

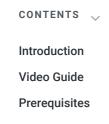
QMethod

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Basic Deployment



Last updated 1 hour ago



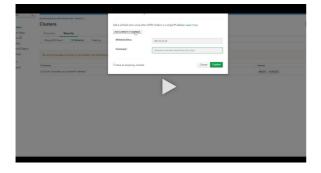
Introduction



This article is based upon this guide and the following method is only applicable to deployment on Heroku.

Video Guide







Prerequisites





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Signup for Heroku

Signup for MongoDB Atlas

Setting up your database



We will be hosting the data from our survey on a seperate remote host. This can be done either through MongoDB Atlas or mLab.

Mongo Atlas

First, go to MongoDB Atlas and sign up for a free account. MongoDB Atlas is a Database as a Service provider that provides encrypted remote mongoDB instances, which we will use to store the survey recipient data, with free and paid tiers of service. MongoDB Atlas clusters make use of the General Purpose SSD (gp2) EBS volumes, with AES-256 encryption.. All communication to and from the server is also encrypted from MOTM attacks through the use of TLS/SSL socket security.

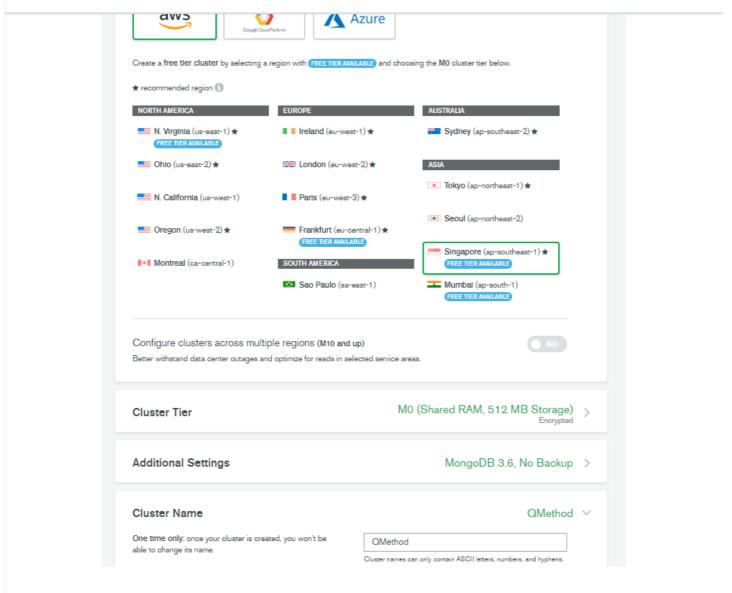


No credit card required	
Email Address	
First Name	Last Name
Password	
8 characters minimum	
One number	
One letter	
One special character	
I agree to the terms of service.	
Get started free	
dready have an account? Sign in	

Creating a new account

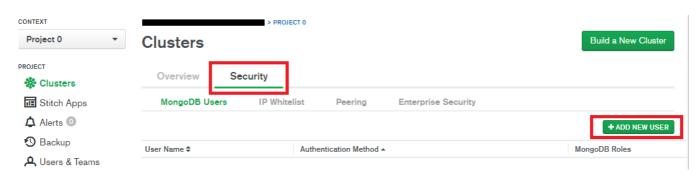
Next, select your server provider. It is recommended that you select the free AWS service tier (M0) with 512MB of storage. (This is in fact approximately enough for at least ~250,000 survey responses and thus should be sufficient even for live deployment.)





Select Server Provider

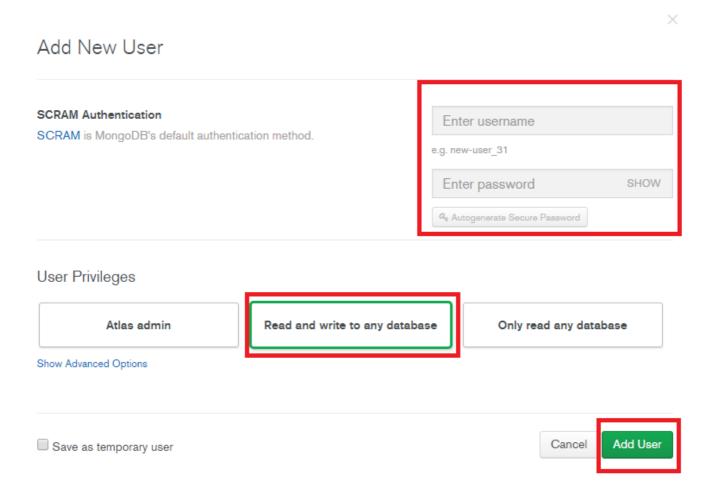
Now, after your cluster has finished initialising, go to the Security > MongoDB Users Tab and add a new user.



