Creating our database in the cloud
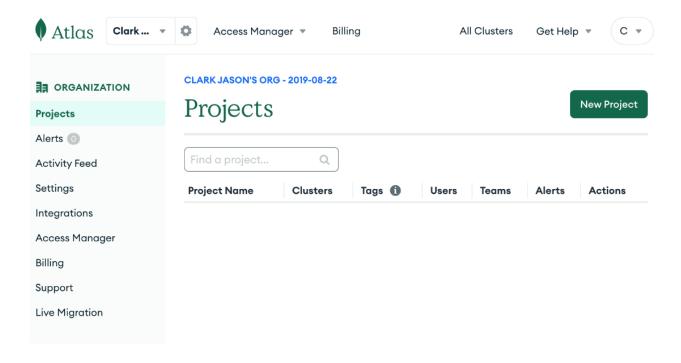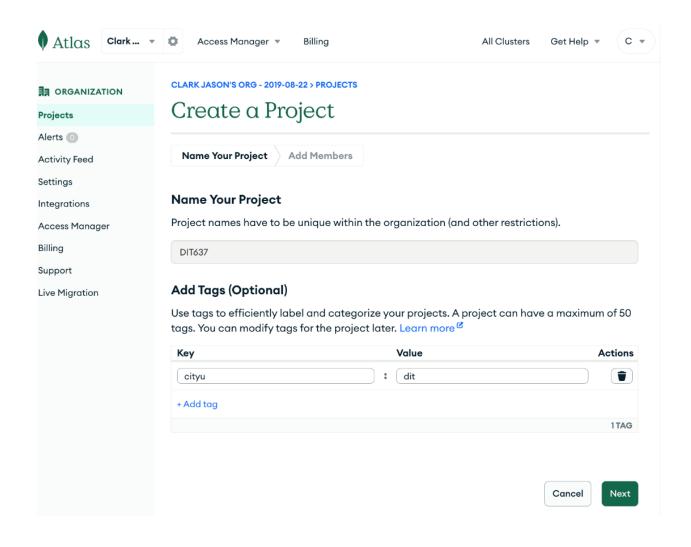
MongoDB Atlas and Load Sample Data

1. Create an account in MongoDB Atlas.
2. Create a New Project and follow along with the screenshot. Use any values when required and use any default values if given.
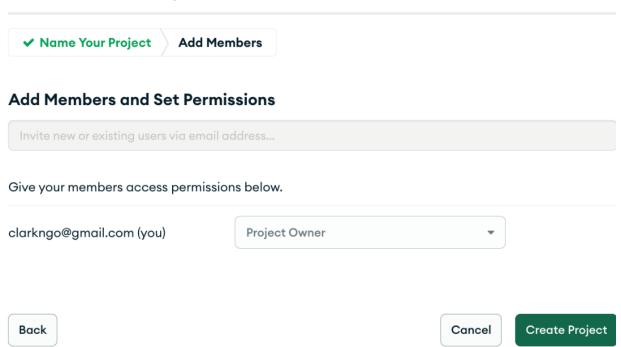
You can name your project with any name you want.

Clark ... ⚙   Access Manager ▾   Billing   All Clusters   Get Help ▾   C ▾

⊞ ORGANIZATION

Projects

Alerts ⓪

Activity Feed

Settings

Integrations

Access Manager

Billing

Support

Live Migration

Create a Project

Name Your Project ⟩ Add Members

Name Your Project

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

DIT637

Add Tags (Optional)

Use tags to efficiently label and categorize your projects. A project can have a maximum of 50 tags. You can modify tags for the project later. Learn more ⧉

Key	Value	Actions
cityu	⋮ dit	🗑

+ Add tag

1 TAG

Cancel   Next

Create a Project

✔ **Name Your Project** ❭ **Add Members**

Add Members and Set Permissions

Invite new or existing users via email address...

Give your members access permissions below.

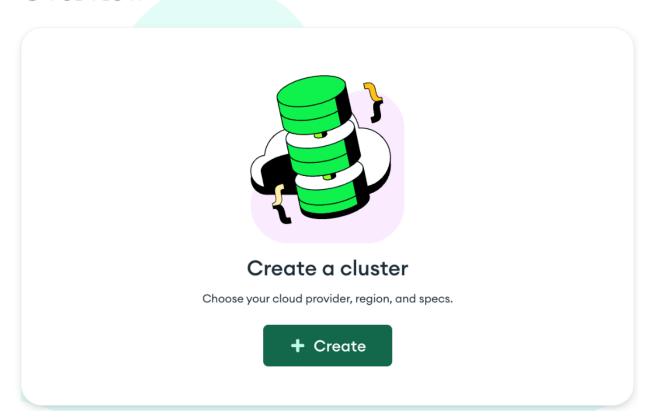clarkngo@gmail.com (you)   Project Owner ▾

Back   Cancel   **Create Project**

Choose M0 Free. Select the provider (AWS) and the region according to your location.

