PERSONAL EXPENSE TRACKER APPLICATION

Domain: Cloud Application Development

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Create an account in send Grid

SendGrid Setup

How to setup Sendgrid for use in OneSignal Email Messaging

OneSignal's Email Messaging requires the use of a third-party email service provider to handle email delivery. All you have to do is set up the integration between the provider and OneSignal, and you'll be ready to send emails through OneSignal.

Step 1. Requirements

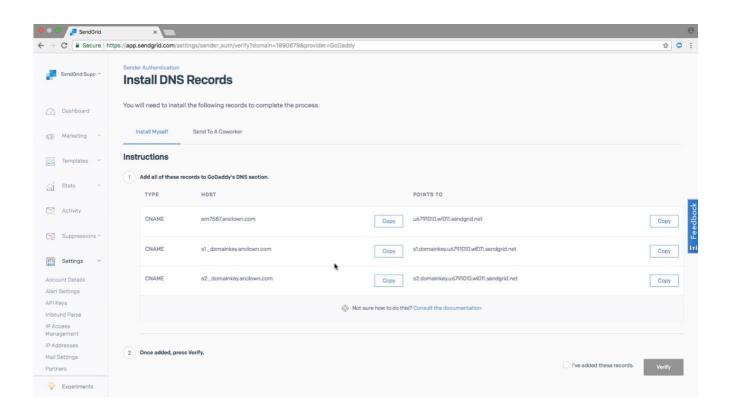
- SendGrid Account
- OneSignal Account

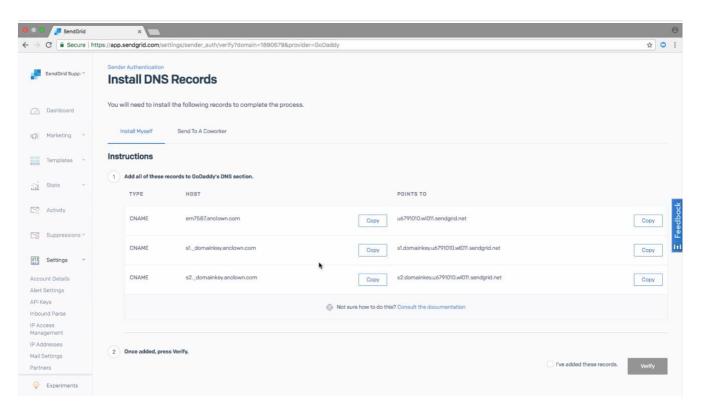
Step 2. SendGrid Sender Authentication

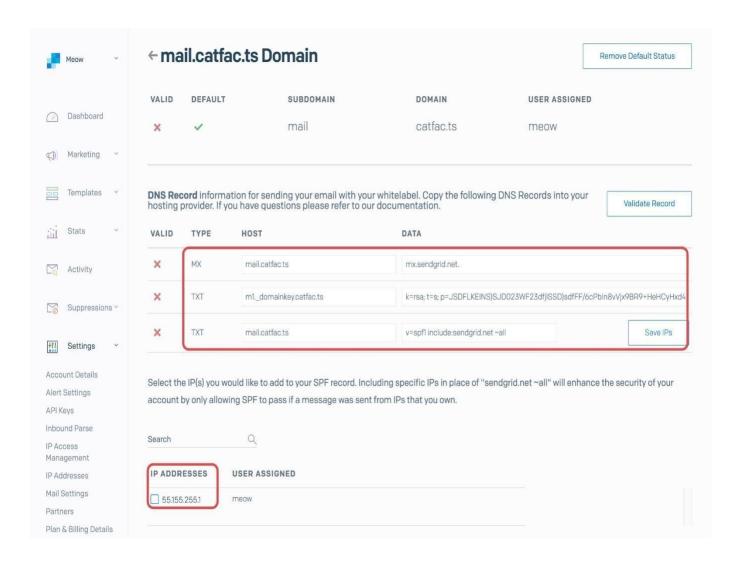
It is recommended to use SendGrid's "Domain Authentication" so that SendGrid sends emails via your domain rather than via sendgrid.net, and the links your users click as coming from your domain.

