

CU Bank

Set up guide

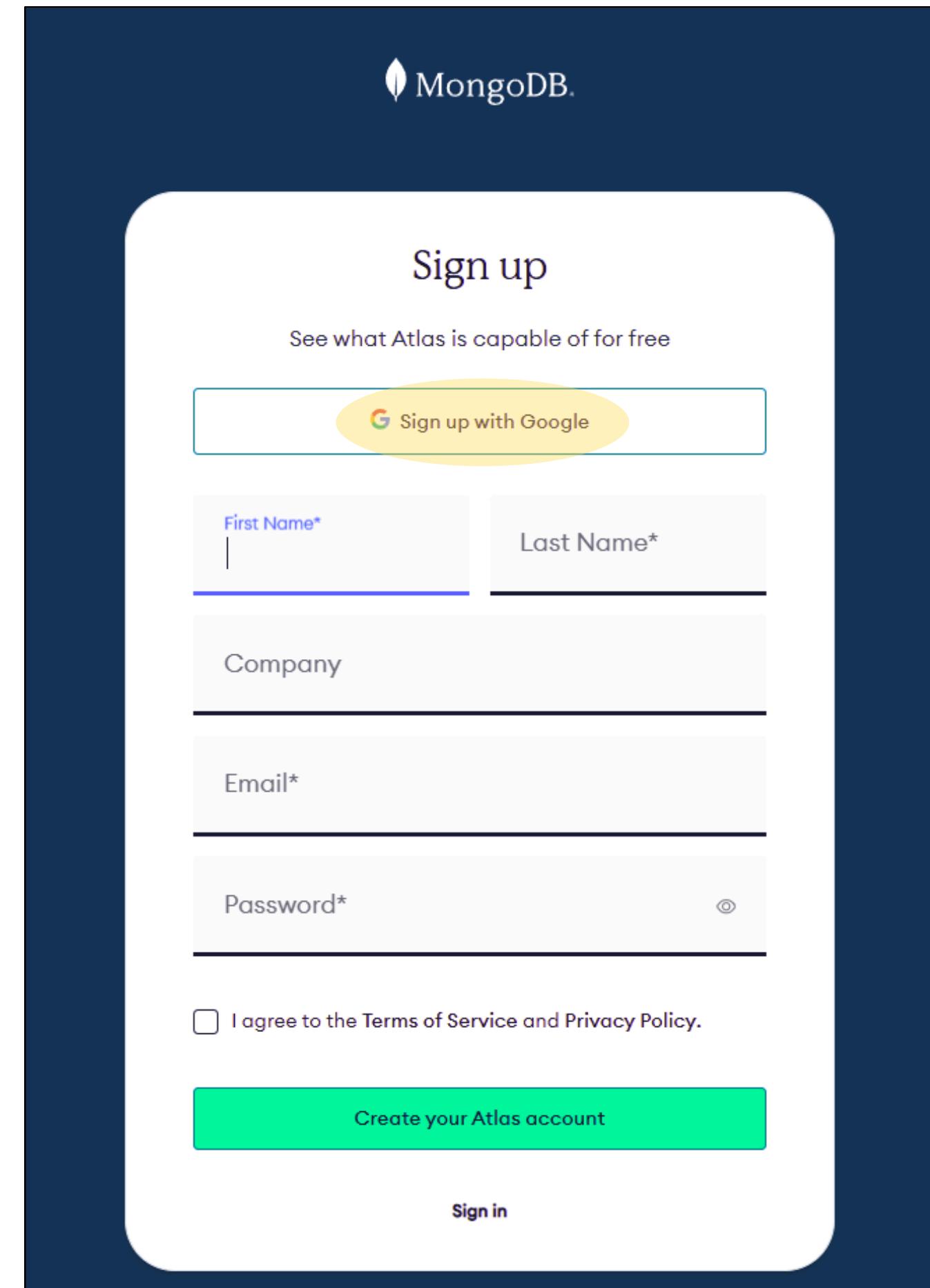
1.เข้าเว็บ mongodb



The World's Leading Modern Database

Get your ideas to market faster with a flexible, AI-ready database.
MongoDB makes working with data easy.





The image shows the MongoDB Atlas sign-up page. At the top, the MongoDB logo is displayed. Below it, the title "Sign up" is centered. A sub-headline "See what Atlas is capable of for free" follows. A yellow button labeled "Sign up with Google" is highlighted with a yellow oval. The form contains fields for "First Name*" (with a blue underline), "Last Name*", "Company" (with a black underline), "Email*", "Password*", and a password strength indicator icon. A checkbox for accepting terms and privacy policy is present. A green button at the bottom reads "Create your Atlas account". A "Sign in" link is located at the bottom right.

MongoDB.

Sign up

See what Atlas is capable of for free

G Sign up with Google

First Name*

Last Name*

Company

Email*

Password*

I agree to the Terms of Service and Privacy Policy.

