

X SEMINARIO DE AUTOMÁTICA

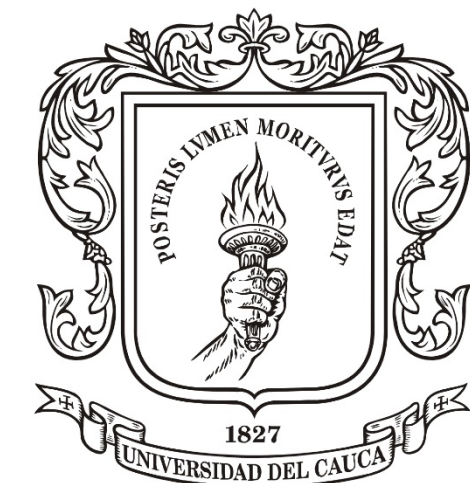
Implementación de Nightscout

Popayán, 27 de septiembre de 2022

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Red Iberoamericana de Tecnologías Aplicadas a la Diabetes

Universidad Miguel Hernández



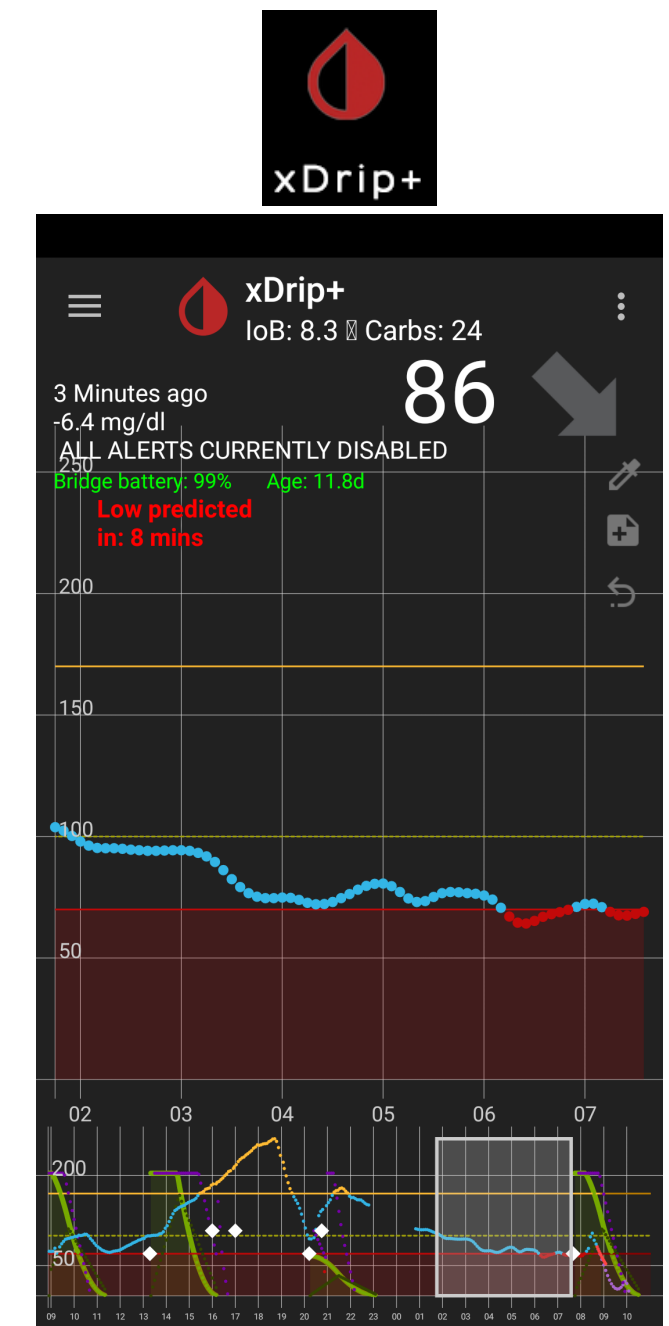
Universidad
del Cauca



Nightscout

¿Qué es?

