

MongoDB Manual

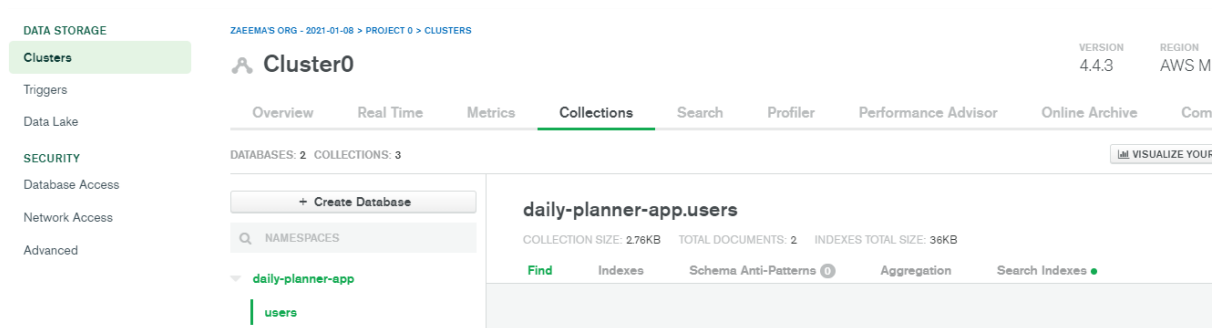
What is MongoDB?

It is a no-SQL database meaning that it doesn't store data in form of tables. It stores data in form of JSON objects

How to use MongoDB?

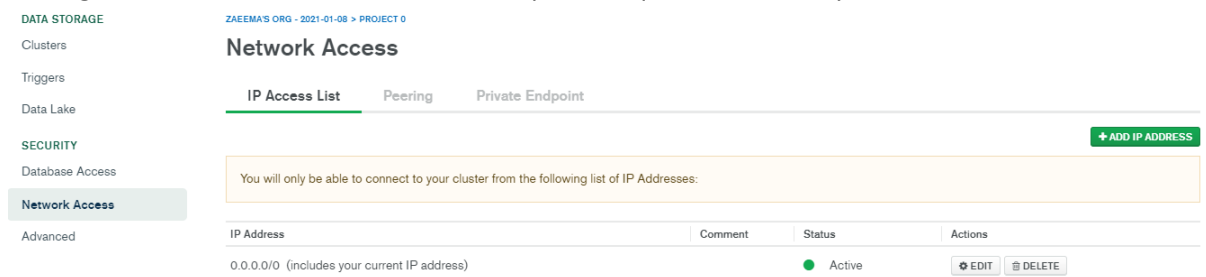
1. Go to the website: <https://www.mongodb.com/3>
2. Create Account and create a cluster
3. Inside cluster create a database named "daily-planner-app"
4. Inside the database, create a collection "Users"

It would look like this:



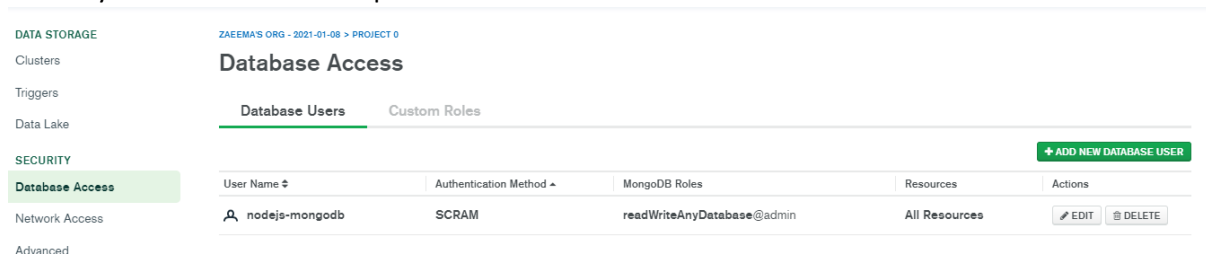
The screenshot shows the MongoDB Atlas interface for a cluster named 'Cluster0'. The left sidebar lists navigation options under 'DATA STORAGE' (Clusters, Triggers, Data Lake) and 'SECURITY' (Database Access, Network Access, Advanced). The main panel shows the 'Collections' tab for the 'daily-planner-app' database. It displays a collection named 'users' with a size of 276KB, 2 total documents, and 36KB total index size. A 'Create Database' button is visible at the top left of the main panel.

