



JavaScript

Donald Stolz dstolz@student.42.us.org

Summary: Setup a MongoDB cloud account and cluster.

Contents

I	Introduction	2
II	Instructions	3

Chapter I

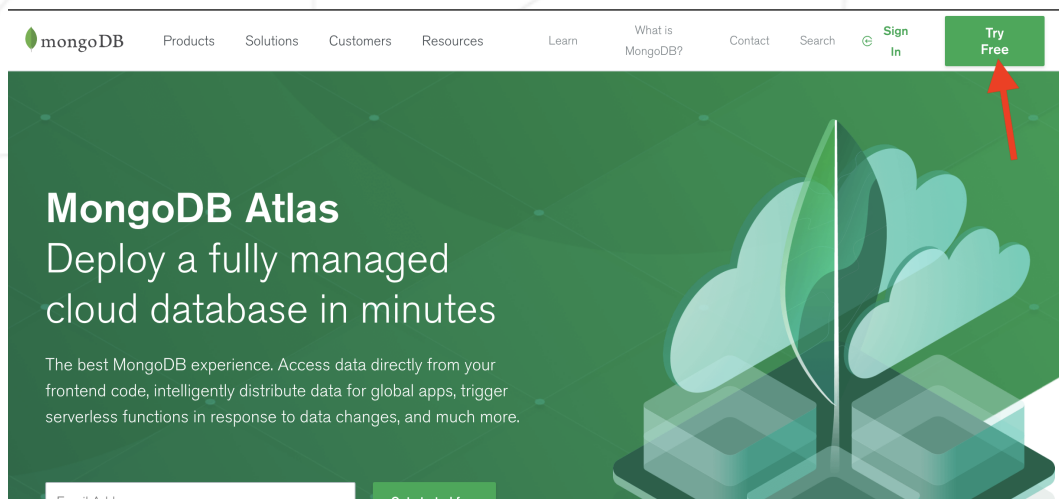
Introduction

Follow these instructions to setup MongoDB.

Chapter II

Instructions

First head to <https://www.mongodb.com/>



Fill out the simple form to create an account

Cloud

Server

Tools

MongoDB Atlas

Global Cloud Database

Deploy, operate, and scale a MongoDB database in the cloud with just a few clicks. Fully elastic and highly available by default, MongoDB Atlas is the easiest way to try out the latest version of the database, **MongoDB 4.0**.

- Secure from the start
- Fully managed backups
- Comprehensive monitoring and customizable alerts
- Easily migrate existing deployments with minimal downtime
- Cloud-only features, like real-time triggers and global clusters

[Click here](#) to learn more about MongoDB Atlas.

Google Cloud Platform

aws

Azure

No download necessary

Deploy a free cluster now

Email address

First name

Last name

Password

✓ 8 character minimum

✓ One number

✓ One letter

✓ One special character

☐ I agree to the [terms of service](#).

Get started free

Once you start creating a new cluster the only piece of the form you should change is the Cluster Name, at the bottom

Create New 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](#).

Global Cluster Configuration

Cloud Provider & Region

AWS

Google Cloud Platform

Azure

AWS, N. Virginia (us-east-1) ▾

Create a **free tier** cluster by selecting a region with **FREE TIER AVAILABLE** and choosing the **M0** cluster tier below.

★ recommended region ⓘ

NORTH AMERICA	EUROPE	AUSTRALIA
<div><div>🇺🇸 N. Virginia (us-east-1) ★</div><div>FREE TIER AVAILABLE</div></div>	<div><div>🇸🇪 Stockholm (eu-north-1) ★</div></div>	<div><div>🇦🇺 Sydney (ap-southeast-2) ★</div></div>
<div><div>🇺🇸 Ohio (us-east-2) ★</div></div>	<div><div>🇮🇪 Ireland (eu-west-1) ★</div></div>	<div><div>ASIA</div></div>
<div><div>🇺🇸 N. California (us-west-1)</div></div>	<div><div>🇬🇧 London (eu-west-2) ★</div></div>	<div><div>🇯🇵 Tokyo (ap-northeast-1) ★</div></div>
<div><div>🇺🇸 Oregon (us-west-2) ★</div></div>	<div><div>🇫🇷 Paris (eu-west-3) ★</div></div>	<div><div>🇰🇷 Seoul (ap-northeast-2)</div></div>
<div><div>🇨🇦 Montreal (ca-central-1)</div></div>	<div><div>🇩🇪 Frankfurt (eu-central-1) ★</div><div>FREE TIER AVAILABLE</div></div>	<div><div>🇸🇬 Singapore (ap-southeast-1) ★</div><div>FREE TIER AVAILABLE</div></div>
	<div><div>SOUTH AMERICA</div></div>	<div><div>🇮🇳 Mumbai (ap-south-1)</div><div>FREE TIER AVAILABLE</div></div>
	<div><div>🇧🇷 Sao Paulo (sa-east-1)</div></div>	

Select **Multi-Region**, **Workload Isolation**, and **Replication Options** (M10+ clusters) ☐ NO
Increase region availability, configure tagged analytics nodes, and optimize for local service areas. [Read more](#)

Cluster Tier

M0 (Shared RAM, 512 MB Storage) ▾
Encrypted

Additional Settings

MongoDB 4.0, No Backup ▾

Cluster Name

One time only: once your cluster is created, you won't be able to change its name.

