
Fire Notifications

Release 1.1.0

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FIRST STEPS

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Fire Notifications (v1.0.0) is a WordPress plugin that help send notifications / messages from WordPress platform.

Download plugin: <https://techcater.com>

Video Tutorials: [Youtube Playlist - Firebase WordPress Push Notifications](#)

Note: This project is under active development.

FIRST STEPS

- *Introductions*
- *Plugin Configuration*
- *Firebase Cloud Functions Deployment*

1.1 Introductions

After downloading the [Fire Notifications](#) plugin, please follow the instructions in order to have better review of how to install and make use of this plugin in your WordPress site.

One thing you should note is all of the data only belongs your firebase project, so you will have control of all of data.

List of features

- Send Messages to a WordPress clients when a post / page is updated
- Programmatically send messages basing on triggers
- More to come...

1.2 Plugin Configuration

After you download the zip file of [Fire Notifications](#), you can upload directly to the WordPress dashboard.

1.2.1 Prepare CCloud Messaging Credentials

You can get it by logging into <https://console.firebase.google.com>: **Project Settings > Cloud Messaging**

Then you enter the information in WordPress Dashboard: **Fire Notifications > General**

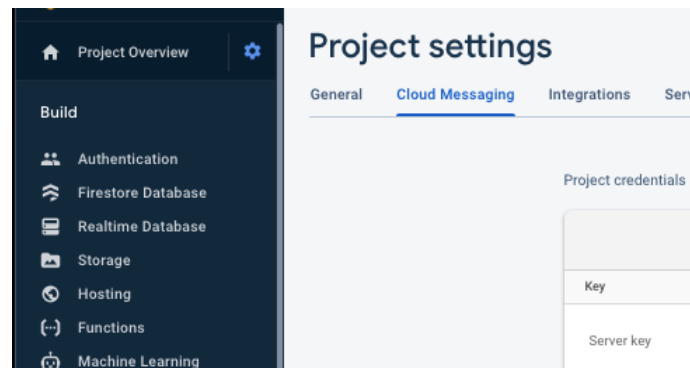


Fig. 1: Cloud Messaging

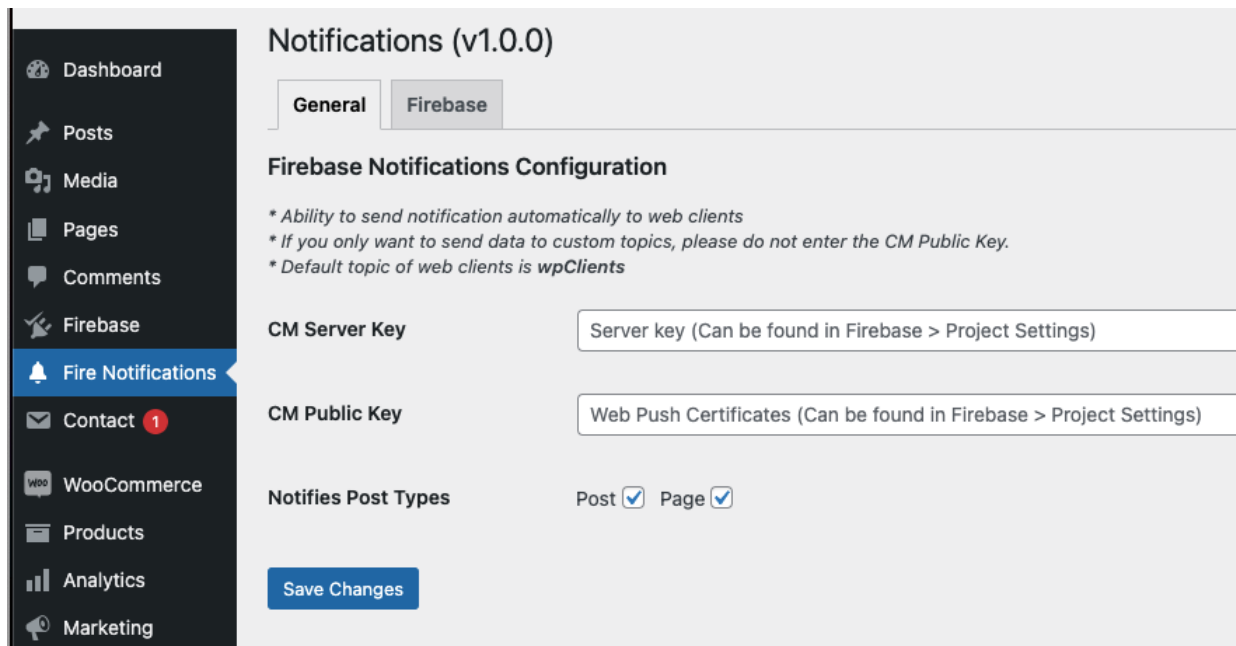


Fig. 2: General information

1.2.2 Prepare Firebase Credentials

Before using the plugin, we need have the credentials from Firebase Console. You can get it by logging into <https://console.firebase.google.com>.

Then you enter the information in WordPress Dashboard: **Fire Notifications > Firebase**

1.2.3 Update Firestore Security Rules

The notifications mechanism relies on Firestore, in order to keep track of your web clients subscription. Please add this rule to your Firestore.

```
match /wpTokens/{token} {
  allow write: if true;
}
```

After you finish all the configuration, the next step is to install cloud functions, so you web clients can receive notifications.

1.3 Firebase Cloud Functions Deployment

This step is important, without this. Your web clients will not be able to receive notifications.

1.3.1 Prerequisite

In order to deploy cloud functions, you need to have [Node.js v14](#) installed on your machine.

On Google Cloud Platform, go to your project and make sure Cloud Build API and Cloud Functions are enabled. And the account that you use to deploy has *Service Account User* Role in order to deploy cloud functions to Firebase.