Create your Atlas account

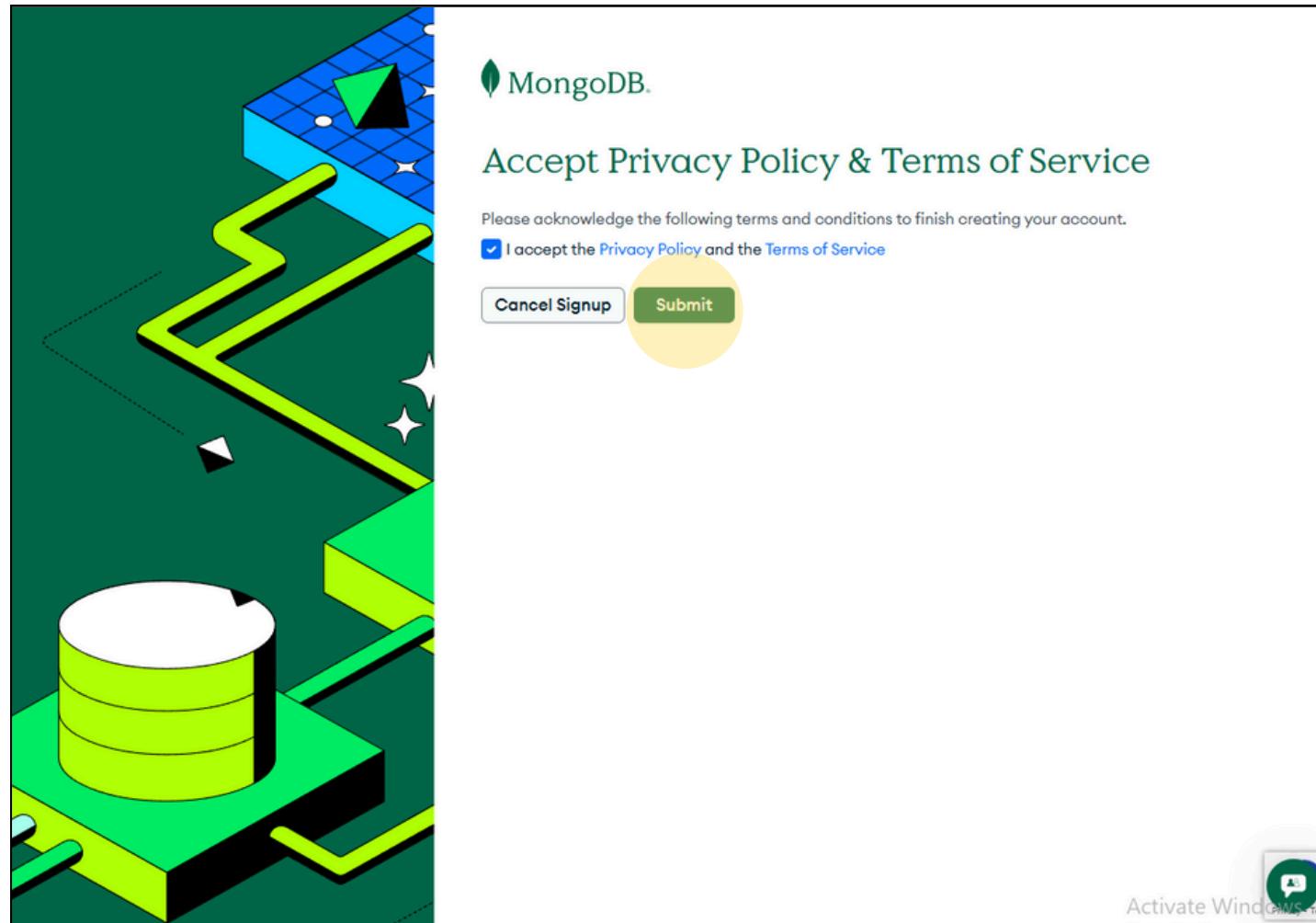
Sign in

ສັນຄະແລະເຂົ້າສູ່ຮະບບທອງ mongodb

Setup สำหรับคนที่ ยังไม่มี บัญชี MongoDB

ใครก็มีบัญชี MongoDB อยู่แล้วให้ข้ามไปหน้าที่ 11

New User



1.Accept Privacy Policy & Terms of Service

A screenshot of the Atlas welcome screen. It features a green header with the Atlas logo and the text "Welcome to Atlas. Let's build something great.". A note says "Help us tailor your experience by taking a minute to answer the questions below." Below are two sections: "GETTING TO KNOW YOU" and "GETTING TO KNOW YOUR PROJECT", each with dropdown menus for selecting answers. A yellow circle highlights the "Skip personalization" button at the bottom right.

2.กดปุ่ม Skip ได้ทางล่างนี้

Create Deployment

The screenshot shows the 'Create Deployment' interface in MongoDB Atlas. It displays three deployment options: M10 (\$0.09/hour), Flex (From \$0.011/hour), and Free. The Free option is selected and highlighted with a green border. Below the options, a note says 'Free forever! Your free cluster is ideal for experimenting in a limited sandbox. You can upgrade to a production cluster anytime.' The 'Configurations' section includes fields for 'Name' (CUBankCluster), 'Provider' (aws), and 'Region' (Singapore (ap-southeast-1)). Under 'Quick setup', there are checkboxes for 'Automate security setup' and 'Preload sample dataset'. At the bottom, there are buttons for 'I'll do this later', 'Go to Advanced Configuration', 'Activate Windows', 'Create Deployment', and 'I'll activate Windows later'.

3.สร้าง Cubank Cluster

The screenshot shows the 'Connect to CUBankCluster' dialog. It consists of three steps: 1. Set up connection security (highlighted with a green border), 2. Choose a connection method, and 3. Connect. Step 1 contains instructions to secure the MongoDB Atlas cluster by setting access users and IP addresses. Step 2, 'Add a connection IP address', shows that the current IP address (184.22.145.3) has been added for local connectivity. Step 3 is partially visible. The 'Create Database User' button in the 'Usernames' section is highlighted with a yellow circle, and the 'Copy' button next to the password field is also highlighted.