H2S

Cluster names can only contain ASCII letters, numbers, and hyphens.

H2S ▾

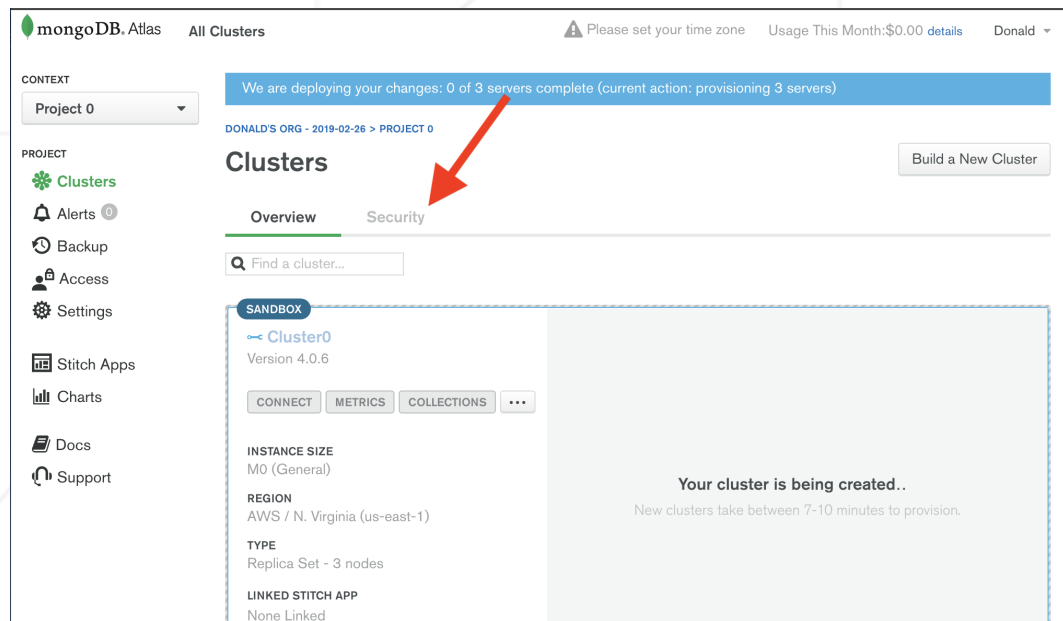
FREE

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

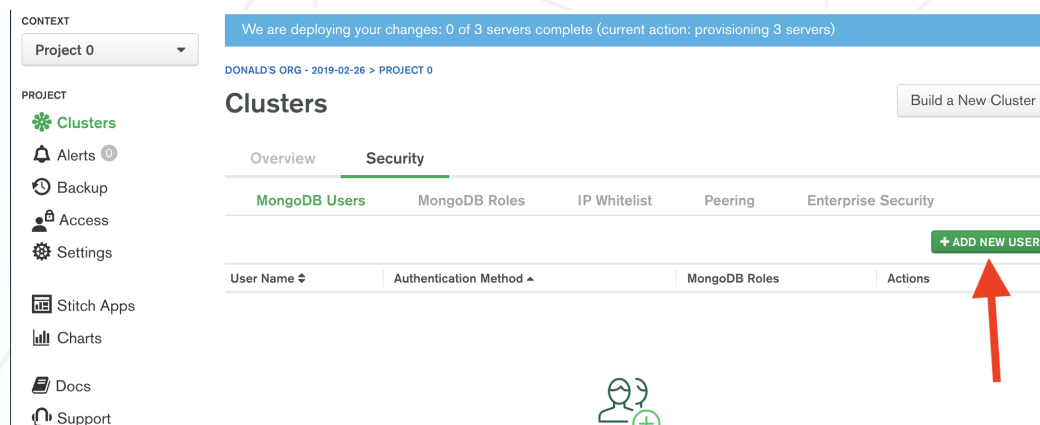
Cancel

Create Cluster

Now create your a database user



The screenshot shows the MongoDB Atlas interface. At the top, there's a header with 'mongoDB Atlas', 'All Clusters', and a status bar indicating 'We are deploying your changes: 0 of 3 servers complete (current action: provisioning 3 servers)'. Below this, the 'PROJECT' section shows 'Project 0'. The left sidebar contains navigation links: Clusters, Alerts, Backup, Access, Settings, Stitch Apps, Charts, Docs, and Support. The main content area is titled 'Clusters' and has two tabs: 'Overview' and 'Security'. A red arrow points to the 'Security' tab. Below the tabs, there's a search bar 'Find a cluster...'. The 'Security' tab is active, showing a 'SANDBOX' section for 'Cluster0' (Version 4.0.6) with buttons for 'CONNECT', 'METRICS', and 'COLLECTIONS'. To the right of these buttons, a large grey box displays the message: 'Your cluster is being created.. New clusters take between 7-10 minutes to provision.'



This screenshot shows the 'Security' tab in the MongoDB Atlas interface. The 'MongoDB Users' sub-tab is selected. At the top of the 'Security' section, there's a status bar with the same deployment message. Below it, the 'PROJECT' section shows 'Project 0'. The left sidebar is identical to the previous screenshot. The main content area shows the 'Security' tab with sub-tabs: 'MongoDB Users', 'MongoDB