



# Red Hat 3scale API Management 2.2

## Billing

How to integrate with our payment partners and start invoicing your customers today.



## Red Hat 3scale API Management 2.2 Billing

---

How to integrate with our payment partners and start invoicing your customers today.

## Legal Notice

Copyright © 2019 Red Hat, Inc.

The text of and illustrations in this document are licensed by Red Hat under a Creative Commons Attribution–Share Alike 3.0 Unported license ("CC-BY-SA"). An explanation of CC-BY-SA is available at

<http://creativecommons.org/licenses/by-sa/3.0/>

. In accordance with CC-BY-SA, if you distribute this document or an adaptation of it, you must provide the URL for the original version.

Red Hat, as the licensor of this document, waives the right to enforce, and agrees not to assert, Section 4d of CC-BY-SA to the fullest extent permitted by applicable law.

Red Hat, Red Hat Enterprise Linux, the Shadowman logo, JBoss, OpenShift, Fedora, the Infinity logo, and RHCE are trademarks of Red Hat, Inc., registered in the United States and other countries.

Linux ® is the registered trademark of Linus Torvalds in the United States and other countries.

Java ® is a registered trademark of Oracle and/or its affiliates.

XFS ® is a trademark of Silicon Graphics International Corp. or its subsidiaries in the United States and/or other countries.

MySQL ® is a registered trademark of MySQL AB in the United States, the European Union and other countries.

Node.js ® is an official trademark of Joyent. Red Hat Software Collections is not formally related to or endorsed by the official Joyent Node.js open source or commercial project.

The OpenStack ® Word Mark and OpenStack logo are either registered trademarks/service marks or trademarks/service marks of the OpenStack Foundation, in the United States and other countries and are used with the OpenStack Foundation's permission. We are not affiliated with, endorsed or sponsored by the OpenStack Foundation, or the OpenStack community.

All other trademarks are the property of their respective owners.

## Abstract

This guide documents billing management with Red Hat 3scale API Management 2.2.

---

## Table of Contents

<b>1. CONFIGURE BILLING</b> .....	<b>2</b>
<b>2. ADDING VAT RATE ON BILLING</b> .....	<b>2</b>
<b>3. ADYEN INTEGRATION</b> .....	<b>3</b>
3.1. Prerequisites	4
3.2. Steps to configure Adyen integration	4
<b>4. BRAINTREE INTEGRATION</b> .....	<b>8</b>
4.1. Step 1: Get your API keys from Braintree	8
4.2. Step 2: Configure your settings in 3scale	10
4.2.1. Note	12
4.2.2. Troubleshooting	12
<b>5. CREDIT CARD FLOW</b> .....	<b>12</b>
5.1. Prerequisites	12
5.2. Step 1: Hide certain menu items when credit card details are missing	12
5.2.1. Editing users_menu partial	13
5.2.2. Editing submenu partial	13
5.3. Step 2: Enable Feature	15
5.4. Step 4: Ensure credit card is entered by developer when upgrading from a free to a paid plan	15
5.4.1. Editing applications/show Template	16
5.4.2. Editing applications/form partial	16
<b>6. STRIPE INTEGRATION (RECOMMENDED)</b> .....	<b>16</b>
6.1. Prerequisites	16
6.2. Step 1: Get your API keys from Stripe	16
6.3. Configure settings in 3scale	17
6.3.1. Note	20

## 1. CONFIGURE BILLING

In this tutorial you'll learn how the 3scale billing system works and how to set it up.

When setting up your billing configuration, you can choose between Prepaid and Postpaid.

- **Prepaid mode:** In prepaid mode, all fixed fees and setup fees are billed immediately at the beginning of the month or at the beginning of any pro-rated billing period. Variable costs are always calculated at the end of the month.
- **Postpaid mode:** In postpaid mode, all fixed fees as well as variable fees are billed at the end of the month.

Here is a visual example of billing for the [prepaid mode](#) and for the [postpaid mode](#).