4.สร้าง Database User

Connect to CuBankCluster

1 Set up connection security 2 Choose a connection method 3 Connect

You need to secure your MongoDB Atlas cluster before you can use it. Set which users and IP addresses can access your cluster now. [Read more](#)

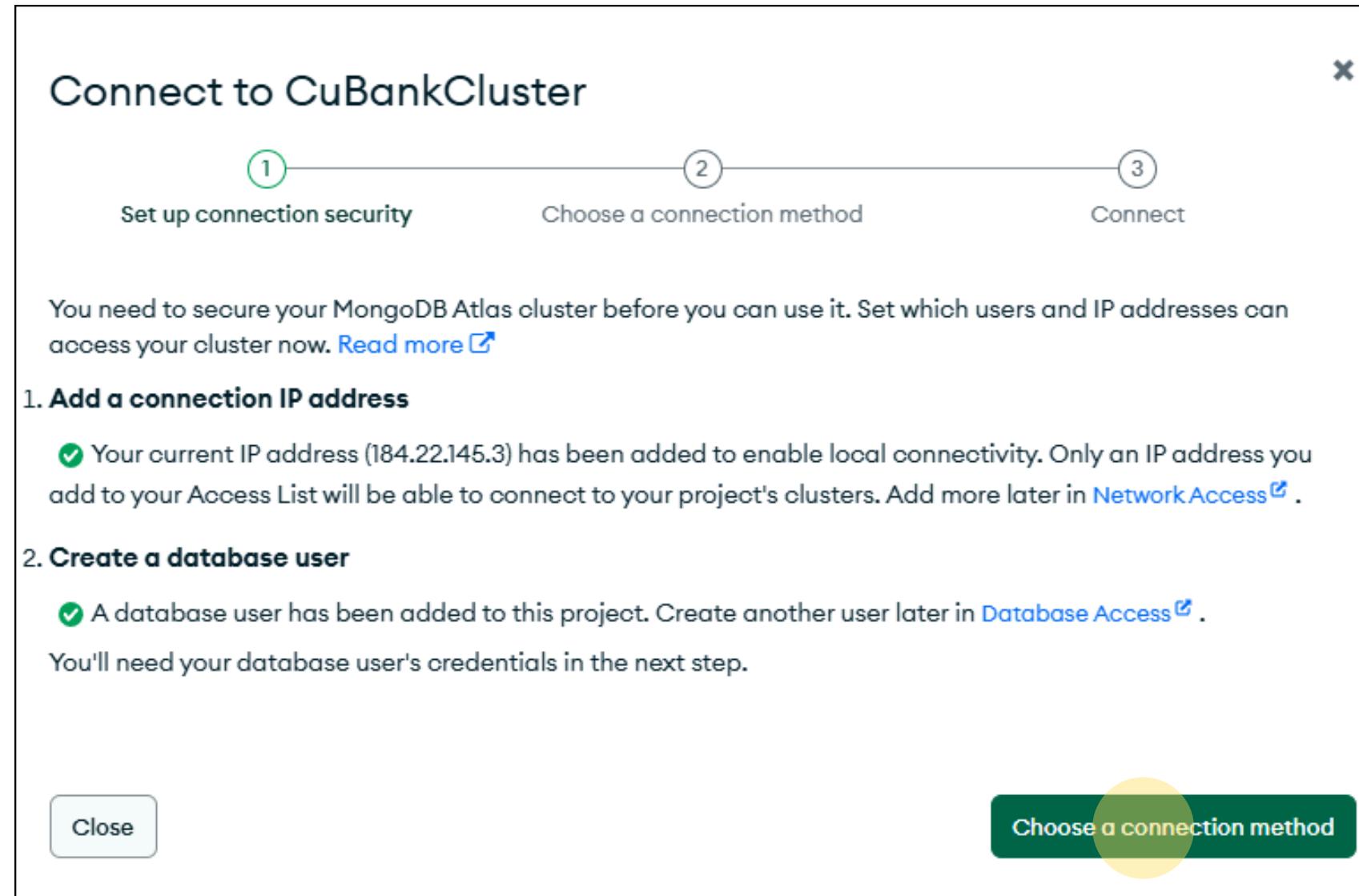
1. Add a connection IP address

Your current IP address (184.22.145.3) has been added to enable local connectivity. Only an IP address you add to your Access List will be able to connect to your project's clusters. Add more later in [Network Access](#).

2. Create a database user

A database user has been added to this project. Create another user later in [Database Access](#). You'll need your database user's credentials in the next step.

[Close](#) [Choose a connection method](#)



Connect to CuBankCluster

1 Set up connection security 2 Choose a connection method 3 Connect

Connect to your application

 Drivers Access your Atlas data using MongoDB's native drivers (e.g. Node.js, Go, etc.)

Access your data through tools

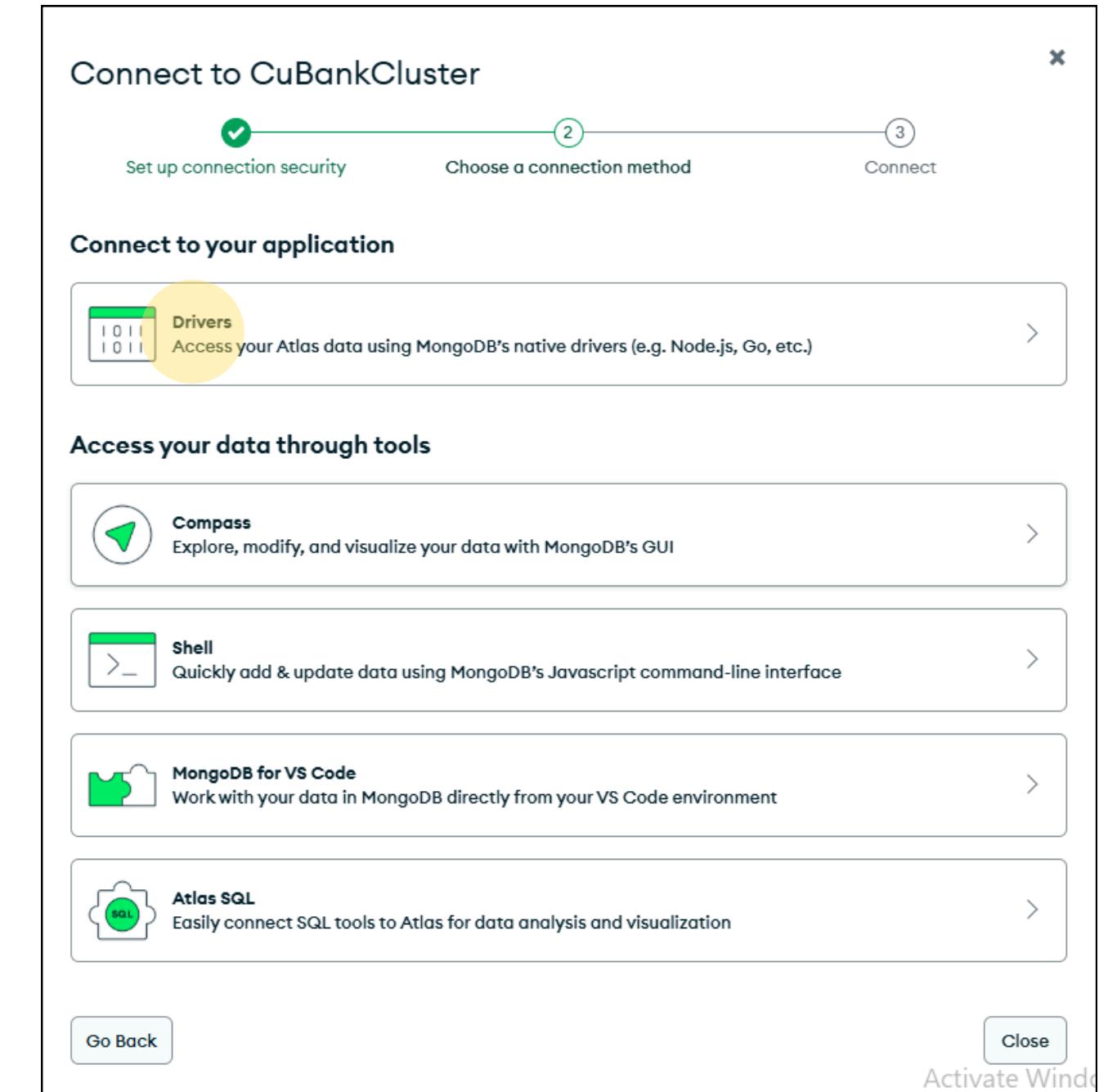
 Compass Explore, modify, and visualize your data with MongoDB's GUI