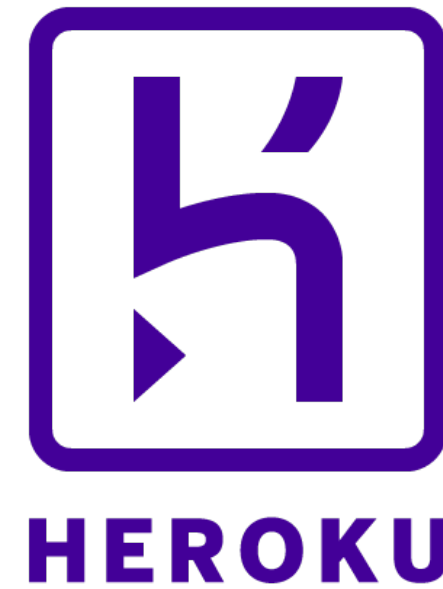
- Aplicación de código abierto
- Monitor continuo de glucosa en la nube
- Visualización en tiempo real del nivel de glucosa, tratamiento de insulina, entre otros



*Imágenes tomada del sitio web oficial de Nightscout: <https://nightscout.github.io/>

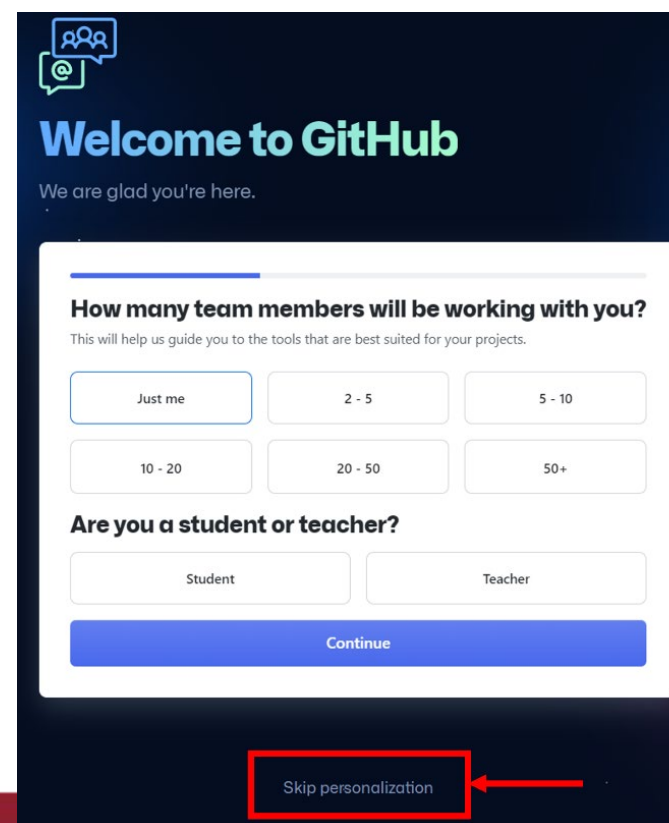
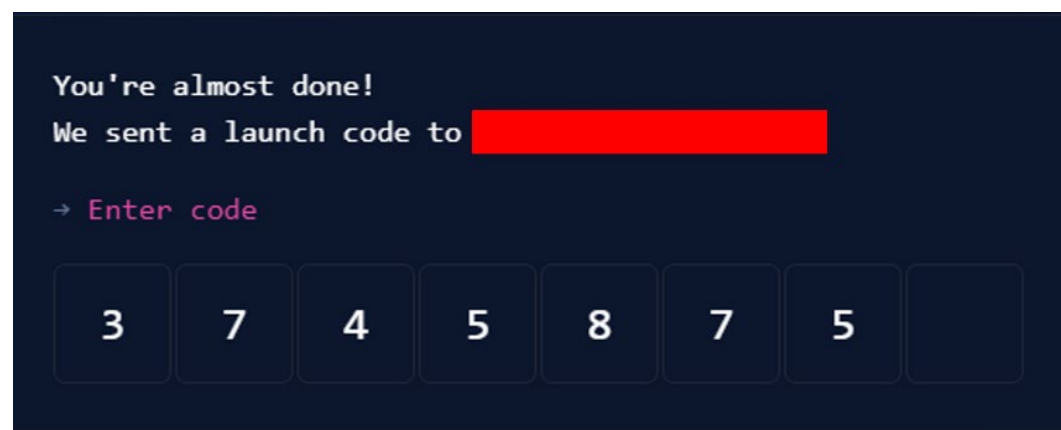
