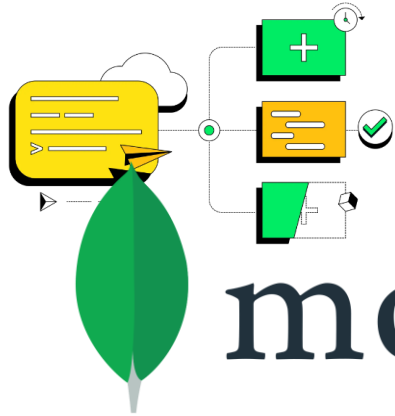


Banco de dados não relacionais



Instalação mongoDB® &

MongoDB Shell (`mongosh`)

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ricardo.mendonca@online.uscs.edu.br

Prof. Me. Renato Carioca Duarte
renato.duarte@online.uscs.edu.br

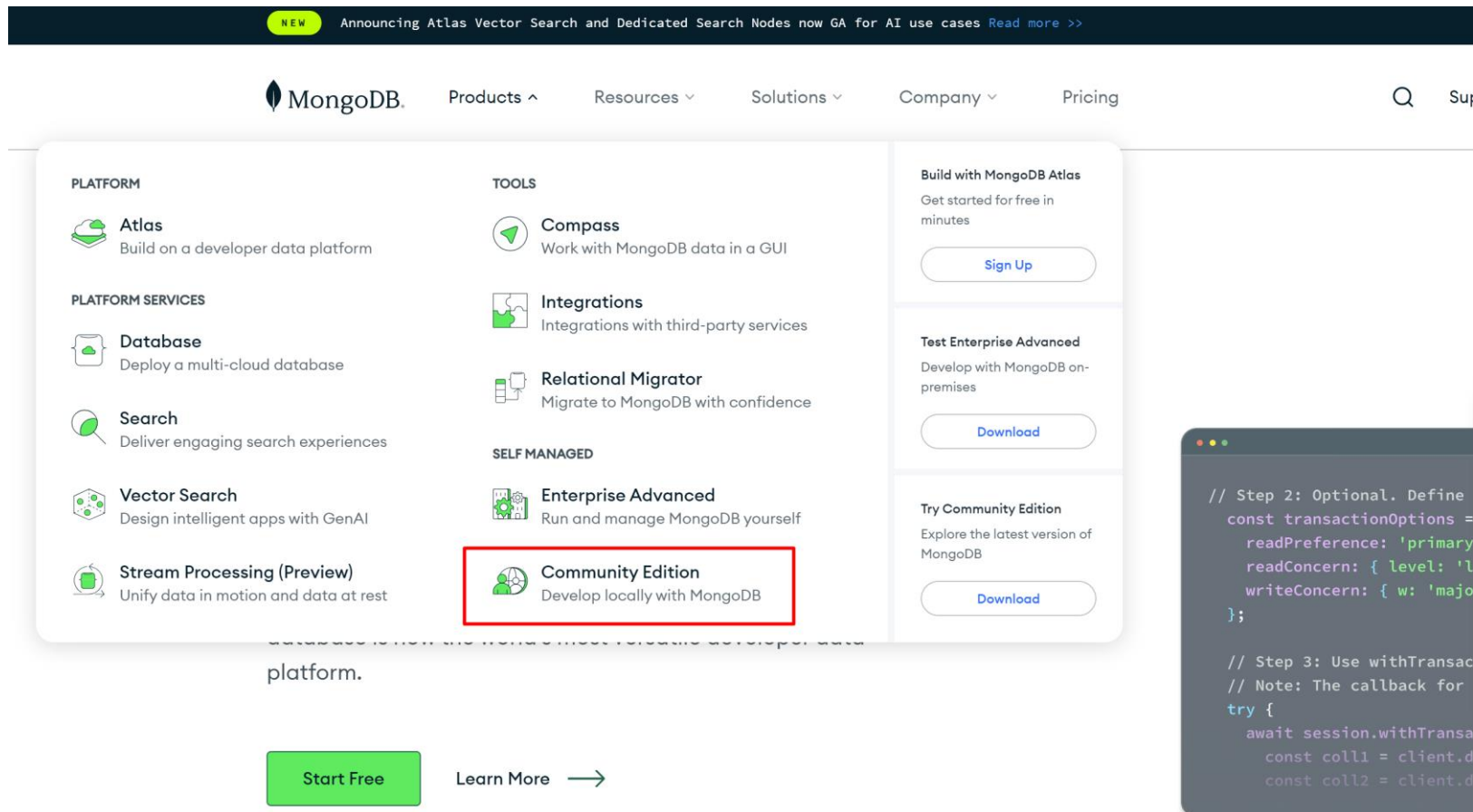
- **MongoDB** é um sistema de gerenciamento de banco de dados NoSQL orientado a documentos.
- **MongoDB Compass** é uma ferramenta gráfica de interface do usuário (GUI) desenvolvida para facilitar a interação com bancos de dados MongoDB
- **Mongosh** é uma nova interface de linha de comando (CLI) e shell interativo para o MongoDB.



Instalação

Material Complementar 2

- A versão Community está disponível no link <https://www.mongodb.com/> no menu “Products”.



The screenshot shows the MongoDB website's 'Products' page. The navigation bar includes the MongoDB logo and links for Products, Resources, Solutions, Company, and Pricing. A banner at the top announces 'Atlas Vector Search and Dedicated Search Nodes now GA for AI use cases'. The main content area is divided into three columns. The first column, 'PLATFORM', lists Atlas, Database, Search, Vector Search, and Stream Processing. The second column, 'TOOLS', lists Compass, Integrations, and Relational Migrator. The third column, 'SELF MANAGED', lists Enterprise Advanced and Community Edition. The 'Community Edition' is highlighted with a red box. To the right of the 'SELF MANAGED' section, there are two cards: 'Build with MongoDB Atlas' and 'Test Enterprise Advanced'. At the bottom, there is a 'Start Free' button and a 'Learn More' link. On the far right, a code editor window shows MongoDB JavaScript code for a transaction.

NEW Announcing Atlas Vector Search and Dedicated Search Nodes now GA for AI use cases [Read more >>](#)

MongoDB. Products ^ Resources ^ Solutions ^ Company ^ Pricing

PLATFORM

- Atlas**
Build on a developer data platform
- Database**
Deploy a multi-cloud database
- Search**
Deliver engaging search experiences
- Vector Search**
Design intelligent apps with GenAI
- Stream Processing (Preview)**
Unify data in motion and data at rest

TOOLS

- Compass**
Work with MongoDB data in a GUI
- Integrations**
Integrations with third-party services
- Relational Migrator**
Migrate to MongoDB with confidence

SELF MANAGED

- Enterprise Advanced**
Run and manage MongoDB yourself
- Community Edition**
Develop locally with MongoDB

Build with MongoDB Atlas
Get started for free in minutes
[Sign Up](#)

Test Enterprise Advanced
Develop with MongoDB on-premises
[Download](#)

Try Community Edition
Explore the latest version of MongoDB
[Download](#)

[Start Free](#) [Learn More →](#)

```
// Step 2: Optional. Define
const transactionOptions =
  readPreference: 'primary'
  readConcern: { level: 'local' }
  writeConcern: { w: 'majority' }
};

// Step 3: Use withTransaction
// Note: The callback for
try {
  await session.withTransaction(
    const coll1 = client.db('test').collection('coll1')
    const coll2 = client.db('test').collection('coll2')
```

MONGODB COMMUNITY SERVER

MongoDB Community Server Download

Community Server

The Community version of our distributed database offers a flexible document data model along with support for:

- Ad-hoc queries
- Secondary indexing
- Real-time aggregations to provide powerful ways to access and analyze your data

Select package

Try MongoDB Atlas

The database is also offered as a fully-managed service with [MongoDB Atlas](#). Get access to advanced functionality such as:

- Auto-scaling
- Serverless instances
- Full-text search, and data distribution across regions and clouds
- Multi-region and multi-cloud support


[Sign up here](#) or get started from your terminal:




mongoDB

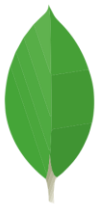
- Selecione o package “msi”.

