INVENTORYMANAGEMENTSYSTEM FOR RETAILERS

Domain: Cloud Application Development

Team id: PNT2022TMID05660

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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 thirdparty 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 HYPERLINK "https://www.sendgrid.com/" HYPERLINK "https://www.sendgrid.com/"Account
- OneSignal HYPERLINK "https://onesignal.com/" HYPERLINK "https://onesignal.com/"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.

Meow ⌄

← **mail.catfac.ts Domain**

Remove Default Status

VALID	DEFAULT	SUBDOMAIN	DOMAIN	USER ASSIGNED
✗	✓	mail	catfac.ts	meow

- ⏲ Dashboard
- 📢 Marketing ⌄
- ▦ Templates ⌄
- 📊 Stats ⌄
- 📧 Activity
- 📧 Suppressions ⌄
- 📊 Settings ⌄

DNS Record information for sending your email with your whitelabel. Copy the following DNS Records into your hosting provider. If you have questions please refer to our documentation.

Validate Record

VALID	TYPE	HOST	DATA	
✗	MX	mail.catfac.ts	mx.sendgrid.net.	
✗	TXT	m1._domainkey.catfac.ts	k=rsa; t=s; p=JSDFLKEINS)SJD023WF23dfjISSD)sdfFF/6cPbIn8vVjx9BR9+HeHCyHxd4	
✗	TXT	mail.catfac.ts	v=spf1 include:sendgrid.net ~all	Save IPs

Account Details
Alert Settings
API Keys
Inbound Parse
IP Access
Management
IP Addresses
Mail Settings
Partners
Plan & Billing Details

Select the IP(s) you would like to add to your SPF record. Including specific IPs in place of "sendgrid.net ~all" will enhance the security of your account by only allowing SPF to pass if a message was sent from IPs that you own.

Search   🔍

IP ADDRESSES	USER ASSIGNED
☐ 55.155.255.1	meow

← **mail.catfac.ts Domain**

Remove Default Status

VALID	DEFAULT	SUBDOMAIN	DOMAIN	USER ASSIGNED
✗	✓	mail	catfac.ts	meow

DNS Record information for sending your email with your whitelabel. Copy the following DNS Records into your hosting provider. If you have questions please refer to our documentation.

Validate Record

VALID	TYPE	HOST	DATA	
✗	MX	mail.catfac.ts	mx.sendgrid.net.	
✗	TXT	m1._domainkey.catfac.ts	k=rsa; t=s; p=JSDFLKEINS)SJD023WF23dfjISSD)sdfFF/6cPbIn8vVjx9BR9+HeHCyHxd4	
✗	TXT	mail.catfac.ts	v=spf1 include:sendgrid.net ~all	Save IPs

Select the IP(s) you would like to add to your SPF record. Including specific IPs in place of "sendgrid.net ~all" will enhance the security of your account by only allowing SPF to pass if a message was sent from IPs that you own.

Search 🔍

IP ADDRESSES	USER ASSIGNED
☐ 55.155.255.1	meow

Sidebar navigation:

Meow ⌄

Dashboard
Marketing ⌄
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Account Details
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API Keys

Create API Key

Get started creating API Keys

API keys help protect the sensitive areas of your SendGrid account (e.g. contacts and account settings). To control and limit access of API users, you can create multiple API keys, each with different permissions.