Roles', 'IP Whitelist', 'Peering', and 'Enterprise Security'. The 'MongoDB Users' sub-tab is active, displaying a table with columns: 'User Name', 'Authentication Method', 'MongoDB Roles', and 'Actions'. A green button labeled '+ ADD NEW USER' is located at the top right of the table. A red arrow points to this button. Below the table, there's a green icon of a person with a plus sign.

Create a database user

Set up database users, permissions, and authentication credentials in order to connect to your clusters.

[Learn more](#)

×

Add New User

SCRAM Authentication
SCRAM is MongoDB's default authentication method.

→

Enter username

e.g. new-user_31

Enter password

SHOW

Autogenerate Secure Password

User Privileges

Atlas admin

Read and write to any database

Only read any database

Select Custom Role

[Add Default Privileges](#)

☐ Save as temporary user

Cancel

Add User

Clusters

[Build a New Cluster](#)

Overview		Security			
MongoDB Users		MongoDB Roles	IP Whitelist	Peering	Enterprise Security
+ ADD NEW USER					
User Name ↕	Authentication Method ▲	MongoDB Roles		Actions	
dstolz	SCRAM	readWriteAnyDatabase@admin		EDIT	DELETE

After creating a user you will need to whitelist your IP address

DONALD'S ORG - 2019-02-26 > PROJECT 0

Clusters


Build a New Cluster

Overview **Security** Peering Enterprise Security

MongoDB Users MongoDB Roles **IP Whitelist**

+ ADD IP ADDRESS

IP Address	Comment	Status	Actions
------------	---------	--------	---------



Add Whitelist Entry

Add a whitelist entry using either CIDR notation or a single IP address. [Learn more.](#)