To do so, go to **Settings > Billing**

**3scale** Dashboard Developers Applications **Billing** Analytics APIs Developer Portal **Settings**

General Developer Portal Legal Terms **Billing** Policies Fields Definitions Web Hooks Emails

### Finance Settings

Mode: **POSTPAID** [Switch to PREPAID](#)

In postpaid mode, all fixed fees as well as variable fees are billed at the end of the month.

**Charging enabled**  
Enables credit card transactions. When this setting is on, all due invoices will be charged using the selected payment gateway. If you leave this setting off, billing will take place and invoices will issued, but no real transaction will take place.

**Currency\*** USD - American Dollar

Please make sure that the selected currency is supported by your payment gateway. If you are missing currency options, don't hesitate to contact us.

**Invoice footnote**

**Text to show if VAT/Sales Tax is 0%**

**Billing periods for invoice ids\*** monthly

[Save](#)

All paid plans are charged monthly.

## 2. ADDING VAT RATE ON BILLING

API providers who charge their customers for using their API service often need to charge the tax as well. This article will explain how 3scale billing system supports VAT.

If you have Billing feature enabled, the steps to add VAT rates are as follows:

1. From the Admin Portal go to >Settings>Field-Definitions
2. Then in the "Account" object click "Create" on the right hand side to add a field
3. From the "new field" drop down select "vat\_rate"

General Developer Portal Legal Terms Billing Policies **Fields Definitions** Web Hooks Emails

### New Field definition for Account

Here you can add a field to store information about your partners and make it Hidden, Read Only, Required, or provide a different label. The label is the text your partners will see when viewing or entering their data.

[new field]  
 org\_legaladdress  
 org\_legaladdress\_cont  
 telephone\_number  
 vat\_code  
 **vat\_rate**  
 fiscal\_code  
 state\_region  
 city  
 country  
 zip  
 primary\_business  
 business\_category  
 po\_number  
 billing\_address  
 new only

Label:

Type:

Required:  Partners will see.

Read Only:  Partners will see.

Hidden:  Partners will see.

Choices:

Separate the predefined options for this field by commas or enter each option on a new line.

[Create](#)

Either you can allow developers to set their own VAT rate, or alternatively you can set the VAT rate for them. If you choose the latter you have the following options:

- From your admin portal, going to a given account and editing the VAT field

Accounts Subscriptions Messages Forum

Accounts > Account '3scale' > 2 Applications | 1 User | 0 Invitations | 0 Group Memberships | 1 Invoice | 2 Service Subscriptions

### Edit account 3scale details

Contact Details

Organization/Group Name:

vat:

[Update Account](#)

- From the Account Management API, using the Account Update endpoint. If you want to update several accounts you will have to get them first using the Account List endpoint and then iterate over them updating the field. This could be combined into an automated flow using Webhooks to trigger your update requests when the Account is created or modified.

VAT rate will be calculated and reflected in invoices.

## 3. ADYEN INTEGRATION

After completing these steps, you will have configured Adyen as a payment gateway for your account. This will allow your developers to enter their credit card details, and you can automatically charge them through Adyen for access to your API, according to the calculated invoices.

Setting up your payment gateway is a key step enabling credit card charging for use of your paid API. There are a number of alternative payment gateways you can use with your 3scale account. Here we cover the steps for Adyen.

