**Ionic Firebase Analytics – Tutorial**

1. **Create a new app and add firebase plugin:**

ionic start ionicFbAnalytics blank --type=angular --capacitor --package-id= com.bscoutinho.ionicanalytics

npm install @capacitor-community/firebase-analytics

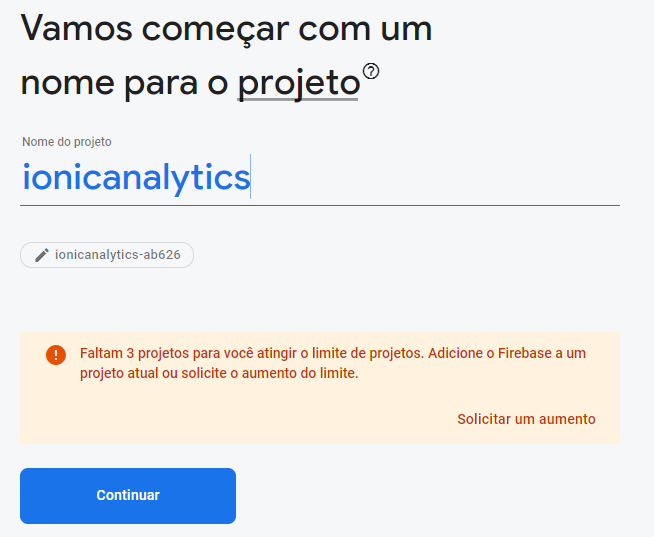
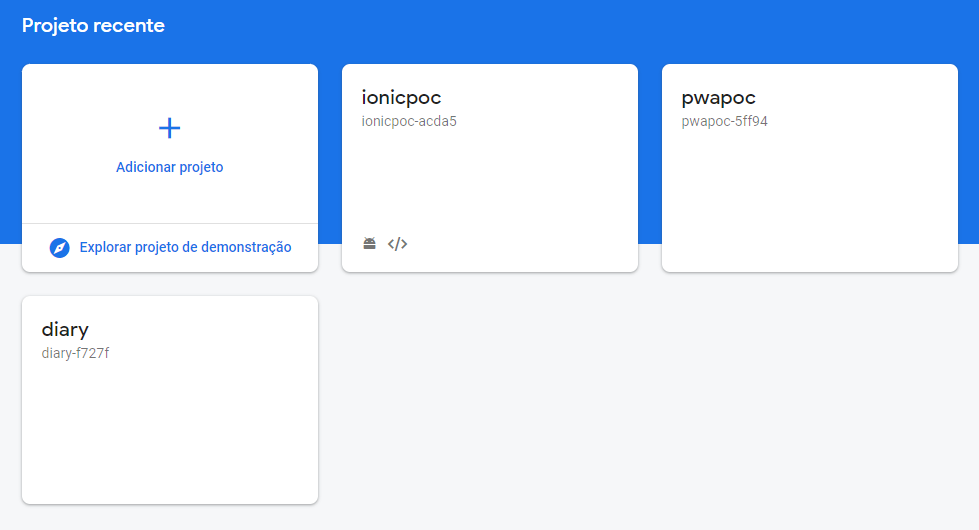
ionic build

