

# MongoDB



aula 04

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# Tópicos

Configurar serviço NoSQL no MongoDB Atlas


- Criar uma organização "TADS"
- Criar um projeto "Provas" nesta organização
- Criar dataset questoes

# 1 - New Organization: TADS



All Organiza... ▾

All ClustersGet Help ▾Mark ▾

 PREFERENCES

Legacy 2FA

Personalization

Invitations

**Organizations**

## Organizations

Create New Organization

Organization Name	⌵	Plan Type	Roles	Actions
IFPR		Atlas	Organization Owner	LEAVE

[← Organizations](#)

## Create Organization

Name and Service

Add Members

Next

### Name Your Organization

TADS

### Select Cloud Service

#### Features

Automated database configuration

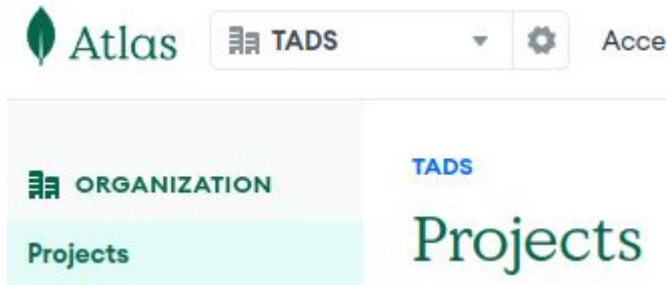
Continuous backup and point-in-time recovery

☒ MongoDB Atlas


☐ Cloud Manager



## 2 - Configurar um novo projeto




## 2 - Projetos

Atlas

TADS ▾ ⚙

Access Manager ▾ Billing

All Clusters Get Help ▾ M ▾

 ORGANIZATION

Projects

Alerts 0

Activity Feed

Settings

Integrations

TADS

Projects

New Project

Find a project... 🔍

Project Name	Database Deployments	Users	Teams	Alerts	Actions
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## 2 - Criar projeto "Provas"

TADS > PROJECTS

### Create a Project

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**Name Your Project**

Add Members

#### **Name Your Project**

Project names have to be unique within the organization (and other restrictions).

Provas

Cancel

Next

# 3 - Base de dados

TADS > PROVAS

## Database Deployments



### Create a database

Choose your cloud provider, region, and specs.

Build a Database



**M0**

**FREE**

For learning and exploring MongoDB in a cloud environment.

STORAGE  
**512 MB**

RAM  
**Shared**

vCPU  
**Shared**

#### Provider

aws

Google Cloud

Azure

#### Region

★ Recommended region ⓘ



**N. Virginia (us-east-1) ★**



#### Name

You cannot change the name once the cluster is created.

Cluster0



## 3 - Base de dados: criar usuário

TADS > PROVAS

### Security Quickstart

To access data stored in Atlas, you'll need to create users and set up network security controls.

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#### 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**

# 3 - Base de dados - acesso



**Data Services**

App Services

Charts

## ✓ Where would you like to connect from?

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



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.

ADVANCED

# 3 - Base de dados

 Atlas

TADS

Access Manager

Billing

All Clusters

Get Help




Mark

Provas

Data Services

App Services

Charts



DEPLOYMENT

Database

Data Lake

PREVIEW

SERVICES

Triggers

Data API

Data Federation

Search

SECURITY

Database Access

Network Access

Advanced

New On Atlas

Goto

TADS > PROVAS

Database Deployments

Find a database deployment...

+ Create


Cluster0

Connect

View Monitoring

Browse Collections

...

 Enhance Your Experience

For production throughput and richer metrics, upgrade to a dedicated cluster now!