My Name

Dashboard

Marketing

Templates

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Activity

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Account Details

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API Keys

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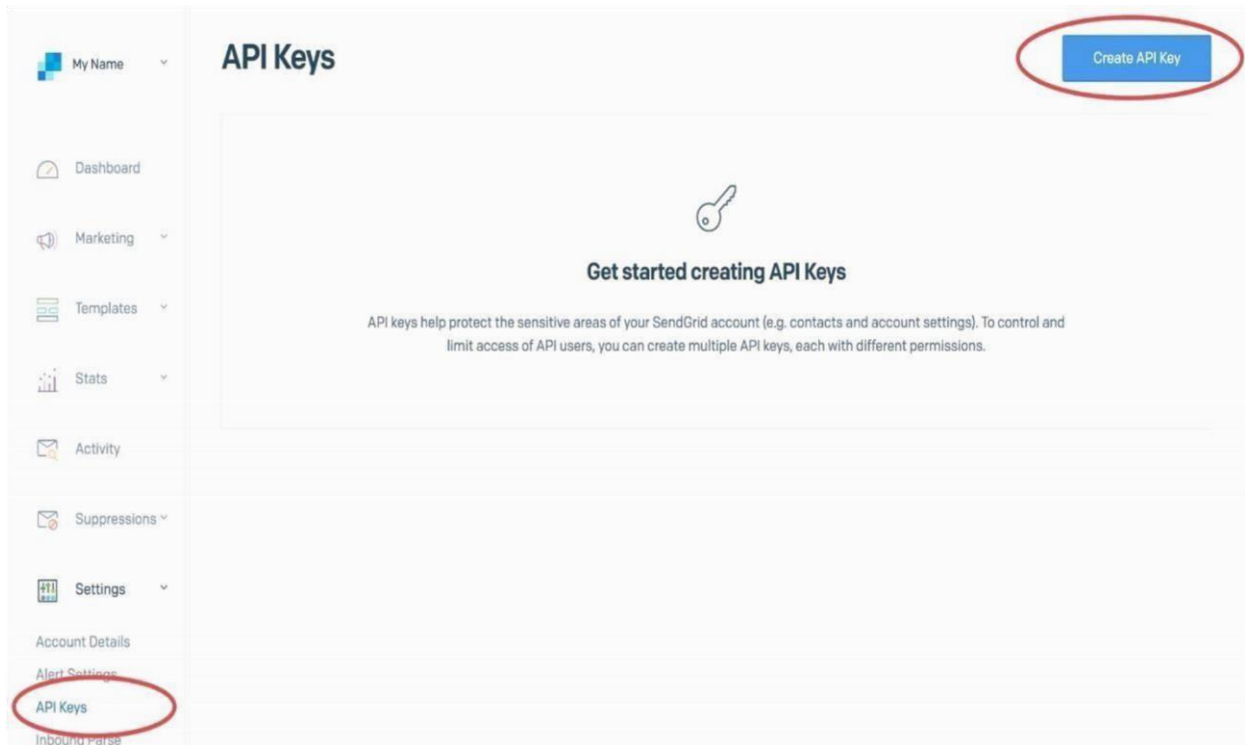
Name your API key something like OneSignal API Key and be sure to set permissions to **Full Access**. Click 'Create & View' when you are ready.

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

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

● 🔍⚙   Customize levels of access for all parts of your account, excluding billing and Email Address Validation.
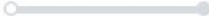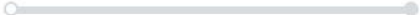
Billing Access

○ 🔍ⓘ   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	
Sender Authentication	
⌄ Stats	
⌄ Suppressions	

• Step 4. Enable Email Messaging

In OneSignal, navigate to **Settings > Platforms** and click
Email to configure your email settings.
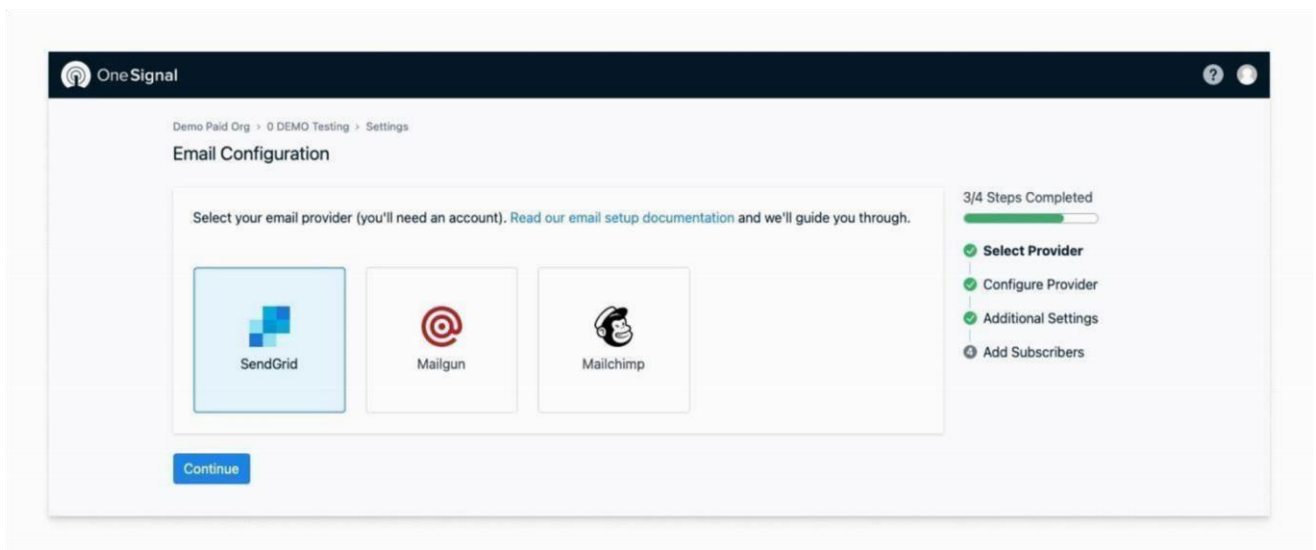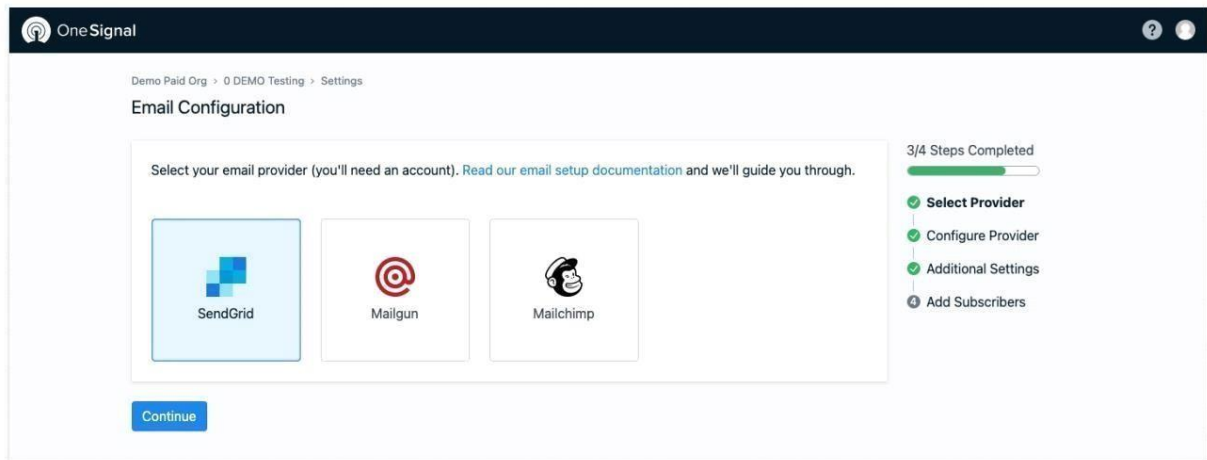
Select **SendGrid** as the provider.