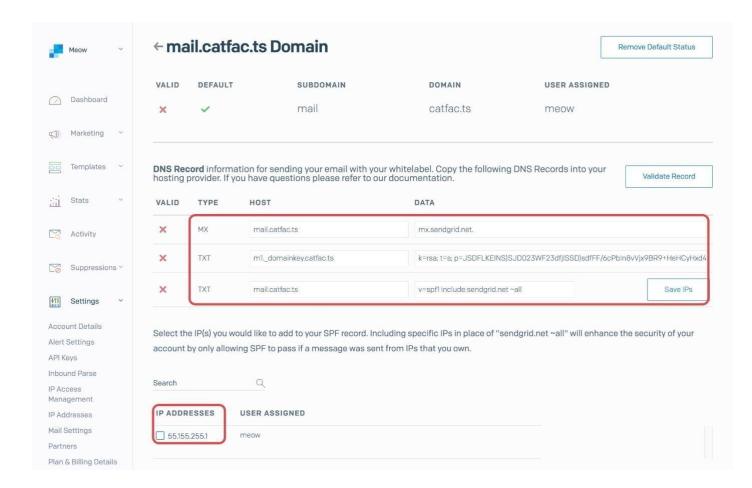
Install DNS Records

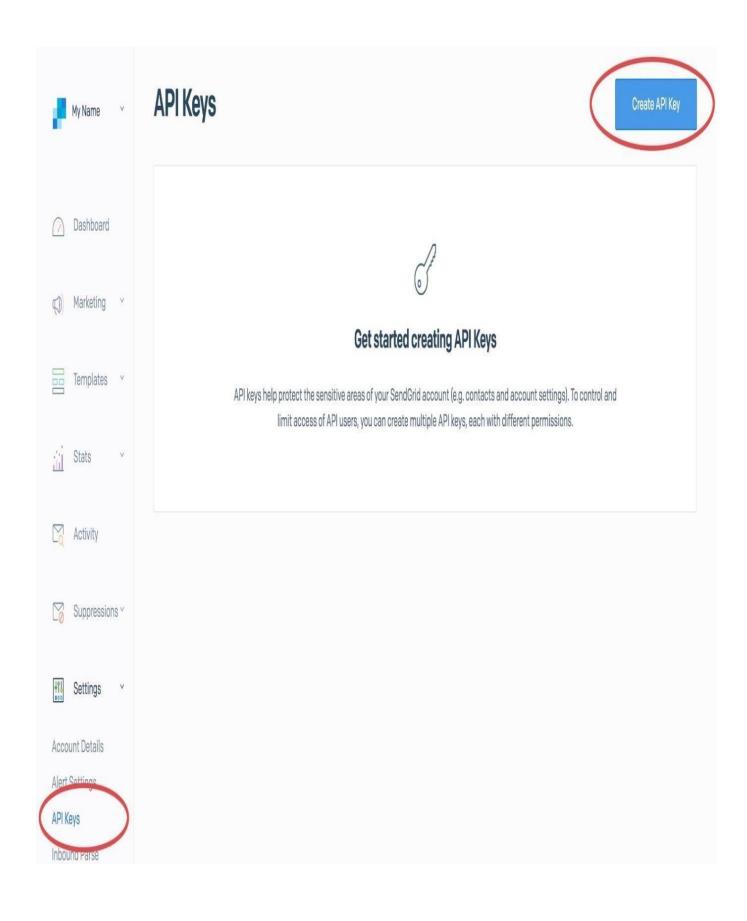
If you selected **Domain Authentication** make sure your DNS Records are verified.

