



Quem se prepara, não para.

# Arquitetura de Sistemas

7º período

Professora: Michelle Hanne

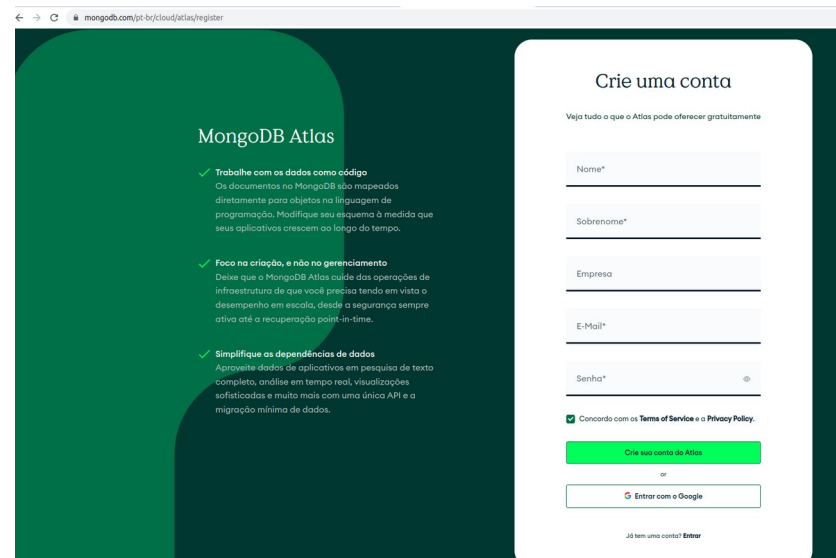
# MongoDB

1) Acessar o site do Mongo DB:

<https://www.mongodb.com/pt-br>

2) Clicar em Teste Grátis ou efetuar o login.

3) Preencher os dados e criar uma conta



# MongoDB

4) Confirmar o e-mail e acessar o tutorial

5) Preencher as informações

6) Escolher a opção MongoDB Free como Deploy. Altere o nome do Cluster para Aula em seguida clicar em “Create”.

**MongoDB**  
Deploy your database

Use a template below or set up [advanced configuration options](#). You can also edit these configuration options once the cluster is created.

Plan	Price
<b>M10</b> For production applications with sophisticated workload requirements. STORAGE: 10 GB   RAM: 2 GB   vCPU: 2 vCPUs	\$0.08/hour
<b>SERVERLESS</b> For application development and testing, or workloads with variable traffic. STORAGE: Up to 1TB   RAM: Auto-scale   vCPU: Auto-scale	\$0.10/1M reads
<b>M0</b> For learning and exploring MongoDB in a cloud environment. STORAGE: 512 MB   RAM: Shared   vCPU: Shared	<b>FREE</b>

Provider: aws Google Cloud Azure

Region: ★ Recommended region ⓘ  
US N. Virginia (us-east-1) ★

Name:

You cannot change the name once the cluster is created.

**FREE**

[Create](#)

Free forever! Your M0 cluster is ideal for experimenting in a limited sandbox. You can upgrade to a production cluster anytime.

[Click to view my database later](#)

[Access Advanced Configuration](#)

Welcome to Atlas! 🌱

Tell us a few things about yourself and your project.

What is your goal today?

Your answer will help us guide you to successfully getting started with MongoDB Atlas.

- ☒ Learn MongoDB
- ☐ Build a new application
- ☐ Migrate an existing application
- ☐ Explore what I can build

What type of application are you building?

Microservices or APIs

What is your preferred language?

We'll use this to customize code samples and content we share with you. You can always change this later.

JS JavaScript

# MongoDB

7) Em seguida será preenchido o Security Quickstart  
É recomendado gerar a senha aleatória, clicar em copiar a senha do usuário.

