

Actividad 03. Despliegue clúster MongoDB en la nube

1. Nos registramos desde <https://www.mongodb.com/es/atlas> y accedemos.

The image shows two side-by-side screenshots. On the left is the MongoDB Atlas login page with the title 'Log in to your account'. It features social login options for Google and GitHub, and a 'Sign Up' button. Below these are fields for 'Email Address' containing 'alebernadev@gmail.com' and a 'Next' button. On the right is a promotional card for the 'MongoDB MCP Server'. The title reads 'Introducing the MongoDB MCP Server' and describes connecting to MongoDB databases with AI tools like Cursor, Claude, Windsurf, and Copilot. A 'Try now' button is at the bottom, and there's a stylized 3D geometric illustration of a grid with various shapes.

2. Seguramente nos pida una verificación al correo electrónico.

3. Vista del dashboard

The image shows the MongoDB Atlas Project Overview dashboard for the project 'PracticasBigDataAplicadas'. The left sidebar contains navigation links for Project Overview, DATABASE (Clusters, Search & Vector Search, Data Explorer, Backup), STREAMING DATA (Stream Processing, Triggers), SERVICES (Migration, Data Federation, Visualization), and SECURITY (Security Quickstart, Project Identity & Access, Database & Network Access). The main area displays the 'PracticasBigDataAplicadas Overview' with sections for Clusters (ClusterPracticaBigData, Data Size: 36.42 KB, Connect, Browse collections, View monitoring, + Add Tag) and Application Development (OPTIMIZE YOUR CONNECTION POOL, Use one MongoClient instance per application, Connect new). A toolbar on the right includes Resources, Tips, Performance, Cost, and Resilience.

4. Dar a ver todos los clúster, tengo uno creado anteriormente, lo voy a borrar en ver todos los cluster para iniciar uno nuevo.

5. Crear uno nuevo

Clusters

The screenshot shows the MongoDB Atlas interface for creating a new cluster. A red arrow points to the 'Edit Config' button at the top right. The cluster name 'ClusterPracticaBigData' is visible. A message at the bottom says 'Your cluster is shutting down'.

6. Opción gratuita

Deploy your cluster

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

The screenshot compares three deployment options:

- M10:** \$0.09/hour. Dedicated cluster for development environments and low-traffic applications. Storage: 10 GB, RAM: 2 GB, vCPU: 2 vCPUs.
- Flex:** From \$0.011/hour. Up to \$30/month. For development and testing, with on-demand burst capacity for unpredictable traffic. Storage: 5 GB, RAM: Shared, vCPU: Shared.
- Free:** Ideal for learning and exploring MongoDB in a cloud environment. Storage: 512 MB, RAM: Shared, vCPU: Shared.

A green banner at the bottom states: "Free forever! Your free cluster is ideal for experimenting in a limited sandbox. You can upgrade to a production cluster anytime."

7. Mantener en esta misma pantalla AWS y poner la región. Ademas no olvidarse de poner el nombre del Cluster.

Configurations

Name

You cannot change the name once the cluster is created.