Version	7.0.5 (current)	▼
Platform	Windows x64	▼
Package	msi	▼

[Download](#) 

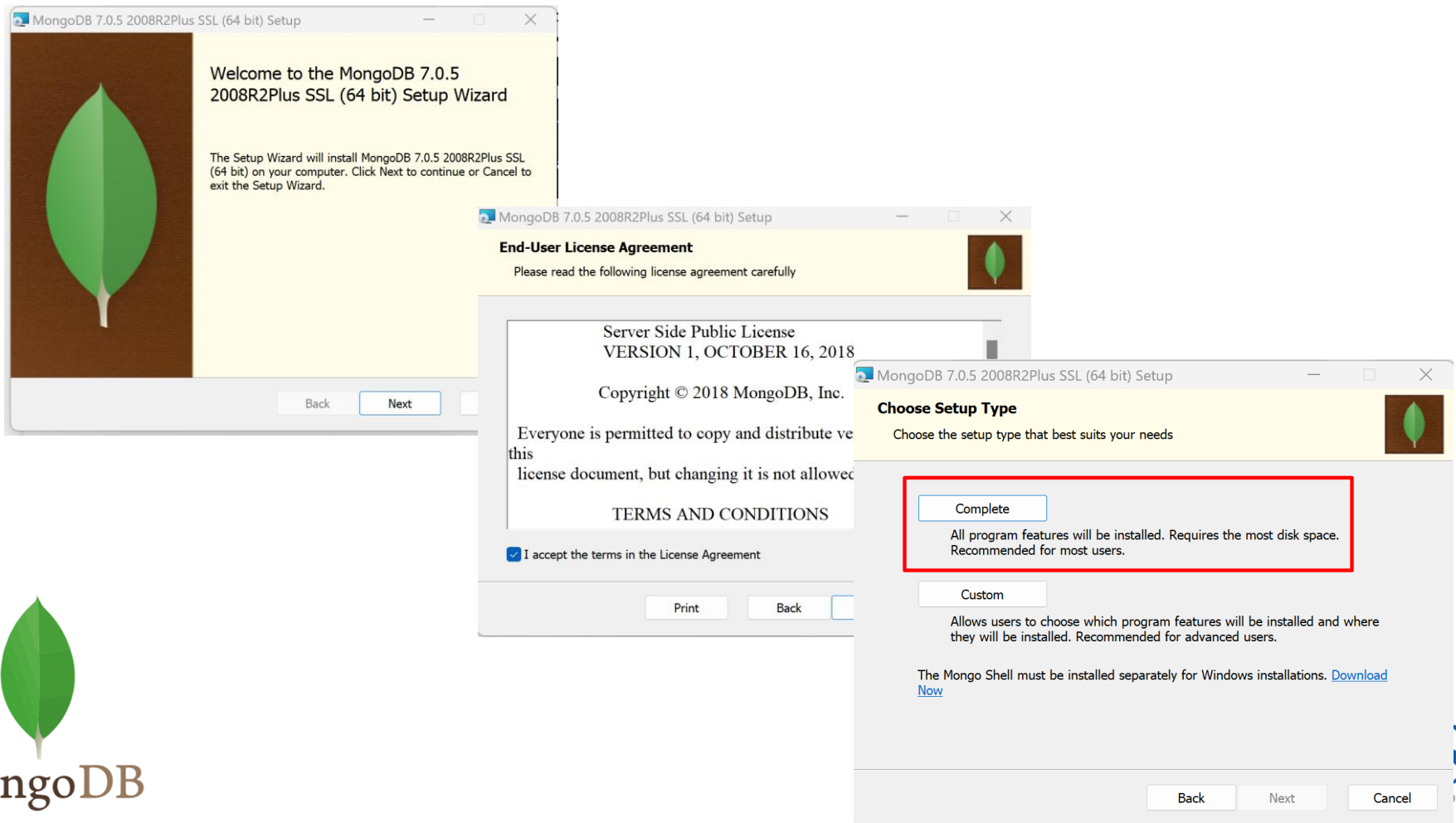
 [Copy link](#)

[More Options](#) 



Instalação

- A instalação padrão não requer nenhuma alteração nos parâmetros.



- No ambiente Windows a recomendação é a instalação do MongoDB como um serviço.

MongoDB 7.0.5 2008R2Plus SSL (64 bit) Service Customization

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:

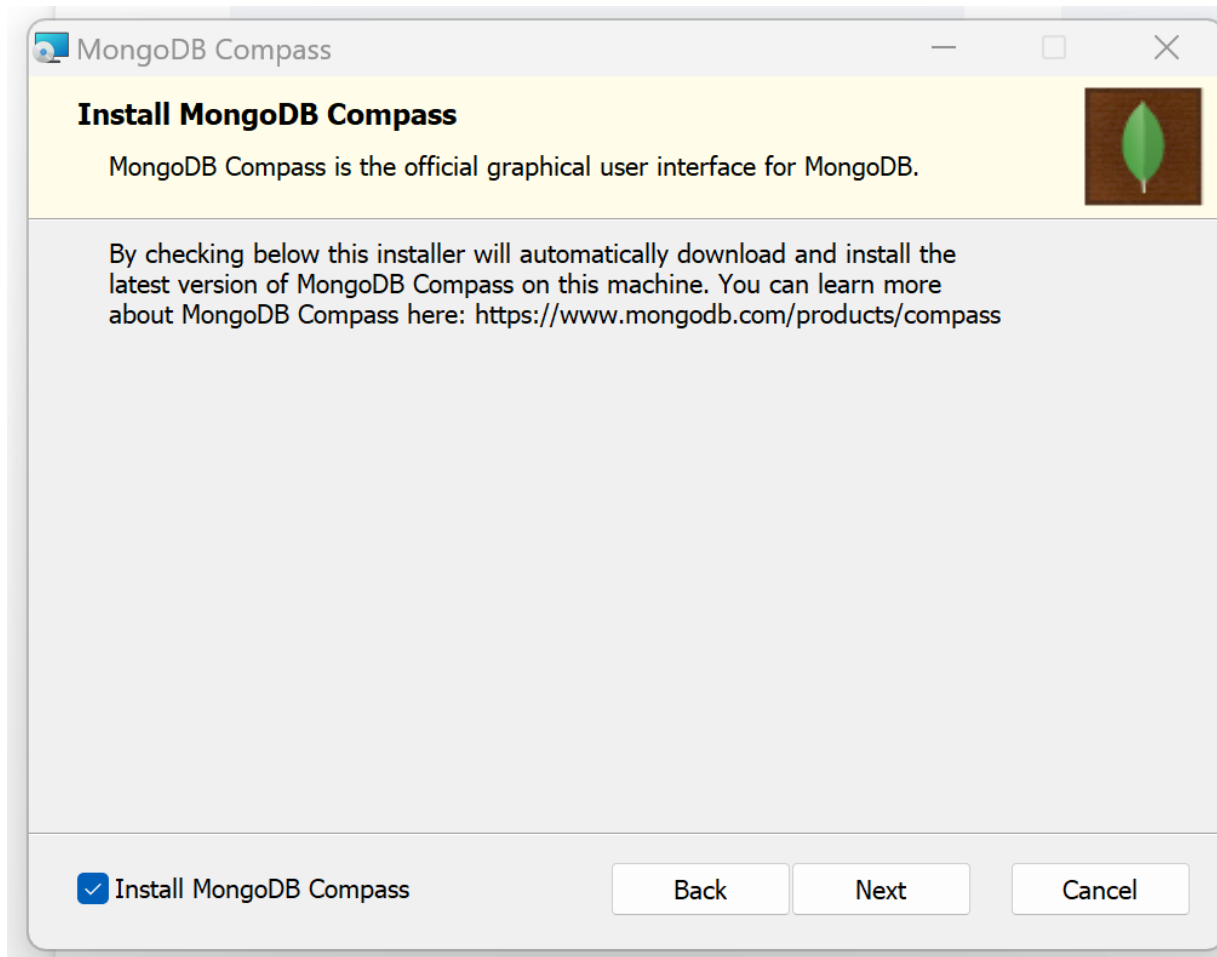
Service Name: MongoDB

Data Directory: C:\Program Files\MongoDB\Server\7.0\data\

Log Directory: C:\Program Files\MongoDB\Server\7.0\log\

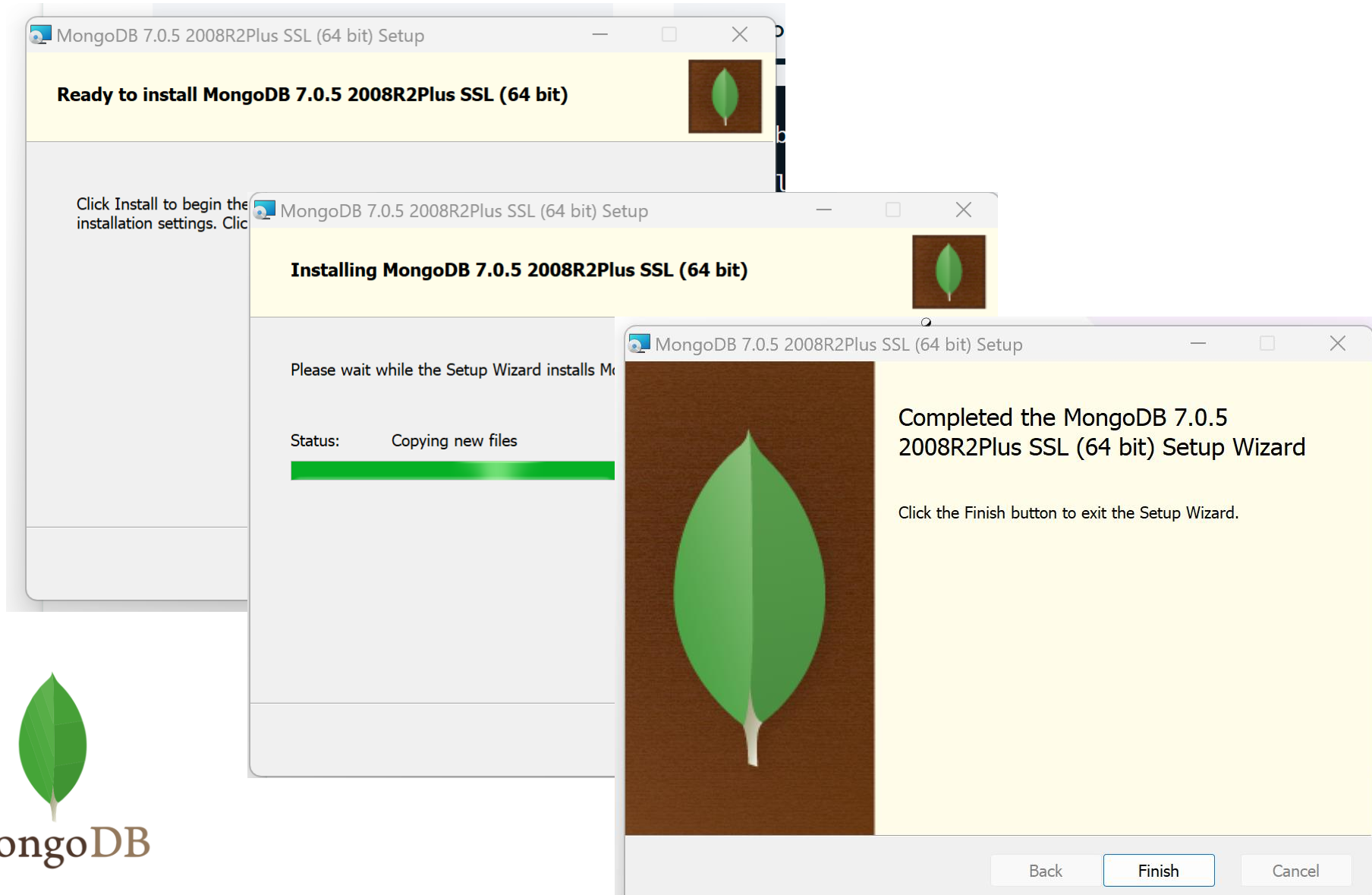
< Back Next > Cancel

- A instalação do Compass é automática, basta manter a opção abaixo selecionada.



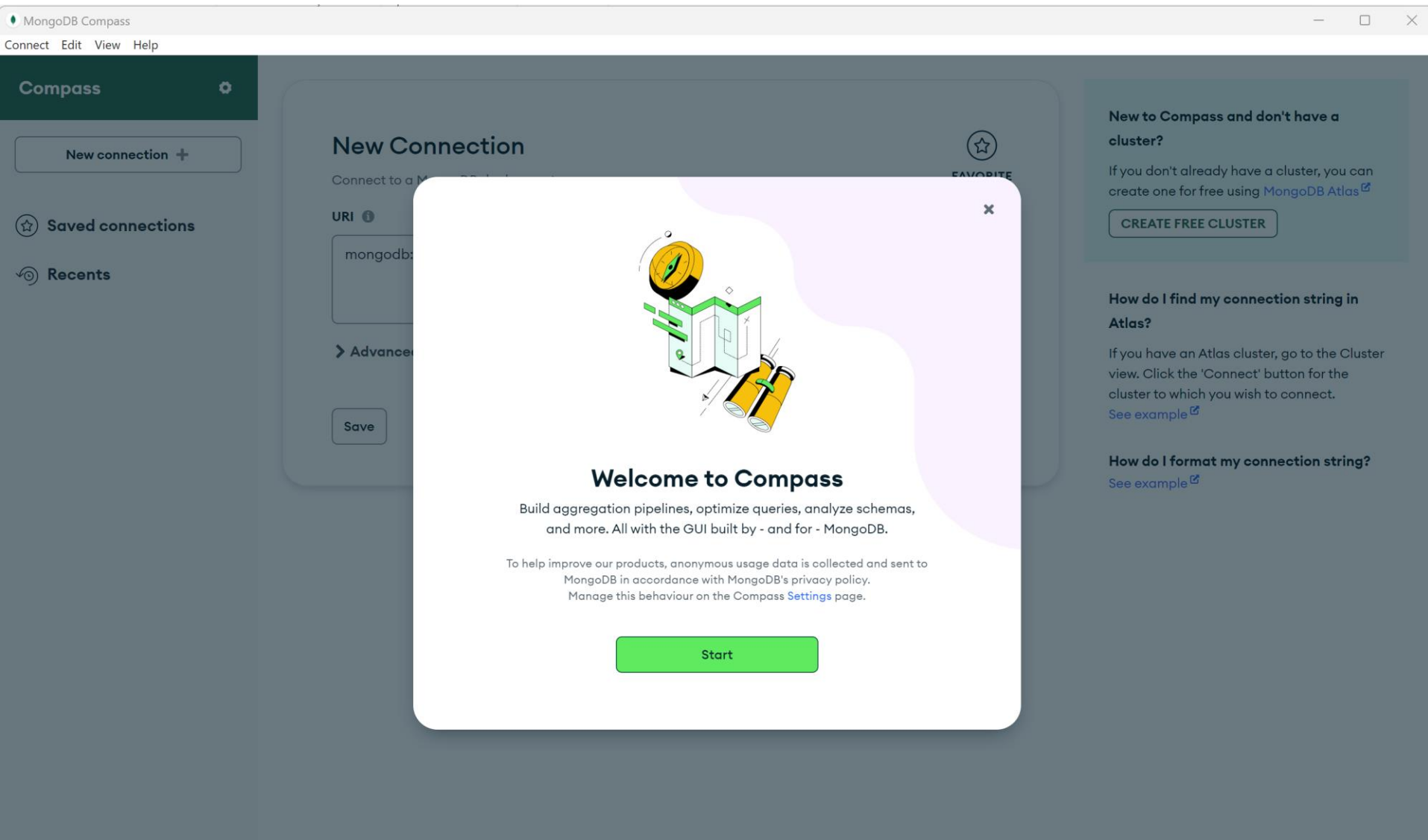
Instalação

Material Complementar 2



Instalação

Material Complementar 2



- Atenção a string de conexão, a porta padrão do MongoDB é a porta 27017.