5. Navigate to the Network Access and set IP Address to allow the use of your db
Setting it to 0.0.0.0/0 will allow document update requests from every IP



The screenshot shows the 'Network Access' page in MongoDB Atlas. The left sidebar is the same as the previous screenshot. The main panel shows the 'IP Access List' tab. A message states: 'You will only be able to connect to your cluster from the following list of IP Addresses:'. Below this is a table with columns: IP Address, Comment, Status, and Actions. The first entry is '0.0.0.0/0 (includes your current IP address)' with a status of 'Active' and 'EDIT' and 'DELETE' buttons. An '+ ADD IP ADDRESS' button is in the top right corner.

6. Similarly set database access options



The screenshot shows the 'Database Access' page in MongoDB Atlas. The left sidebar is the same as the previous screenshots. The main panel shows the 'Database Users' tab. A message states: 'You will only be able to connect to your cluster from the following list of IP Addresses:'. Below this is a table with columns: User Name, Authentication Method, MongoDB Roles, Resources, and Actions. The first entry is 'nodejs-mongodb' with authentication method 'SCRAM' and role 'readWriteAnyDatabase@admin'. It has 'All Resources' and 'EDIT' and 'DELETE' buttons. An '+ ADD NEW DATABASE USER' button is in the top right corner.

7. Navigate to clusters and click connect

Clusters

Find a cluster...

SANDBOX

Cluster0

Version 4.4.3

CONNECT METRICS COLLECTIONS ...

CLUSTER TIER
M0 Sandbox (General)

REGION
AWS / Mumbai (ap-south-1)

TYPE
Replica Set - 3 nodes

LINKED REALM APP
None Linked

Operation

Last 6 Hours

Connect

Last 6 Hours


8. Select Connect Application Option

Connect to Cluster0


✓ Setup connection security Choose a connection method Connect

Choose a connection method [View documentation](#)


Get your pre-formatted connection string by selecting your tool below.

- 

Connect with the mongo shell
Interact with your cluster using MongoDB's interactive Javascript interface

>
- 

Connect your application
Connect your application to your cluster using MongoDB's native drivers

>
- 

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

>

Go Back

Close

- Copy the uri and replace password and db name

Connect to Cluster0

✓ Setup connection security ✓ Choose a connection method Connect

1 Select your driver and version

DRIVER	VERSION
Node.js	3.6 or later

2 Add your connection string into your application code

☒ Include full driver code example

```
const MongoClient = require('mongodb').MongoClient;
const uri = "mongodb+srv://nodejs-mongodb:<password>@cluster0.ulgkf.mongodb.net/<dbname>";
const client = new MongoClient(uri, { useNewUrlParser: true });
client.connect(err => {
  const collection = client.db("test").collection("devices");
  // perform actions on the collection object
  client.close();
});
```

Copy

Replace **<password>** with the password for the **nodejs-mongodb** user. Replace **<dbname>** with the name of the database that connections will use by default. Ensure any option params are [URL encoded](#).

Having trouble connecting? [View our troubleshooting documentation](#)

- Paste the URI in project > Backend > db.js uri variable in DBStart function

```
const DBStart = async () => {
  console.log('DB server connecting...')

  //paste URI here
  const uri = "mongodb+srv://nodejs-mongodb:<password>@cluster0.ulgkf.mongodb.net/<dbname>";
  const client = await MongoClient.connect(uri, {
    useNewUrlParser: true,
    useUnifiedTopology: true
  })
  console.log('DB Connected Successfully.')
  db = client.db('daily-planner-app')
```

In a future update, Snipping Tool will be moving to a new home. Try improved features and snip like usual with Snip & Sketch (or try the shortcut Windows logo key + Shift + S).

