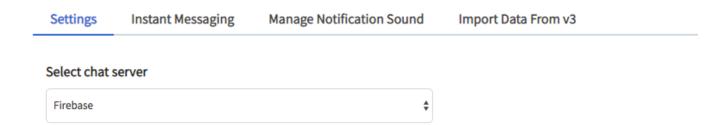
# Server Setup for IM with Google Firebase

### How to enable the Firebase server on IM App:

Go to AdminCP > Apps > Installed > Instant Messaging > Settings and select "Firebase" at setting Select chat server



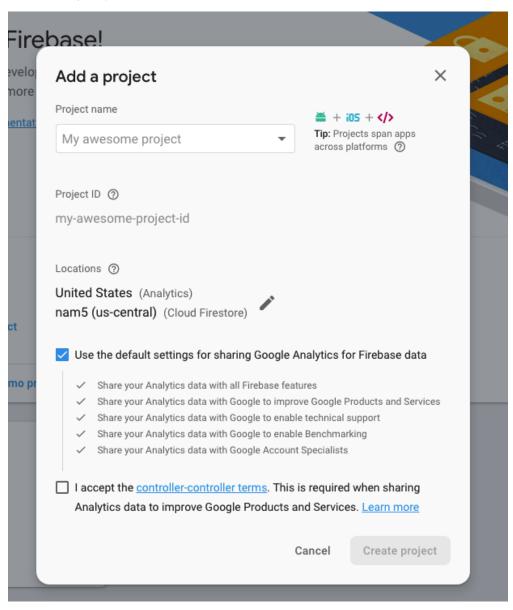
Then, configure the required Firebase Config Object setting. We will guide you to get the value when adding Firebase project which will be instructed below.

Also, you can configure Algolia App ID (Optional) and Algolia API Key (Optional) to support search messages. The instructions will be given later.

