SETTING UP APPLICATION ENVIRONMENT

Create an account in SendGrid

Date	28 October 2022
Team ID	PNT2022TMID39206
Project Name	Inventory Management System for Retailers
Maximum Marks	4 Marks

SendGrid Setup

How to setup SendGrid for use in One Signal Email Messaging

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

Step 1. Requirements

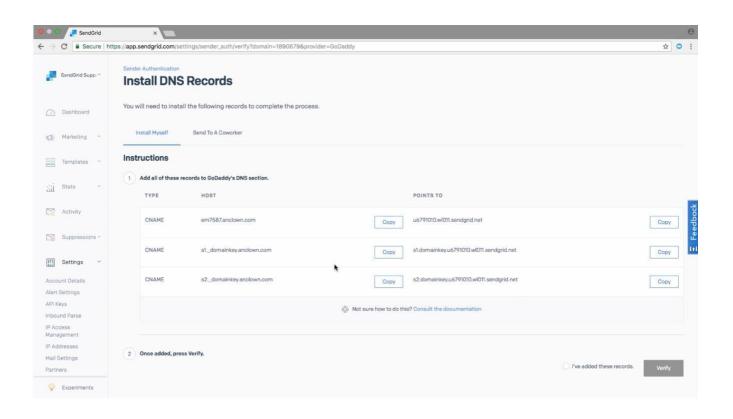
- SendGrid Account
- One Signal Account

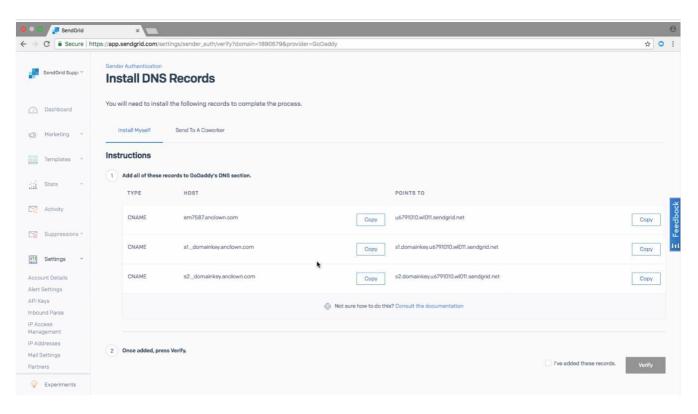
Step 2. SendGrid Sender Authentication

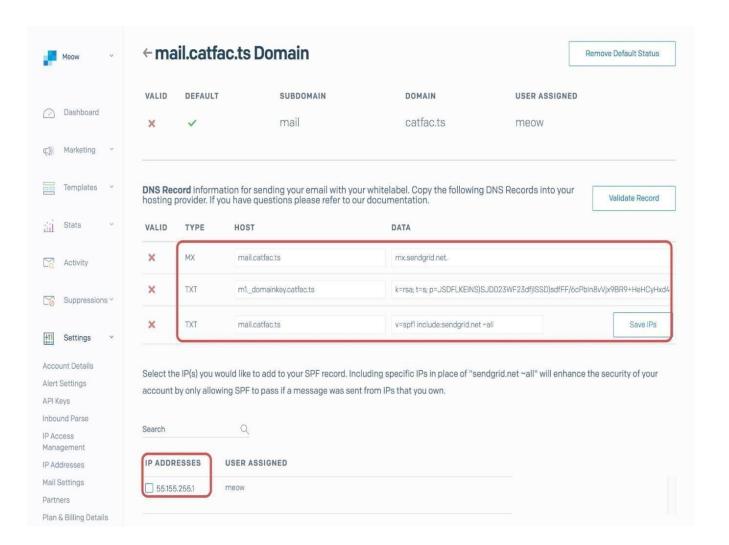
It is recommended to use SendGrid's "Domain Authentication" so that SendGrid sends emails via your domain rather than <code>via sendgrid.net</code>, and the links your users click as coming from your domain.