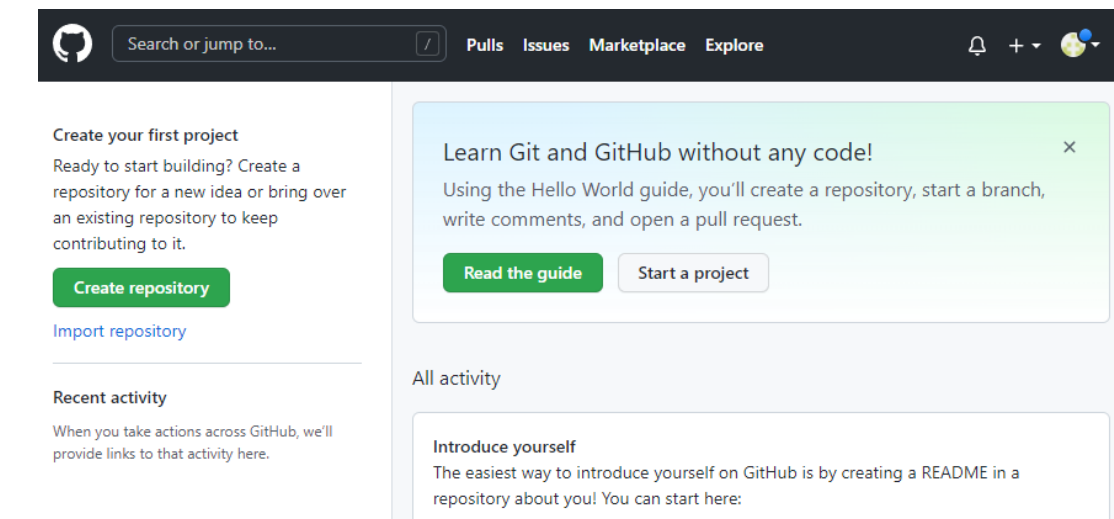
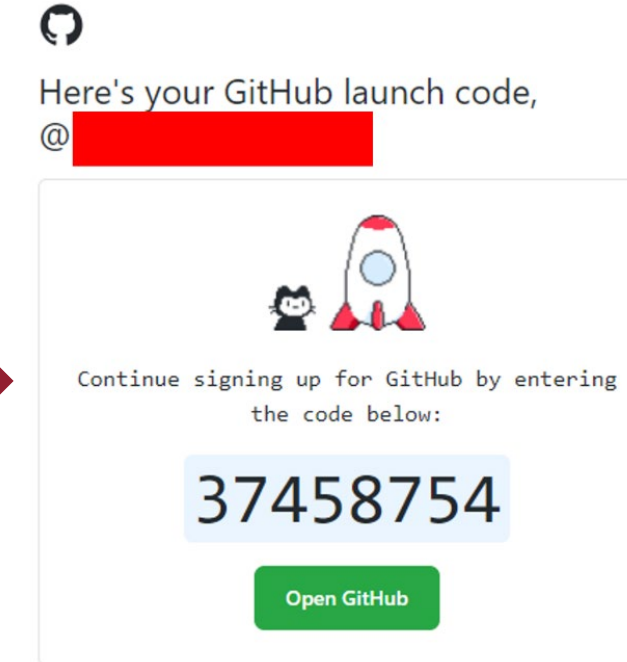
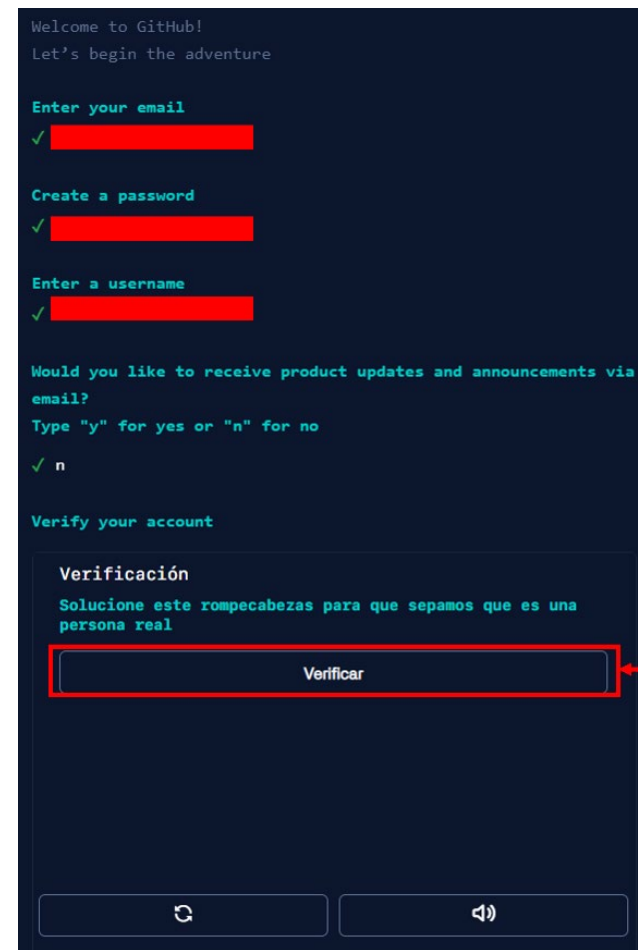
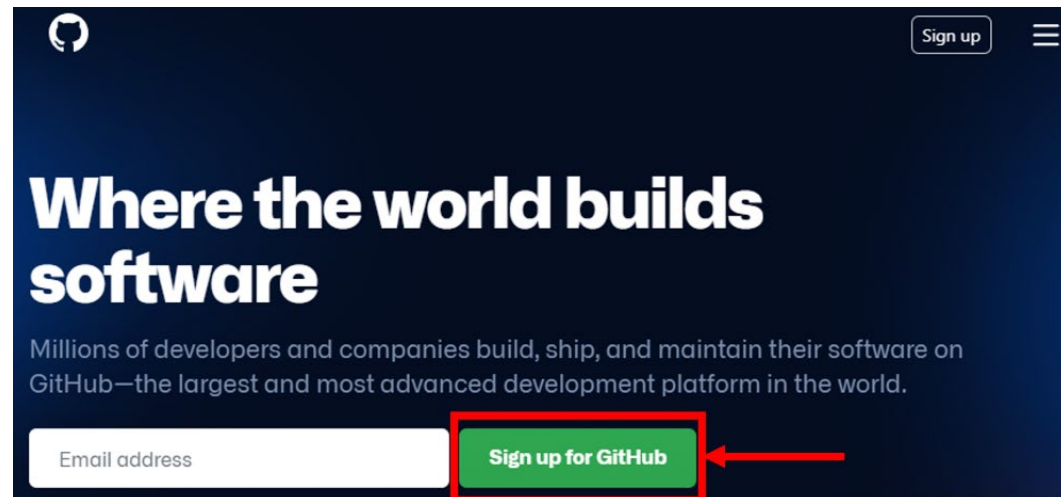
Nightscout