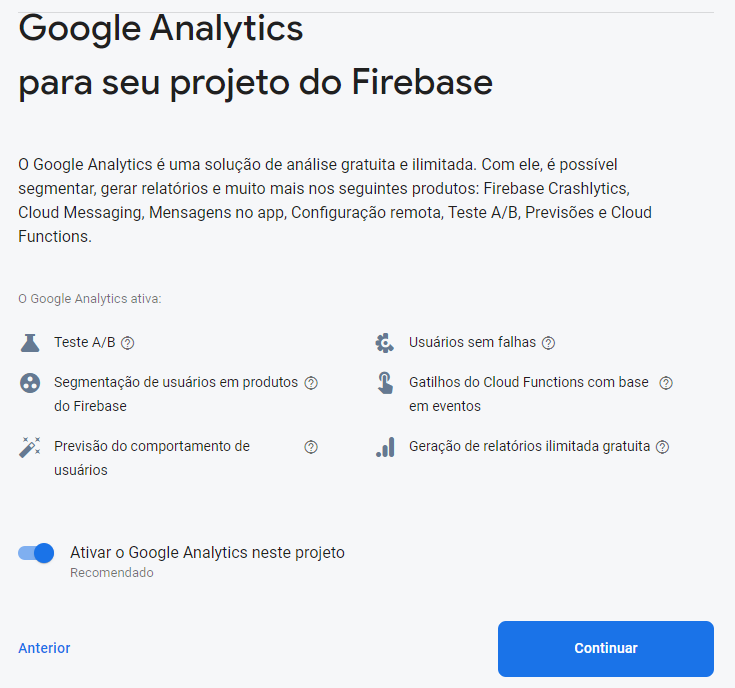
ionic capacitor add android

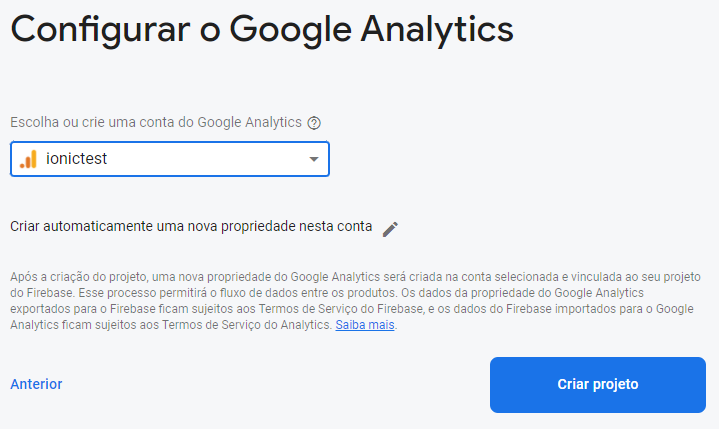
ionic capacitor add ios

1. **Create a project in firebase console**

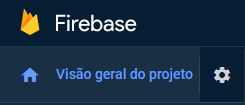
<https://console.firebase.google.com/>







1. **Configure a project in firebase console**

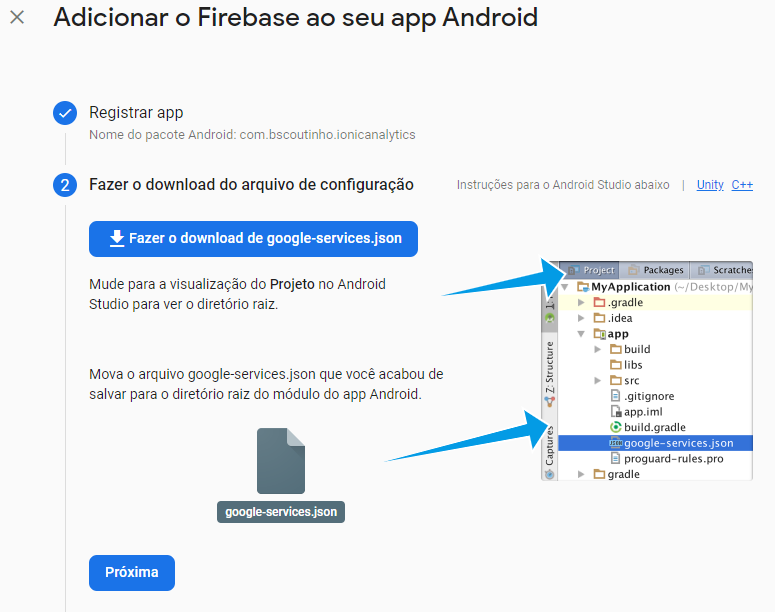


* 1. Web

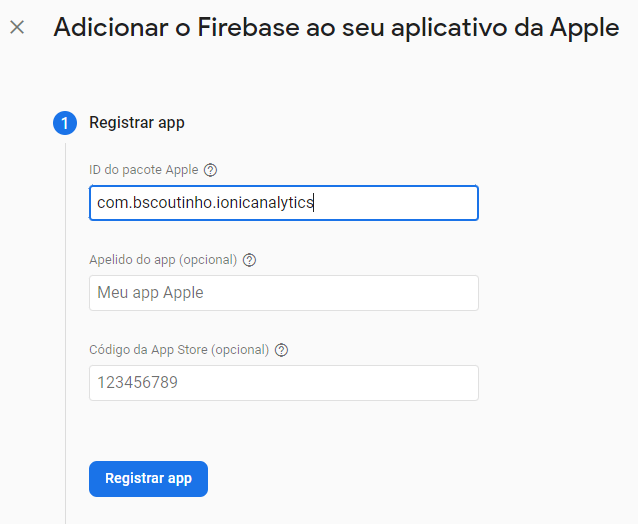


* 1. Android





* 1. IOS





1. **Configure firebase-analytics in the ionic project**
   1. Web

src > environment > environment.ts

export const environment = {

  production: false,

  firebaseConfig: {

    apiKey: 'AIzaSyAjmfTJEapCdtzCcIYMSnlCosfYCapMy7g',

    authDomain: 'ionicanalytics-ab626.firebaseapp.com',

    projectId: 'ionicanalytics-ab626',

    storageBucket: 'ionicanalytics-ab626.appspot.com',

    messagingSenderId: '695250783708',

    appId: '1:695250783708:web:1024ed69f2ea8a647e5319',

    measurementId: '${config.measurementId}'

  }

};

* 1. Android
* Copy file “google-services.json” to android > app
* Initialize plugin in “MainActivity.java”
* package com.devdactic.analytics;
* import android.os.Bundle;
* import com.getcapacitor.BridgeActivity;
* import com.getcapacitor.Plugin;
* import com.getcapacitor.community.firebaseanalytics.FirebaseAnalytics;
* import java.util.ArrayList;
* public class MainActivity extends *BridgeActivity* {
* @*Override*
* public *void* onCreate(*Bundle* *savedInstanceState*) {
* *super*.onCreate(savedInstanceState);
* // Initializes the Bridge
* *this*.init(
* savedInstanceState,
* **new** *ArrayList*<*Class*<*?* extends Plugin>>() {{
* // Additional plugins you've installed go here
* add(FirebaseAnalytics.class);
* }});
* }
* }
  1. IOS

Copy file “GoogleService-info.plist” to ios > App > App

1. **Add a firebase-analytics logic in Ionic**

Change “[home.page.ts](http://home.page.ts)” file to initialize firebase-analytics logic:

import { Component } from '@angular/core';