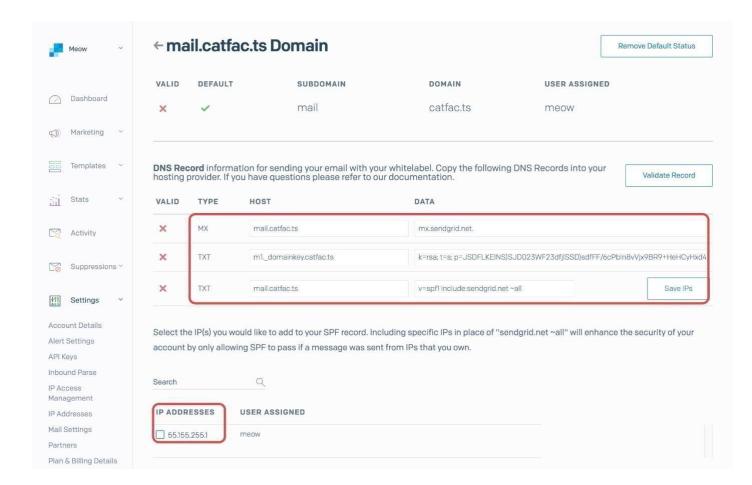
Install DNS Records

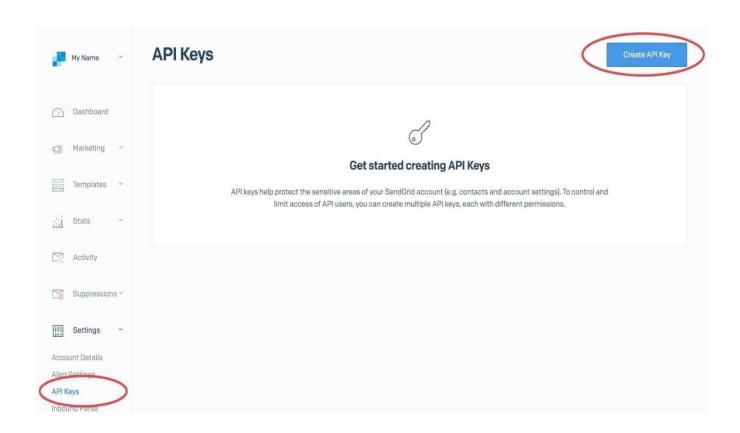
If you selected **Domain Authentication**, make sure your DNS Records are verified.