New Connection

Connect to a MongoDB deployment

URI ⓘ

Edit Connection String ☒


mongodb://localhost:27017/

> Advanced Connection Options

Save

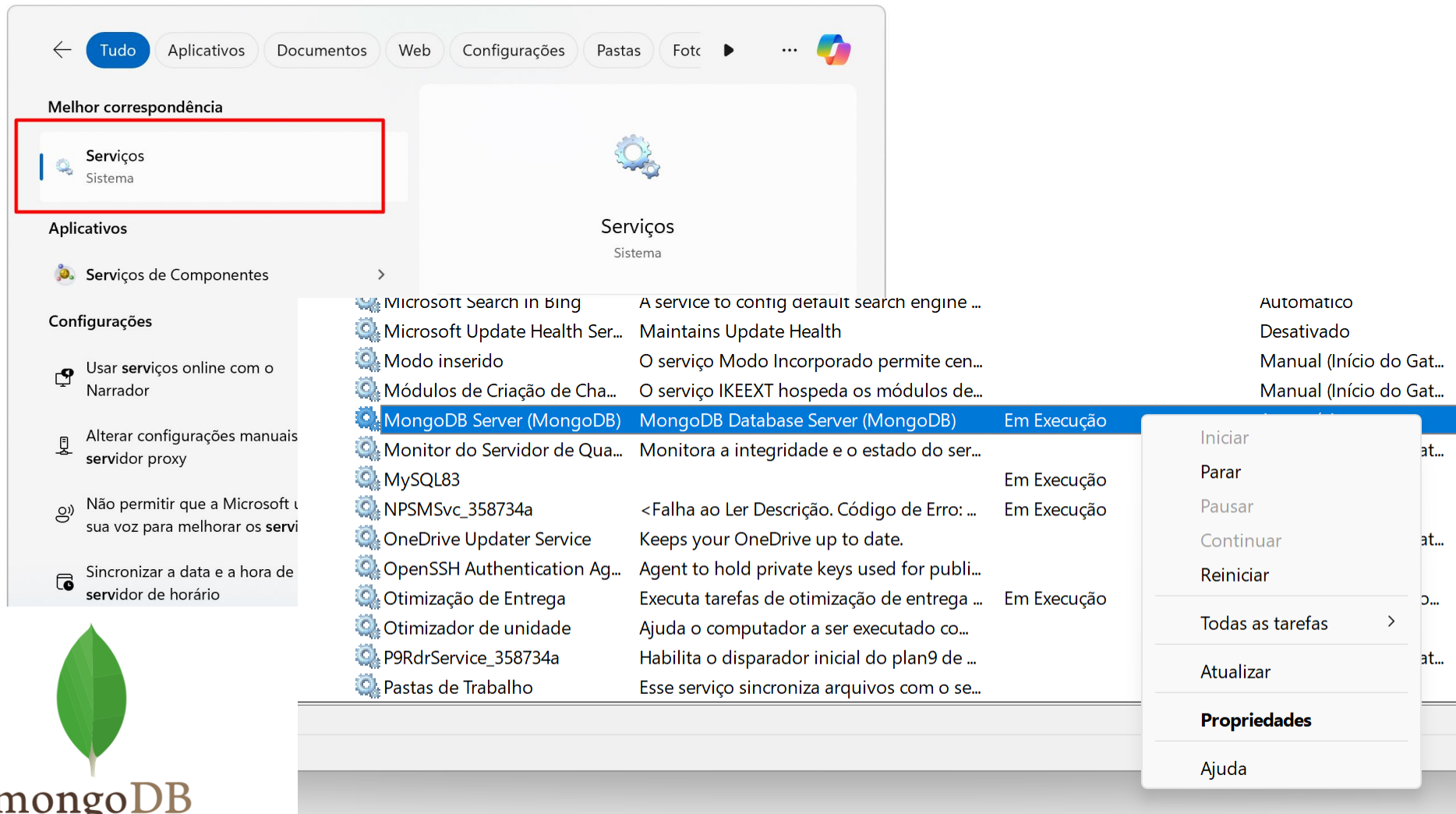
Save & Connect

Connect


FAVORITE



- Configuração do serviço mongodb no Windows.



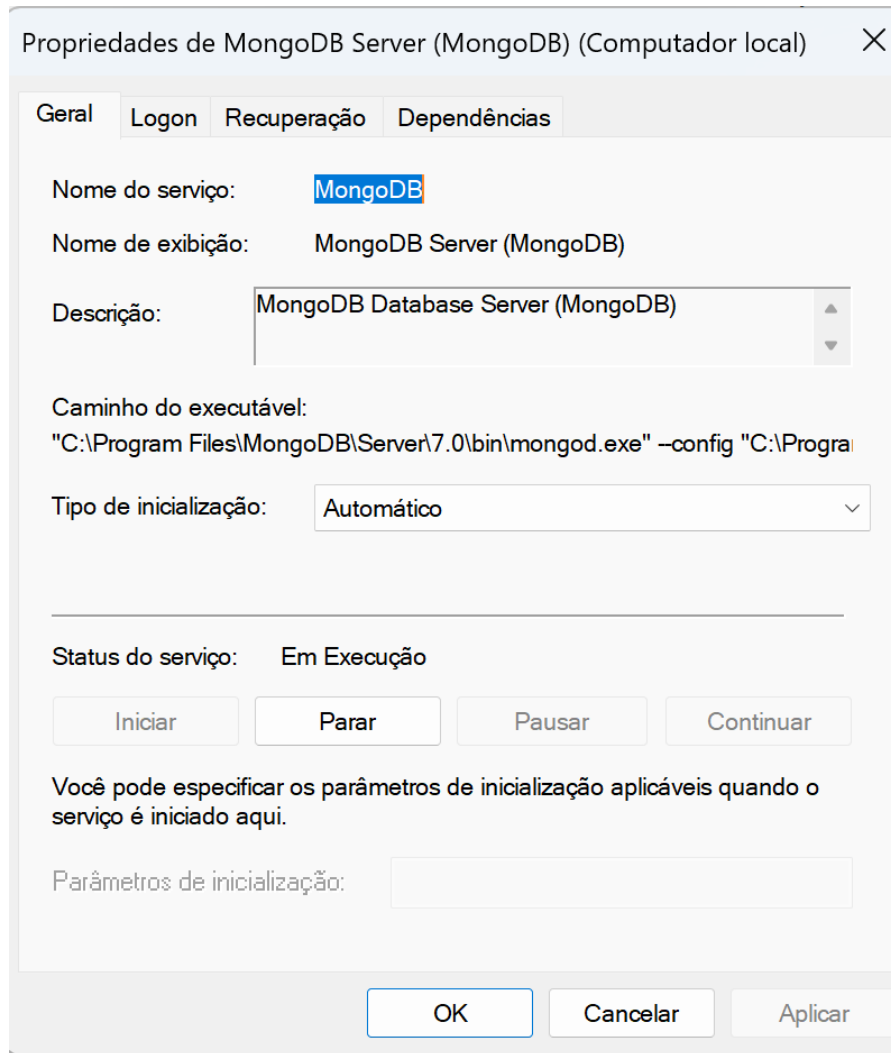
The screenshot shows the Windows Settings application with the 'Serviços' (Services) app selected in the left sidebar. The 'Serviços' app is highlighted with a red box. The main window displays a list of system services. The 'MongoDB Server (MongoDB)' service is selected, and its context menu is open, showing options like 'Iniciar' (Start), 'Parar' (Stop), 'Pausar' (Pause), 'Continuar' (Resume), 'Reiniciar' (Restart), 'Todas as tarefas' (All tasks), 'Atualizar' (Update), 'Propriedades' (Properties), and 'Ajuda' (Help).

Nome do Serviço	Descrição	Status
Microsoft Search in Bing	A service to config default search engine ...	Automatico
Microsoft Update Health Ser...	Maintains Update Health	Desativado
Modo inserido	O serviço Modo Incorporado permite cen...	Manual (Início do Gat...
Módulos de Criação de Cha...	O serviço IKEEXT hospeda os módulos de...	Manual (Início do Gat...
MongoDB Server (MongoDB)	MongoDB Database Server (MongoDB)	Em Execução
Monitor do Servidor de Qua...	Monitora a integridade e o estado do ser...	
MySQL83		Em Execução
NPSMSvc_358734a	<Falha ao Ler Descrição. Código de Erro: ...	Em Execução
OneDrive Updater Service	Keeps your OneDrive up to date.	
OpenSSH Authentication Ag...	Agent to hold private keys used for publi...	
Otimização de Entrega	Executa tarefas de otimização de entrega ...	Em Execução
Otimizador de unidade	Ajuda o computador a ser executado co...	
P9RdrService_358734a	Habilita o disparador inicial do plan9 de ...	
Pastas de Trabalho	Esse serviço sincroniza arquivos com o se...	

Context Menu Options:

- Iniciar
- Parar
- Pausar
- Continuar
- Reiniciar
- Todas as tarefas >
- Atualizar
- Propriedades**
- Ajuda

- Selecione o tipo de inicialização conforme sua necessidade.



Propriedades de MongoDB Server (MongoDB) (Computador local) X

Geral Logon Recuperação Dependências

Nome do serviço: **MongoDB**

Nome de exibição: MongoDB Server (MongoDB)

Descrição: MongoDB Database Server (MongoDB)

Caminho do executável:
"C:\Program Files\MongoDB\Server\7.0\bin\mongod.exe" --config "C:\Progra

Tipo de inicialização: Automático

Status do serviço: Em Execução

Iniciar Parar Pausar Continuar

Você pode especificar os parâmetros de inicialização aplicáveis quando o serviço é iniciado aqui.

Parâmetros de inicialização:

OK Cancelar Aplicar



- Adicionando o mongoDB no path do Windows.

The image shows a Windows File Explorer window and a Windows Settings window. The File Explorer window is open to the path 'Arquivos de Programas > MongoDB > Server > 7.0 > bin', which is highlighted with a red box. The Settings window is open to the 'Edit system environment variables' page, which is also highlighted with a red box. The 'Edit system environment variables' option is highlighted with a red box in the 'Configurações' section.