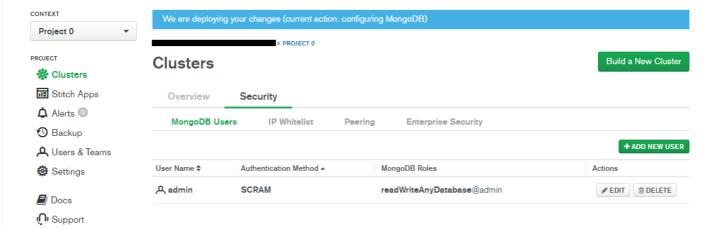
Add a new user



remember and copy down this password and save it for later, as you will need this information later.

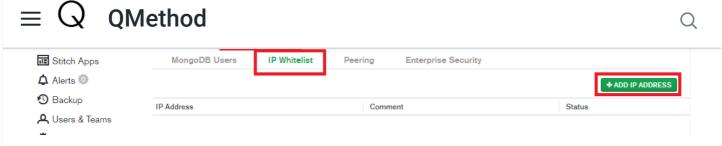


Check Read/Write Box



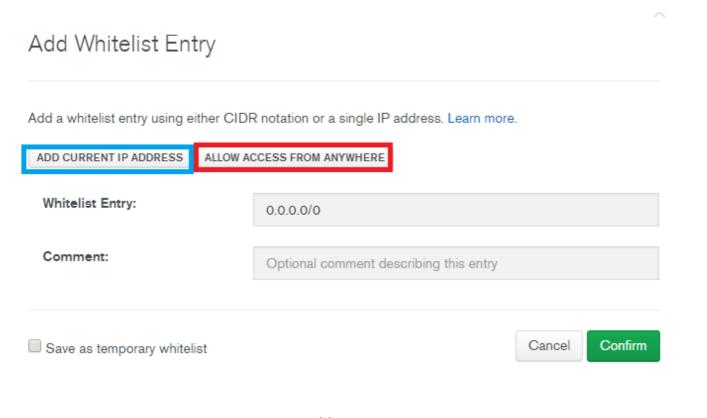
Users

Now go to the Security > IP Whitelist tab, and add a new IP Address.



Add IP to whitelist

You will want to repeat this process twice, as you will need to allow access firstly from your own IP address, as well as any IP address (for now). This is because the free version of the Heroku application uses a dynamic IP address which changes from time to time, whilst paid tiers of Heroku allow for a fixed static IP, which we can later add to the whitelist (whilst removing the 0.0.0.0/10 entry) for better security later on.



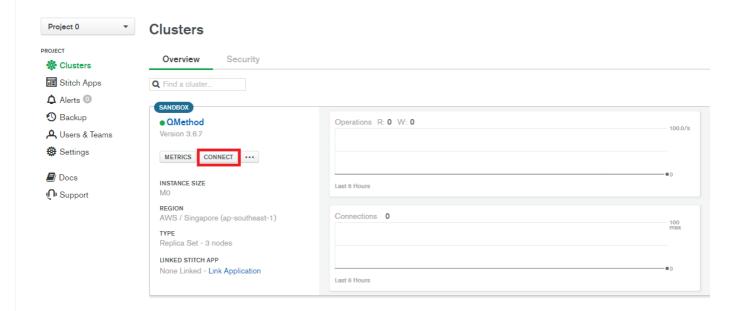
Add New IP

At this point, if you wish to connect to a desktop client for viewing your remote database data directly (not through the QMethod application, you may install MongoDB Compass and follow the MongoDB Compass Install guide.



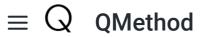
Check IP Address List

Now navigate to the Clusters > Overview page and click connect.

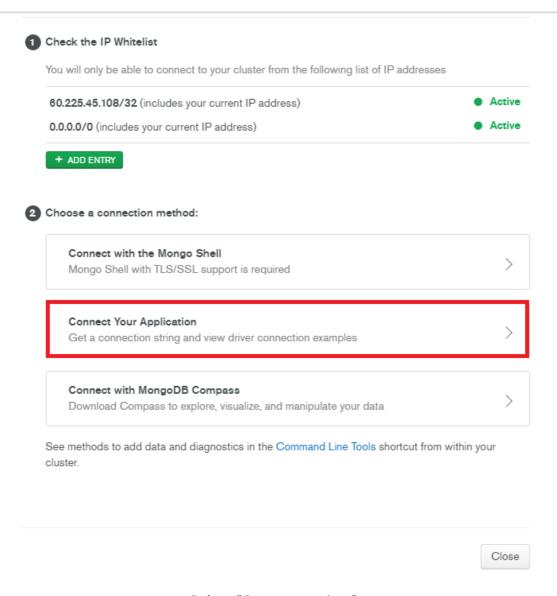


Connection setup to remote MongoDB host

Select the option to "Connect Your Application"