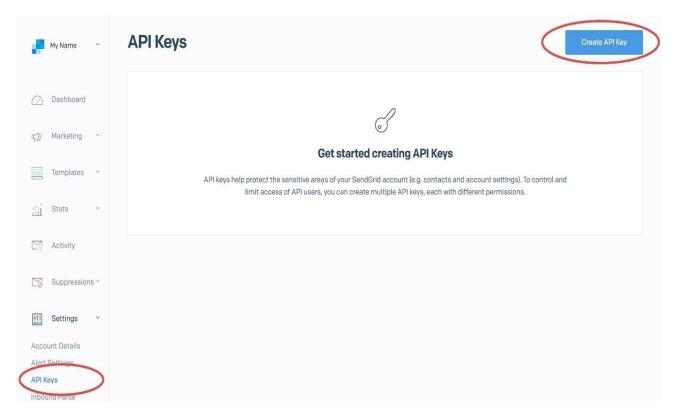




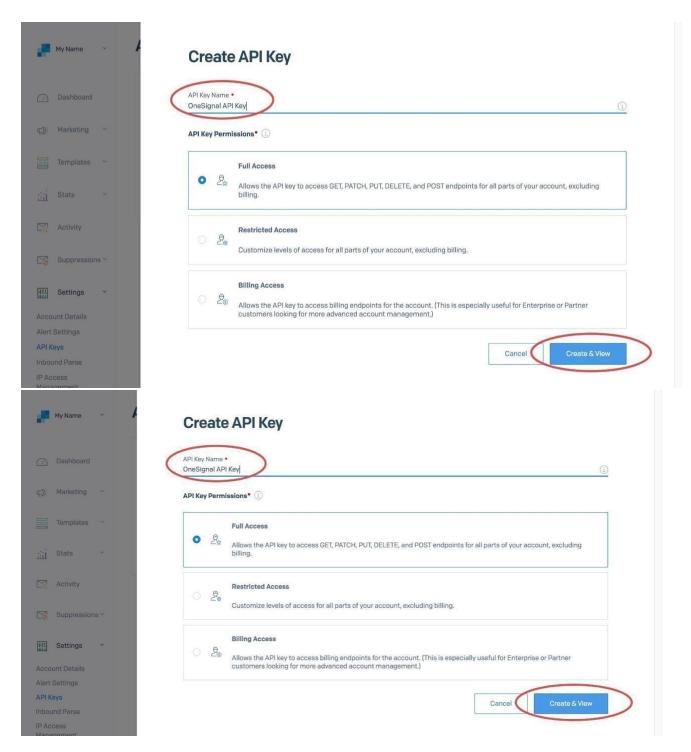




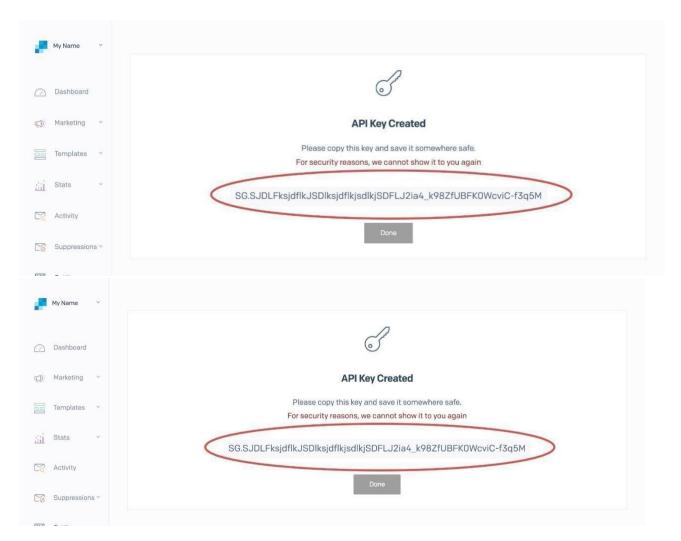




Name your API key something like OneSignal API Key and be sure to set permissions to **Full Access**. Click 'Create & View' when you are ready.



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

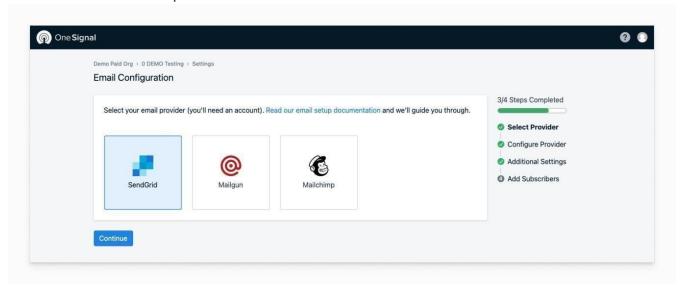
Suppressions

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.



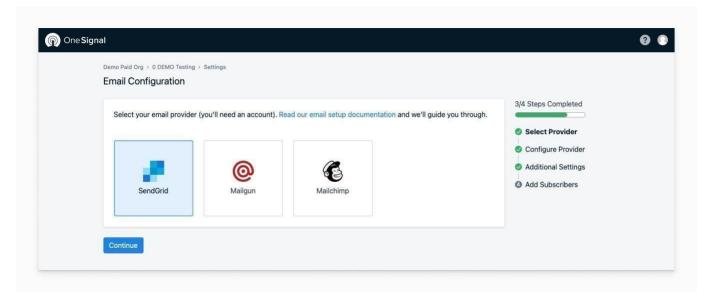


Image selecting SendGrid from email settings

Paste your SendGrid API key into the provided field.