Overview

Create a cluster
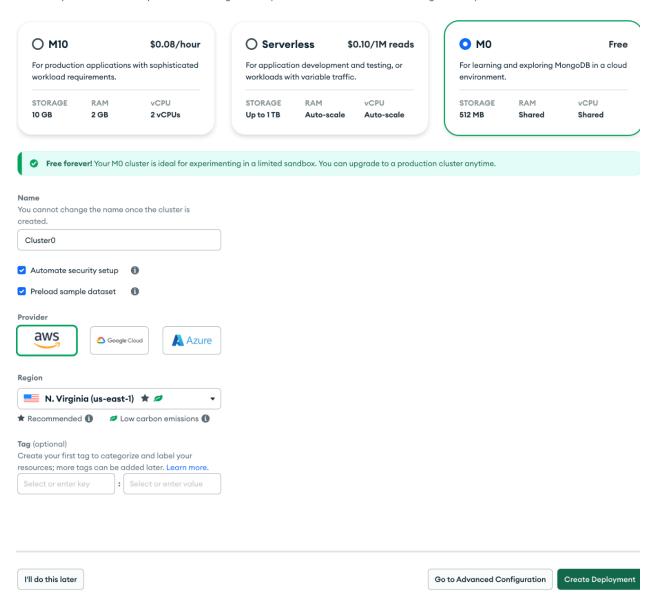
Choose your cloud provider, region, and specs.

+ Create

Select the AWS as provider and your region.

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**	$0.08/hour
For production applications with sophisticated workload requirements.	

STORAGE	RAM	vCPU
10 GB	2 GB	2 vCPUs

○ **Serverless**	$0.10/1M reads
For application development and testing, or workloads with variable traffic.	

STORAGE	RAM	vCPU
Up to 1 TB	Auto-scale	Auto-scale

● **M0**	Free
For learning and exploring MongoDB in a cloud environment.	

STORAGE	RAM	vCPU
512 MB	Shared	Shared

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

Name
You cannot change the name once the cluster is created.

Cluster0

☑ Automate security setup ⓘ

☑ Preload sample dataset ⓘ

Provider

aws   Google Cloud   Azure

Region

🇺🇸 N. Virginia (us-east-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

I'll do this later   Go to Advanced Configuration   Create Deployment

7. Copy and save your password (if you lose it, you can regenerate a new one in left pane side menu 'Database Access' under 'SECURITY').

Connect to Cluster0

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 (152.44.208.138) has been added to enable local connectivity. Add another later in Network Access ⬈ .

2. **Create a database user**

   This first user will have atlasAdmin ⬈ permissions for this project.

   We autogenerated a username and password. You can use this or create your own.

   ⓘ **You'll need your database user's credentials in the next step. Copy the database user password.**

   Username

   | clarkngo |

   Password

   | | HIDE | 📋 Copy

   Create Database User

   Close   Choose a connection method

Connect to Cluster0

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

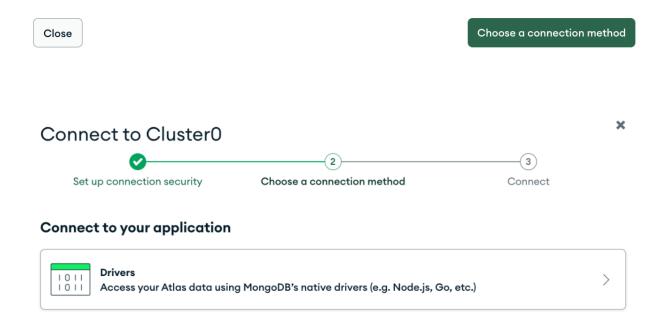You need to secure your MongoDB Atlas cluster before you can use it. Set which users and IP addresses can access your cluster now. Read more ☑

1. **Add a connection IP address**

   ✅ Your current IP address (152.44.208.138) has been added to enable local connectivity. Add another 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 Cluster0

✅ 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.)	›

Replace the <password> (including <>) with the password you copied when you created a user. Copy the 'mongodb' connection string in a notepad for now.

3. Add your connection string into your application code

View full code sample   Show Password ⓘ

```
mongodb+srv://clarkngo:<password>@cluster0.rhkmsrr.mongodb.net/?
retryWrites=true&w=majority&appName=Cluster0
```

Replace **<password>** with the password for the **clarkngo** 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

Click the 'Browse Collection.'