import { environment } from './../../environments/environment';

import { FirebaseAnalytics } from '@capacitor-community/firebase-analytics';

import { Capacitor } from '@capacitor/core';

@Component({

  selector: 'app-home',

  templateUrl: 'home.page.html',

  styleUrls: ['home.page.scss'],

})

export class HomePage {

  enabled = true;

  constructor() {

    if (Capacitor.getPlatform() === 'web') {

      FirebaseAnalytics.initializeFirebase(environment.firebaseConfig);

    }

  }

  setUser() {

    FirebaseAnalytics.setUserId({

      userId: 'test\_123',

    });

  }

   setProperty() {

    FirebaseAnalytics.setUserProperty({

      name: 'framework',

      value: 'angular',

    });

   }

   logEvent() {

    FirebaseAnalytics.logEvent({

      name: 'login',

      params: {

        method: 'email'

      }

    });

   }

   toggleAnalytics() {

*this*.enabled = !*this*.enabled;

    FirebaseAnalytics.setCollectionEnabled({

      enabled: *this*.enabled,

    });

  }

}

Change “[home.page.html](http://home.page.html)” file to add buttons to trigger actions:

<ion-header>

  <ion-toolbar *color*="primary">

    <ion-title>

      Ionic Firebase Analytics

    </ion-title>

  </ion-toolbar>

</ion-header>

<ion-content *class*="ion-padding">

  <ion-button *expand*="full" *(click)*="setUser()">Set User ID</ion-button>

  <ion-button *expand*="full" *(click)*="setProperty()">Set User Property</ion-button>

  <ion-button *expand*="full" *(click)*="logEvent()">Log Event</ion-button>

  <ion-button *expand*="full" *routerLink*="/second">Go to second page</ion-button>

  <ion-button *expand*="full" *(click)*="toggleAnalytics()">Toggle Data collection</ion-button>

  Analytics enabled: {{ enabled }}

</ion-content>

1. **Debugging in development mode**
   1. Web

Install Google Analytics Debugger extension:

<https://chrome.google.com/webstore/detail/google-analytics-debugger/jnkmfdileelhofjcijamephohjechhna?hl=pt>

\* The extension need to be ON to debugger works.

