Mobile Development



#11 OneSignal Push Notification



Push Notification



- Push Notification is an alert message that pops up on a mobile device. Application publishers can send push notifications at any time; users don't have to be in the app or using their devices to receive them.
- Push Notification can do a lot of things; for example, it can show the latest sports scores, get a user to take an action, such as downloading a coupon, or let a user know about an event, such as a flash sale.



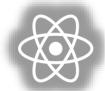
ONESIGNAL

- OneSignal provides a simple interface to push notifications and email, letting content creators focus on quality user engagement instead of complex implementation.
- More information click: https://onesignal.com



How to Set Up React Native with OneSignal Notif

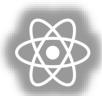




#1 Create Project

- Create React Native project:
 - \$ react-native init namaProjek
 - \$ cd namaProjek
- Install OneSignal package:
 - \$ npm install react-native-onesignal
 - \$ react-native link





#2 OneSignal App

■ Sign-up & login to *OneSignal*, then *Add a New App*. On *Edit App* or *Settings*, choose *Google Android (Google Cloud Messaging)*. It will ask *Google Server API Key* and *Google Project Number*. Leave it blank for now!

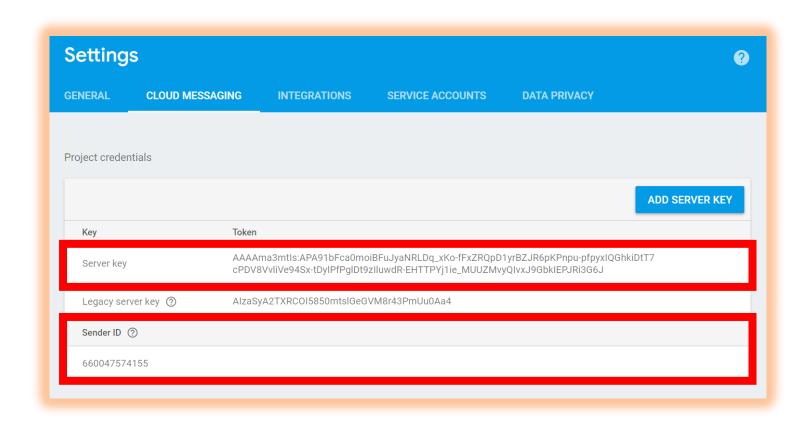
Google Android (GCM) Configuration	Select Platform
Generate a Google Server API Key	▶ Configure Platform
Read the documentation to learn how to fill in the fields below.	Select SDK
Google Server API Key: *	Install SDK
(e.g. AAAAeVHrnes:APA91bGpsKNmB5oNyz5c7BMPpEtLSdonf1_EbjUrHBmd8 🀠	
Google Project Number: * (i)	
(e.g. 703322744261)	





#3 Firebase FCM

- Sign-up & login to Firebase, then Create a Project. Go to Settings, on tab Cloud Messaging you'll find your Google Server API Key (Server Key) and Google Project Number (Sender ID).
- Then copy these codes to OneSignal. Click **Save**, choose **React Native SDK** & you'll get OneSignal App ID. Save it!





#4 Edit Manifest

android:launchMode="singleTop">

android:name=".MainActivity"

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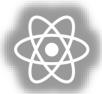
#5 Edit Gradle

Add these lines on your build.gradle (android/app/build.gradle)

```
android {
    independent of the structure of the st
```

xxxxx: OneSignal App ID yyyyy: Firebase Sender ID



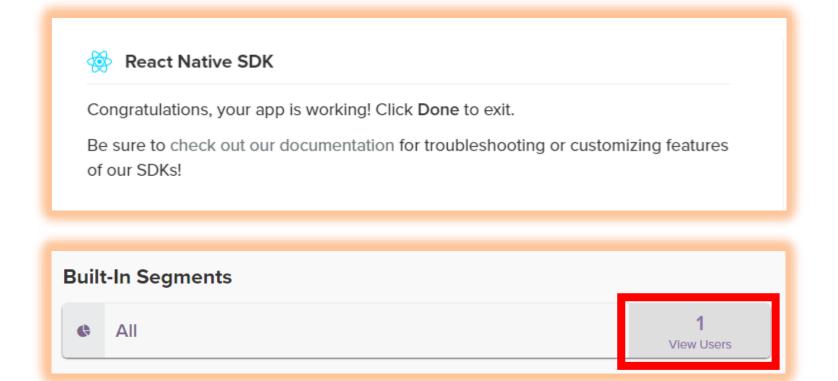


#6 Run React Native!

On App.js, import OneSignal then run it!