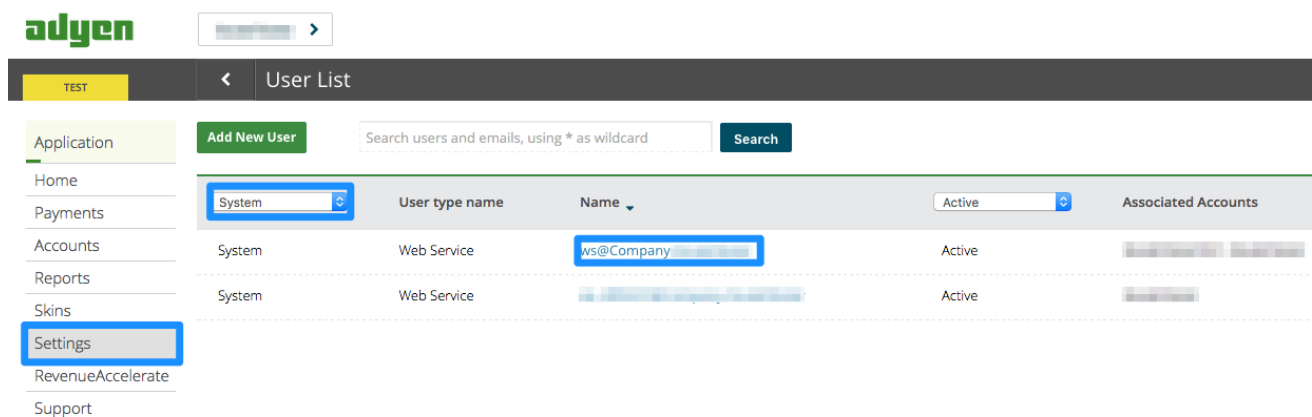
### 3.1. Prerequisites

- Before you start these steps, you will need to open an account with [Adyen](#).
- You need a *Company* account and a *Merchant* account within it (sub-account).
- There are a number of requirements that must be fulfilled before you can apply for a live account with Adyen. You can see what those requirements are [here](#).
- The account should be in production mode.

### 3.2. Steps to configure Adyen integration

#### Find the information in your Adyen account

1. To begin, log into your Adyen account. Then find your credentials in the **Settings > Users** area, and select *System* from the dropdown menu in the following view:



The screenshot shows the Adyen user management interface. The left sidebar has 'Settings' highlighted. The main area is titled 'User List' and contains a search bar and a table of users. The table has columns for 'Application', 'User type name', 'Name', and 'Active'. The 'System' application is selected in a dropdown menu, and the 'ws@Company' user is highlighted in the table.

Application	User type name	Name	Active	Associated Accounts
System	Web Service	ws@Company	Active	
System	Web Service		Active	

2. Click on the *Company* account (the account at the top of the list). You will then be taken to the *Company* account settings view:



The screenshot displays the 'Edit Web Service User' interface in the Adyen Admin Console. The page is organized into several panels:

- User Account Details:** Contains fields for 'User Name', 'Last Password Change' (2016-05-05 15:39:51 CEST), 'Password', and 'Retype Password'. It includes buttons for 'Generate Password' and 'Generate POS Password', and a 'Client Certificate (DN)' field.
- Easy Encryption:** Features a 'Public Key' section with a 'Client Encryption Public Key' field and a preformatted code snippet. Below it is the 'Hosted Client Side Encryption' section, which includes a 'Library Version' dropdown (set to 'Always latest version') and a 'Library location' field. A notification indicates that the V0\_1\_X CSE library is available, running library version 0\_1\_17.
- Roles and Associated Accounts:** Shows a search bar for 'associate accounts' and a list of roles and accounts. The '3scaleTester Comp...' role is associated with the 'MerchantAccount' account, both with toggle switches turned on. A 'Save' button is located at the bottom.
- Edit Allowed User IP Range:** Includes an 'Add IP address' field (0.0.0.1), an 'Allow' dropdown (32 (this IP address only)), and an 'Allow' button. A note states 'No allowed IP address ranges configured'.

3. Finally you have access to the **Login**, **Secret Password**, **Client Encryption Public Key**, **Merchant ID**, and **Library location** that you will need for the 3scale billing settings.
4. To view the **Public Key**, you must click on *Generate Password* and copy this password somewhere.



TEST

Edit Web Service User

- Application
- Home
- Payments
- Accounts
- Reports
- Skins
- Settings
- RevenueAccelerate
- Support

## User Account Details

User Name

Last Password Change 2016-05-05 15:39:51 CEST

Password

Retype Password

Client Certificate (DN)

All these switches should be enabled by default but if, for some reason they are not you should enable at least these 3 for successful integration

## Roles and Associated Accounts

API Clientside Encryption Payments role	<input checked="" type="checkbox"/>
iDeal Recurring	<input type="checkbox"/>
Merchant PAL Webservice role	<input checked="" type="checkbox"/>
Merchant Recurring role	<input checked="" type="checkbox"/>

## Easy Encryption

Client Encryption Public Key

Preformatted for direct insertion in your code:

Hosted Client Side Encryption

Library Version

(changes will be applied after you click save)

## Edit Allowed User IP Range

Add IP address

Allow

No allowed IP address ranges configured

## Configure your payment gateway in your 3scale account

In **Audience > Billing > Charging & Gateway**, enable charging by checking the box and click **Save**. You will see all the fields that you need to setup to create the link to your Adyen gateway. Remember to select Adyen from the gateway dropdown menu and save changes.