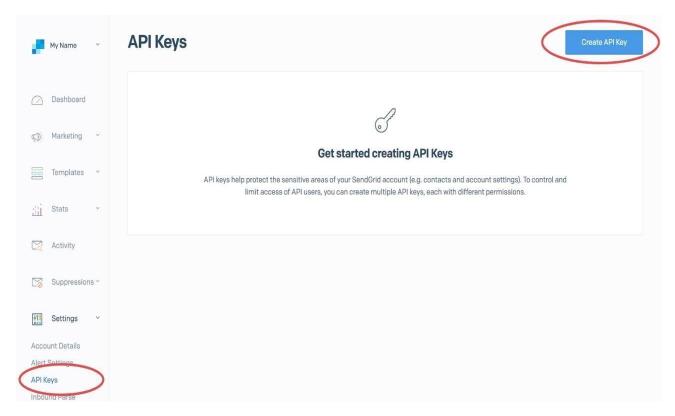




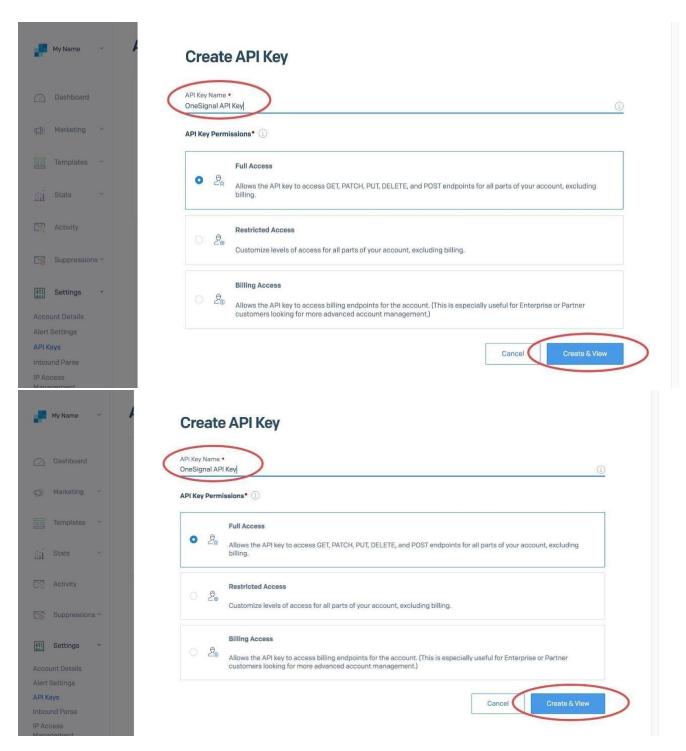




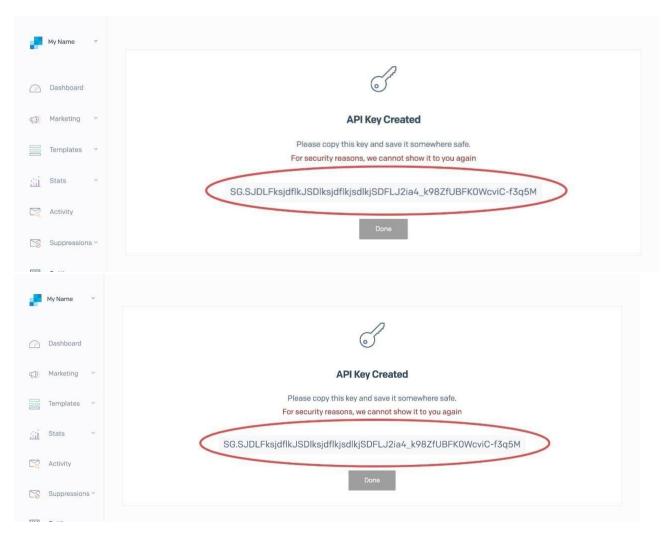




Name your API key something like OneSignal API Key and be sure to set permissions to **Full Access**. Click 'Create & View' when you are ready.



Next, click on the API key to copy it to your clipboard.