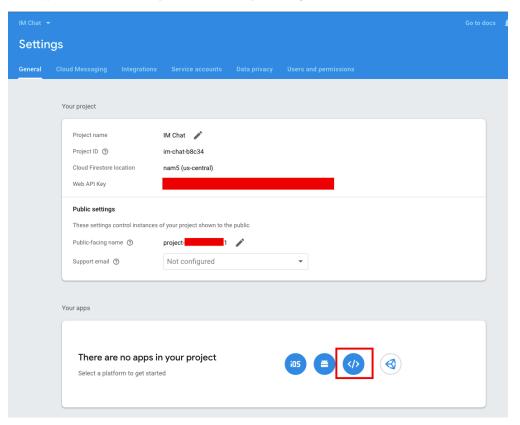
### **Setup Google Firebase App:**

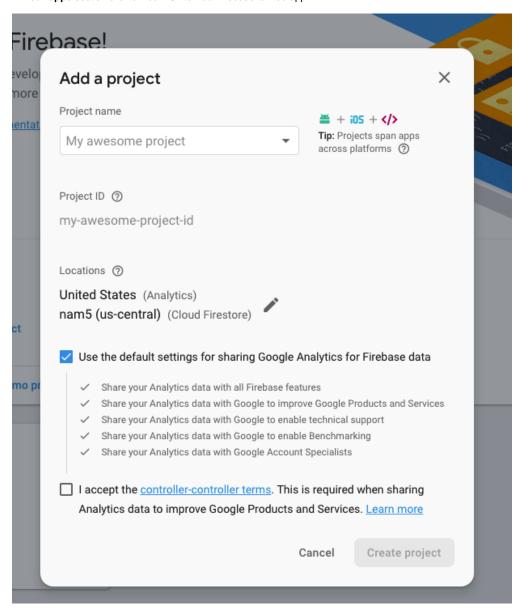
### 1. Add Firebase project

Go to Firebase console

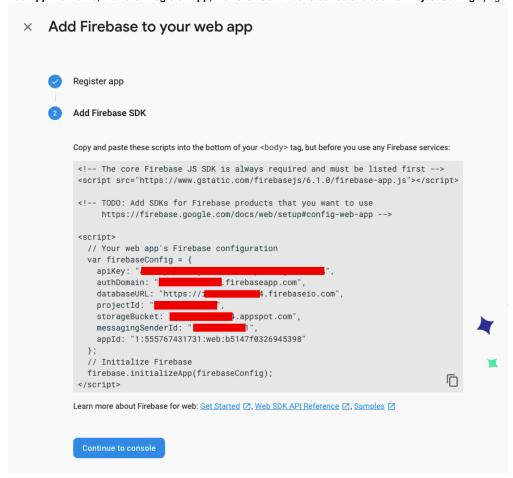


#### Go to App Dashboard, select Project Overview > Project settings





Add App nickname, then click Register App, then click Continue to console to back to Project Settings page

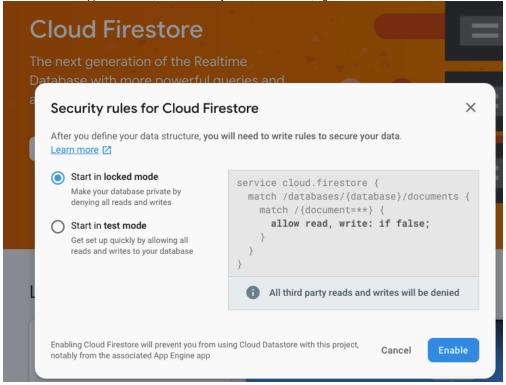


In Your Apps section, chose the app you just created, then click on Config option of Firebase SDK snippet. Copy all script code and paste to Firebase Config Object setting in AdminCP > Apps > Installed > Instant Messaging > Settings area.

```
Firebase SDK snippet
             Oconfig ②
CDN ②
Copy and paste these scripts into the bottom of your <body> tag, but before you use any
Firebase services:
 const firebaseConfig = {
   apiKey: "
   authDomain: "
                                .firebaseapp.com",
   databaseURL: "https://
                                       .firebaseio.com",
   projectId: "
   storageBucket: "
                                   .appspot.com",
   messagingSenderId: "
   appId: "1:555767431731:web:b5147f0326945398"
};
                                Remove this app
```

#### 2. Enable Firebase Database

Back to Firebase App Dashboard, select Develop > Database. Then, right-click on Create Database. Select mode and click Enable

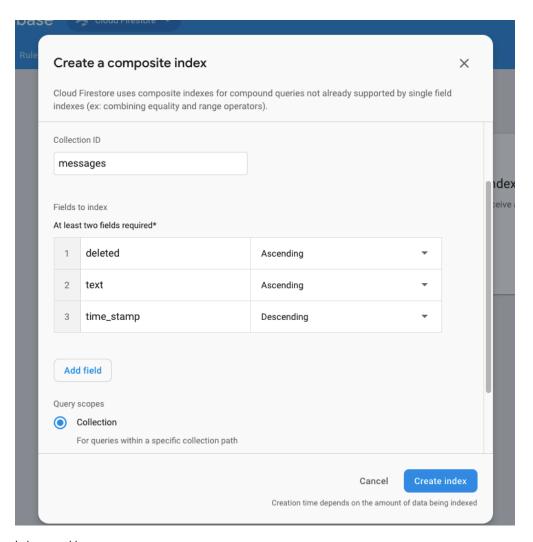


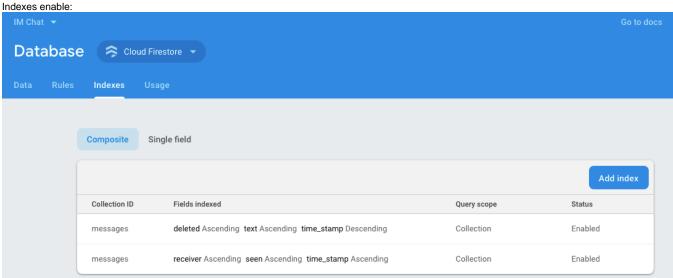
After enabling, you will redirect to database page. In that page, select tab **Indexes** and add 2 **Composite** indexes to Database by click on **Create index manually.** 