Upgrade

R 0

W 0

Last 42 seconds

100.0/s

Connections 0

Last 6 minutes

100.0

In 0.0 B/s

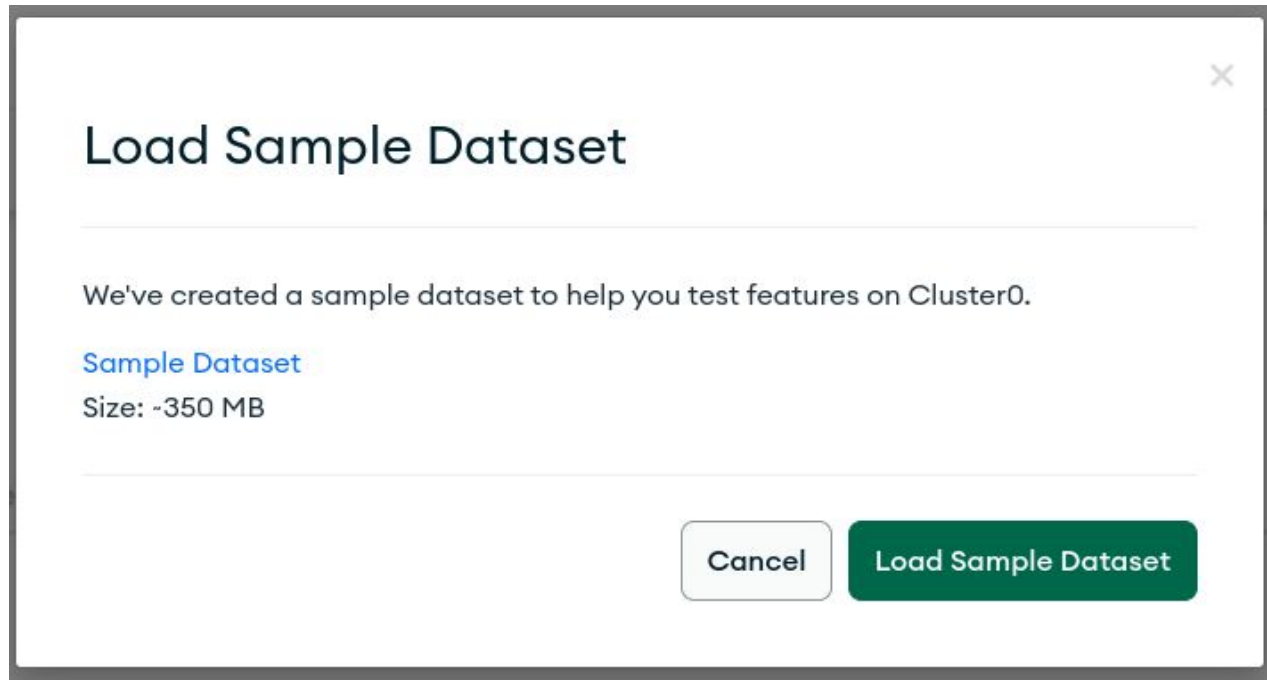
Out 0.0 B/s

Last 42 seconds

100.0 B/s

VERSION	REGION	CLUSTER TIER	TYPE	BACKUPS	LINKED APP SER
5.0.15	AWS / N. Virginia (us-east-1)	M0 Sandbox (General)	Replica Set - 3 nodes	Inactive	None Linked

## 4 - Teste: Carregar bases de exemplo



# Comandos de manipulação de dados

Comandos de manipulação de dados do MongoDB

- Find, update, delete
- Operadores de comparação e lógicos
- Arrays

<https://github.com/fscheidt/bd2-23/blob/master/mongodb-comandos.md>

# Atividade 1 - questões

1. Criar nova base de dados questoes
2. Inserir as questões de provas definidas na aula passada
3. Executar as seguintes consultas:
  - a. Listar enunciados das questões
  - b. Listar questões cujo tópico é HTML (se não possui esse tópico escolha um existente na sua base de dados).
  - c. Questões que possuem os tópicos HTML e CSS (escolha 2 tópicos da sua base)

# Atividade 2 - collection books

No MongoDB Atlas criar uma nova collection chamada booksdb:

1. Importar os dados do arquivo:

<https://github.com/fscheidt/bd2-23/tree/master/data> books.json

2. Executar as seguintes consultas:

- a. Encontre o livro com `_id == 3`
- b. Livros com mais de 1000 paginas
- c. Livros com categoria XML
- d. Total de livros na categoria networking