 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

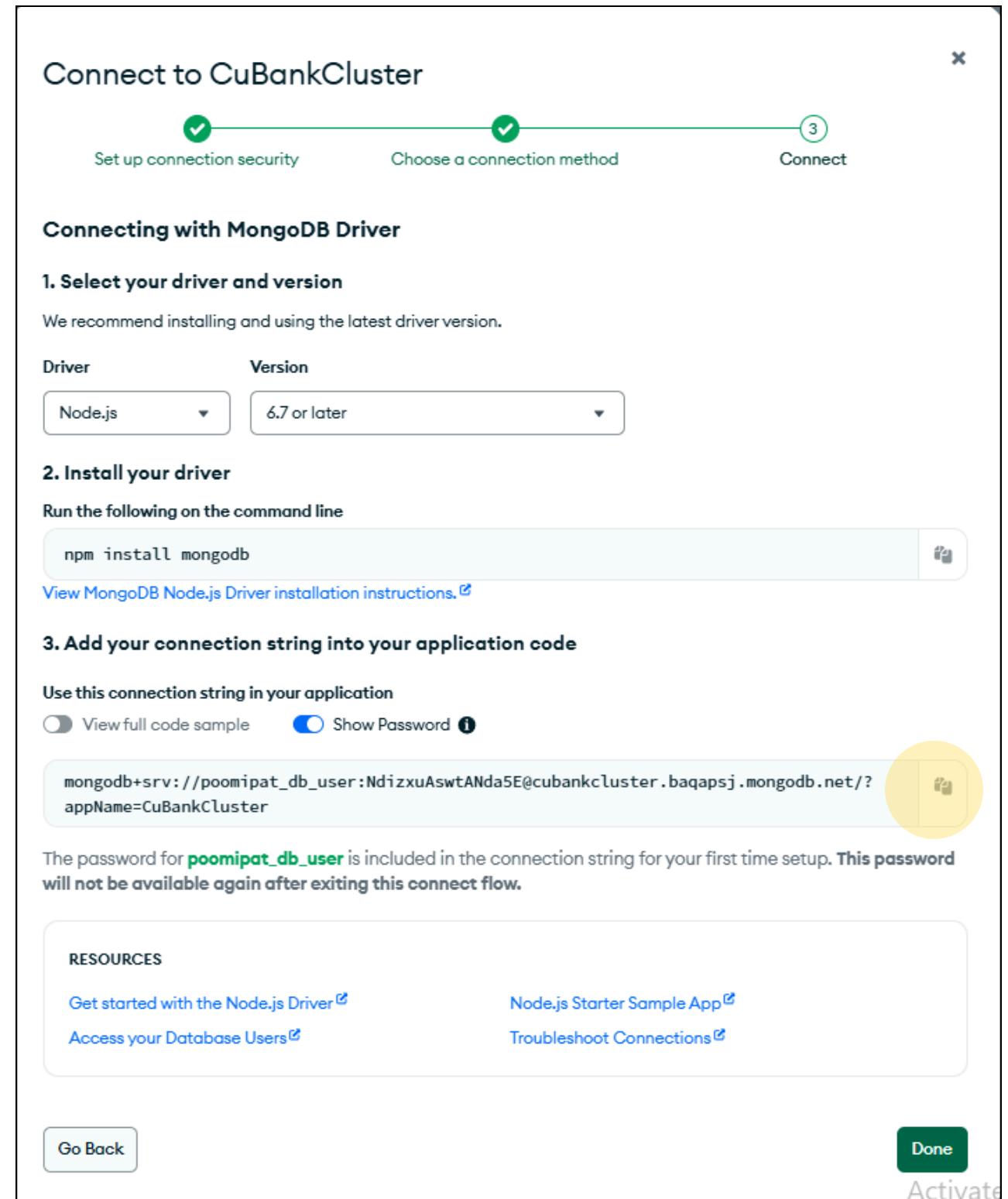
 Atlas SQL Easily connect SQL tools to Atlas for data analysis and visualization