### Finance Settings

 Mode: PREPAID [Switch to POSTPAID](#)

In prepaid mode, all fixed fees and setup fees are billed immediately at the beginning of the month or at the beginning of any pro-rated billing period. Variable costs are always calculated at the end of the month.

#### Charging enabled

Enables credit card transactions. When this setting is on, all due invoices will be charged using the selected payment gateway. If you leave this setting off, billing will take place and invoices will be issued, but no real transaction will take place.

#### Currency\*

USD - American Dollar

Please make sure that the selected currency is supported by your payment gateway. If you are missing currency options, don't hesitate to contact us.

#### Invoice footnote

#### Text to show if VAT/Sales Tax is 0%

#### Billing periods for invoice ids\*

monthly

Save

### Credit card gateway

Select your credit card gateway and configure it with the details of your merchant account.

#### Basics

##### Gateway

Adyen

#### Adyen Options

##### Login

##### Secret Password

##### Client Encryption Public Key

##### Merchant ID

##### Library location

Save changes

## Enable the *alias* additional data in the Adyen API response

By default when credit card authorization requests are sent from 3scale to Adyen, the returned response does not include the unique identifier of the credit card.

To ensure that the correct credit card reference is saved in 3scale and the correct card is charged, this additional data needs to be enabled.

Contact Adyen support to enable the *alias* additional data in the response for the authorization request.

### Test your billing workflow

1. Make sure you accelerate the test cycle by enabling *Prepaid Mode* to generate the charge within a day or so.
2. Then choose an existing test account and create an invoice with a line item charge added.
  - a. Charge the account immediately.

- b. This testing approach will incur some minor costs, but it is worth it for the peace of mind that everything works fine, before you have real paying developers using your API.

The payment gateway is now set up, but your users might not be able to use it yet since it is not configured in the CMS. Go to the developer portal tab, and find the template called **Payment Gateway / Show** on the left navigation pane.

If it is not there already, add the following snippet after the block of code beginning with `{% when "stripe" %}`

```
{% when "adyen12" %}
{% if current_account.has_billing_address? %}
  {% adyen12_form %}
{% else %}
  <p><a href="{{ current_account.edit_adyen12_billing_address_url }}">First add a billing address</a></p>
{% endif %}
```



#### NOTE

- In order to map your data from Adyen with your data on 3scale, you can use the Adyen field called **shopperReference** which is composed of **3scale-[PROVIDER\_ID] - [DEVELOPER\_ACCOUNT\_ID]**

## 4. BRAINTREE INTEGRATION

These are the steps to set up the Braintree gateway in order to to charge for use of your API.

### 4.1. Step 1: Get your API keys from Braintree

You'll need to open an account with [Braintree](#). You need a Gateway and Merchant account plus Vault. As an optional extra, you can choose to allow American Express cards as a payment method.

To begin, log in to your Braintree account. Then find your API keys in the **Account > MyUser** area:

Braintree Welcome back [redacted] to the [redacted] Control Panel Basic Search Search Account Logout

Search Transactions Vault Recurring Billing

### Edit User test\_3scale

**User Details**

Name [redacted]  
Email [redacted]

**Change Password (Optional)**

Current Password [redacted]  
New Password [redacted]  
Confirm New Password [redacted]

**Authorization**

**API Keys**

**Notifications**

Email Daily Settlement Batch Summary

Save Cancel

Questions? Shoot us an email at [support@braintreepayments.com](mailto:support@braintreepayments.com) or call us at 877.434.2894. ©2011-2012 Braintree Payments Solutions, LLC. All rights reserved.