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 HYPERLINK

"https://documentation.onesignal.com/docs/import-emailaddresses"Import Emai HYPERLINK

"https://documentation.onesignal.com/docs/import-emailaddresses"l Addresses. HYPERLINK

"https://documentation.onesignal.com/docs/import-email-addresses" 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
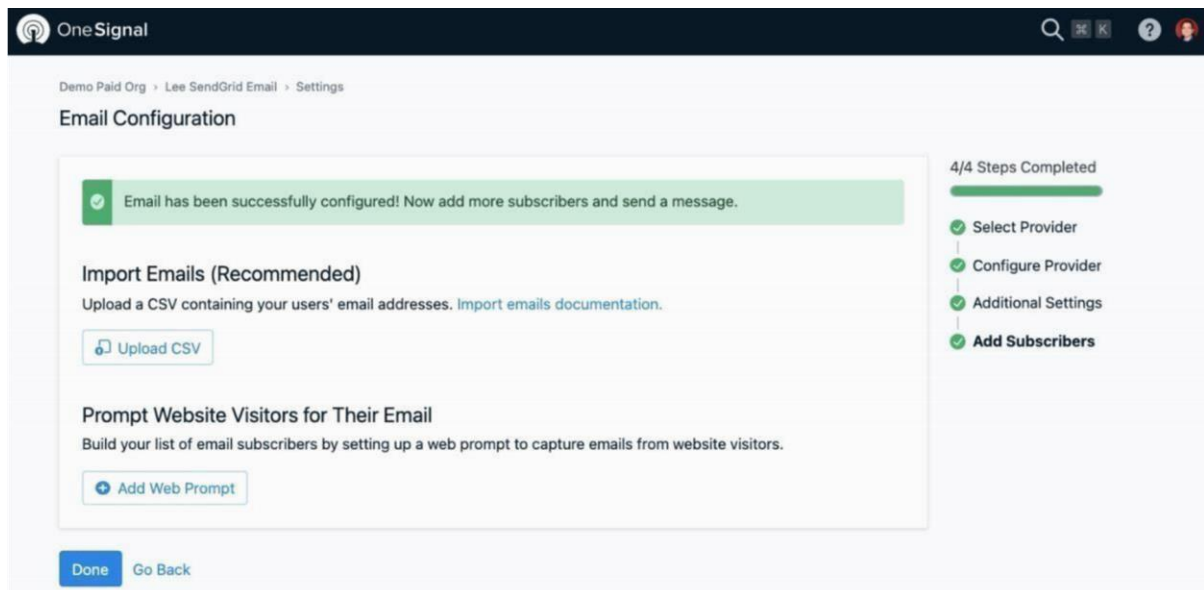
ignal's Email HYPERLINK "https://documentation.onesignal.com/docs/email-phone-numberweb-prompt" HYPERLINK "https://documentation.onesignal.com/docs/email-phonenumber-web-prompt"Web HYPERLINK