[Go Back](#) [Close](#) [Activate Window](#)



5.เลือก a connection method

6.Select Drivers



7.Copy Connection String

```
1 PORT = 4000
2 NODE_ENV = development
3 MONGO_URI =
4 JWT_SECRET = system_testing
5 JWT_EXPIRE = 30d
6 JWT_COOKIE_EXPIRE = 30
```

8. เปิดไฟล์ config.env จาก directory : cubank/backend/config/config.env

```
1 PORT = 4000
2 NODE_ENV = development
3 MONGO_URI = mongodb+srv://rattasan:<db_password>@cu-bank.2b0bqcp.mongodb.net/?retryWrites=true&w=majority&appName=cu-bank
4 JWT_SECRET = system_testing
5 JWT_EXPIRE = 30d
6 JWT_COOKIE_EXPIRE = 30
```

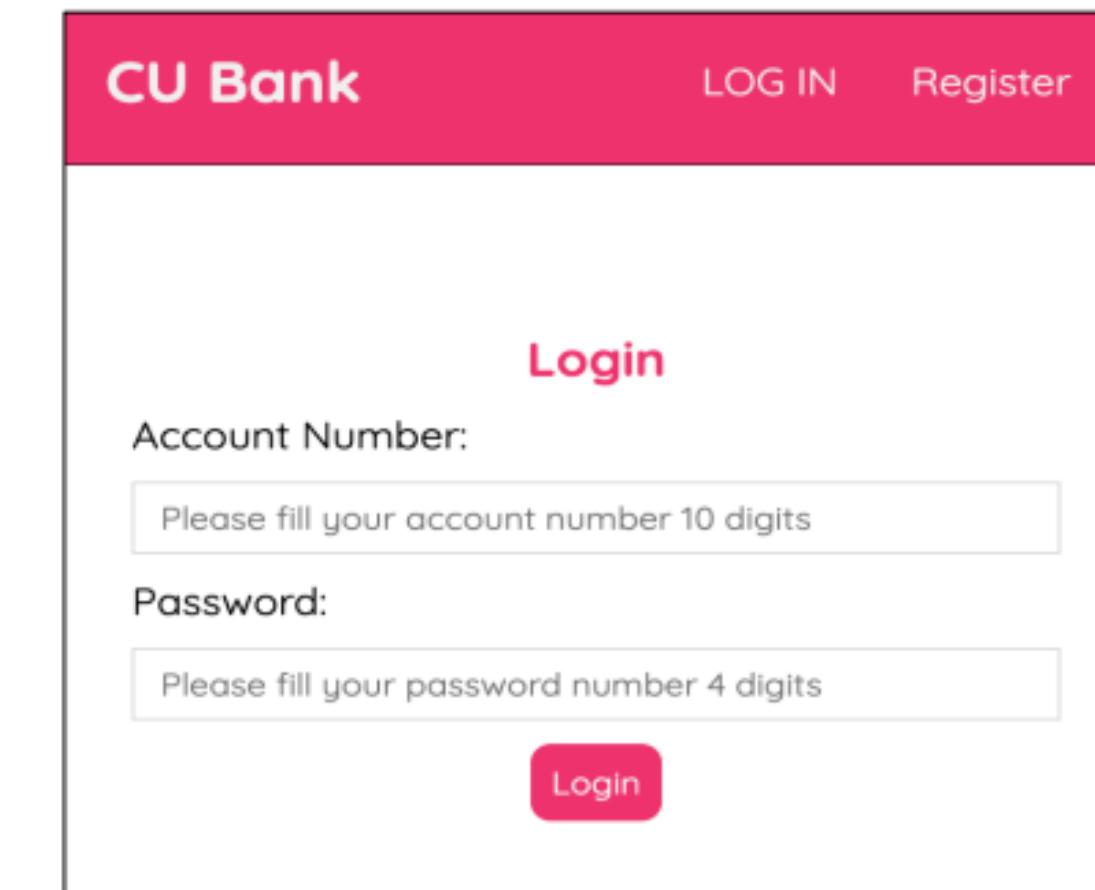
9. งานค่า connection string ที่ตัวแปลง MONGO_URI และกรอก password ลงไปและบันทึกไฟล์ config (ต้องกรอก password ให้ลับเครื่องหมาย <> ออกรอได้วย)

10.รันระบบ backend

- 1.เปิด terminal ไปที่ directory : backend
- 2.รันคำสั่งเพื่อติดตั้ง dependencies (รันครั้งแรกครั้งเดียว)
 - npm install
 - npm install mongodb
- 3.รันคำสั่งเพื่อเปิดการทำงานของ backend ด้วยคำสั่ง
 - npm run start