ADD CURRENT IP ADDRESS ALLOW ACCESS FROM ANYWHERE

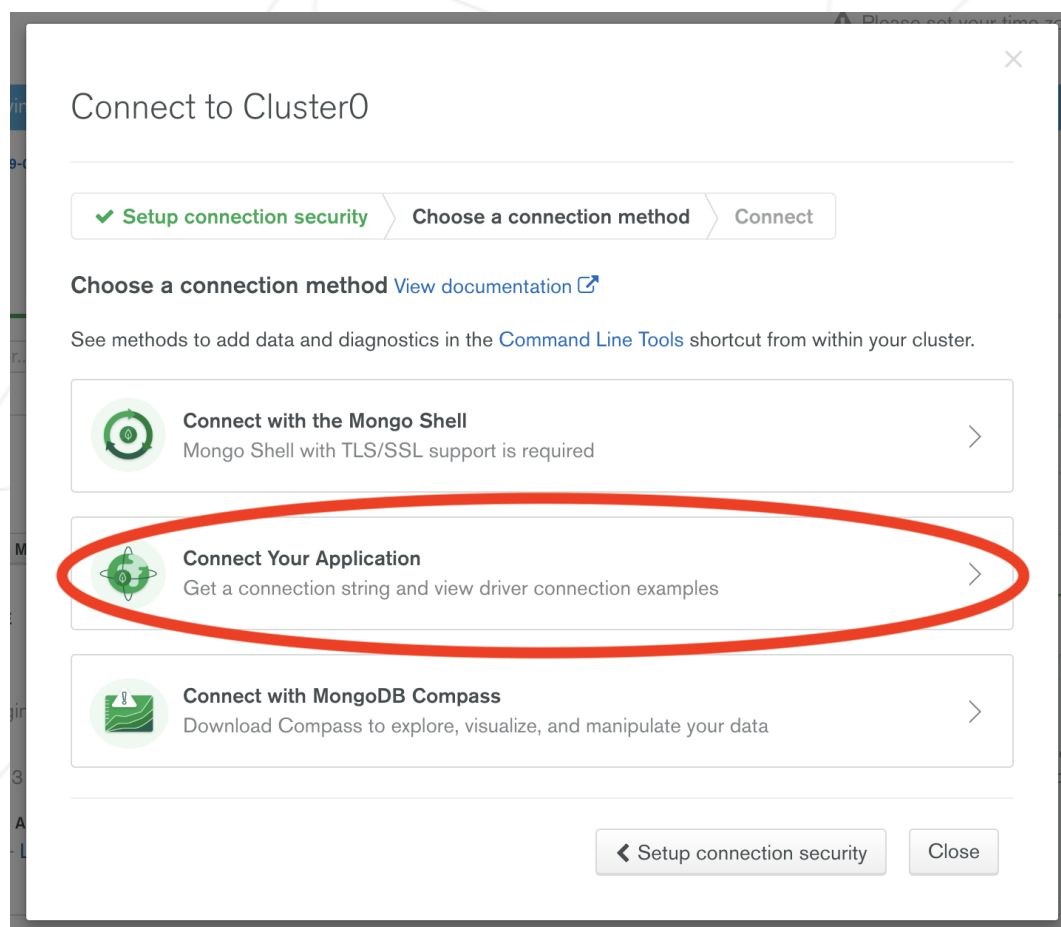
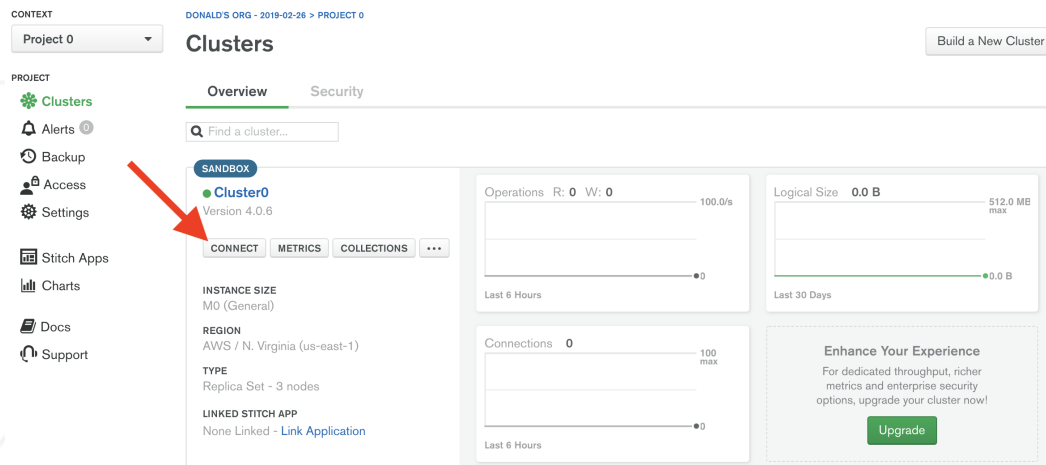
Whitelist Entry: 64.62.224.29

Comment: Optional comment describing this entry

☐ Save as temporary whitelist

Cancel Confirm

Once we have a user and our IP address is whitelisted we can get the address for connecting our app.



This is the address we will need for connecting to our database.

Connect to Cluster0

✓ Setup connection security

✓ Choose a connection method

Connect

1

Copy the connection string compatible with your driver version:

Check which MongoDB versions your driver version is compatible with


[See documentation on how to check the version of your driver](#)

Short SRV connection string (For drivers compatible with MongoDB 3.6+)

Standard connection string (For drivers compatible with MongoDB 3.4+)

Copy the SRV address:

mongodb+srv://dstolz:<PASSWORD>@cluster0-4bipl.mongodb.net/test?retryWrites=true

 COPY

Note: If using the node.js driver make sure you specify the name of your database after making your connection ([example](#)), otherwise your collections will all appear in a database called "test". Alternatively you can replace "test" in the connection string with a different default database name.

2

Replace **PASSWORD** with the password for the *dstolz* user


Replace **PASSWORD** with the password for the *dstolz* user. Please note that any special characters in your password (% , @ , and :) will need to be URL encoded.


[View your list of users or reset a password](#)


3


View driver connection examples

Failed connections can result from old versions of drivers. Check your driver version and view connection examples for your platform:

 Java

 Python

 Ruby

 Node

[View all MongoDB Driver Connection Examples](#)

◀ Choose a connection method

Close