

# MongoDB Cluster Creation in Cloud Environment.



## Deploy your database

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

**M10**  
For production applications with sophisticated workload requirements.

**\$0.08/hour**

STORAGE	RAM	vCPU
10 GB	2 GB	2 vCPUs

**SERVERLESS**  
For application development and testing, or workloads with variable traffic.

**\$0.10/1M reads**

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

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

**FREE**

STORAGE	RAM	vCPU
512 MB	Shared	Shared

Provider

Atlas

Aryama's Or...

Project 0

Data Servi

Overview

DEPLOYMENT

Database

Data Lake

SERVICES

Device Sync

Triggers

Data API

Data Federation

Search

Stream Processing

SECURITY

Quickstart

Backup

Database Access

Network Access

Advanced

New On Atlas 3

Goto

ARYAMA'S ORG - 20

Database

Find a databa

Cluster0

Visualize You

Build dashboar

embed them in

MongoDB Chart

Dismiss

VERSION

6.0.11

+ Add Tag

Connect to Cluster0

1

2

3

Set up connection security

Choose a connection method

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](#)

- Add a connection IP address**  
✓ An IP address has been added to the IP Access List. [Add another address in the IP Access List tab.](#)
- Create a database user**  
This first user will have [atlasAdmin](#) permissions for this project.  
Keep your credentials handy, you'll need them for the next step.  

Username

aryama

Password

.....

SHOW

Autogenerate Secure Password

Copy

Create Database User

Close

Choose a connection method

All Clusters

Get Help

Aryama

Current IP Address

Do not show me again

Edit Config

Create

FREE

SHARED

Data Size

0.0 B / 512.0 MB (0%)

Last 3 days

512.0 MB

ATLAS SEARCH

Create Index

Atlas

aryama's Or...

Access Manager

Billing

All Clusters

Project 0

Data Services

App Services

Charts

Overview

NEW

DEPLOYMENT

Database

Data Lake

SERVICES

Device Sync

Triggers

Data API

Data Federation

Search

Stream Processing

SECURITY

Quickstart

Backup

M0 Cluster Provisioning...

Advanced

My Local Environment

Cloud Environment

We added your current IP address. You can connect to your cluster locally from this device.

Set your network security with any of the following options

IP Access List

VPC Peering

Private Endpoint

Configure

Configure in New Tab

Configure in New Tab

Cluster created using Cloud Environment Data Services.

Project 0

Data Services

App Services

Charts

Overview

NEW

DEPLOYMENT

Database

Data Lake

SERVICES

Device Sync

Triggers

Data API

Data Federation

Search

Stream Processing

SECURITY

Quickstart

Backup

Advanced

We added your current IP address. You can connect to your cluster locally from this device.

Set your network security with any of the following options

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](#).

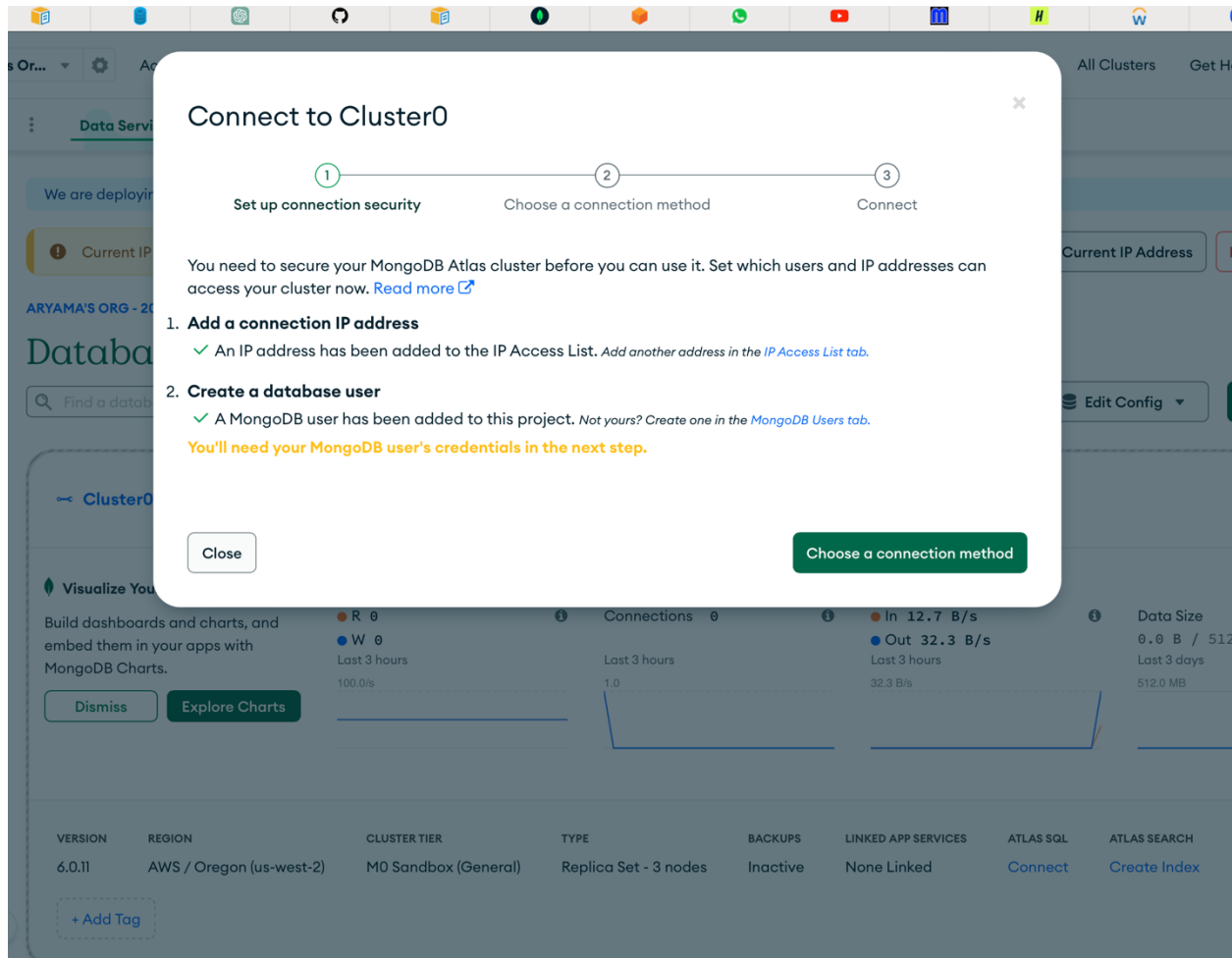
IP Address	Description
<input type="text" value="Enter IP Address"/>	<input type="text" value="Enter description"/>
<input type="button" value="Add My Current IP Address"/>	
<input type="button" value="Add Entry"/>	
This IP address has already been added.	