¿Qué necesito para desarrollar mi aplicación?



Cuenta en GitHub

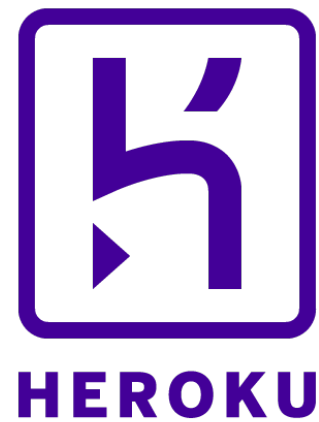
❖ GitHub: <https://github.com/>



Skip personalization

Cuenta en Heroku

❖ Heroku: <https://id.heroku.com/login>



- ✓ Plataforma de computación en la nube
- ✓ Soporta distintos lenguajes de programación
- ✓ Ejecución de aplicaciones en entornos virtuales en tiempo real

❖ **Cuenta de Heroku:**

Correo: ritadiab22@gmail.com

Password: practicasritadiab22*

Correo: ritadiab2022@gmail.com

Password: practicas 2022* **API:** practicasritadiab

Cuenta en Heroku

Sign up for free and experience Heroku today

Free account, Your app platform, Deploy now

First name, Last name, Email address, Company name, Role (Hobbyist), Country, Primary development language (I'm not a developer), I'm not a robot, **CREATE FREE ACCOUNT**

Confirm your account on Heroku

Heroku <noreply@heroku.com> para mí

Thanks for signing up with Heroku! You must follow this link within 30 days of registration to activate your account:

<https://id.heroku.com/account/accept/11235774/d646ba806db6813d>

Set your password

Create your password and log in to your Heroku account.

Create a new password, Password confirmation, Password requirements (8 characters, letters, numbers, symbols, must match), **SET PASSWORD AND LOG IN**

Welcome to Heroku

A new account for @gmail.com is all set up. **CLICK HERE TO PROCEED**

HEROKU Terms of Service

Effective October 1, 2020, you agree that your use of the Heroku Services is governed by the [Salesforce Master Subscription Agreement](#), unless (except for free customers of the Heroku Services) you have a written master subscription agreement executed by salesforce.com for such Heroku Services as referenced in the Documentation, in which case such written salesforce.com master subscription agreement will govern. You further agree that your use or purchase of Heroku Add-ons, Buildpacks or Buttons that are not Heroku Services ("Heroku Elements") are governed by the [Heroku Elements Terms of Use \(Default\)](#), unless the Heroku Elements Marketplace provider has furnished to Heroku a separate terms of use, in which case such provider's terms of use govern the use or purchase of the applicable Heroku Elements. [Additional Terms](#) apply to credit card customers of the Heroku Services.

Accept

HEROKU Welcome to Heroku

Now that your account has been set up, here's how to get started.

Account settings, Notifications, Sign out

HEROKU Manage Account

Account Applications **Billing**

Billing Information

This account does not have a credit card. **Add credit card**

Cuenta en MongoDB Atlas

❖ MongoDB Atlas: <https://www.mongodb.com/es/cloud/atlas/register>



- ✓ Sistema de base de datos orientado a documentos y código abierto
- ✓ Guarda estructuras de datos similares a archivos JSON
- ✓ Almacena y registra eventos

❖ **Cuenta MongoDB Atlas:**

Correo: ritadiab22@gmail.com

Password: PRACTICASRED*

SI SE AUTENTICA POR CORREO, LA CONTRASEÑA ES LA DEL CORREO, NO DE MONGO

Cuenta en MongoDB Atlas

mongoDB Atlas

Empiece gratis
No se necesita tarjeta de crédito

Regístrese con Google

Su empresa (opcional)

Su correo electrónico del trabajo

Nombre

Apellido

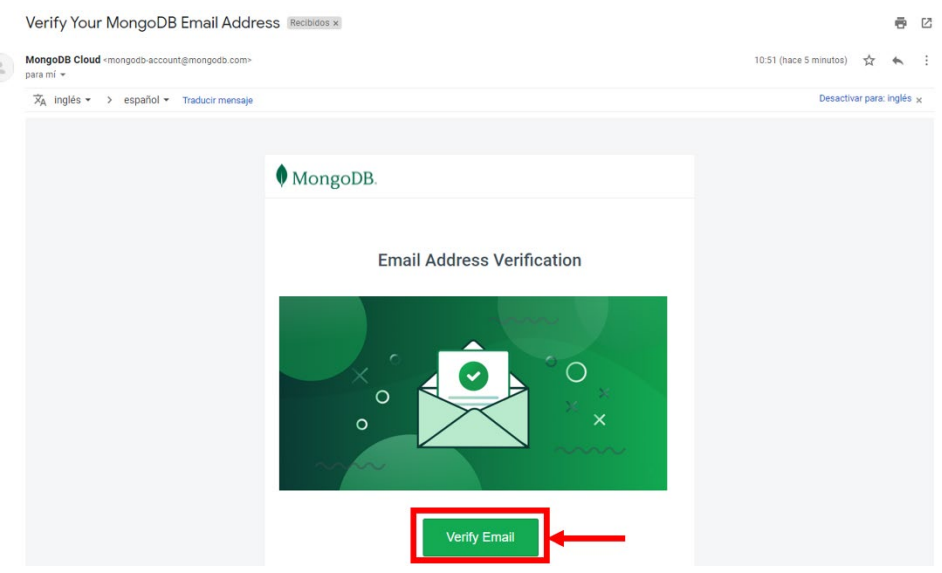
Password

8 caracteres como mínimo

Acepto las condiciones del servicio y la política de privacidad.