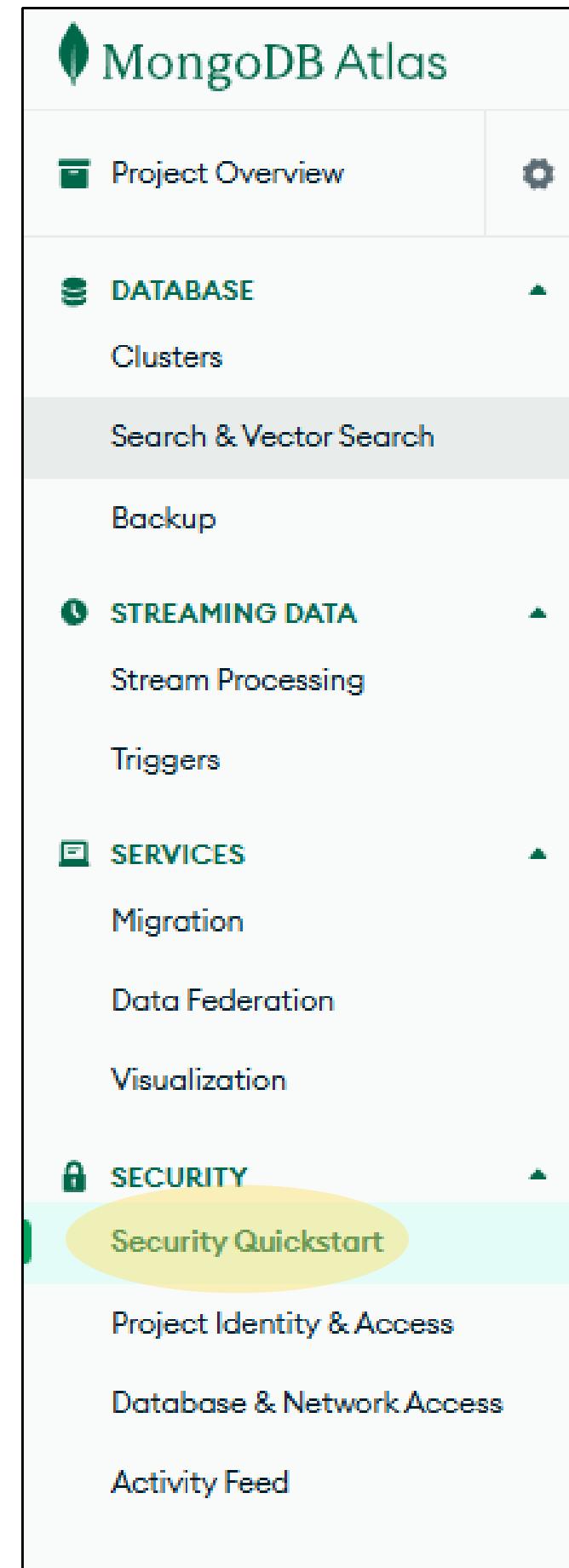
11.รันระบบ frontend

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 - npm run start
- 4.เปิด url : http://localhost:3000 จะได้หน้า log in



หลังจากรันครบก็ 2 ระบบแล้ว ให้กดสร้าง account เพื่อตรวจสอบการทำงานของระบบ

Setup สำหรับคนที่มีบัญชี MongoDB



1. คลังເຫັນສູ່ຮະບບໃກ້ດ້ວຍເມນຸ Security Quickstart

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 *Atlas Admin* privilege by default. You can update these permissions and/or create additional users later. Ensure these credentials are different to your Atlas username and password.

Username

rattasan

Password 

.....

 Autogenerate Secure Password

 Copy

Create User

2.ตั้งค่า username, password ของตัวเองและกดปุ่ม Create User

Create a database user using a username and password. Users will be given the *Atlas Admin* privilege by default. You can update these permissions and/or create additional users later. Ensure these credentials are different to your Atlas username and password. You can manage existing users via the [Database Access Page](#).

Username

Enter username

Password 

Enter password

 Autogenerate Secure Password

 Copy

Create User

Success! Please keep your credentials
to connect to your cluster.

Username

rattasan

Authentication Type

Password



EDIT



REMOVE

3.หน้าจอแสดงผลหลังจากเพิ่ม username, password สำเร็จ

MongoDB Atlas

ORGANIZATION
Rattasan's Org - 202...

PROJECT
testing

Project Overview

DATABASE

- Clusters
- Search & Vector Search
- Backup

STREAMING DATA

- Stream Processing
- Triggers

SERVICES

- Migration
- Data Federation
- Visualization

SECURITY

Security Quickstart

- Project Identity & Access
- Database & Network Access
- Activity Feed

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

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
0.0.0.0/0	CU Bank

Add My Current IP Address

Add Entry

IP Access List Description

Finish and Close

4. ក្រសោតាំ IP Address : 0.0.0.0/0 , Description : CU Bank និងការបញ្ចូល Add Entry

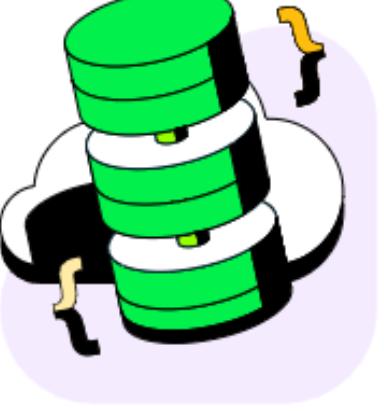
MongoDB Atlas

ORGANIZATION Rattasan's Org - 202... PROJECT testing

Project Overview DATABASE Clusters Search & Vector Search Backup STREAMING DATA Stream Processing Triggers SERVICES Migration Data Federation Visualization SECURITY Project Identity & Access Database & Network Access Activity Feed

Your organization does not have a designated security contact. Add an Atlas Security Contact in [Organization Settings](#) to receive security-related notifications.

testing Overview



Create a cluster

Choose your cloud provider, region, and specs.

+ Create

5.ມາກີ່ Project Overview ໂດຍ Create

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.

M10

\$0.09/hour

Dedicated cluster for development environments and low-traffic applications.

STORAGE

RAM

vCPU

10 GB

2 GB

2 vCPUs

Flex

From \$0.011/hour

Up to \$30/month

For development and testing, with on-demand burst capacity for unpredictable traffic.

STORAGE

RAM

vCPU

5 GB

Shared

Shared

Free

For learning and exploring MongoDB in a cloud environment.