The API keys page still hides the private key, so select the option to view it:

Braintree Welcome back [redacted] to the [redacted] Control Panel Basic Search Search Account Logout

Search Transactions Vault Recurring Billing

### API Keys

Public Key	Private Key	Last Used On	Actions
[redacted]	[redacted] <b>View</b>	[redacted]	[redacted]

Merchant ID [redacted]  
Environment sandbox

Generate New

Questions? Shoot us an email at [support@braintreepayments.com](mailto:support@braintreepayments.com) or call us at 877.434.2894. ©2011-2012 Braintree Payments Solutions, LLC. All rights reserved.

Finally you have the Public Key, Private Key, and Merchant ID that you'll need for the 3scale billing settings:

Brain**tree** Welcome back [redacted] to the [redacted] Control Panel Basic Search Search Account Logout

Search Transactions Vault Recurring Billing

### Client Library Key

Public Key [redacted] Private Key [redacted] Environment sandbox Merchant ID [redacted]

#### Usage

Client Library	Last Used On
Braintree Ruby Gem 2.10.3	[redacted]
Braintree Ruby Gem 2.10.2	[redacted]
Transparent Redirect	[redacted]

This will copy a snippet of code to your clipboard that will use these API keys to connect to Braintree in your language of choice. For more information about integrating your application with the Braintree gateway, view our [API documentation](#).

Java Copy

## 4.2. Step 2: Configure your settings in 3scale

You need to tell 3scale to start using these API keys. To do this, log in to your 3scale Admin Portal and go to **Settings > Billing**.

3scale Dashboard Developers Applications Billing Analytics APIs Developer Portal Settings

General Developer Portal Legal Terms Billing Policies Fields Definitions Web Hooks Emails

### Finance Settings

Mode: **POSTPAID** [Switch to PREPAID](#)

In postpaid mode, all fixed fees as well as variable fees are billed at the end of the month.

**Charging enabled**  
Enables credit card transactions. When this setting is on, all due invoices will be charged using the selected payment gateway. If you leave this setting off, billing will take place and invoices will issued, but no real transaction will take place.

**Currency\*** USD - American Dollar

Please make sure that the selected currency is supported by your payment gateway. If you are missing currency options, don't hesitate to contact us.

**Invoice footnote**

**Text to show if VAT/Sales Tax is 0%**

**Billing periods for invoice ids\*** monthly

Save

If the Charging Enabled flag is not active, enable it and click Save.

3scale Dashboard Developers Applications Billing Analytics APIs Developer Portal Settings

General Developer Portal Legal Terms Billing Policies Fields Definitions Web Hooks Emails

### Finance Settings

Mode: **POSTPAID** [Switch to PREPAID](#)

In postpaid mode, all fixed fees as well as variable fees are billed at the end of the month.

**Charging enabled**

Enables credit card transactions. When this setting is on, all due invoices will be charged using the selected payment gateway. If you leave this setting off, billing will take place and invoices will issued, but no real transaction will take place.

Currency\*

Please make sure that the selected currency is supported by your payment gateway. If you are missing currency options, don't hesitate to contact us.

Invoice footnote

Text to show if VAT/Sales Tax is 0%

Billing periods for invoice ids\*

[Save](#)

You should see a drop-down called Gateway near the bottom of the page. Change it to Braintree (Blue Platform).

### Credit card gateway

Select your credit card gateway and configure it with the details of your merchant account.

Basics

Gateway

- ✓ Choose one
- Authorize.Net
- Braintree (Blue Platform)**
- Ogone
- Stripe

[Save changes](#)

The form below the drop-down should change to show two fields. Insert your Braintree keys and click Save.

## Credit card gateway


Select your credit card gateway and configure it with the details of your merchant account.

**Basics**

Gateway Braintree (Blue Platform) ▾

---

**Braintree (Blue Platform) Options**

Public Key		
Merchant ID		
Private Key		

Save changes

You might see a couple of alerts when you change your payment gateway. This is expected. Read and accept them if they appear.

Your users should now be able to pay you using the Braintree gateway.