Try Snip & Sketch

- DB is successfully configured. For further queries, visit <https://docs.mongodb.com/>

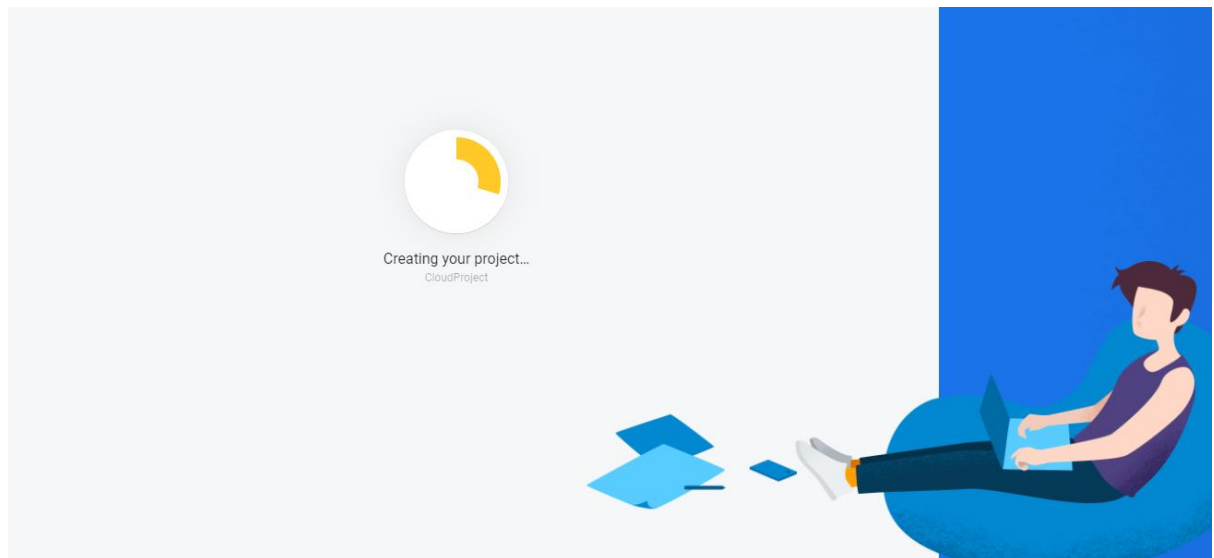
Firestore Guide

Why firestore?

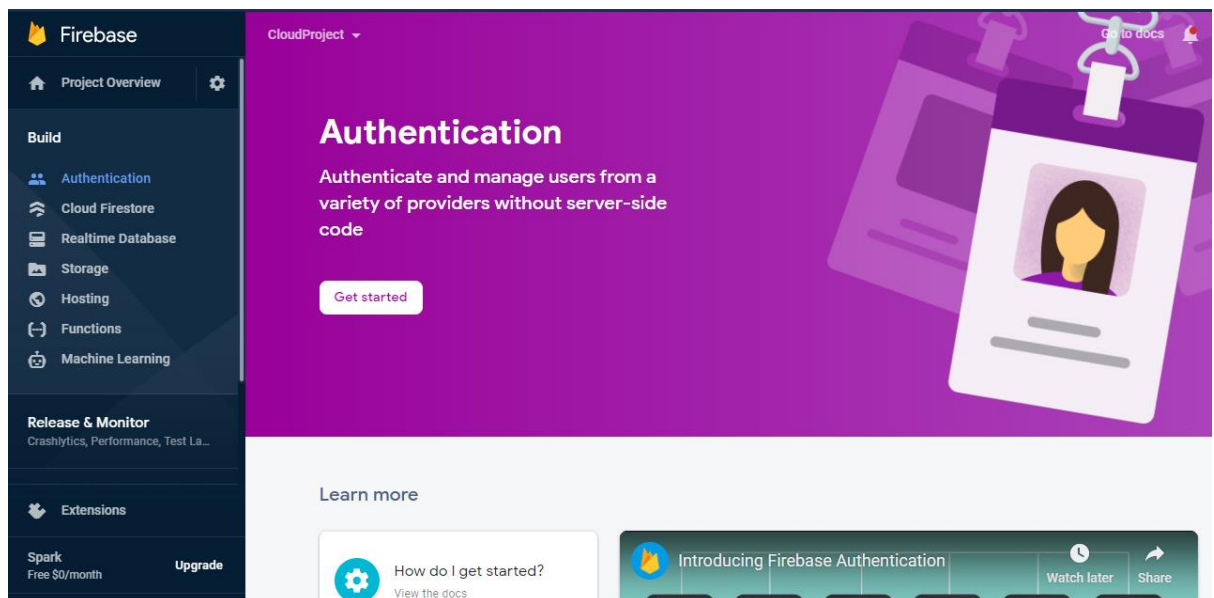
Firestore is used to authenticate the users using google auth and mail auth. It is quick and efficient and trustworthy as it doesn't let the owners access the passwords even.