STORAGE

RAM

vCPU

512 MB

Shared

Shared



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

Configurations

Name

You cannot change the name once the cluster is created.

cu-bank

Provider

aws

Google Cloud

Azure

Region

Singapore (ap-southeast-1) ★

★ Recommended

Low carbon emissions

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

Quick setup

Automate security setup

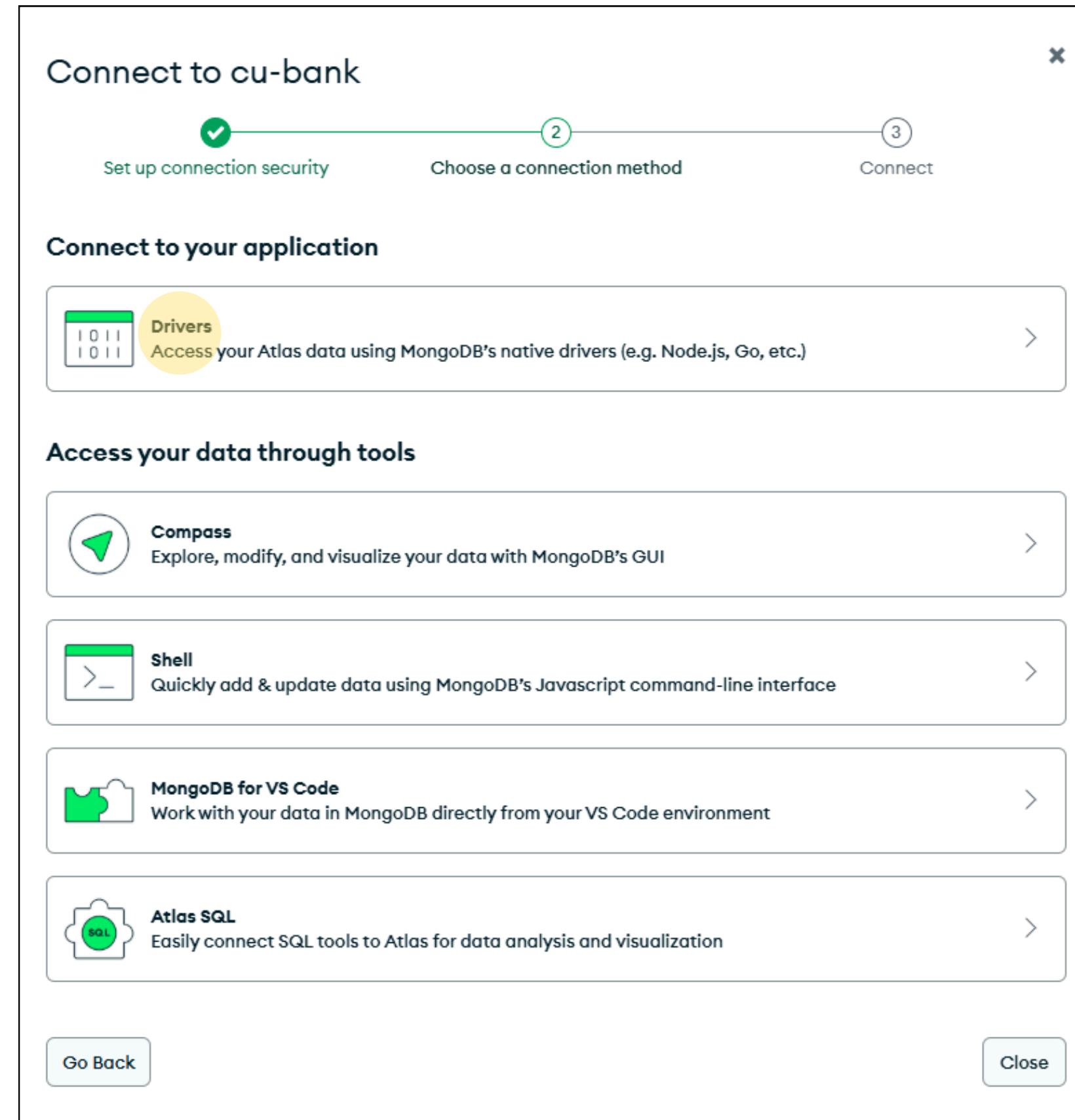
Preload sample dataset

I'll do this later

Go to Advanced Configuration

Create Deployment

6.เลือก deploy cluster : Free, Name : cu-bank, Provider : AWS แล้วกดปุ่ม Create Deployment



7. នគរបាល Drivers

Connect to cu-bank

Set up connection security Choose a connection method Connect

Connecting with MongoDB Driver

1. Select your driver and version

We recommend installing and using the latest driver version.

Driver	Version
Node.js	6.7 or later

2. Install your driver

Run the following on the command line

```
npm install mongodb
```

[View MongoDB Node.js Driver installation instructions.](#)