Then install [firebase-tools](#) packaged

```
npm install -g firebase-tools
```

SignIn and test firebase cli

```
firebase login
```

1.3.2 Change Your Plan to Blaze

Why will I need a billing account to use the Node.js 10 runtime for Cloud Functions for Firebase?

Because of updates to its underlying architecture planned for August 17, 2020, Cloud Functions for Firebase will rely on some additional paid Google services: Cloud Build, Container Registry, and Cloud Storage. These architecture updates will apply for functions deployed to the Node.js 10 runtime. [Usage of these services will be billed in addition to existing pricing.](#)

Add a web app

1

Register app

2

Add Firebase SDK

Copy and paste these scripts into the bottom of your <body> tag, but before you use any Firebase services:

```
<!-- The core Firebase JS SDK is always required and must be listed first -->
<script src="https://www.gstatic.com/firebasejs/7.8.2/firebase-app.js"></script>

<!-- TODO: Add SDKs for Firebase products that you want to use
      https://firebase.google.com/docs/web/setup#available-libraries -->

<script>
  // Your web app's Firebase configuration
  var firebaseConfig = {
    apiKey: "AIzaSyC3em",
    authDomain: "server",
    databaseURL: "https",
    projectId: "serverl",
    storageBucket: "ser",
    messagingSenderId: "1:875634686",
    appId: "1:875634686"
  };
  // Initialize Firebase
  firebase.initializeApp(firebaseConfig);
</script>
```

Learn more about Firebase for web: [Get started](#), [Web SDK API reference](#), [Samples](#)

Note: Upgrade to full analytics to measure web analytics

Upgrade now

Continue to the console

Fig. 3: Firebase Credentials

The screenshot shows the WordPress Settings page for Firebase. On the left is a dark sidebar with a menu: 'Fire Notifications' (selected), 'Contact' (with a red notification bubble '1'), 'WooCommerce', 'Products', 'Analytics', 'Marketing', 'Elementor', 'Templates', 'Appearance', 'Plugins', 'Users', 'Tools', 'Settings', and 'Performance' (with a red notification bubble '2'). The main content area has two tabs: 'General' and 'Firebase' (active). The 'Firebase Configuration' section contains the following fields:

- API Key:** AlzaSyAxe.....
- Auth Domain:** project-id.firebaseio.com
- Database URL:** https://project-id.firebaseio.com
- Project Id:** project-id
- App Id:** 1:xxxxxx:web:xxxxxx
- Messaging Sender Id:** 12345678910

Below the fields is a blue 'Save Changes' button. Above the fields, there is explanatory text: 'Firebase info can be found in Project Setting > SERVICE ACCOUNTS in [Firebase Console](#)' and 'You don't have to enter storage bucket, app id, measurement id, and messaging sender id if you'.