Then, configure fields as 2 screenshots below: Create a composite index  $\times$ Cloud Firestore uses composite indexes for compound queries not already supported by single field indexes (ex: combining equality and range operators). Collection ID messages Fields to index At least two fields required\* receiver Ascending seen Ascending time\_stamp 3 Ascending Add field Query scopes Collection For queries within a specific collection path

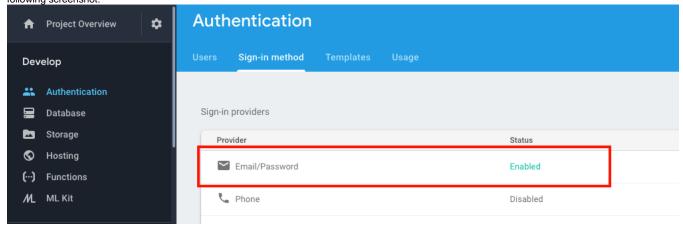
Cancel Create index

Creation time depends on the amount of data being indexed





Go to Develop > Authentication, enable Sign-in method for **Email/Password provider** in your project to allow users access to the database, as the following screenshot:



Then, go to Database > Rules tab and add the following database rules:

```
service cloud.firestore {
  match /databases/{database}/documents {
    match /{document=**} {
      allow read, write:
      if request.auth.uid != null && request.auth.token.email.matches('^user_([0-9]+)@.*');
    }
}
```

Rules table will be as the below image:

```
service cloud.firestore {
   match /databases/{database}/documents {
    match /{document=**} {
      allow read, write:
      if request.auth.uid != null && request.auth.token.email.matches('^user_([0-9]+)@.*');
   }
}
```

Now, you can start to use IM App with Firebase.

## Setup Algolia to support search messages

Note: Without Algolia configure on IM App, users can only search for messages with prefix and case sensitive.

Go to Algolia App Manage, sign up if you don't have an account

Note: Algolia is pay to use, so you should check their pricing at Algolia Pricing

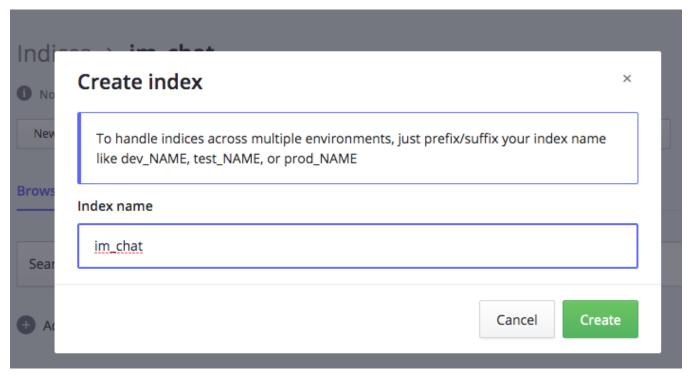




# **Applications**

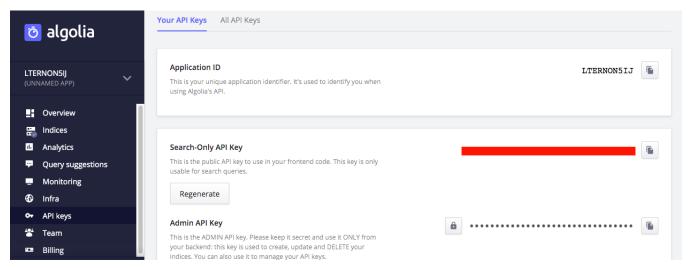


Select Indices, create new Index with name im\_chat



After Create Index, select menu API keys on left

- Copy Application ID and paste to setting Algolia App ID on IM App
- Copy Admin API Key and paste to setting Admin API Key on IM App



Now, users can search full-text messages with IM App and Firebase