**Google Sign in using Firebase**

1. We need to make a project in console.cloud.google and a project in console.firebase.goole.

2. Next we need to add our app in firebase project.

**Details regarding setup in Firebase:**

3. In the app package name field provide the app name found in build.gradle. (com.example).

4. Next go to the android directory of your application and run “./gradlew signingReport”. You will get 9 sha1 keys. The first 3 are same and the rest are same. Provide the first one in the field where SHA1 key is asked.



5. Download the google-services.json file and move it in android/app/ folder.

6. Follow the next step of adding few plugins and dependencies in the android/app/build.gradle and android/build.gradle.

7. Click Next and then Continue to console.

**Details regarding setup in Cloud:**

8. After creating the cloud project, go to OAuth Consent Screen. Choose User Type External and Click Create.

9. Add app name and support email. Provide app logo if you like. Skip the domain if you don’t have a personal domain.

10. Provide developer contact info (email addresses).

11. Save and Continue.

12. Click on Add scopes and add userinfo.email and userinfo.profile scopes. (You can add more according to your needs).

13. Click Save and Continue.

14. Add test user email ids. Provide only real working email IDs.

15. Save and Continue.

16. Click Back to Dashboard.

17. You can also link your cloud project with your firebase project while creating app in firebase.

18. In the firebase app, go to authentication, signin methods and enable google sign in.

18. In the cloud project create OAuth credentials. Choose web application when choosing app type.

19. After the creating the web client you will receive a web client id and web secret key. Do not share this with anybody.

Extra Required Setups:

1. In your app-level build.gradle file, declare [Google Play services](https://developers.google.com/android) as a dependency:

apply plugin: 'com.android.application'  
    ...  
  
    dependencies {  
        implementation 'com.google.android.gms:play-services-auth:20.7.0'  
    }



1. Add this line in settings.gradle (P.S.: not adding doesn’t affect sign in):

include ':react-native-google-signin', ':app'



Note: Make sure no two projects have the same SHA1 key otherwise we cannot the authentication feature.

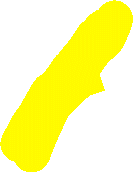


Major Note: If the firebase app shows that the SHA1 key is already in use, then head over to android/app/ in your project and delete debug.keystore.

Then, in the terminal, first “cd” into your android directory, then use the following command to generate new debug.keystore and follow step 4:



keytool -genkey -v -keystore ./app/debug.keystore -alias androiddebugkey -storepass android -keypass android -keyalg RSA -validity 14000



Errors to be encountered:

* A non-recoverable error occurred: Cause of error is providing wrong web client id in your app during the time of configuration.
* Developer error: Cause of error is the mismatch of application name in your application and in firebase app. (com.example: example should be exact same in both your app and firebase app).