### 4.2.1. Note

In order to map your data from Braintree with your data on 3scale, you can use the Braintree field called **customer.id** which is composed of **3scale-[PROVIDER\_ID]-[DEVELOPER\_ACCOUNT\_ID]**

### 4.2.2. Troubleshooting

In case your account is in the sandbox mode and you encounter any problems, you will have to change it to production.

## 5. CREDIT CARD FLOW

This guide will help you define a great workflow in your Developer Portal to ensure that developers submit their credit card details before they gain access to your paid API(s).

It's increasingly common to see businesses charge for access to their APIs. Sometimes the entire business model of a company is built around paid APIs, while other times it's an important revenue stream to cover costs or generate profits for the company.

### 5.1. Prerequisites

- 3scale finance module (billing and charging) activated and configured
- Paid plans defined (usually application plans)

After following the steps detailed below, all the existing developers who have paid plans but no credit card details entered, will be redirected to the credit card details form. They will not be allowed to access the portal until they have successfully entered their credit card details.

### 5.2. Step 1: Hide certain menu items when credit card details are missing

When a developer signs up to a paid plan and is required to fill in the credit card details, it is recommended to hide some menu items since it will not be possible to navigate there until the credit card is entered. In order to do so, you will need to change the following 2 menu partials:



- users\_menu
- submenu

### 5.2.1. Editing users\_menu partial

You will need to replace the whole of the partial content with the below:

```
<ul class="nav nav-tabs">
  {% unless current_account.requires_credit_card_now? %}
    <li class="{% if urls.account_overview.active? %}active{% endif %}">
      <a href="{{ urls.account_overview }}">Account Details</a>
    </li>

    {% if provider.account_management_enabled? %}
      {% include 'menu_item' with urls.users %}

      {% if provider.multiple_users_allowed? %}
        {% include 'menu_item' with urls.invitations %}
      {% endif %}
    {% endif %}

    {% if provider.account_plans.size > 1 %}
      {% include 'menu_item' with urls.account_plans %}
    {% endif %}
  {% endunless %}

  {% if provider.finance_allowed? %}
    {% unless current_account.requires_credit_card_now? %}
      {% include 'menu_item' with urls.invoices %}
    {% endunless %}

    {% if urls.payment_details %}
      {% include 'menu_item' with urls.payment_details %}
    {% endif %}
  {% endif %}
</ul>
```

If you have customised this partial already, e.g by adding some css, modifying the HTML tags, etc... you should use the new liquid tag for this purpose accordingly:

```
current_account.requires_credit_card_now?
```

### 5.2.2. Editing submenu partial

The developer gains access to their keys to start making calls on your API through the API credentials. The changes below ensure that you only display the links if the account does not require credit card details to be entered e.g because there are no paid plans or if the credit card is already available. If you wanted to be completely strict about this, you would edit the system page for displaying the keys to restrict the display – but this would be an advanced customization. You may also want to delete the snippet to display credentials directly on the home page after login.

You will need to replace the whole of the partial content with the below:

```
{% if current_user %}
```

```

    {% unless current_account.requires_credit_card_now? %}
    <ul class="nav navbar-nav">

      {% if provider.multiple_applications_allowed? %}
      <li class="{% if urls.applications.active? %}active{% endif
%}">
        <a href="{ { urls.applications } }">{{
urls.applications.title }}</a>
      </li>
      {% elsif current_account.applications.first == present%}
      {% assign app = current_account.applications.first %}
      <li class="{% if app.url.active? %}active{% endif %}">
        <a href="{ { app.url } }">API Credentials</a>
      </li>
      {% elsif current_user.can.create_application? %}
      <li class="{% if url.new_application.active? %}active{% endif
%}">
        <a href="{ { urls.new_application } }">Get API Credentials</a>
      </li>
      {% else %}
      <!-- You don't have any application neither can create one.
Bad luck. -->
      {% endif %}

      {% assign live_apps_present = current_account.applications |
map: 'state' | any: 'live' %}
      {% if live_apps_present %}
      <li class="{% if urls.stats.active? %}active{% endif %}">
        <a href="{ { urls.stats } }">Statistics</a>
      </li>
      {% endif %}

      {% if provider.multiple_services_allowed? %}
      <li class="{% if urls.services.active? %}active{% endif %}">
        <a href="{ { urls.services } }">{{ urls.services.title }}</a>
      </li>
      {% endif %}

      <li><a class="{% if urls.docs.active? %}active{% endif %}"
href="/docs">Documentation</a></li>

    </ul>
    {% endunless %}
    <ul id="user_widget" class="nav navbar-nav navbar-right">
      {% unless current_account.requires_credit_card_now? %}
      <li class="{% if urls.messages_inbox.active? %}active{% endif
%}">
        <a href="{ { urls.messages_inbox } }">
          Messages
          {% if current_account.unread_messages.size > 0 %}
          {{ current_account.unread_messages.size }}
          {% endif %}
        </a>
      </li>
      <li class="{% if urls.account_overview.active? %}active{% endif
%}">