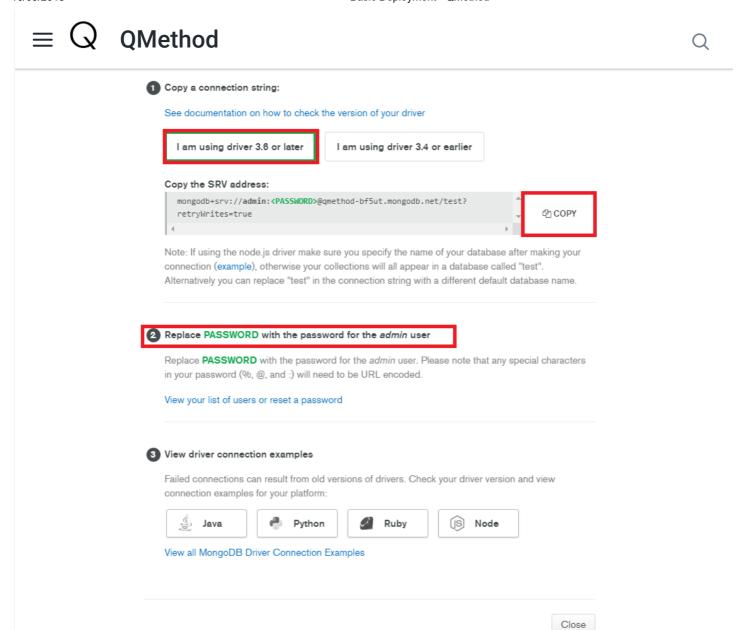


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Select "Connect to App"

We will now need to generate the string for our application's mongoDB driver.



Copy the driver string

Copy this string to your clipboard. We will now be going back to our Heroku CLI terminal window and inputting this to link our database to our heroku application.

Initialising Heroku



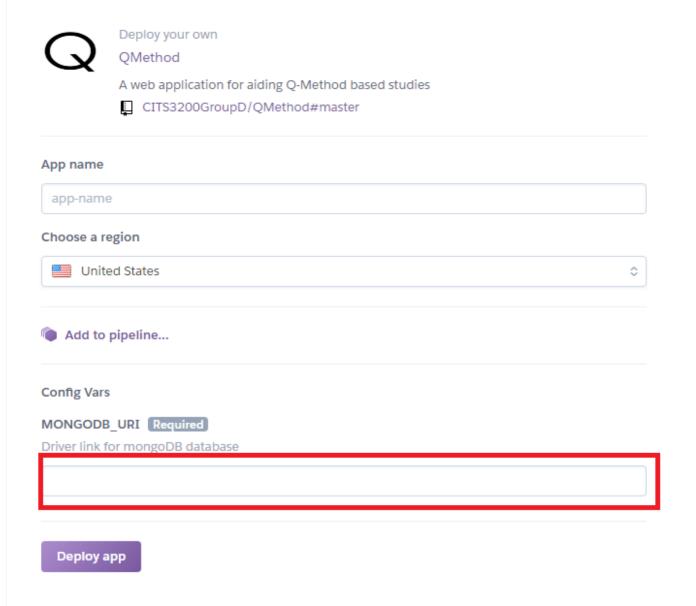
Now that our database has been fully setup, including a compass client for monitoring and viewing raw database data, we can now create a heroku application with a link to the mongoDB database.

First, click this button.



This will automatically handle the deployment of the application for you, no hands on required! Note that this means you will have no control over the basic settings and file configuration, so for a more advanced setup, use the advanced setup guide.

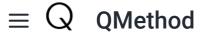
Next, enter the driver link you copied earlier and put it in the text field provided below.



Provide Driver Link

Open the URL in your browser. It may take some time to load as the server has to "wake up" first (free Heroku apps go to sleep after 30 minutes).

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https://devcenter.heroku.com/articles/custom-domains

By default, a Heroku app is available at its Heroku domain, which has the form [name of app].herokuapp.com. For example, an app named serene-example-4269 is hosted at serene-example-4269.herokuapp.com.

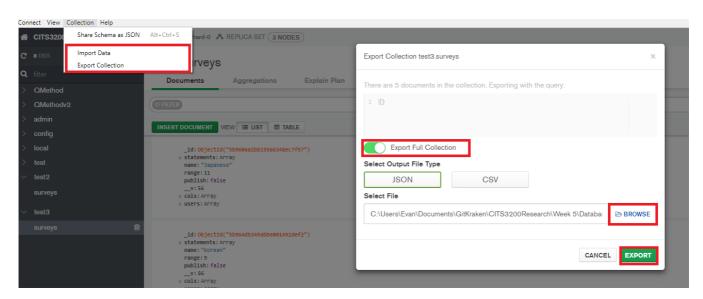
To make your app available at a non-Heroku domain (for example, www.yourcustomdomain.com), you add a custom domain to it.

You can add custom domains to any Heroku app for free (however the domain name itself will have to be paid for). For security purposes, you must verify your Heroku account to add domains to apps.

Heroku does not provide a domain registration service (for registering a custom domain name) or a DNS provider service (for hosting the DNS servers that point your custom domain name to your app).

Exporting Raw JSON data from Database





Exporting survey data as JSON

About - Previous

Next - Installation