Size	Usage	Properties
_id_1_gender_1 _id gender	REGULAR	53.7 MB	0 since Fri Nov 25 2016	COMPOUND
email_1_favorite_features_1 email favorite_features	REGULAR	52.1 MB	0 since Fri Nov 25 2016	COMPOUND
_id_ _id	REGULAR	39.6 MB	13 since Fri Nov 25 2016	UNIQUE
last_login_hashed last_login hashed	HASHED	37.3 MB	0 since Fri Nov 25 2016	SPARSE
name_text_address.city_text _fts text _ftsx	TEXT	34.4 MB	0 since Fri Nov 25 2016	COMPOUND

The index type is shown in the Type column. Click the info circle for more information about the given index type.

Index Usage shows you how often an index has been used since the last server restart. It is only available for MongoDB version 3.2 and greater.

## Index Management.

Understand the type and size of your indexes, their utilization and special properties. Add and remove indexes at the click of a button.

< Previous

Next >



MongoDB Compass Community - Connect

ConnectViewHelp

CREATE FR

Includes 51

Learn more

New Contr

Favorites

RECENTS

# Welcome to MongoDB Compass Community

Values are now validated inline based on their type.

```

1  _id: ObjectId('50317ff7fe4dce3731b54ab0')
2  favorite_feature: "Document Validation "
3  membership_status: "PENDING "
4  name: "Ellie Harrison "
5  gender: "female "
6  age: 9999999999
7  phone_no: "+17232403234 "
8  last_login: July 29 2017
9  > address: Object
10 > last_position: Object
11  email: "sidewalkenforcer4@aim.com "

```

Update not permitted while document contains errors. CANCEL UPDATE

Improved type conversion: pick any type from the dropdown to convert a value to the chosen type.

ObjectID
String
String
String
String
Int32
String
Date
Object
Object
String

Flexible date inputs: Compass tries to interpret the entered value as a date.

## Improved CRUD

Better editing with validation of individual BSON types.

< Previous

Next >

↑



[Connect](#)
[View](#)
[Help](#)

Includes 51...

Learn more

# Welcome to MongoDB Compass Community

To connect to a Replica Set, enter the Replica Set name in the connect dialog.

Replica Set Name

replset-us-east

Read Preference

✓ Primary

Primary Preferred

Secondary

Secondary Preferred

Nearest

SSL

Choose a read preference from the dropdown menu. On fail-over, Compass will automatically connect you to a new member of the Replica Set.

## Deployment Awareness

Replica set aware connections allow for continued use during replica set configuration changes and provides additional information of the connected cluster.

<

Previous

Next

>

17

14º) Ao final do tutorial você esta apto a iniciar. Clique na opção “Get Started”.

CREATE FROM TEMPLATE

Includes 512 documents

Learn more

New Connection

Favorites

RECENTS

Connect

View

Help

# Welcome to MongoDB Compass Community

Open the query history with this icon.

Indexes 2

TOTAL SIZE 498.1MB

AVG. SIZE 249.1MB

ONS

FIND

RESET

🔍

Showing documents 1-20

🔄

🗑

Recent and favorite queries are stored in the query history panel

MongoDB 3.4.9 Community

PAST QUERIES RECENT FAVORITES

Fri Oct 13 2017 17:15:12 GMT-0400 (EDT)

FILTER

{

stars: 5

}

SORT

{

business\_id: 1

}

SKIP

5

LIMIT

10

Fri Oct 13 2017 17:14:24 GMT-0400 (EDT)

FILTER

{

text: 'This is the place'