3. Add your connection string into your application code

Use this connection string in your application

View full code sample

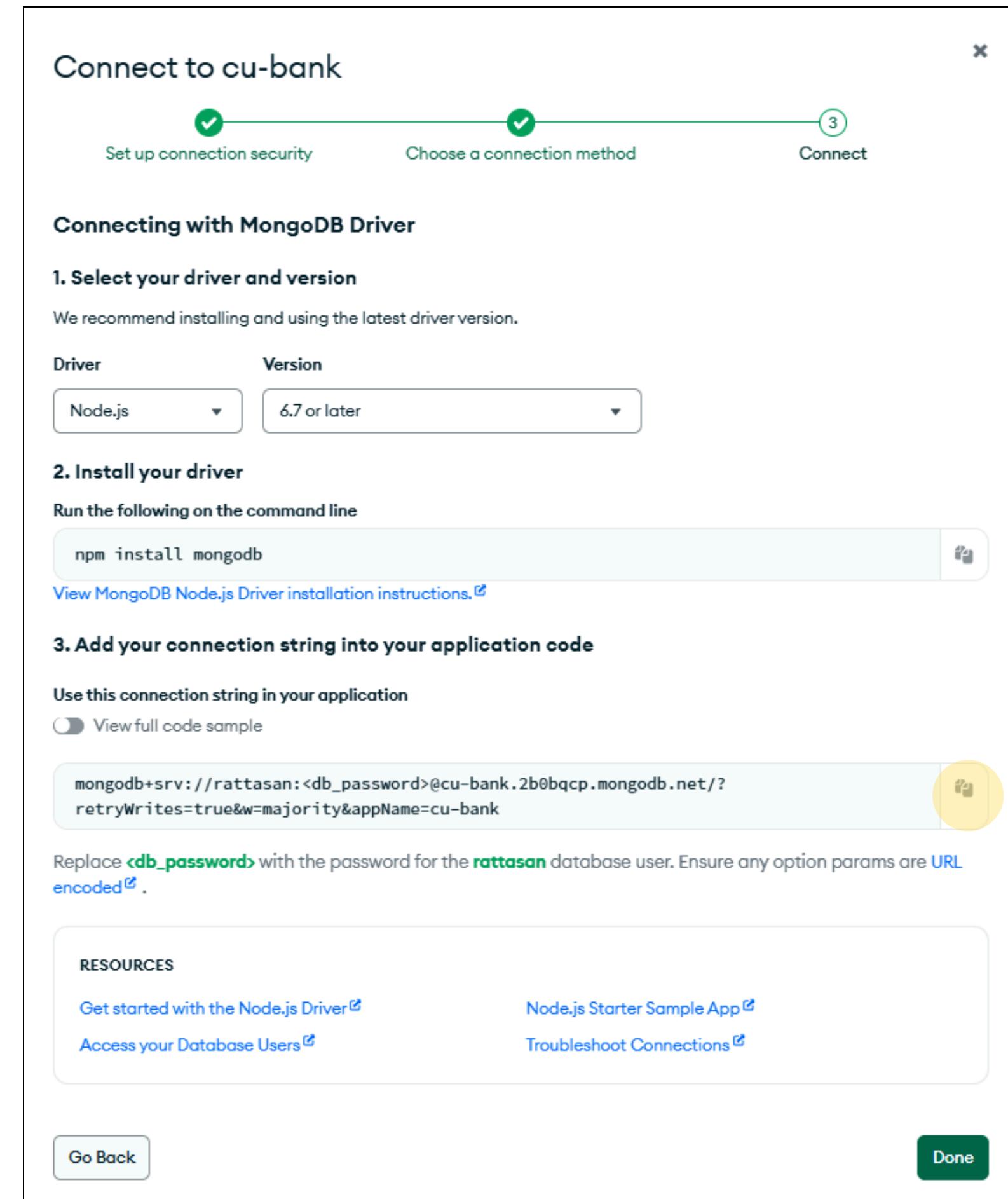
```
mongodb+srv://rattasan:<db_password>@cu-bank.2b0bqcp.mongodb.net/?retryWrites=true&w=majority&appName=cu-bank
```

Replace `<db_password>` with the password for the `rattasan` database user. Ensure any option params are [URL encoded](#).

RESOURCES

[Get started with the Node.js Driver](#) [Node.js Starter Sample App](#)
[Access your Database Users](#) [Troubleshoot Connections](#)

Go Back Done



8. กดปุ่ม copy ค่า connection string

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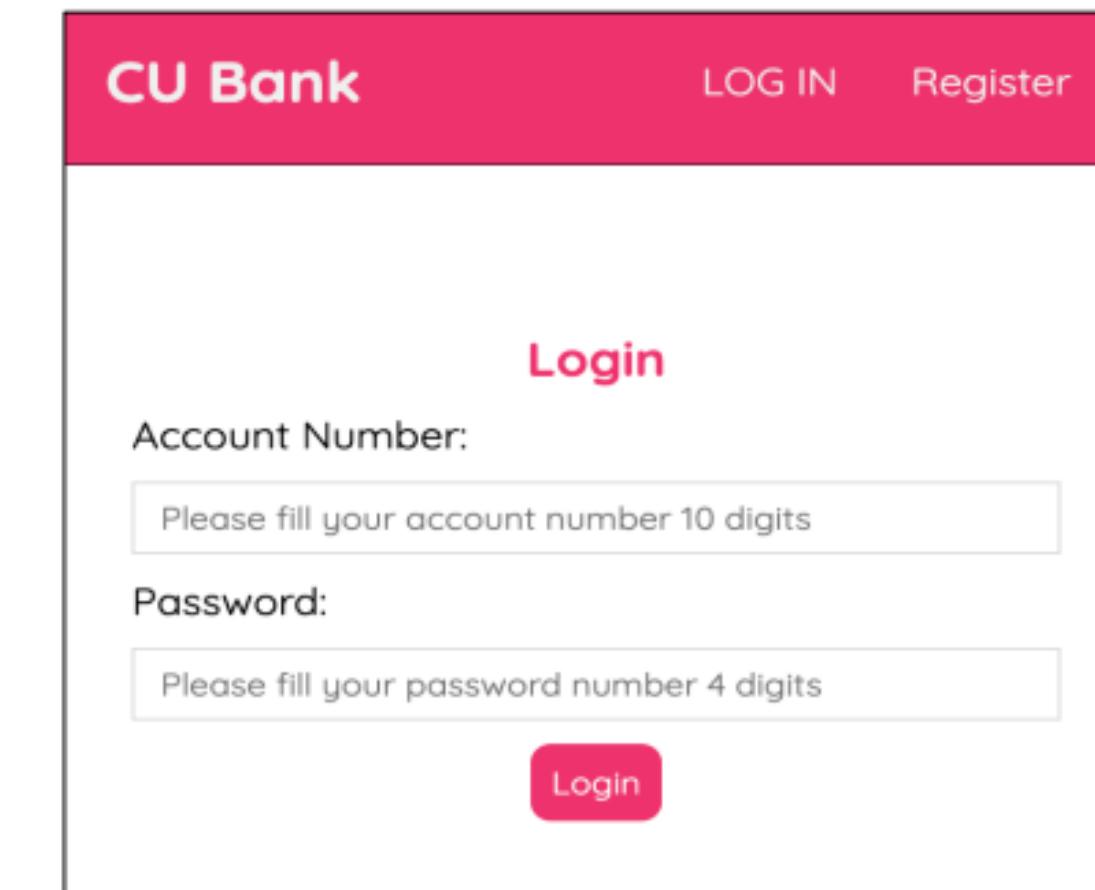
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Setup สำหรับ กรณีที่ต้องการใช้ MongoDB ร่วมกัน

MongoDB Atlas

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