How to configure Firestore:

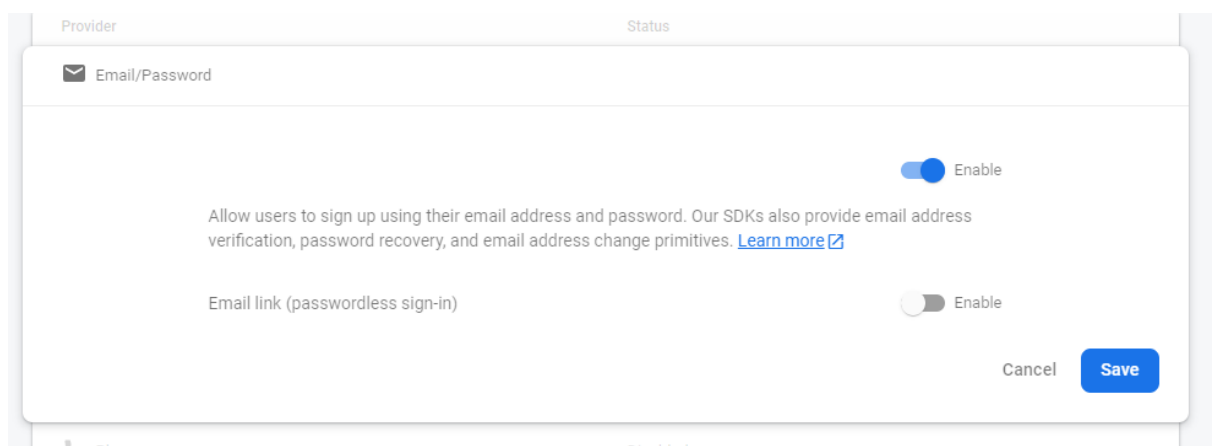
- Go to <https://firebase.google.com/>
- Get started and add a project



3. It would take some time
4. Next, navigate to authentication and get started




5. Enable Google and email authentication




☒ Enable

Google sign-in is automatically configured on your connected iOS and web apps. To set up Google sign-in for your Android apps, you need to add the [SHA1 fingerprint](#) for each app on your [Project Settings](#).

 Update the [project-level setting](#) below to continue

Project public-facing name ⓘ

Project support email ⓘ

 Please select an email address

Safelist client IDs from external projects (optional) ⓘ

Web SDK configuration ⓘ

Web client ID

6. Go to project settings and copy configuration object


CloudProject ▾ Project settings
 Go to docs

axial-rigging-290414

Firebase SDK snippet
☐ Automatic ⓘ ☐ CDN ⓘ ☒ Config ⓘ
 Copy and paste these scripts into the bottom of your <body> tag, but before you use any Firebase services:

```
// For Firebase JS SDK v7.20.0 and later, measurementId is optional
const firebaseConfig = {
  apiKey: "AIzaSyB2E0kvV6zCCAfMqNvoitKCPMyctG027Kw",
  authDomain: "axial-rigging-290414.firebaseio.com",
  projectId: "axial-rigging-290414",
  storageBucket: "axial-rigging-290414.appspot.com",
  messagingSenderId: "826208321939",
  appId: "1:826208321939:web:40d033dfa0e6660389e866",
  measurementId: "G-YC3ZEEJW65"
};
```

7. Paste this config object inside project > src > components > firebase > firebase.js

```
src > components > firebase >  firebase.js > ...  
1  import firebase from "firebase";  
2  
3  const firebaseConfig = {  
4    apiKey: "AIzaSyB2E0kvV6zCCAfMqNvoitKCPMyctG027Kw",  
5    authDomain: "axial-rigging-290414.firebaseio.com",  
6    projectId: "axial-rigging-290414",  
7    storageBucket: "axial-rigging-290414.appspot.com",  
8    messagingSenderId: "826208321939",  
9    appId: "1:826208321939:web:40d033dfa0e6660389e866",  
10   measurementId: "G-YC3ZEZJW65"  
11 };  
12  
13 firebase.initializeApp(firebaseConfig);  
14 firebase.analytics();  
15 firebase.auth();  
16  
17 export default firebase;  
18
```

Every Thing is set. Just run following commands to start the project:

```
npm install  
npm start
```