}

Query History

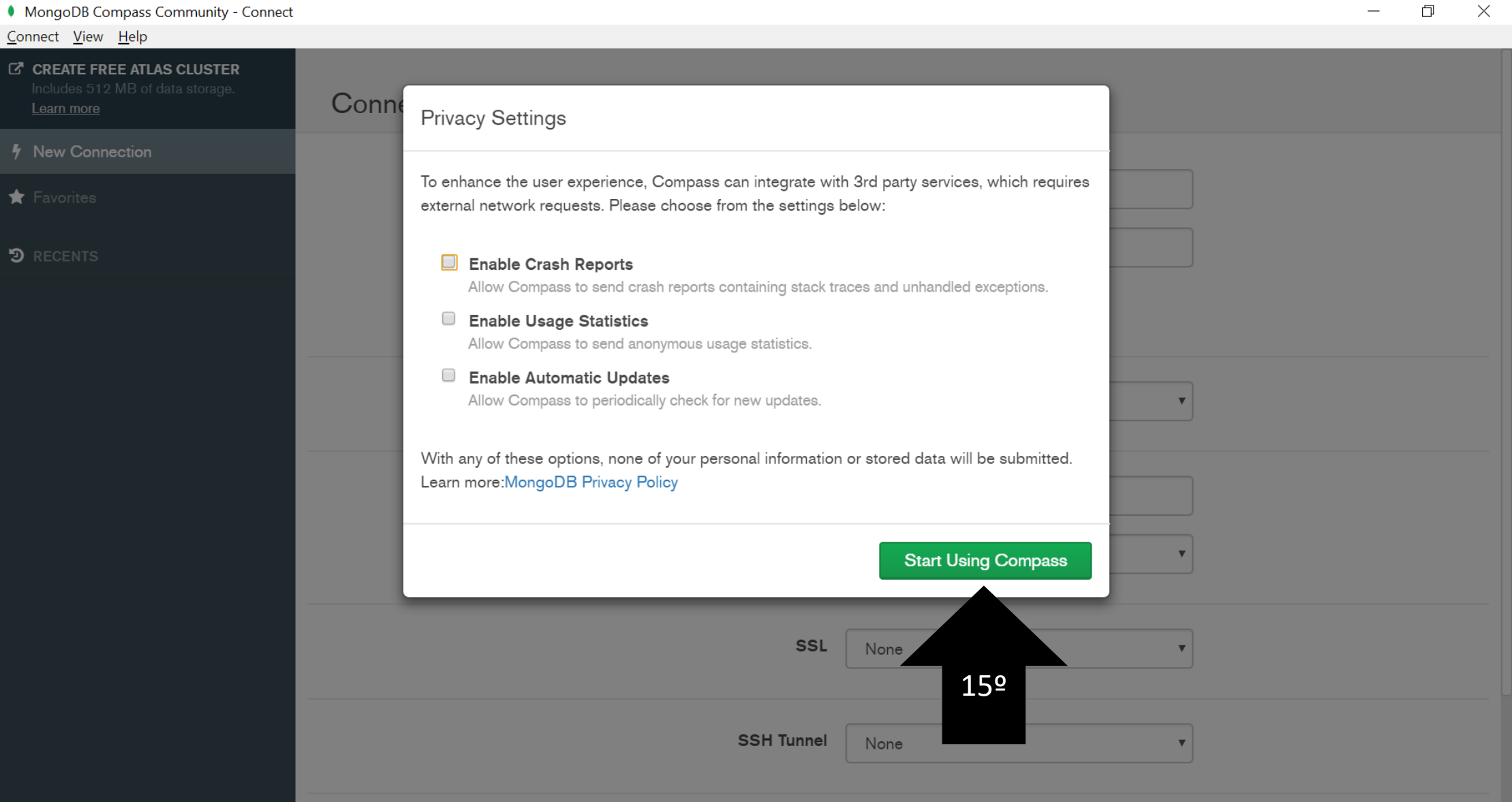
Easily access and manage executed queries and save favorites for often executed queries.

< Previous

Get Started

14º

15º) Para iniciar selecione as opções de privacidade desejada. No meu caso eu preferi manter tudo desabilitado. Marque as opções desejadas e depois clique em “Start Using Compass”.



16º) Proceda as configurações do seu SGBD MongoDB. E conecte-se ao SGBD.

Includes 512 MB of data storage.