Fig. 4: Firebase Credentials

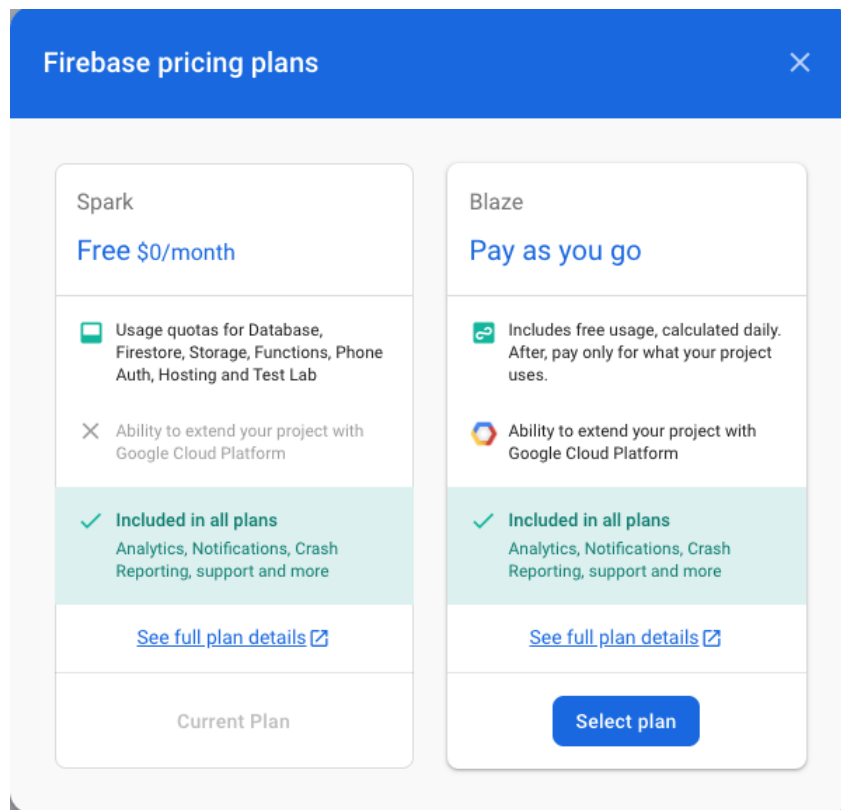


Fig. 5: Firebase pricing plans

1.3.3 Install Packages & Deploy Cloud Functions

Install packages and build functions. I'm using Yarn, you can use npm if you want.

```
cd functions/  
yarn OR npm install
```

The code will go to *functions* folder, then installs packages with yarn / npm.

Start deploying firebase functions

```
cd functions  
yarn deploy --project project-id  
// OR  
firebase deploy --only functions --project project-id
```

The deployment result should look like this

```
✓ functions: Finished running predeploy script.  
i functions: ensuring necessary APIs are enabled...  
✓ functions: all necessary APIs are enabled  
i functions: preparing functions directory for uploading...  
i functions: packaged functions (103.29 KB) for uploading  
✓ functions: functions folder uploaded successfully  
i functions: updating Node.js 14 function wpTokens-onCreate(us-central1)...  
✓ functions[wpTokens-onCreate(us-central1)] Successful update operation.  
  
✓ Deploy complete!  
  
Project Console: https://console.firebase.google.com/project/project-id/overview  
Done in 77.56s.
```

Just to verify that everything works, you can find a cloud functions **wpTokens-onCreate** in your firebase console after the deployment.

MISCELLANEOUS

- *CHANGELOG*

2.1 CHANGELOG

All notable changes to this project will be documented in this file.

2.1.1 ## [1.1.0] - 2022-02-06

- :rocket: [New Feature]

- improve service worker loading
- lazyloading scripts to improve performance

2.1.2 ## [1.0.0] - 2022-01-15

- :rocket: [New Feature]

- Initialized fire notifications plugin