What are the minimum API restrictions I can allow? The minimum access you need to allow is as follows:

Edit API Key

Sender Authentication

Stats

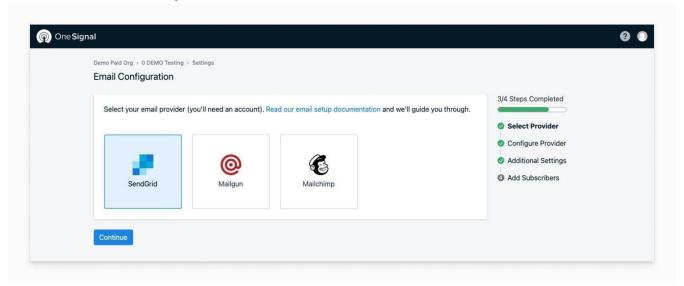
Suppressions

API Key Name • Restricted Test API Key Permissions • 🗓 **Full Access** Allows the API key to access GET, PATCH, PUT, DELETE, and POST endpoints for all parts of your account, excluding billing and Email Address Validation. **Restricted Access** 2 Customize levels of access for all parts of your account, excluding billing and Email Address Validation. **Billing Access** 20 Allows the API key to access billing endpoints for the account. (This is especially useful for Enterprise or Partner customers looking for more advanced account management.) Access Details No Access Read Access Full Access API Keys Alerts Category Management Design Library **Email Activity Email Testing** IP Management Inbound Parse Mail Send Mail Settings Marketing Partners Security

Step 4. Enable Email Messaging

In OneSignal, navigate to **Settings > Platforms** and click Email to configure your email settings.

Select **SendGrid** as the provider.



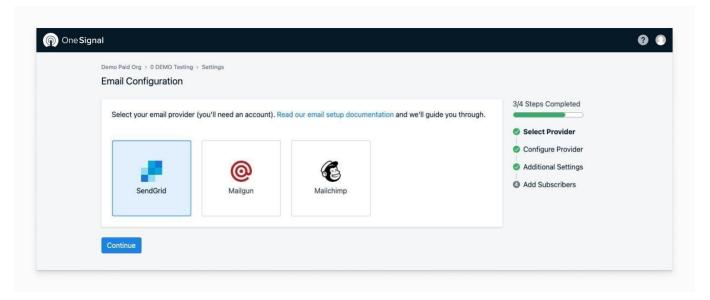


Image selecting SendGrid from email settings

Paste your SendGrid API key into the provided field.