Learn more

Connect to Host

Hostname

localhost

Port

27017

SRV Record

☐

Authentication

None

Replica Set Name

Read Preference

Primary

SSL

None

SSH Tunnel

None

Favorite Name

e.g. Shared Dev, QA Box, PRODUCTION

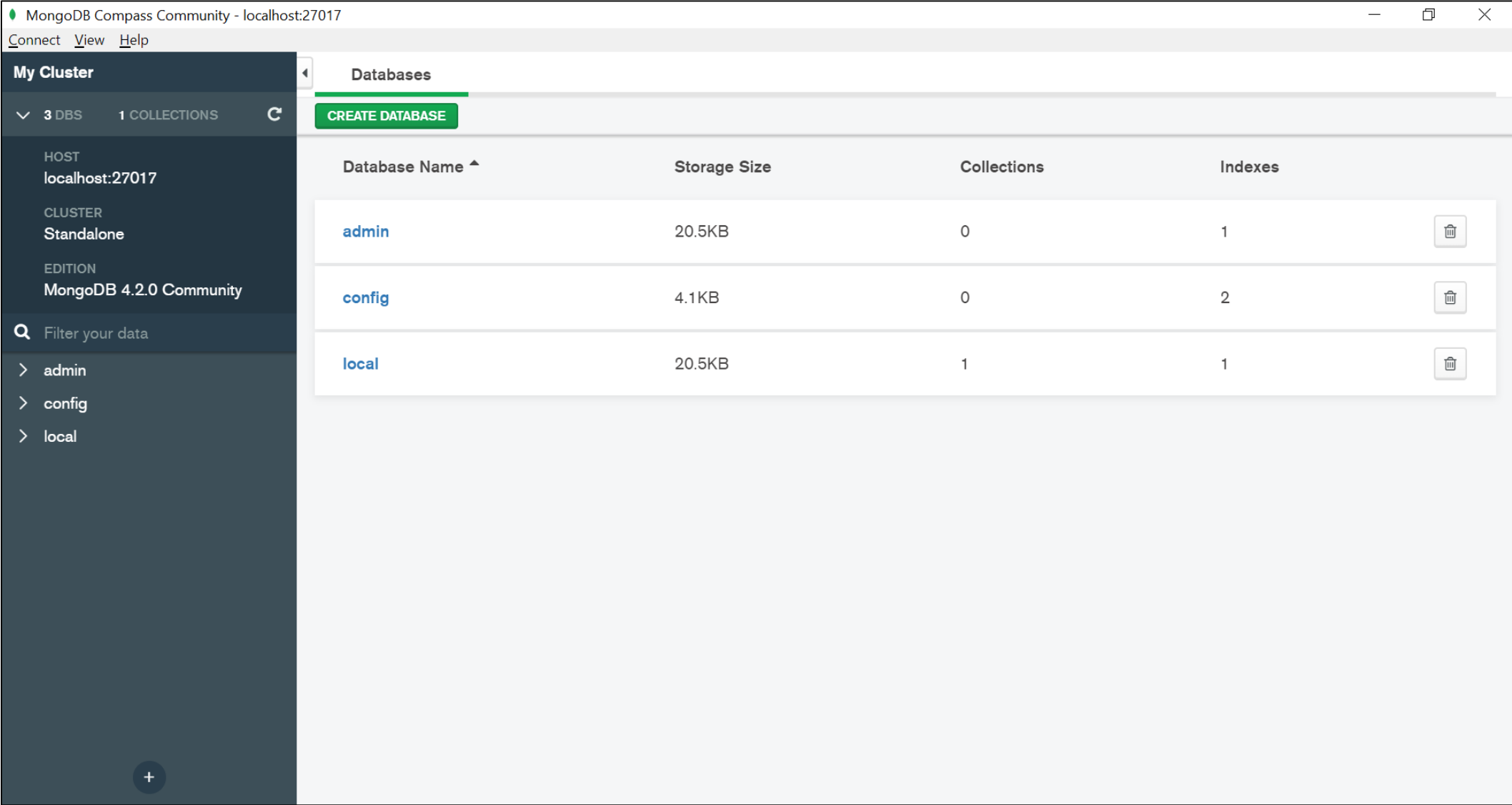
CONNECT

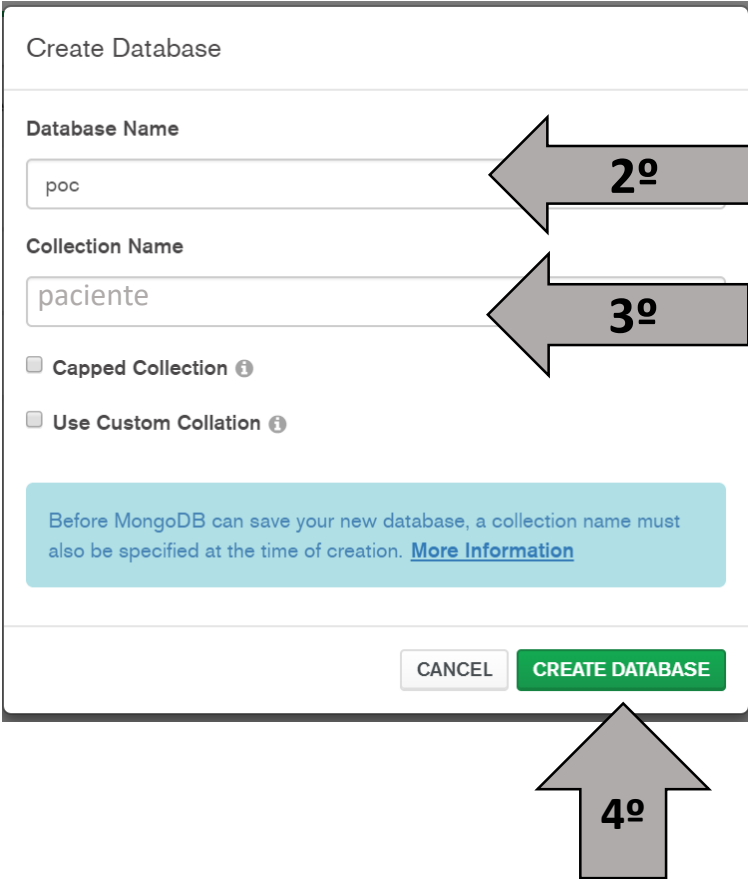
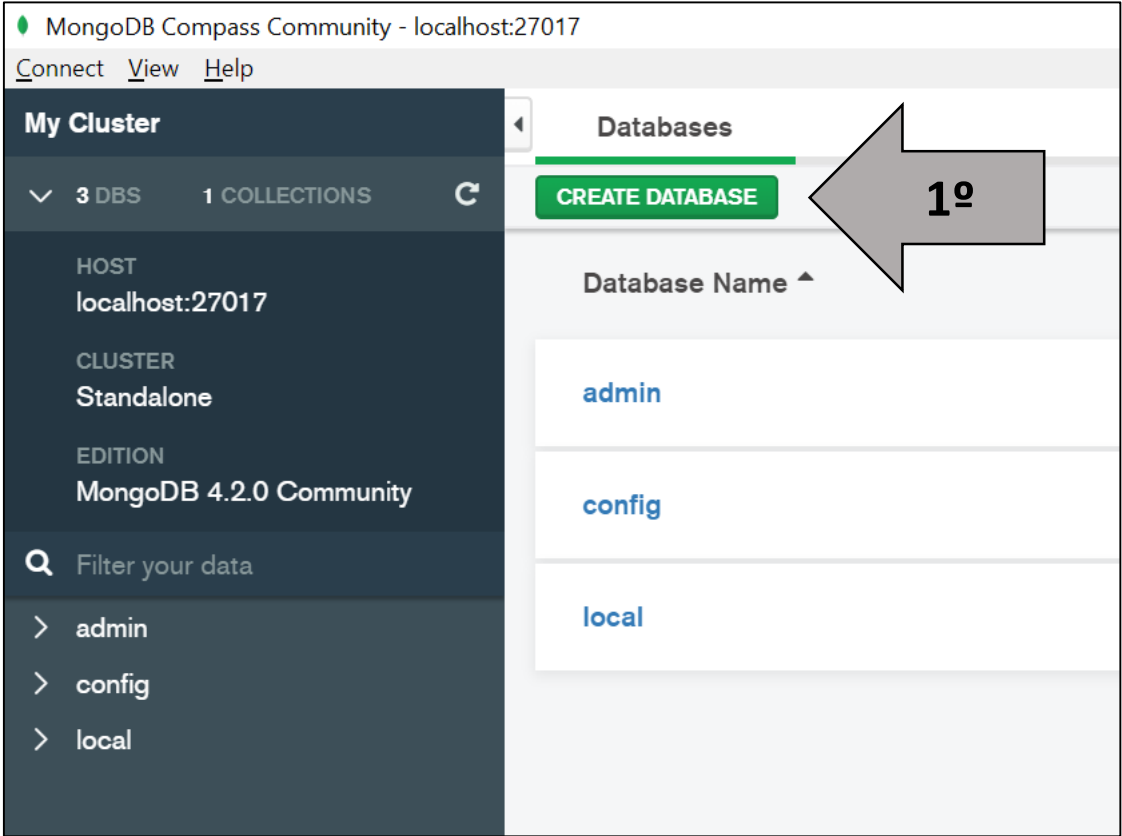
Com ou sem autenticação por usuário e senha. Vou manter se autenticação, mas se for seu servidor você deve definir usuário e senha.

Nome da máquina que esta seu SGBD MongoDB, no meu caso instalei o compass na mesma máquina que o SGBD, por isso é localhost mesmo.

20

17º) Após conectar no servidor do SGBD MongoDB usando o MongoDB Compass, será possível ver os bancos de dados criados com a instalação, conforme figura abaixo. Ok, seu SGBD MongoDB esta instalado e sua interface gráfica para acesso ao MongoDB também esta instalada.