Overview

Clusters

Create cluster   •••

Cluster0

✅ Sample Dataset successfully loaded! Browse this collection.

Connect   Edit configuration

Browse collections   →

View monitoring   →

+ Add Tag

It should have a preloaded sample database: 'sample_mflix'

⚲ ClusterO

Overview   Real Time   Metrics   **Collections**   Atlas Search   Performance Advisor   Online A

DATABASES: 1   COLLECTIONS: 6

📊 VISUALIZE YOUR DATA   ⟳ REFRESH

+ Create Database

🔍 Search Namespaces

▽ **sample_mflix**

| **comments**

embedded_movies

movies

sessions

theaters

users

sample_mflix.comments

STORAGE SIZE: 5.7MB   LOGICAL DATA SIZE: TOTAL DOCUMENTS: INDEXES TOTAL SIZE:

11.14MB   41079   1.12MB

Find   Indexes   Schema Anti-Patterns ⓪   Aggregation   Search Indexes

Generate queries from natural language in Compass⬈   INSERT DOCUMENT

Filter⬈   Type a query: { field: 'va   Reset   **Apply**   Options ▸

QUERY RESULTS: **1-20 OF MANY**

```
_id: ObjectId('5a9427648b0beebeb69579e7')
name : "Mercedes Tyler"
email : "mercedes_tyler@fakegmail.com"
movie_id : ObjectId('573a1390f29313caabcd4323')
text : "Eius veritatis vero facilis quaerat fuga temporibus.
        Praesentium exped…"
date : 2002-08-18T04:56:07.000+00:00
```

```
_id: ObjectId('5a9427648b0beebeb69579f5')
name : "John Bishop"
email : "john_bishop@fakegmail.com"
movie_id : ObjectId('573a1390f29313caabcd446f')
text : "Id error ab at molestias dolorum incidunt. Non deserunt
        praesentium do…"
date : 1975-01-21T00:31:22.000+00:00
```

```
_id: ObjectId('5a9427648b0beebeb6957a21')
name : "Jaqen H'ghar"
email : "tom_wlaschiha@gameofthron.es"
movie_id : ObjectId('573a1390f29313caabcd516c')
text : "Minima odit officiis minima nam. Aspernatur id
        reprehenderit eius inve…"
date : 1981-11-08T04:32:25.000+00:00
```

10. Allow Network access. Go to Network Access under Security.

Overview

Click the 'ADD IP ADDRESS.'

Network Access

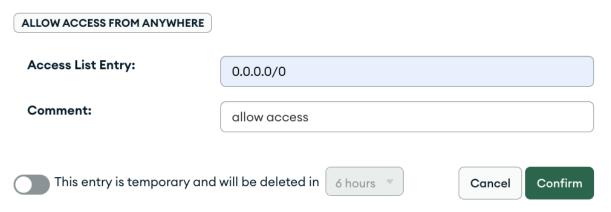**IP Access List**   Peering   Private Endpoint

+ ADD IP ADDRESS

12. Add '0.0.0.0/0'

Add IP Access List Entry   ✖

Atlas only allows client connections to a cluster from entries in the project's IP Access List. Each entry should either be a single IP address or a CIDR-notated range of addresses. Learn more.

ALLOW ACCESS FROM ANYWHERE

Access List Entry: 0.0.0.0/0

Comment: allow access

⬤ This entry is temporary and will be deleted in   6 hours ▾   Cancel   Confirm

13. Have the screenshot of your 'Network Access' as 'sam_chung_network_access.png' by using your first and last name.

Atlas   Sam's Org - ...   Access Manager ▾   Billing   All Clusters   Get Help ▾   Sam ▾

📁 DIT637 ▾   ⋮   **Data Services**   App Services   Charts

SAM'S ORG · 2019-09-07 > DIT637

Network Access

Overview

DEPLOYMENT
Database
Data Lake

SERVICES
Device & Edge Sync
Triggers
Data API
Data Federation
Atlas Search
Stream Processing
Migration

SECURITY
Quickstart
Backup
Database Access
Network Access
Advanced

New On Atlas 7
Goto

IP Access List   Peering   Private Endpoint

＋ ADD IP ADDRESS

You will only be able to connect to your cluster from the following list of IP Addresses:

IP Address	Comment	Status	Actions
67.183.238.81/32 (includes your current IP address)	Created as part of the Auto Setup process	● Active	⚙ EDIT 🗑 DELETE
0.0.0.0/0 (includes your current IP address)	allow access	● Active	⚙ EDIT 🗑 DELETE

System Status: All Good
©2024 MongoDB, Inc.   Status   Terms   Privacy   Atlas Blog   Contact Sales