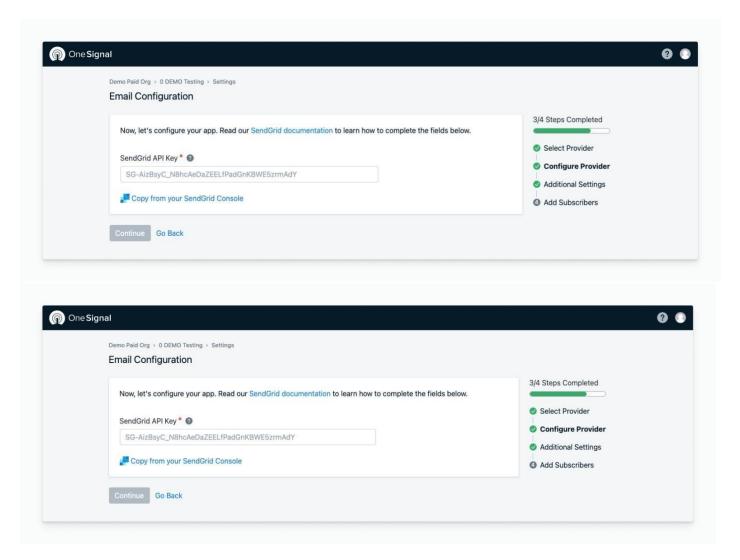


Image showing where to enter your API Key

Delivery Defaults

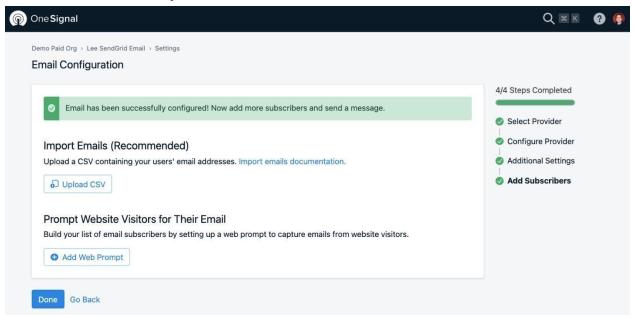
Add the default **name** and **email address** you want your emails to come from (these can be changed later).

Press Done when finished.

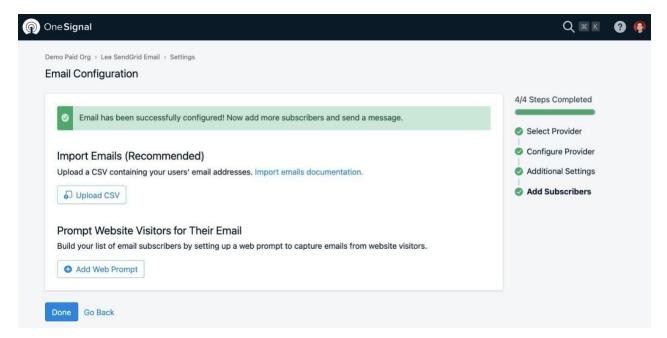
Step 5. Add Subscribers

If you have a list of emails ready, select **Upload CSV** to <u>Import Email</u> <u>Addresses.</u> You can always do this again later.

If you have a website and want to prompt users to provide their email. Select **Add Web Prompt** to use OneS



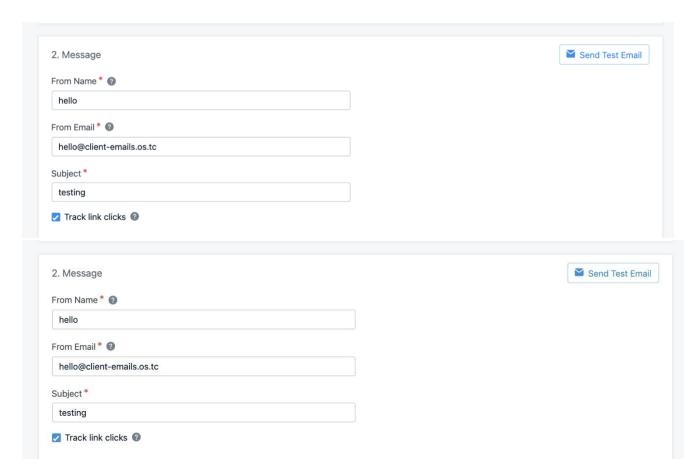
ignal's Email Web Prompt.



Step 6. Send Yourself a Test Email

In OneSignal > Messages > Email, select New Email.

Add a Subject and click **Send Test Email**. Input your email and press **Send Test Message**.



An email should arrive to your inbox shortly!

Step 7. Set Custom User Properties

OneSignal creates channel-level device records under a unique Id called the player_id. A single user can have multiple player_id records based on how many devices, email addresses, and phone numbers they use to interact with your app.

If your app has its own login system to t rack users, call <code>setExternalUserId</code> at any time to link all channels to a single user. For more details, see External User Ids.

All other event and user properties can be set using <u>Data Tags</u>. Setting this data is required for more complex segmentation and message personalization.

Step 8. Collect New Emails

Emails can be added into OneSignal using the following options outlined in our Import Email Addresses guide.

| Option | Description |
|---------------------|---|
| Dashboard Upload | Upload a csv of emails and user dataor manually add emails. |
| Server API | Programmatically add emails server side. |
| SDK setEmail method | Add emailsusing ourclient side SDK. Recommended if using our SDKs for push or in-app messaging. |
| Email Web Prompt | A web prompt that allows user to include their own email address and phone number. |