```

```

        <a href="{{ urls.account_overview }}">
            Settings
        </a>
    </li>
{% endunless %}
<li>
    <a id="sign-out-button" class="pull-right sign-out"
title="Logout {{ current_user.username }}" href="{{ urls.logout }}">

    </a>
</li>
</ul>

{% else %}
<ul class="nav navbar-nav">
    <li><a href="/docs">Documentation</a></li>
    <li><a href="/#plans">Plans</a></li>
</ul>
<ul class="nav navbar-nav navbar-right">
    <li>
        <a href="{{ urls.login }}">
            Sign in
        </a>
    </li>
</ul>
{% endif %}

```

Again, if you have customised this partial already, you will need to modify your version accordingly using the same new liquid tag: `current_account.requires_credit_card_now?`

### 5.3. Step 2: Enable Feature

To enable this feature, you must enable the following 2 switches:

Switches can be found in *Developer portal > Feature visibility*.

- Finance
- Credit Card on Signup (only available if you are on an older 3scale account.)

### 5.4. Step 4: Ensure credit card is entered by developer when upgrading from a free to a paid plan

You may allow developers to select plans when changing plans. The ideal setting is Request credit card entry for paid plans. This will ensure that if a paid plan is selected, the plan change can only be done instantly if a credit card is stored. Otherwise a notification is displayed to point the developer to the location to enter their card details.

This setting is defined from the Admin Portal. Go to **API > Service > Settings > Application Plan Changing**. Here you can select the option Request credit card entry for paid plans.

To enable this behaviour, you will need to make changes to the following CMS pages:

- applications/show template

- applications/form partial

### 5.4.1. Editing applications/show Template

You will need to look for `plan_widget` in the page code and change it to the following:

```
{% plan_widget application, wizard: true %}
```

If you have added the `plan_widget` in any other pages, you will need to update those to match the above snippet.

### 5.4.2. Editing applications/form partial

Follow the same instructions above to change any instances of `plan_widget` in the applications/form partial to conform to the new snippet.

And that's it! You can now enforce the addition of credit card details before allowing usage of your API for paid plans.

## 6. STRIPE INTEGRATION (RECOMMENDED)

After completing these steps you will have configured Stripe as a payment gateway for your account. This will allow your developers to enter their credit card details, and you can automatically charge them through Stripe for access to your API, according to the calculated invoices.

If you enable credit card charging for your paid API, then one key step is to setup your [payment gateway](#). There are a number of alternative payment gateways which you can use with your 3scale account. Here we cover the steps for Stripe.

### 6.1. Prerequisites

Before you start these steps, you will need to open an account with [Stripe](#).

### 6.2. Step 1: Get your API keys from Stripe

Log in to your Stripe account, and get your API keys at <https://dashboard.stripe.com/account/apikeys>. You will need two keys: a "secret" one, and a "publishable" one. Use the "test" set when you're doing tests and the "live" ones when you are ready to start charging.

General Team **API Keys** Subscriptions Transfers Webhooks Connect Relay Data Emails

API version: No [version](#) yet — it'll be set when you start using the API.