Project 0 ▾ : **Data Services** App Services Charts

Overview

**DEPLOYMENT**

Database

Data Lake

**SERVICES**

Device Sync

Triggers

Data API

Data Federation

Search

Stream Processing

**SECURITY**

**Quickstart**

Backup

Database Access

Network Access

Advanced

New On Atlas 3

Goto

NEWTON PAIVA > PROJECT 0

## Security Quickstart

To access data stored in Atlas, you'll need to create users and set up network security controls. [Learn more about security](#)

1 How would you like to authenticate your connection?

Your first user will have permission to read and write any data in your project.

**Username and Password** **Certificate**

**i** We autogenerated a username and password for your first database user in this project using your MongoDB Cloud registration information. **x**

Create a database user using a username and password. Users will be given the *read and write to any database privilege* by default. You can update these permissions and/or create additional users later. Ensure these credentials are different to your MongoDB Cloud username and password.

**Username**

geplanewtonpaiva

**Password**

Autogenerate Secure Password Copy

**Create User**

8) Adicionar o seu IP para acesso, em seguida clicar em “Finish and Close”

Enable access for any network(s) that need to read and write data to your cluster.

**My Local Environment**

Use this to add network IP addresses to the IP Access List. This can be modified at any time.

**Cloud Environment** **ADVANCED**

Use this to configure network access between Atlas and your cloud or on-premise environment. Specifically, set up IP Access Lists, Network Peering, and Private Endpoints.

**i** We added your current IP address. You can connect to your cluster locally from this device. **x**

### Add entries to your IP Access List

Only an IP address you add to your Access List will be able to connect to your project's clusters. You can manage existing IP entries via the [Network Access Page](#).

IP Address	Description
<input type="text" value="Enter IP Address"/>	<input type="text" value="Enter description"/>
<b>Add My Current IP Address</b>	
<b>Add Entry</b>	

**This IP address has already been added.**

IP Access List	Description
177.85.84.161/32	My IP Address

**EDIT** **REMOVE**

# MongoDB

9) Clicar em “Add Data”, em seguida clicar em “Create Database on Atlas”

10) Preencher os dados do Database: Exemplo, Coleção: Person e os dados JSON, em seguida clicar em Create Database.

[← Create Database on Atlas](#)

## Database name

Enter a name for your new database

Exemplo

## Collection name

Enter a name for your new collection

Person

[Learn more about database and collection naming](#)

Capped collection ⓘ



Time series collection ⓘ



Insert JSON document to Collection (optional)