### My Cluster

3 DBS
1 COLLECTIONS

HOST

localhost:27017

CLUSTER

Standalone

EDITION

MongoDB 4.2.0 Community

Filter your data

- > admin
- > config
- > local
- > poc

Databases

CREATE DATABASE

Database Name ^	Storage Size	Collections	Indexes	
admin	20.5KB	0	1	
config	24.6KB	0	2	
local	20.5KB	1	1	
poc	4.1KB	1	1	

**My Cluster**

3 DBS
1 COLLECTIONS

HOST  
localhost:27017

CLUSTER  
Standalone

EDITION  
MongoDB 4.2.0 Community

Filter your data

> admin

> config

> local

poc

paciente

Collections

CREATE COLLECTION

Collection Name	Documents	Avg. Document Size	Total Document Size	Num. Indexes	Total Index Size	Properties
paciente	0	-	0.0 B	1	4.1 KB	



**My Cluster**

3 DBS 1 COLLECTIONS

HOST  
localhost:27017

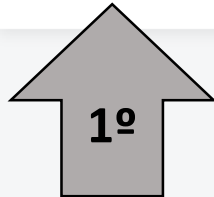
CLUSTER  
Standalone

EDITION  
MongoDB 4.2.0 Community

Filter your data

- admin
- config
- local
- poc
- paciente

Collections							
CREATE COLLECTION							
Collection Name	Documents	Avg. Document Size	Total Document Size	Num. Indexes	Total Index Size	Properties	
paciente	0	-	0.0 B	1	4.1 KB		



MongoDB Compass Community - localhost:27017/poc.paciente

Connect View Collection Help

**My Cluster**

3 DBS 1 COLLECTIONS

HOST  
localhost:27017

CLUSTER  
Standalone

EDITION  
MongoDB 4.2.0 Community

Filter your data

- admin
- config
- local
- poc
  - paciente

poc.paciente Documents

**poc.paciente**

DOCUMENTS	TOTAL SIZE	AVG. SIZE	INDEXES	TOTAL SIZE	AVG. SIZE
0	0B	0B	1	4.0KB	4.0KB

Documents Aggregations Explain Plan Indexes

**INSERT DOCUMENT** VIEW LIST TABLE

Displaying documents 0 - 0 of N/A

**1º**

**My Cluster**

3 DBS 1 COLLECTIONS

HOST  
localhost:27017

CLUSTER  
Standalone

EDITION  
MongoDB 4.2.0 Community

Filter your data

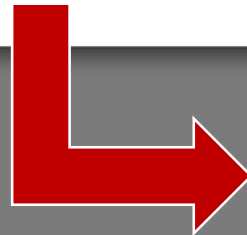
- admin
- config
- local
- poc
- paciente

### Insert Document

1	_id : ObjectId("5d812f66f38d8851e0e831f9")	ObjectId
2	nomePaciente : " "	String

1º

CANCEL INSERT



### Insert Document

1	_id : ObjectId("5d812f66f38d8851e0e831f9")	ObjectId
2	nomePaciente : "José Silva"	String

2º

CANCEL INSERT

3º

MongoDB Compass Community - localhost:27017/poc.paciente

Connect View Collection Help

**My Cluster**

3 DBS 1 COLLECTIONS

HOST  
localhost:27017

CLUSTER  
Standalone

EDITION  
MongoDB 4.2.0 Community

Filter your data

admin

config

poc.paciente Documents

Document

FILTER

INSERT DOCUMENT

**Insert Document**

1	_id	: ObjectId("5d81325ef38d8851e0e831fb ")	ObjectId
2	nomePaciente	: "Maria Souza "	String
3	dataNascimento	: 1989-01-15T02:00:00.000+00:00	Date ▼
4	endereco	: "Av. JK nº 1002 "	String