Empiece gratis

¿Ya dispone de una cuenta? [Inicie sesión](#)



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

Migrate an existing application

Explore what I can build

Build a new application

What type of application are you building?
Content Management

What is your preferred language?
Other

Finish

FREE

Shared

For learning and exploring MongoDB in a cloud environment. Basic configuration options.

- ✓ No credit card required to start
- ✓ Explore with sample datasets
- ✓ Upgrade to dedicated clusters for full functionality

Create

Starting at **FREE**

Create a Shared Cluster

Welcome to MongoDB Atlas! We've recommended some of our most popular options, but feel free to customize your cluster to your needs. For more information, check our [documentation](#).

PREVIEW Serverless Dedicated **FREE Shared**

For learning and exploring MongoDB in a sandbox environment. Basic configuration controls.
No credit card required to start. Upgrade to dedicated clusters for full functionality. Explore with sample datasets. Limit of one free cluster per project.

Cloud Provider & Region **AWS, Ireland (eu-west-1)**

aws Google Cloud Azure

★ Recommended region Paid tier region

NORTH AMERICA	EUROPE	AUSTRALIA
Oregon (us-west-2) ★	Ireland (eu-west-1) ★	Sydney (ap-southeast-2) ★
N. Virginia (us-east-1) ★	Frankfurt (eu-central-1) ★	ASIA

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

Back **Create Cluster**

MongoDB

Get \$10 in credits for every person you invite to your workspace

Invite users

You'll receive \$10 in credits for every user you invite who signs up and verifies their email. You can redeem these credits by applying it to any organization where you have admin privileges.

Promotion limited to 10 unique users or \$100 in credits.

Email Address	Roles
email@domain.com	Project Owner
email@domain.com	Project Owner
email@domain.com	Project Owner

+ Add another user

Skip Send and Continue

Security Quickstart

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

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

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 Password **Create User**

Cuenta en MongoDB Atlas

2 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.

ADD
ADVANCED

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.

IP Address	Description
0.0.0.0/0	

Add Entry



IP Access List	Description
0.0.0.0/0	

REMOVE

Finish and Close



Congratulations on setting up access rules!

You will now be able to connect to your deployments. You can continue to add and update access rules in [Database Access](#) and [Network Access](#).

Hide Quickstart guide in the navigation. You can visit [Project Settings](#) to access it in the future.

Go to Databases



Database Deployments

Find a database deployment...

Cluster0

Connect View Monitoring Browse Collections ...

R 0 W 0 Connections 0



Connect to Cluster0

Setup connection security Choose a connection method Connect

Choose a connection method [View documentation](#)

Get your pre-formatted connection string by selecting your tool below.

- Connect with the MongoDB Shell
Interact with your cluster using MongoDB's interactive Javascript interface
- Connect your application
Connect your application to your cluster using MongoDB's native drivers
- Connect using MongoDB Compass
Explore, modify, and visualize your data with MongoDB's GUI

Go Back Close



Connect to Cluster0

Setup connection security Choose a connection method Connect

1 Select your driver and version

DRIVER VERSION
Node.js 4.0 or later

2 Add your connection string into your application code

Include full driver code example

```
mongodb+srv://<username>:<password>@cluster0.zhpew.mongodb.net/myFirstDatabase?retryWrites=true&w=majority
```

Replace **<password>** with the password for the **<username>** user. Replace **myFirstDatabase** with the name of the database that connections will use by default. Ensure any option params are URL encoded.

Having trouble connecting? [View our troubleshooting documentation](#)

Go Back

Close