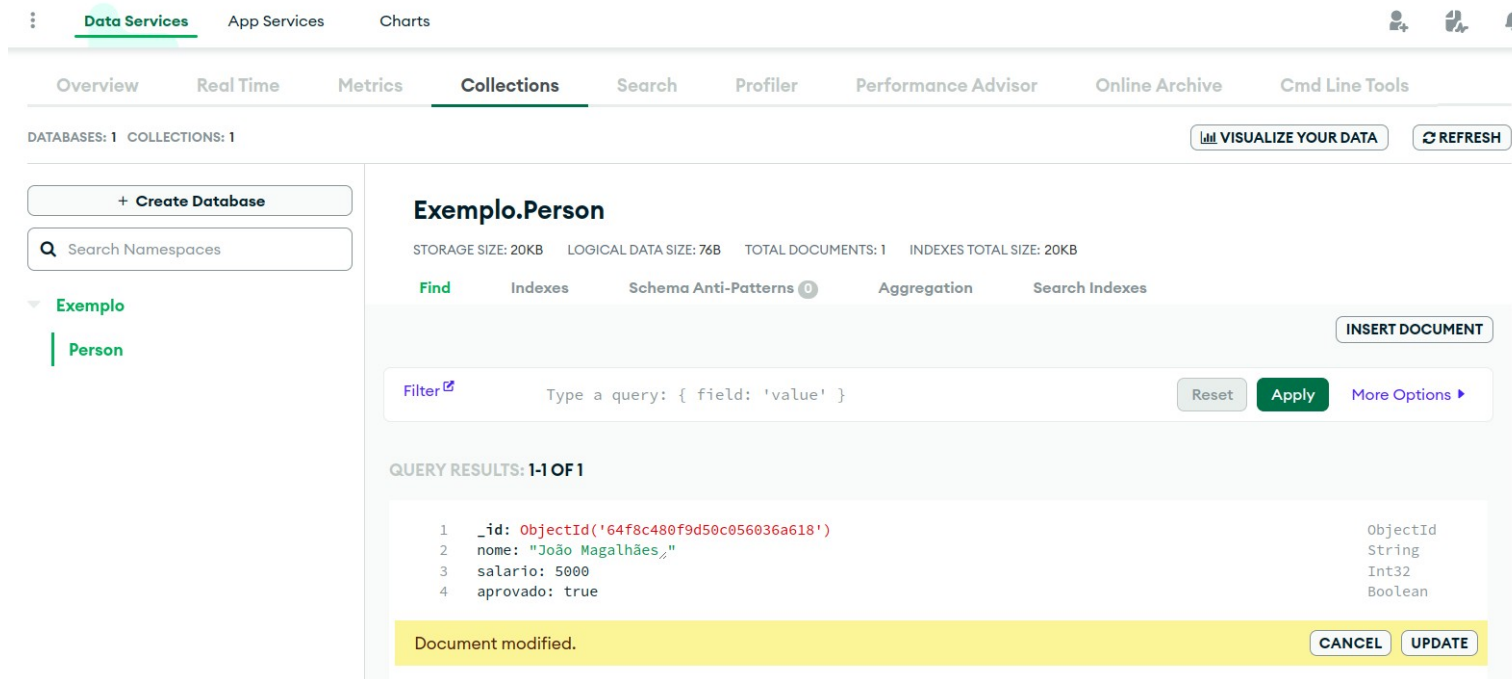
[X CLEAR THE EXAMPLE](#)

```
1 {  
2   "nome": "João Magalhães",  
3   "salario": 5000  
4 }
```

Create Database

# MongoDB

9) Em seguida a coleção é exibida, clique em editar e adicione o atributo “aprovado” do tipo boolean.



The screenshot shows the MongoDB Atlas web interface. The 'Data Services' tab is selected. The 'Collections' tab is active, displaying the 'Exemplo.Person' collection. The collection details show a storage size of 20KB, logical data size of 76B, total documents of 1, and indexes total size of 20KB. The 'Find' tab is selected, showing a filter bar with the query '{ field: 'value' }'. Below the filter bar, the query results are displayed as a table with 1 document. The document has the following fields: '\_id' (ObjectId), 'nome' (String), 'salario' (Int32), and 'aprovado' (Boolean). A yellow banner at the bottom indicates 'Document modified.' with 'CANCEL' and 'UPDATE' buttons.