Test Secret Key:

Test Publishable Key:

Live Secret Key:

Live Publishable Key:

[Learn more about API authentication](#) [Done](#)

### 6.3. Configure settings in 3scale

You need to tell 3scale to start using these API keys. To do this, log in to your 3scale admin portal and go to **Settings > Billing**



## Finance Settings

Mode: **POSTPAID** [Switch to PREPAID](#)

In postpaid mode, all fixed fees as well as variable fees are billed at the end of the month.

### Charging enabled

Enables credit card transactions. When this setting is on, all due invoices will be charged using the selected payment gateway. If you leave this setting off, billing will take place and invoices will issued, but no real transaction will take place.

### Currency\*

USD - American Dollar

Please make sure that the selected currency is supported by your payment gateway. If you are missing currency options, don't hesitate to contact us.

### Invoice footnote

### Text to show if VAT/Sales Tax is 0%

### Billing periods for invoice ids\*

monthly

**Save**

If the Charging Enabled flag is not active, enable it and click Save.



## Finance Settings

 Mode: **POSTPAID** [Switch to PREPAID](#)

In postpaid mode, all fixed fees as well as variable fees are billed at the end of the month.

 **Charging enabled**

Enables credit card transactions. When this setting is on, all due invoices will be charged using the selected payment gateway. If you leave this setting off, billing will take place and invoices will issued, but no real transaction will take place.

 Currency\* USD - American Dollar

Please make sure that the selected currency is supported by your payment gateway. If you are missing currency options, don't hesitate to contact us.

Invoice footnote

Text to show if VAT/Sales Tax is 0%

 Billing periods for invoice ids\* monthly

Save

You should see a drop-down called Gateway near the bottom of the page. Change it to Stripe.

## Credit card gateway

Select your credit card gateway and configure it with the details of your merchant account.

Basics

**Gateway**

- ✓ Choose one
- Authorize.Net
- Braintree (Blue Platform)
- Ogone
- Stripe**

Save changes

The form below the drop-down should change to show two fields. Insert your Stripe API keys and click Save.

## Credit card gateway

Select your credit card gateway and configure it with the details of your merchant account.

**Basics**

Gateway

---

**Stripe Options**

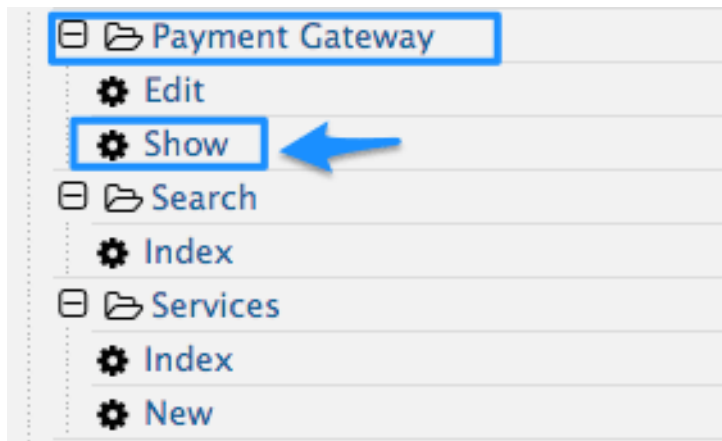
Secret Key

Publishable Key

[Save changes](#)

You might see a couple of alerts when you change your payment gateway. This is expected. Read them and accept them if they appear.

The payment gateway is now set up, but your users might not be able to use it yet since it's not configured in the CMS. Go to Developer portal, and click on the template called Payment Gateway / Show on the left navigation pane.



If it's not there already, add the following code before `{% when "braintree_blue" %}`:

```
{% when "stripe" %}
<p><a href="{{ current_account.edit_stripe_billing_address_url }}">Edit
billing address</a></p>

{% if current_account.has_billing_address? %}
  {% stripe_form "Edit Credit Card Details" %}
{% else %}
  <p>After entering billing address, the option to enter credit card will
be enabled.</p>
{% endif %}
```

Finally click Save and Publish. Your users should now be able to pay you using the Stripe gateway.

### 6.3.1. Note

In order to map your data from Stripe with your data on 3scale, you can use the Stripe field called `metadata.3scale_account_reference` which is composed of `3scale-[PROVIDER_ID]-[DEVELOPER_ACCOUNT_ID]`