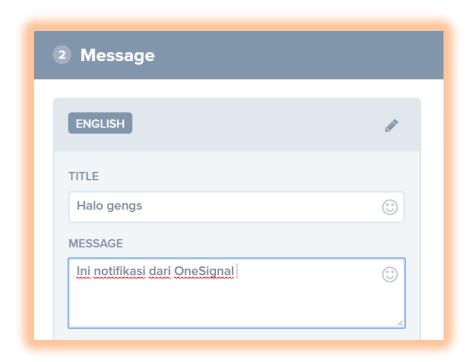
```
import OneSignal from 'react-native-onesignal';
```

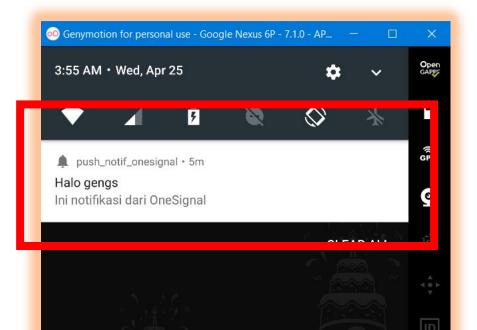
After that, check your OneSignal account (on *Users* section) to see that our project is working. Done!



How to Send Notification from OneSignal







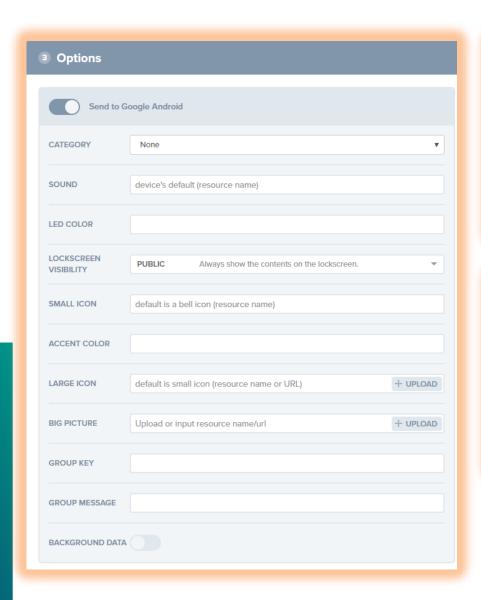
Sending Basic Message

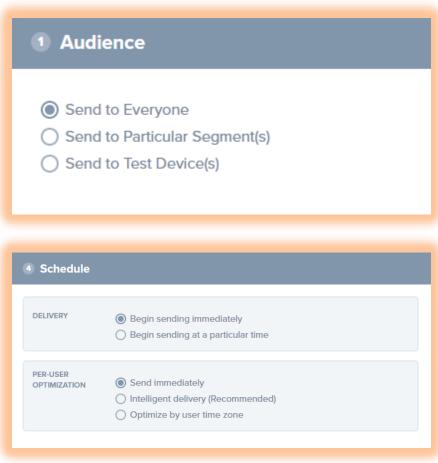
- On Android emulator, quit from our app. It will run in background, then go back to OneSignal.
- On tab Messages, fill in the form on section Message (input Title & Message). Click Confirm, then simply click Send Message. See what's happened in our emulator!





Explore its Features!



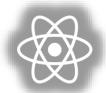




How to Send Notification from Our Own Back-end

* Connecting OneSignal to Our Back-End *





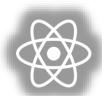
#1 Create Back-End Project

- Create a Node.JS project:
 - \$ mkdir namaProjek
 - \$ cd namaProjek
 - \$ npm init
- Install OneSignal & Express package:
 - \$ npm install express
 - \$ npm install onesignal-node



#2 No ExpressServer.js

```
var OneSignal = require('onesignal-node');
var myClient = new OneSignal.Client({
   userAuthKey: 'abcdefghij',
   app: {appAuthKey: 'a1b2c3d4e5', appId: '1a2b3c4d5e'}
});
var firstNotification = new OneSignal.Notification({
   contents: {en: "Ini notifikasi dari OneSignal",}
});
firstNotification.setParameter('headings', {"en": "Hai"});
firstNotification.setIncludedSegments(['All']);
firstNotification.setExcludedSegments(['Inactive Users']);
myClient.sendNotification(firstNotification,
function (err, httpResponse, data) {
   if (err) {console.log('Ada yang salah...');}
  else {console.log(data, httpResponse.statusCode);}
});
```

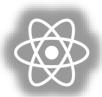


#3 User Auth Key

■ Get userAuthKey from OneSignal Account Management page (click on *Avatar profile*, then choose *Account & API Keys*).

AUTH KEY	MzVmMTdkMTUtN2RjNC00NDBjLWExNTctMmQxZWQ0MmFkOWQ5	USER AUTH KEY The User Auth key is used for adding or modifying apps
		Do not use these keys in your app.
		Use by adding the header Authorization: Basic KEY for our REST API.



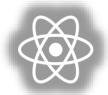


#4 App ID & App Auth Key

■ To get ApplD & AppAuthKey, go to your OneSignal Application, click Settings & choose Keys & IDs.

ONESIGNAL	APP ID
c979b39a-	9fc6-497d-b490-293a5a6353e5
REST API KEY	
NTJkMmEy	ZmQtN2VjOS00ZGM3LTk2NTEtOTUyYml1ZDhmMWJj
SECURITY	
You may dis	able your app to prevent new and scheduled notifications from being delivered.
	anually disable can be instantly re-enabled at any time.





#5 Run All Project

Run your latest React Native project (OneSignal package included):

\$ react-native run-android

After that, run your apps on background. Then run your Server.js! It will send push notification from OneSignal immediately.

\$ node Server



Express & OneSignal

express





Mobile Development



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