IP Access List	Description
107.137.64.26/32	My IP Address

Your cluster has finished provisioning.

VPC Peering

Private Endpoint



Connecting the database with MongoDB shell and MongoDB compass

cloud.mongodb.com

Atlas

Project 0

Database

Overview

DEPLOYMENT

Database

Data Lake

SERVICES

Device Sync

Triggers

Data API

Data Federation

Search

Stream Processing

SECURITY

Quickstart

Backup

Database Access

Network Access

Advanced

New On Atlas 3

Goto

Cluster0

Visualize Your Data

Build dashboards and embed them in your applications using MongoDB Charts

Dismiss

VERSION

6.0.11

+ Add Tag

Connect to Cluster0

1

2

3

Set up connection security

Choose a connection method

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

All Clusters

Get Help

Current IP Address

Do not show

Edit Config

+ Create

FREE

512.0 MB

0.0 B / 512.0 MB (0%)

Last 3 days

512.0 MB

ATLAS SEARCH

Create Index

Using MongoDB shell. We will be installing mongosh and run mongosh connection string.

## Connect to Cluster0

✓

✓

3

Set up connection securityChoose a connection methodConnect

I don't have the MongoDB Shell installed

I have the MongoDB Shell installed

### 1. Select your operating system and download the MongoDB Shell

macOS

**Install via HomeBrew**  
Homebrew is a package manager for macOS.

```
brew install mongosh
```

[See more installation options](#)

### 2. Run your connection string in your command line

**Use this connection string in your application**

```
mongosh "mongodb+srv://cluster0.c1zpbns.mongodb.net/" --apiVersion 1 --username aryama
```

You will be prompted for the password for the Database User, **aryama**. When entering your password, make sure all special characters are [URL encoded](#).

#### RESOURCES

[Add Data in the Shell](#)[Access your Database Users](#)[Troubleshoot Connections](#)

Creating first database

To help improve our products, anonymous usage data is collected and sent to MongoDB periodically (<https://www.mongodb.com/legal/privacy-policy>). You can opt-out by running the `disableTelemetry()` command.

```
Atlas atlas-38kxtb-shard-0 [primary] test>
(base) aryamar@Aryamas-Air bin % echo $PATH
/opt/homebrew/bin:/opt/homebrew/sbin:/Users/aryamar/anaconda3/bin:/Users/aryamar/anaconda3/condabin:/Library/Frameworks/Python.framework/Versions/3.11/bin:/usr/local/bin:/System/Cryp
/bin:/bin:/usr/sbin:/sbin
(base) aryamar@Aryamas-Air bin % mongosh "mongodb+srv://cluster0.c1zpbns.mongodb.net/" --apiVersion 1 --username aryama
Enter password: *****
Current Mongosh Log ID: 6531c39ff120909313517547
Connecting to:      mongodb+srv://<credentials>@cluster0.c1zpbns.mongodb.net/?appName=mongosh+1.10.6
Using MongoDB:      6.0.11 (API Version 1)
Using Mongosh:       1.10.6
mongosh 2.0.2 is available for download: https://www.mongodb.com/try/download/shell

For mongosh info see: https://docs.mongodb.com/mongodb-shell/

Atlas atlas-38kxtb-shard-0 [primary] test> db
test
Atlas atlas-38kxtb-shard-0 [primary] test> use firstDatabase
switched to db firstDatabase
Atlas atlas-38kxtb-shard-0 [primary] firstDatabase> █
```

Also, we can connect Cluster using connection string in MongoDB compass:

Connect to Cluster0

✓

✓

3

Set up connection securityChoose a connection methodConnect

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 64-bit (10.14+)

Download Compass (1.40.4)

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

mongodb+srv://aryama:<password>@cluster0.c1zpbns.mongodb.net/

Replace **<password>** with the password for the **aryama** user.  
When entering your password, make sure that any special characters are [URL encoded](#).

RESOURCES

Connect with Compass

Access your Database Users

Import and Export Data

Troubleshoot Connections

Go BackClose

from pymongo import MongoClient

```
client = MongoClient(f" your connection string ")
```

```
db = client["Lab_2"]
```

```
collection = db['Company_T']
```

```
results = collection.find().limit(10)
```

```
print(results)
```