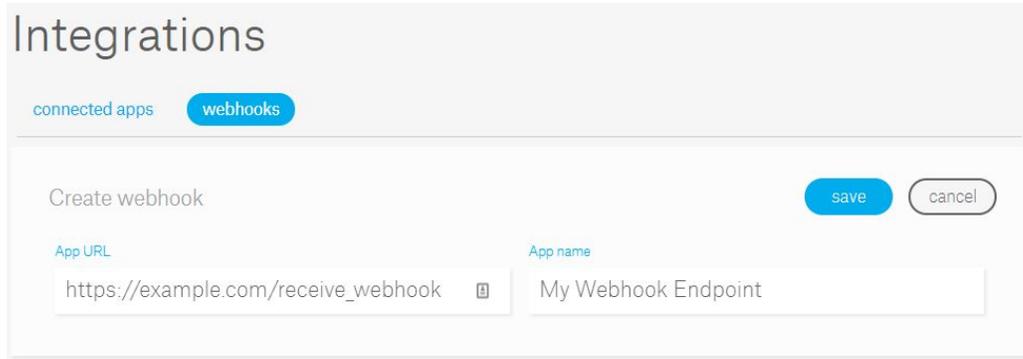


1Centre Webhook Documentation

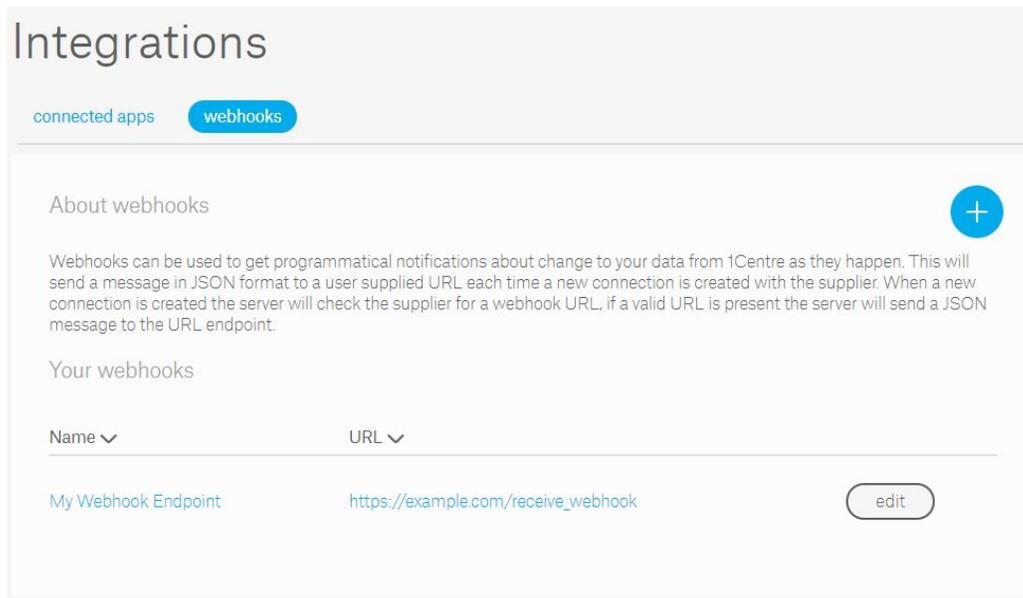
Receiving and parsing webhook from 1Centre

1. Create a custom *POST* endpoint in your application. Take note of the *URL* and use this when creating a Webhook.



The screenshot shows the 'Integrations' page with the 'webhooks' tab selected. Under the heading 'Create webhook', there are two input fields: 'App URL' containing 'https://example.com/receive_webhook' and 'App name' containing 'My Webhook Endpoint'. To the right of these fields are 'save' and 'cancel' buttons.

2. A *Signing Secret* will be generated when a Webhook is created. Use this secret key later on in your application to validate messages. You can view the Signing Secret by clicking the *“edit”* button from the webhook list.



The screenshot shows the 'Integrations' page with the 'webhooks' tab selected. It includes an 'About webhooks' section with a plus icon and a paragraph explaining webhooks. Below this is a table titled 'Your webhooks' with the following content:

Name	URL	
My Webhook Endpoint	https://example.com/receive_webhook	edit

In the Edit webhook page, hit “*click to reveal secret*” button to view the whole Signing Secret.

Integrations

connected apps webhooks

Update webhook update back remove

App URL

App name

Signing secret

click to reveal secret send a test message

3. In your application’s endpoint, do the following:
 - a. grab the following data from the request:
 - i. `Header['X-Hook-Signature']` - unique secret key to validate the authenticity of the message
 - ii. Raw Post Data - contains the JSON data from 1Centre
 - b. Generate a signature by using SHA1 encoded HMAC based from Signing Secret and Raw Post Data.
 - c. Validate `Header['X-Hook-Signature']` (3.a.i) by matching it with your generated signature (3.b). Note: Validation is an optional step however to ensure security, do this step and do not proceed if signatures do not match
 - d. Parse and consume the JSON data from 1Centre
4. In 1Centre Webhook edit page, click “*send a test message*” button to test your endpoints

Example using Ruby on Rails:

1. Domain: `https://example.com`
POST Endpoint: `receive_webhook`
URL: `https://example.com/receive_webhook`
2. Routes and Controllers

```
# routes.rb
Rails.application.routes.draw do
  # Your other routes
  post 'receive_webhook' => 'receive_webhook#create'

  # Your other routes
end

# receive_webhook_controller.rb
class ReceiveWebhookController < ActionController::Base
  def create
    # Do awesome code here
  end
end
```

3. Get request signature and post data. Validate request and consume JSON data

```
# receive_webhook_controller.rb
class ReceiveWebhookController < ActionController::Base
  def create
    request_signature = request.headers['X-Hook-Signature']
    application_body = request.raw_post
    generated_signature = generate_signature(application_body)

    if signatures_match?(request_signature, generated_signature)
      data = JSON.parse(application_body)
      # Do something with the data
      # i.e. data['company_name'] to get the Company Name
    else
      # Do not proceed
    end
  end

  def generate_signature(application_body)
    secret = 'secret_key' # This is the Signing Secret from 1Centre Webhook
    OpenSSL::HMAC.hexdigest(OpenSSL::Digest.new('sha1'), secret,
application_body)
  end

  def signatures_match?(request_signature, generated_signature)
    request_signature == generated_signature
  end
end
```