ClusterPrueba

Quick setup

Automate security setup i

Preload sample dataset i

Provider



Region

Paris (eu-west-3) ★ 🌱

★ Recommended i

🌱 Low carbon emissions i

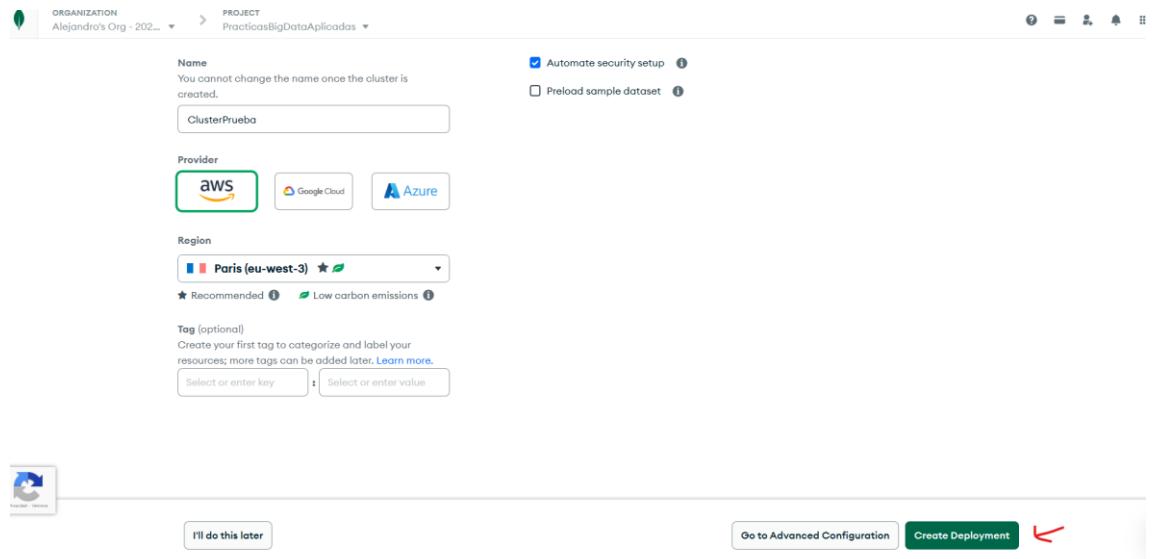
Tag (optional)

Create your first tag to categorize and label your resources; more tags can be added later. [Learn more](#).

Select or enter key

: Select or enter value

8. En la misma pantalla dar a Create Deployment.



- A continuación aparecerá la pantalla de configuración para conectar tu cluster a la aplicación, los drivers.

Connect to your application

- Drivers**: Access your Atlas data using MongoDB's native drivers (e.g. Node.js, Go, etc.)
- Compass**: Explore, modify, and visualize your data with MongoDB's GUI
- Shell**: Quickly add & update data using MongoDB's Javascript command-line interface
- MongoDB for VS Code**: Work with your data in MongoDB directly from your VS Code environment
- Atlas SQL**: Easily connect SQL tools to Atlas for data analysis and visualization

Access your data through tools

Go Back **Close**

- Añadimos las configuraciones, y es muy importante coger la dirección de enlace que nos proporciona para luego hacer nuestra conexión en mongodb
`mongodb+srv://alebernadev_db_user:<db_password>@clusterprueba.6lmp1tc.mongo`

db.net/

Connect to ClusterPrueba

Set up connection security Choose a connection method Connect

Connecting with MongoDB Compass

I don't have MongoDB Compass installed I have MongoDB Compass installed

1. Select your operating system and download MongoDB Compass

macOS x64 (Intel) (11+)

Download Compass (1.48.2) or Copy download URL

Compass is an interactive tool for querying, optimizing, and analyzing your MongoDB data.

2. Copy the connection string, then open MongoDB Compass

Use this connection string in your application

mongodb+srv://alebernadev_db_user:<db_password>@clusterprueba.6lmltc.mongodb.net/

Replace <db_password> with the password for the alebernadev_db_user user. Ensure any options are URL encoded. You can edit your database user password in Database Access.

RESOURCES

11. Tenemos el cluster activo para la conexión

Clusters

Find a database deployment...

Edit Config + Create

ClusterPrueba Connect View Monitoring Browse Collections ... FREE

Visualize Your Data

R: 0 W: Last 7 minutes Connections: 0 In: 0.00 B/s Out: 0.00 B/s Data Size: 0.00 B / 512.00 MB (0%)

Explore Charts Dismiss

VERSION	REGION	TYPE	BACKUPS	LINKED APP SERVICES	ATLAS SQL	ATLAS SEARCH
8.0.17	AWS / Paris (eu-west-3)	Replica Set - 3 nodes	Inactive	None Linked	Connect	Create Index

+ Add Tag

12. Para hacer una nueva conexión en nuestro entorno. Dar a nueva conexión, y poner el enlace que hemos copiado en el recuadro. ATENCION: es importante poner contraseña

de nuestro usuario de Atlas. Posteriormente dar a save & connect

New Connection

Manage your connection settings

URI [?](#) [Edit Connection String](#) [X](#)

```
mongodb+srv://alebernadev_db_user:<db_password>@clusterprueba.6lmpitc.mongodb
```

Name Color

Favorite this connection
favoriting a connection will pin it to the top of your list of connections

[Advanced Connection Options](#)

[Cancel](#) [Save](#) [Connect](#) [Save & Connect](#)

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