"https://documentation.onesignal.com/docs/email-phone-number-web-prompt" HYPERLINK "https://documentation.onesignal.com/docs/email-phone-number-webprompt"Prompt HYPERLINK

"https://documentation.onesignal.com/docs/emailphone-number-web-prompt".
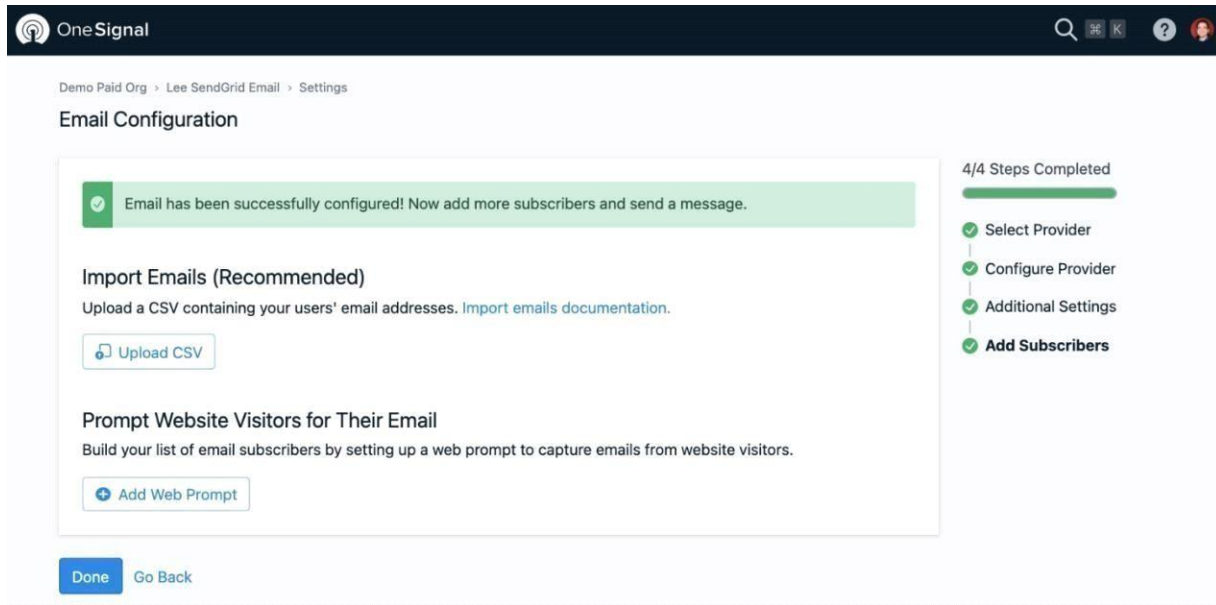
Step 6. Send Yourself a Test Email

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
`setExternalUserId` at any time to link all channels to a single user.
For more details, see HYPERLINK

"https://documentation.onesignal.com/docs/external-userids"Externa
HYPERLINK

"https://documentation.onesignal.com/docs/external-user-ids"l

User HYPERLINK "https://documentation.onesignal.com/docs/external-user-ids"
HYPERLINK

["https://documentation.onesignal.com/docs/external-userids"Ids](https://documentation.onesignal.com/docs/external-userids) HYPERLINK

["https://documentation.onesignal.com/docs/external-user-ids".](https://documentation.onesignal.com/docs/external-user-ids)

All other event and user properties can be set using [Data](#) [Tags.](#) 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 [HYPERLINK](#)

["https://documentation.onesignal.com/docs/import-emailaddresses"Import](https://documentation.onesignal.com/docs/import-emailaddresses) HYPERLINK

["https://documentation.onesignal.com/docs/importemail-addresses"](https://documentation.onesignal.com/docs/importemail-addresses) HYPERLINK

["https://documentation.onesignal.com/docs/import-emailaddresses"Email](https://documentation.onesignal.com/docs/import-emailaddresses) HYPERLINK

["https://documentation.onesignal.com/docs/import-emailaddresses" HYPERLINK](https://documentation.onesignal.com/docs/import-emailaddresses)

["https://documentation.onesignal.com/docs/import-emailaddresses"Addresses](https://documentation.onesignal.com/docs/import-emailaddresses) HYPERLINK

["https://documentation.onesignal.com/docs/import-emailaddresses" guide.](https://documentation.onesignal.com/docs/import-emailaddresses)

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.

Demo Paid Org ✎ › All DEMO Testing ✎ › Settings

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