CANCEL INSERT

MongoDB Compass Community - localhost:27017/poc.paciente

Connect View Collection Help

**My Cluster**

3 DBS 1 COLLECTIONS

HOST  
localhost:27017

CLUSTER  
Standalone

EDITION  
MongoDB 4.2.0 Community

Filter your data

- admin
- config
- local
- poc
- paciente

poc.paciente Documents

**poc.paciente**

DOCUMENTS 2 TOTAL SIZE 159B AVG. SIZE 80B INDEXES 1 TOTAL SIZE 20.0KB AVG. SIZE 20.0KB

Documents Aggregations Explain Plan Indexes

**1º**

FILTER {nomePaciente:"José Silva"}

OPTIONS FIND RESET

INSERT DOCUMENT VIEW LIST TABLE

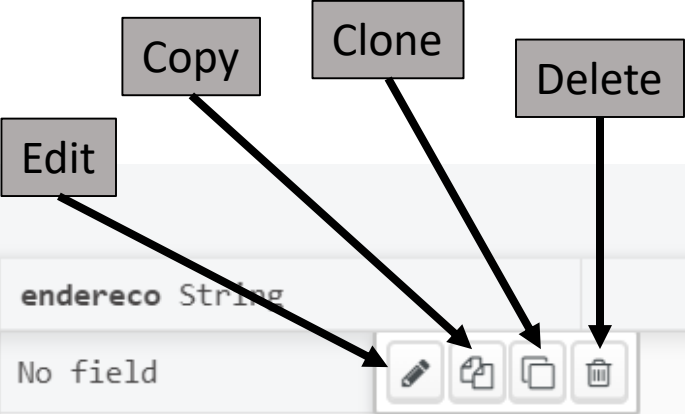
Displaying documents 1 - 1 of 1

**2º**

paciente

	_id ObjectId	nomePaciente String
1	5d813013f38d8851e0e831fa	"José Silva"

**3º**



🏠

paciente

	<code>_id</code> ObjectId	<code>nomePaciente</code> String	<code>dataNascimento</code> Date	<code>endereco</code> String
1	5d813013f38d8851e0e831fa	"José Silva"	No field	No field
2	5d81325ef38d8851e0e831fb	"Maria Souza"	<div>José Silva</div> 989-01-15T02:00:00.000+00:00	"Av. JK nº 1002"

MongoDB Compass Community - localhost:27017/poc.paciente

Connect View Collection Help

**My Cluster**

3 DBS 1 COLLECTIONS

HOST  
localhost:27017

CLUSTER  
Standalone

EDITION  
MongoDB 4.2.0 Community

Filter your data

admin

config

local

poc

paciente

poc.paciente Documents

**poc.paciente**

DOCUMENTS 2 TOTAL SIZE 159B AVG. SIZE 80B INDEXES 1 TOTAL SIZE 20.0KB AVG. SIZE 20.0KB

Documents Aggregations Explain Plan Indexes

FILTER OPTIONS FIND RESET

INSERT DOCUMENT VIEW LIST TABLE

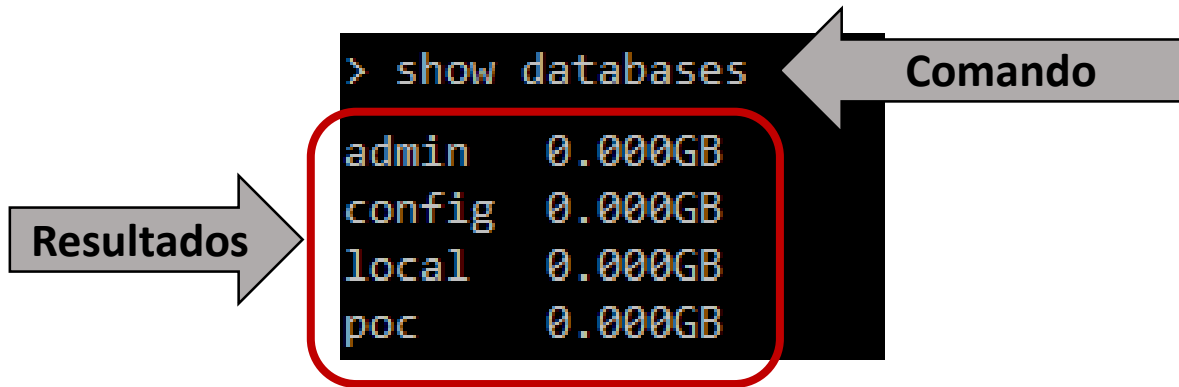
Displaying documents 1 - 2 of 2

paciente

	_id ObjectId	nomePaciente String	dataNascimento Date	endereco String
1	5d813013f38d8851e0e831fa	"José Silva"	No field	"Rua Campos Sales" String
Document Modified. CANCEL UPDATE				
2	5d81325ef38d8851e0e831fb	"Maria Souza"	1989-01-15T02:00:00.000+00:00	"Av. JK nº 1002"

1º

2º



```

> use workshop
switched to db workshop

> show databases
admin    0.000GB
config   0.000GB
local    0.000GB
poc      0.000GB
  
```