File Explorer Path: Arquivos de Programas > MongoDB > Server > 7.0 > bin

Settings Page: Editar as variáveis de ambiente do sistema

Configurações:

- Editar as variáveis de ambiente para sua conta
- Pesquisar na Web
- Pastas

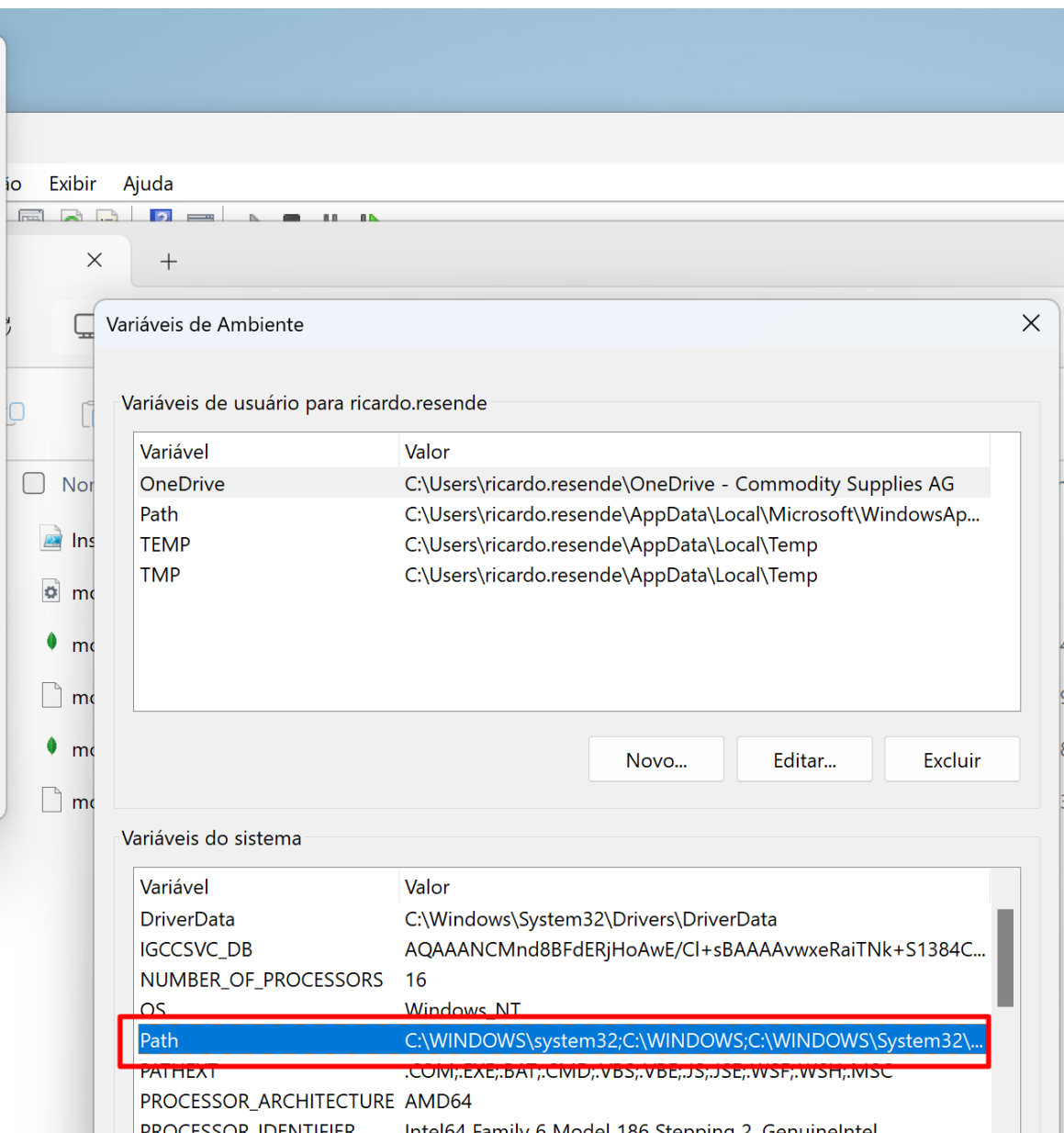
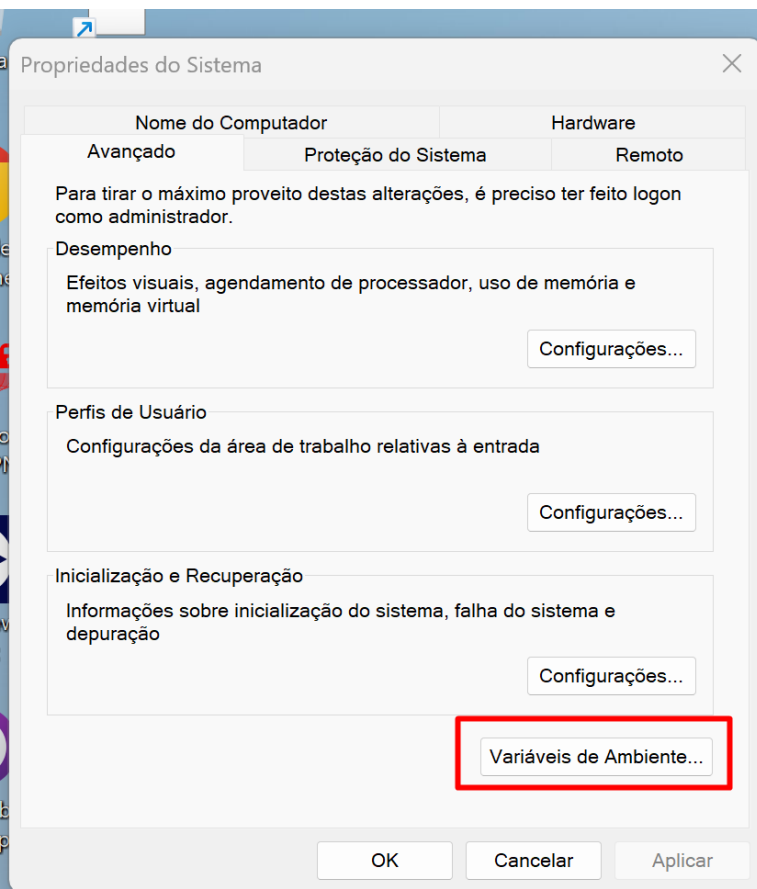
Pastas:

- PathUtils
- Paths
- path-is-absolute - em node_modules



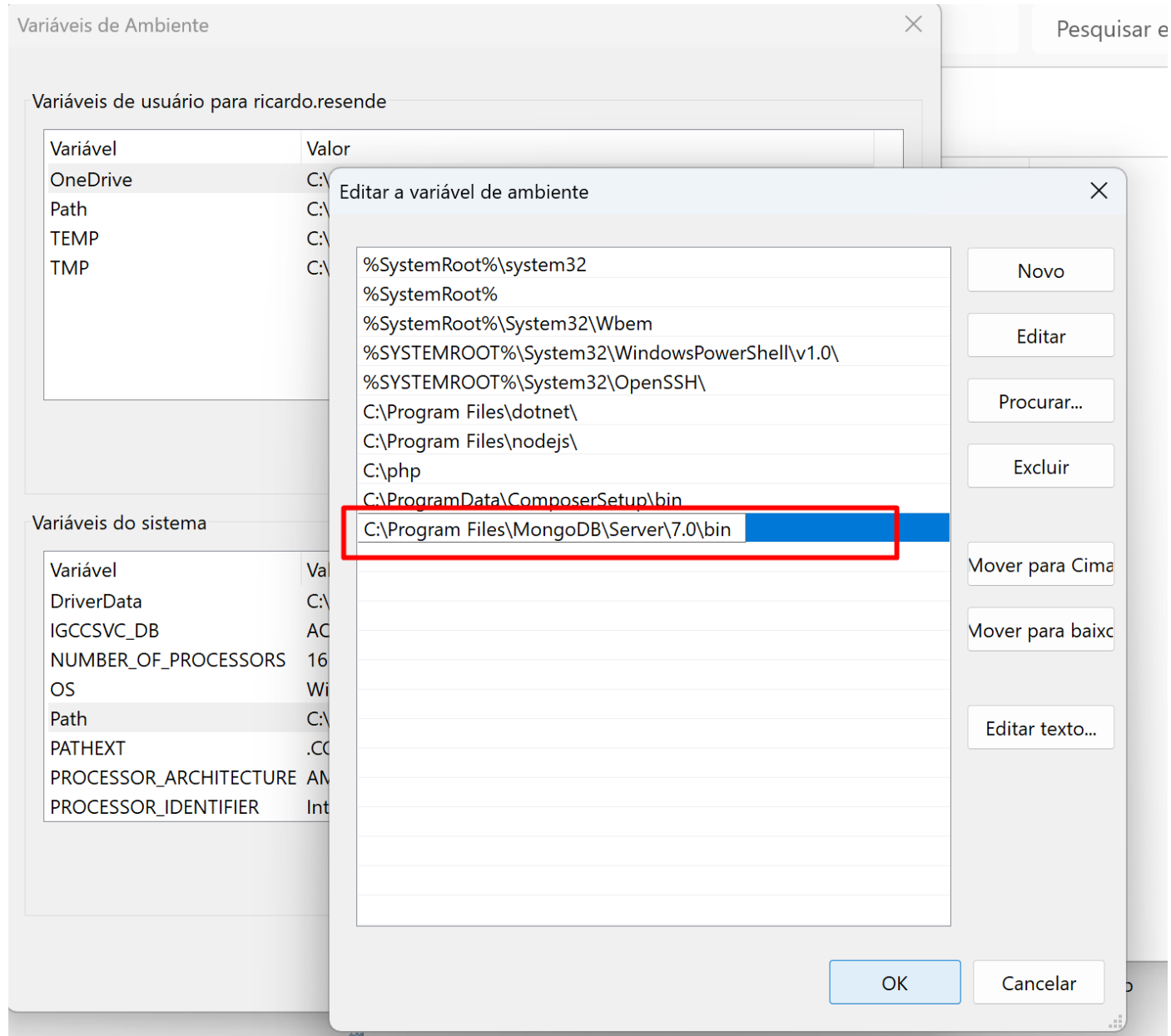
Instalação

Material Complementar 2



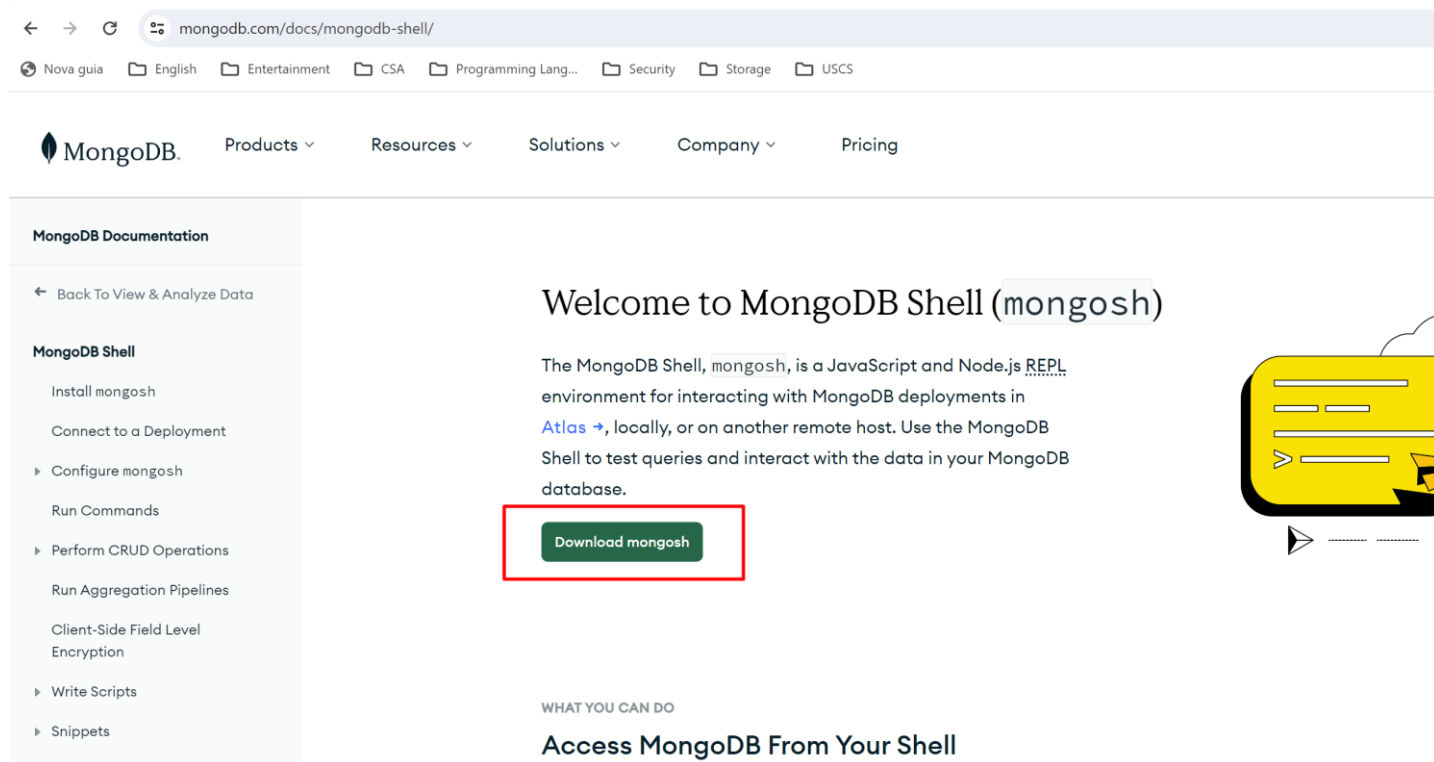
Instalação

Material Complementar 2

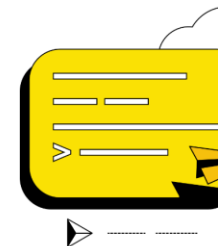


mongoDB

- Acesse o endereço <https://www.mongodb.com/docs/mongodb-shell/install/> para realizar o download do mongosh.



The screenshot shows the MongoDB documentation page for the MongoDB Shell (mongosh). The page title is "Welcome to MongoDB Shell (mongosh)". The main content describes mongosh as a JavaScript and Node.js REPL environment for interacting with MongoDB deployments in Atlas, locally, or on another remote host. A "Download mongosh" button is highlighted with a red box. The left sidebar shows the "MongoDB Shell" section with links to "Install mongosh", "Connect to a Deployment", "Configure mongosh", "Run Commands", "Perform CRUD Operations", "Run Aggregation Pipelines", "Client-Side Field Level Encryption", "Write Scripts", and "Snippets".



- Instalação usando o package msi

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.

Compatibility Note: Red Hat Enterprise Linux (RHEL) 7, Amazon Linux 2, SUSE Linux Enterprise Server (SLES) 12, and Ubuntu 18.04 support is deprecated and might be removed in a later mongosh release.

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

[Learn more](#)

Version

2.1.4



Platform

Windows x64 (10+)