DATABASES: 1 COLLECTIONS: 1

+ Create Database

Q Search Namespaces

Exemplo

Person

Exemplo.Person

STORAGE SIZE: 20KB LOGICAL DATA SIZE: 76B TOTAL DOCUMENTS: 1 INDEXES TOTAL SIZE: 20KB

Find Indexes Schema Anti-Patterns Aggregation Search Indexes

INSERT DOCUMENT

Filter Type a query: { field: 'value' } Reset Apply More Options

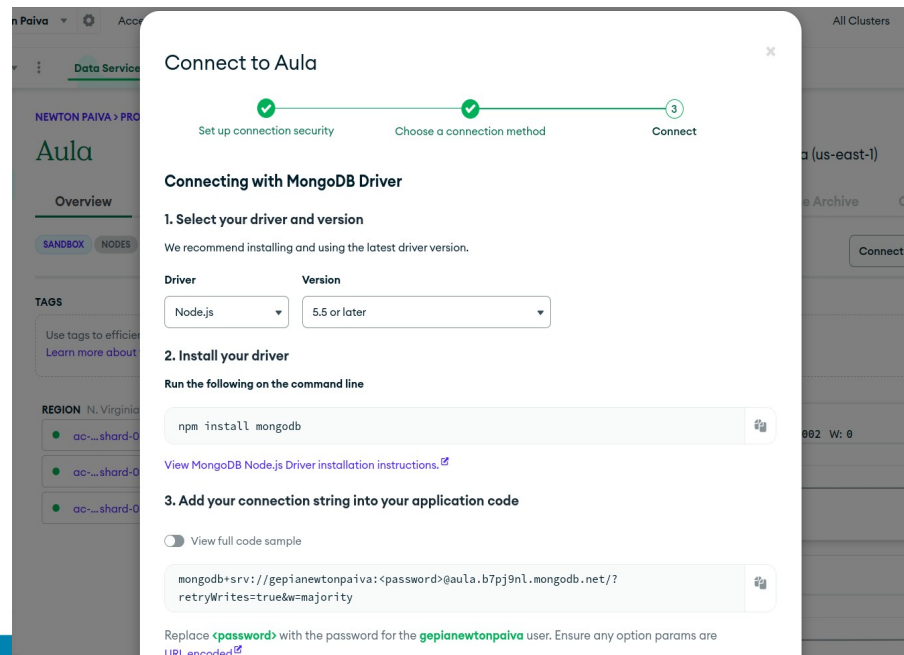
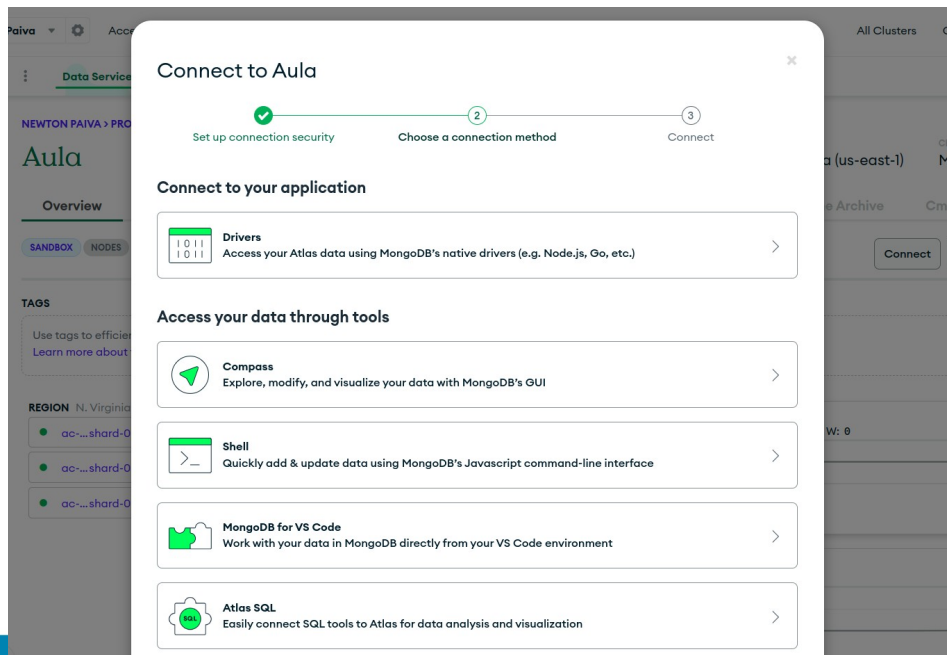
QUERY RESULTS: 1-1 OF 1

1	_id: ObjectId('64f8c480f9d50c056036a618')	ObjectId
2	nome: "João Magalhães,"	String
3	salario: 5000	Int32
4	aprovado: true	Boolean

Document modified. CANCEL UPDATE

# MongoDB

10) Acessar Overview e clicar em “Connect”. Será mostrado os meios de conectar a sua Aplicação. Selecione a opção “Drivers”, será exibido a forma de conectar no MongoDB, copiar o texto da linha de conexão.





# MongoDB

10) A string de conexão será substituída com o seu Usuário e Senha:

```
mongodb+srv://gepianewtonpaiva:<password>@aula.b7pj9nl.mongodb.net/?  
retryWrites=true&w=majority
```