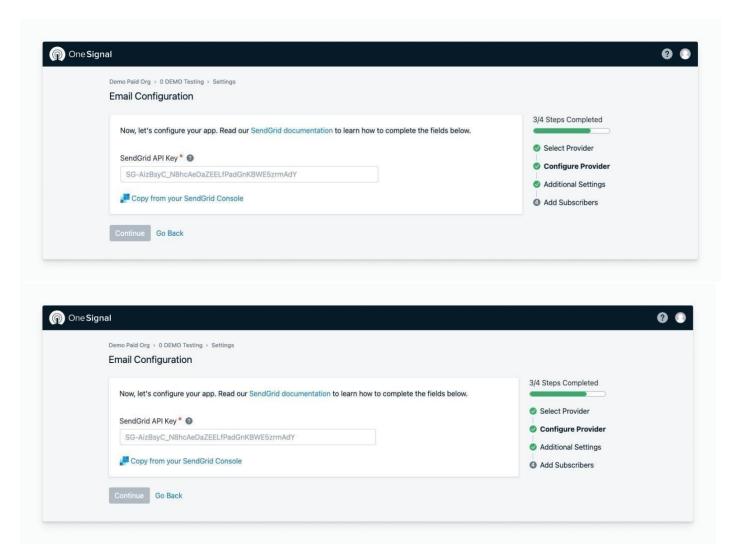


Image showing where to enter your API Key

Delivery Defaults

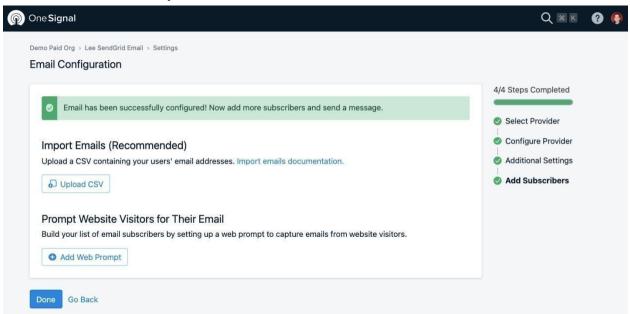
Add the default **name** and **email address** you want your emails to come from (these can be changed later).

Press Done when finished.

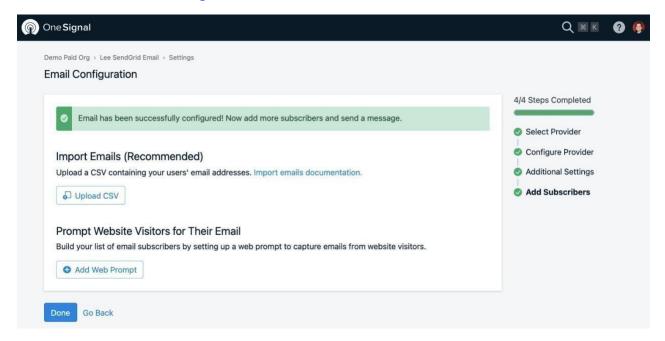
Step 5. Add Subscribers

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



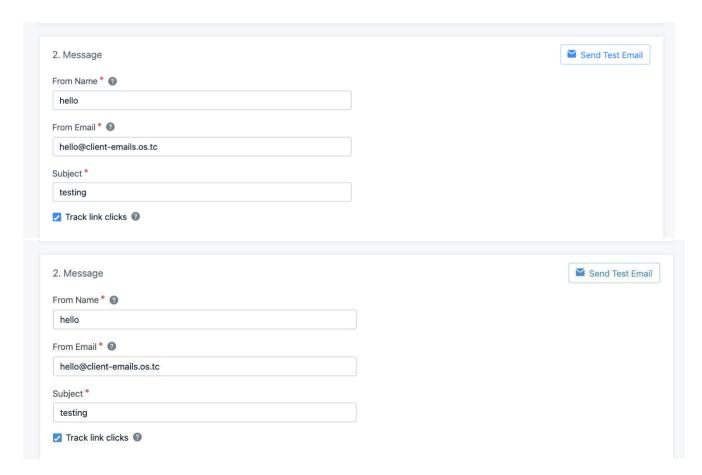
ignal's Email Web Prompt.



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

One Signal creates channel-level device records under a unique ld 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 <u>Import Email Addresses</u> guide.

Option	Description
Dashboard Upload	Upload a csv of emails and user data or manuallyadd emails.
Server API	Programmatically add emails server side.
SDK setEmail method	Add emails using our client 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.

Email Configuration

Email has been successfully configured! Now add more subscribers and set up a prompt to collect email addresses.

Import Emails (Recommended)

Upload a CSV containing your users' email addresses. Import emails documentation.

Upload CSV

Prompt Website Visitors for Their Email

Build your list of email subscribers by setting up a web prompt to capture emails from website visitors.

Add Web Prompt

Done Go Back