Package

msi



Download



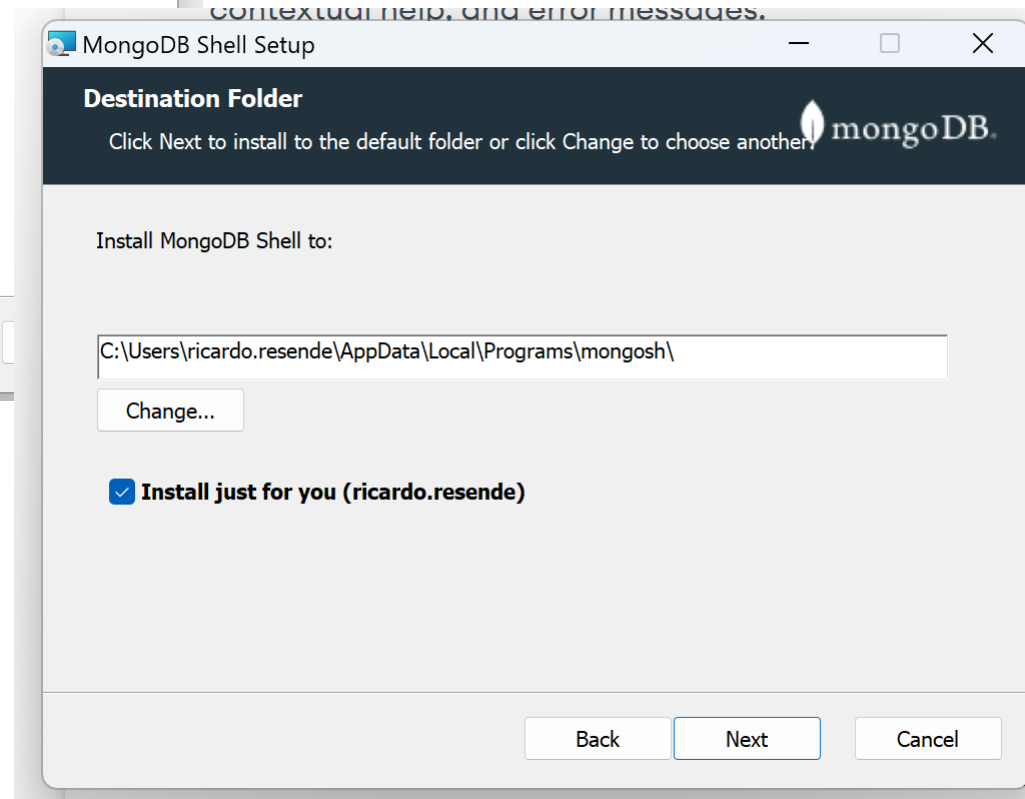
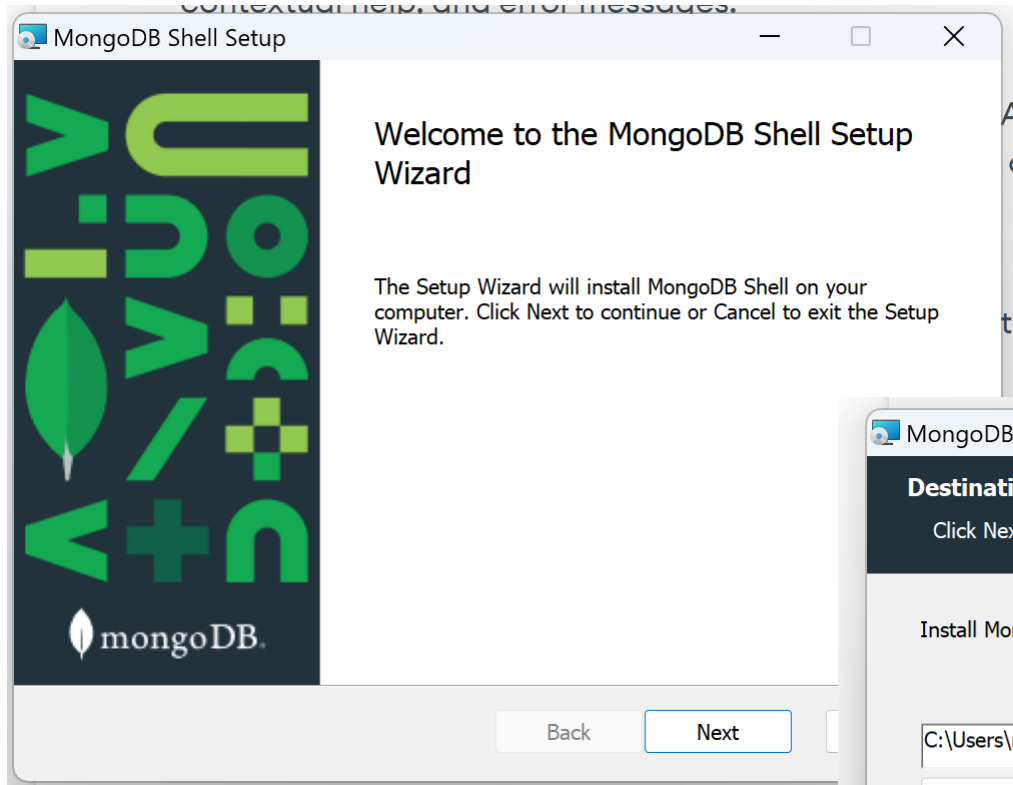
Copy link

More Options



Instalação

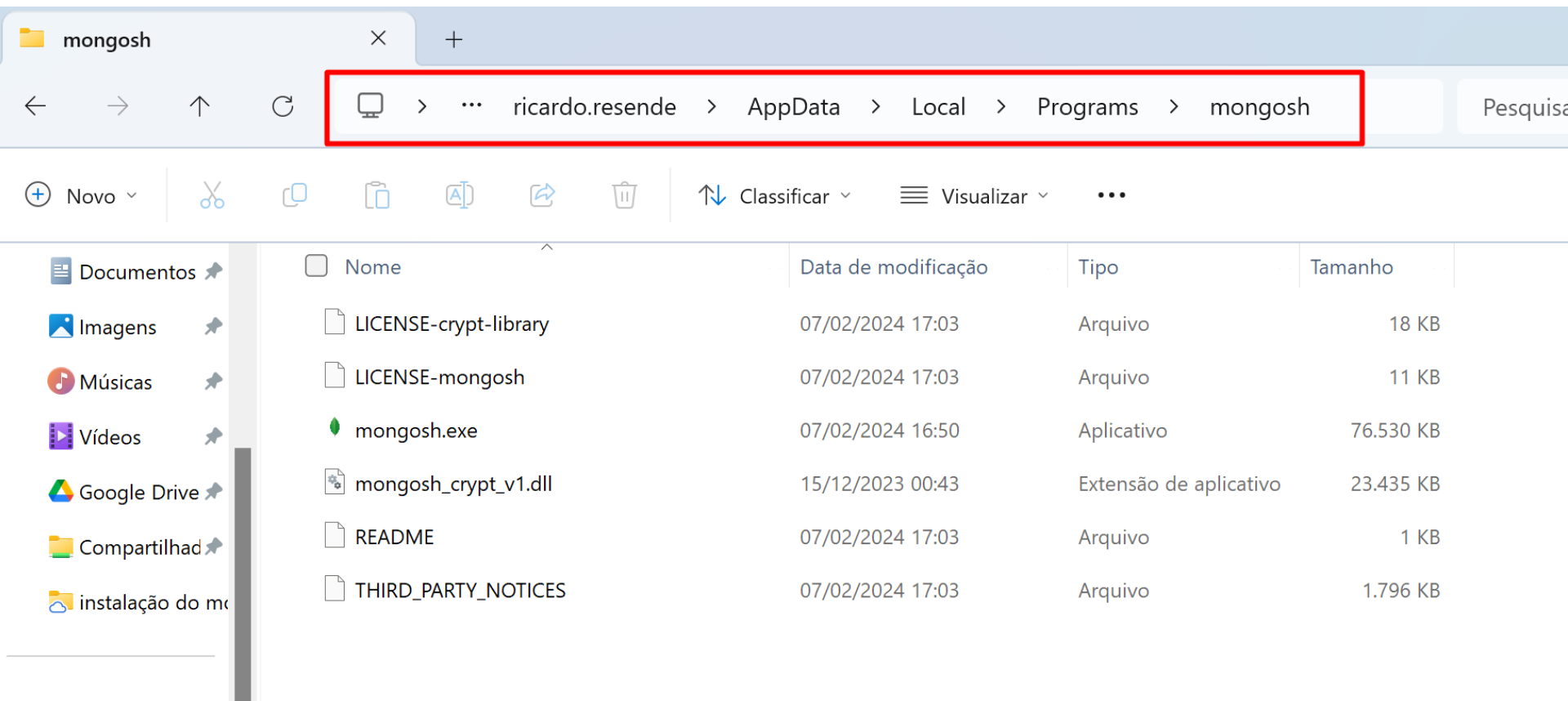
Material Complementar 2



mongoDB

Instalação

- Será necessário adicionar o diretório do mongosh no path do Windows. Siga o procedimento realizado para o MongoDB.



- Instalação por meio do package Zip

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.

Compatibility Note: Red Hat Enterprise Linux (RHEL) 7, Amazon Linux 2, SUSE Linux Enterprise Server (SLES) 12, and Ubuntu 18.04 support is deprecated and might be removed in a later mongosh release.

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

Learn more

Version

2.1.4



Platform

Windows x64 (10+)