* 1. Android

All we need to to for Android to enable the debug mode is calling this from your command line while your device is connected:

adb shell setprop debug.firebase.analytics.app <package\_name>

# To later disable it

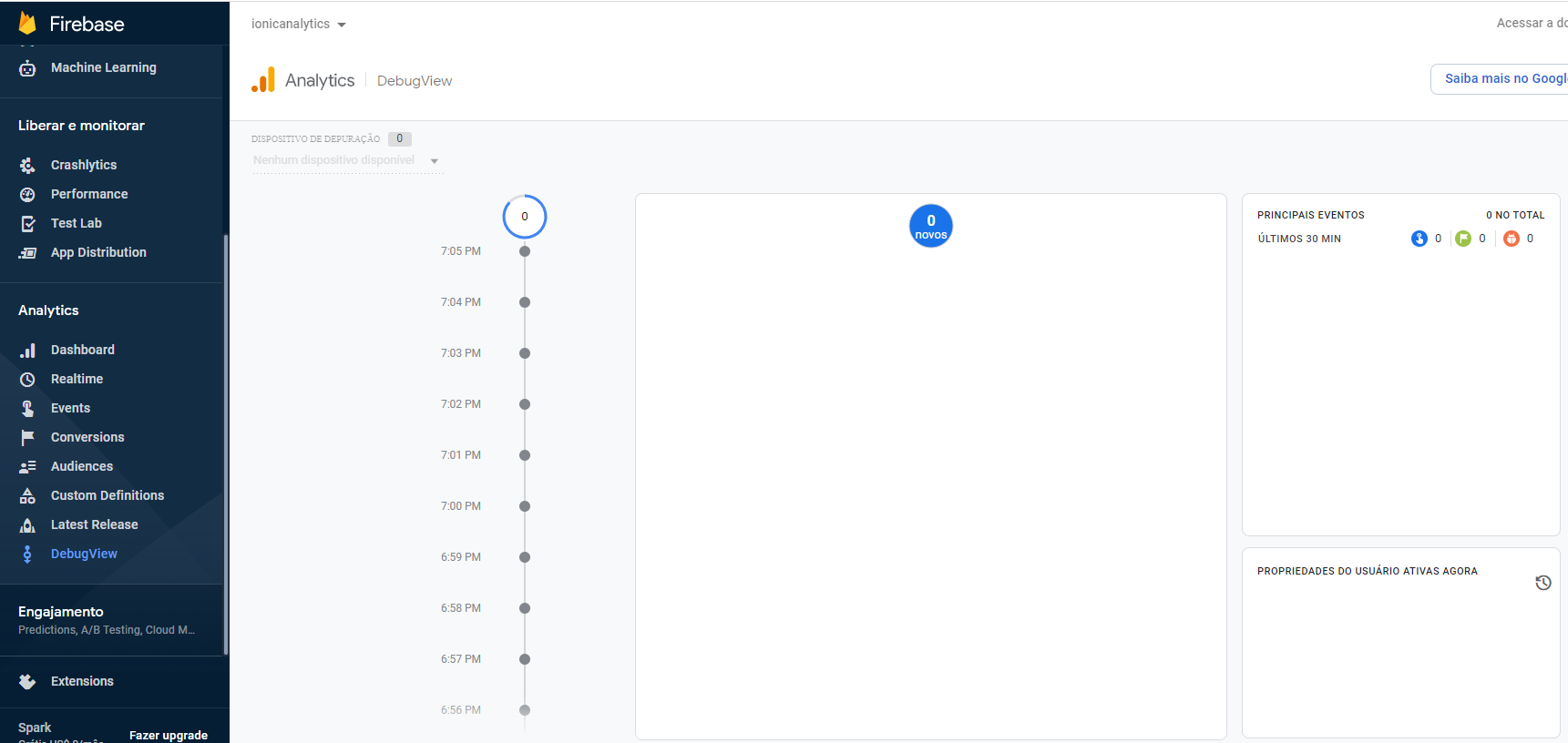
adb shell setprop debug.firebase.analytics.app .none.

* 1. IOS

To start your iOS app in debug mode, all we need to do is add a flag to the launch arguments of your app. You can do this within Xcode by going to Product -> Scheme -> Edit Scheme in the top bar, and then add this flag to the launch arguments within the Run section:

-FIRDebugEnabled

* 1. Check Debugger working on firebase console.



Note: this tutorial is based on this articles:

https://devdactic.com/firebase-analytics-ionic/

https://www.youtube.com/watch?v=\_mks8zECJ7A&list=WL&index=36&t=31s