Package

zip



Download



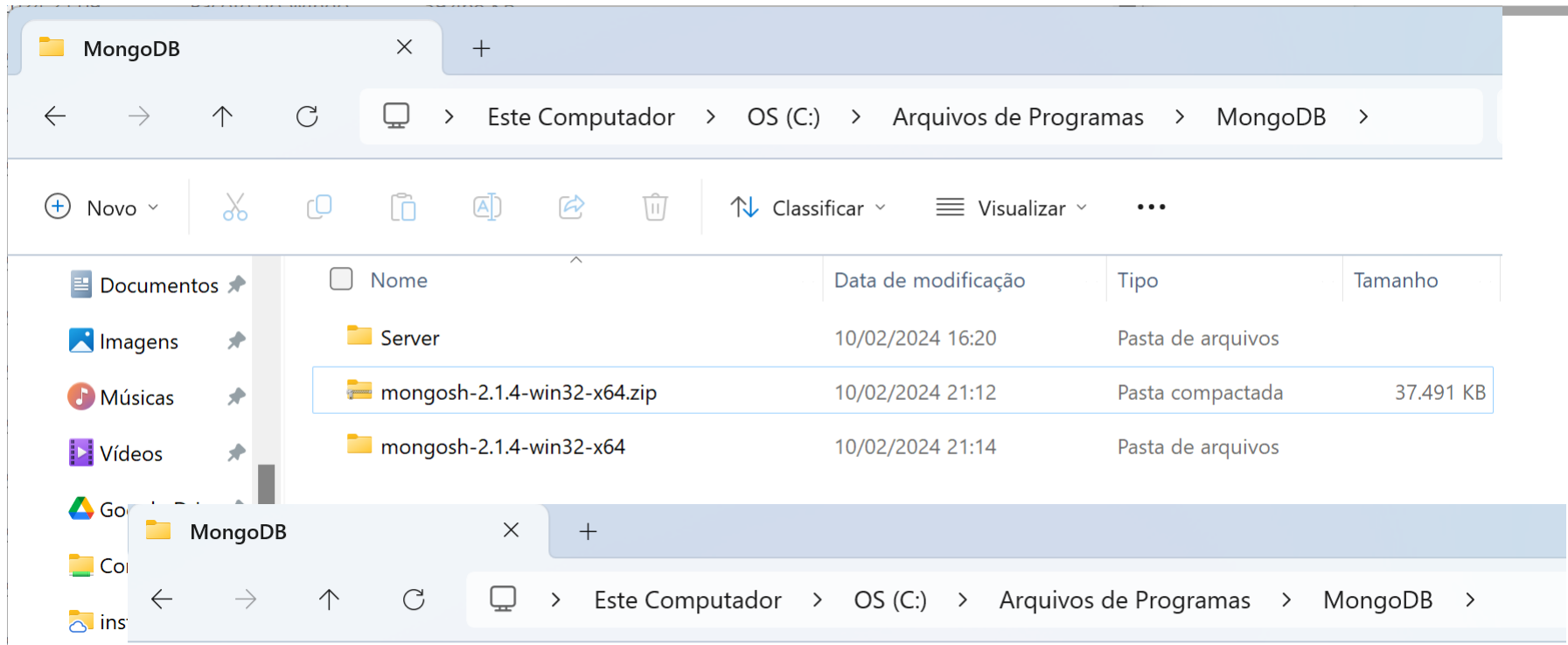
Copy link

More Options ...



mongoDB

Instalação

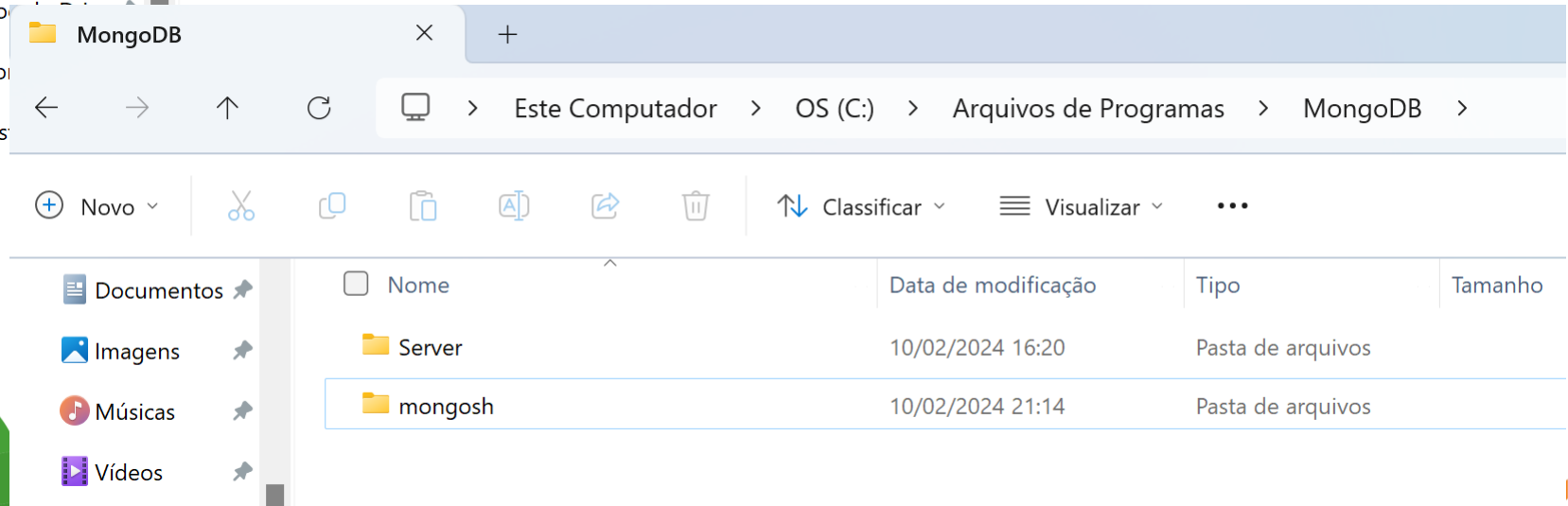


MongoDB

← → ↑ ↻ 🖥️ > Este Computador > OS (C:) > Arquivos de Programas > MongoDB >

Novo ✂️ 📁 📄 📄 📄 🗑️ Classificar Visualizar ⋮

	Nome	Data de modificação	Tipo	Tamanho
	Server	10/02/2024 16:20	Pasta de arquivos	
	mongosh-2.1.4-win32-x64.zip	10/02/2024 21:12	Pasta compactada	37.491 KB
	mongosh-2.1.4-win32-x64	10/02/2024 21:14	Pasta de arquivos	



MongoDB

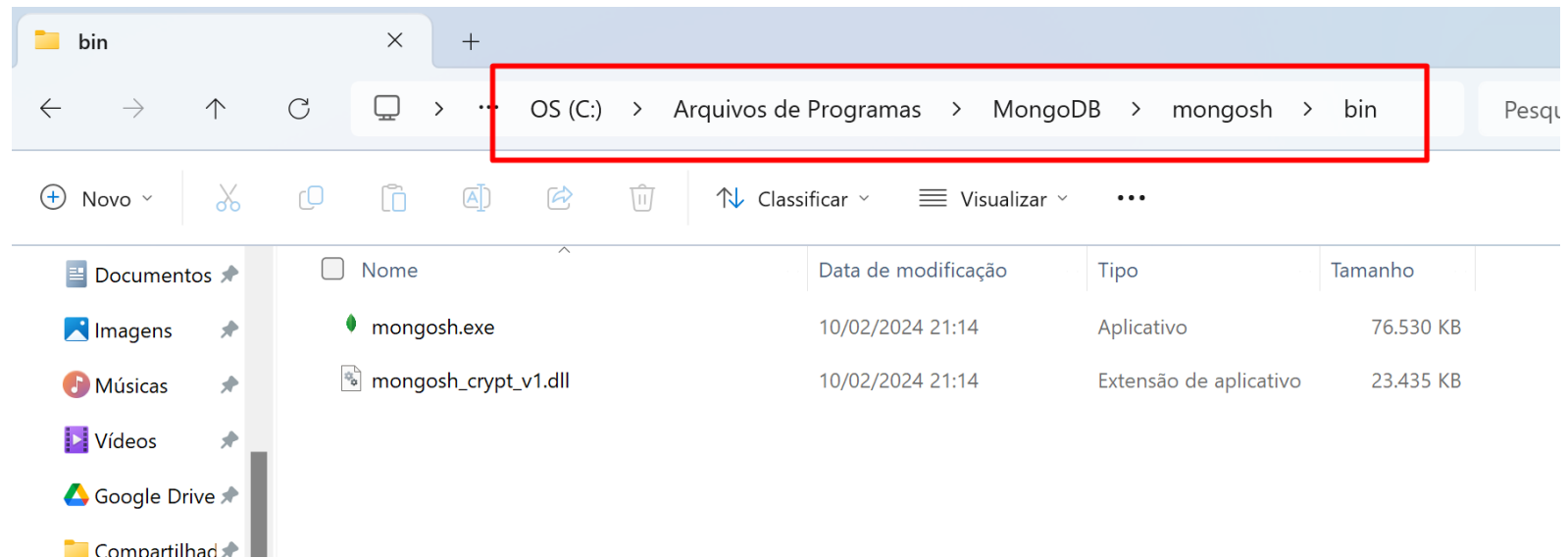
← → ↑ ↻ 🖥️ > Este Computador > OS (C:) > Arquivos de Programas > MongoDB >

Novo ✂️ 📁 📄 📄 📄 🗑️ Classificar Visualizar ⋮

	Nome	Data de modificação	Tipo	Tamanho
	Server	10/02/2024 16:20	Pasta de arquivos	
	mongosh	10/02/2024 21:14	Pasta de arquivos	



- Não se esqueça de adicionar o diretório do mongosh no path do Windows.



- Agora você terá acesso ao MongoDB por meio de qualquer terminal usando o comando “mongosh”

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.1.4
C:\Users\ricardo.resende>mongosh
Current Mongosh Log ID: 65c811bbb588600f038e7541
Connecting to:      mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.1.4
Using MongoDB:      7.0.5
Using Mongosh:       2.1.4

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

-----
The server generated these startup warnings when booting
2024-02-10T16:26:03.289-03:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
-----

test> |
```



Dúvidas?

