## Introduction

This goal of this workshop is to allow developers to gain some general familiarity with the 3Scale API Management System. During the session, participants will touch on the many functional areas that comprise 3Scale including the creation of an API Service definition, Application Plans, Metrics, Developer Portal and more.

*This is not intended to be a training course.

This workshop assumes the participants are using the 3Scale On Line Free Trial. Use the link below and follow the instructions provided.

Free Trial Online: http://www.3scale.net/signup

If the workshop is using an on premise installation, your instructor will provide you with additional information regarding links, user id's and passwords.

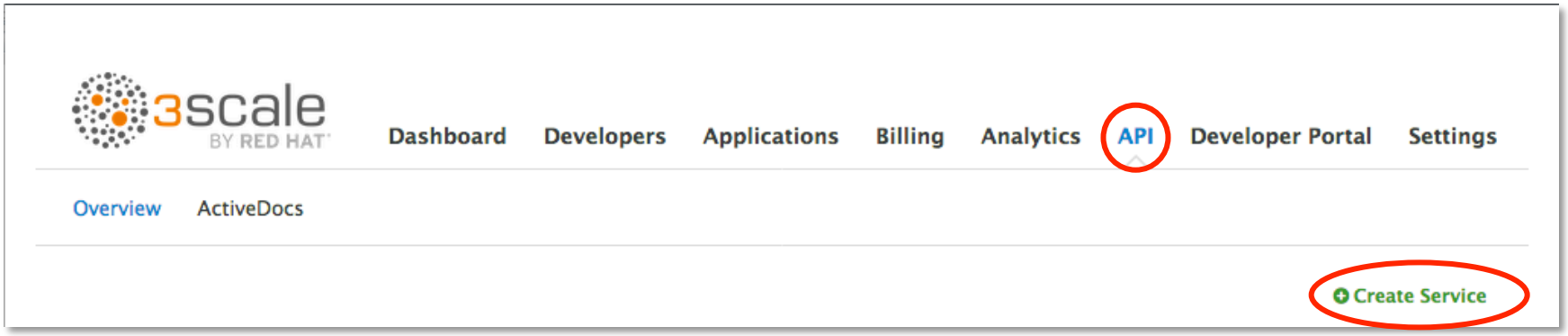
During the workshop you will:

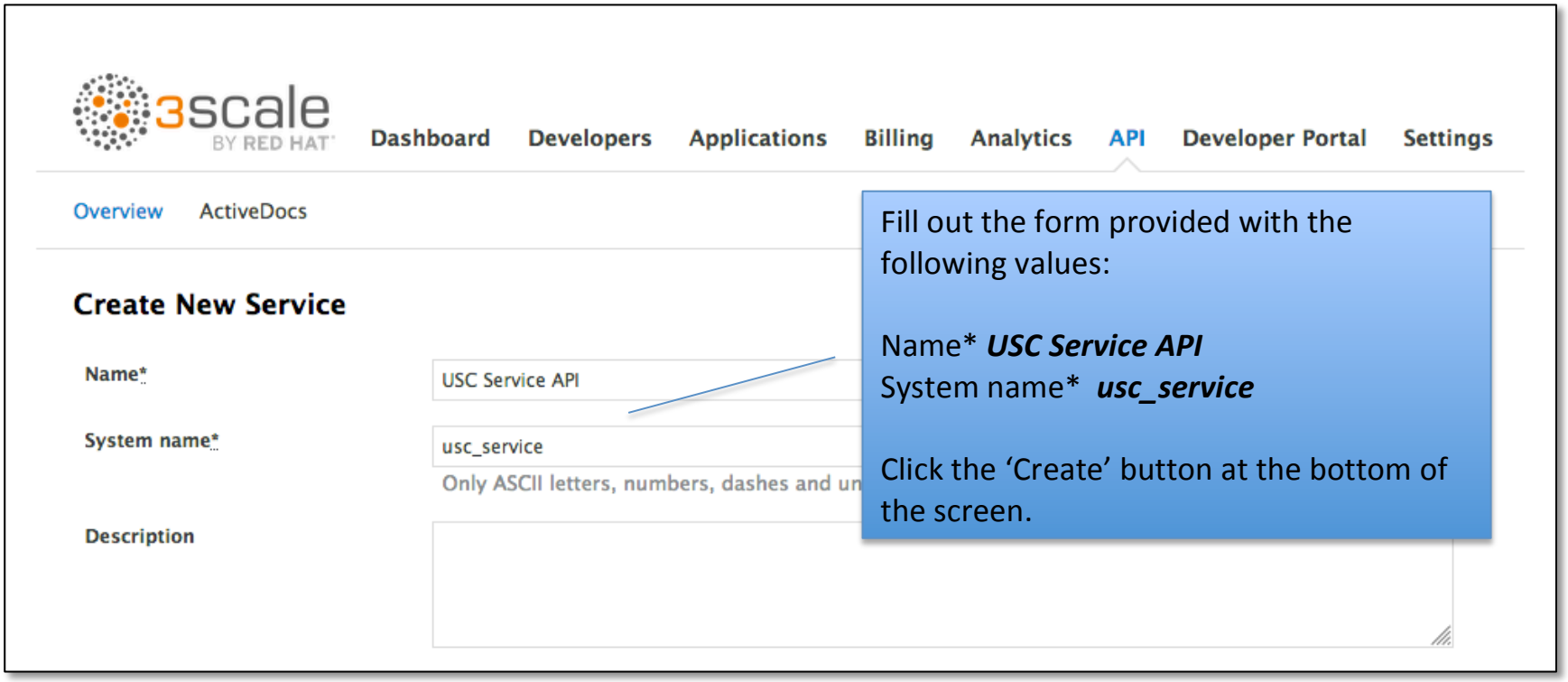
1. Define and configure a new API Service and Application
2. Create an API user
3. Create an Application Plan with policies
4. Create Mapping Rules
5. Import a SWAGGER doc
6. Modify the Developer Portal

Have Fun!

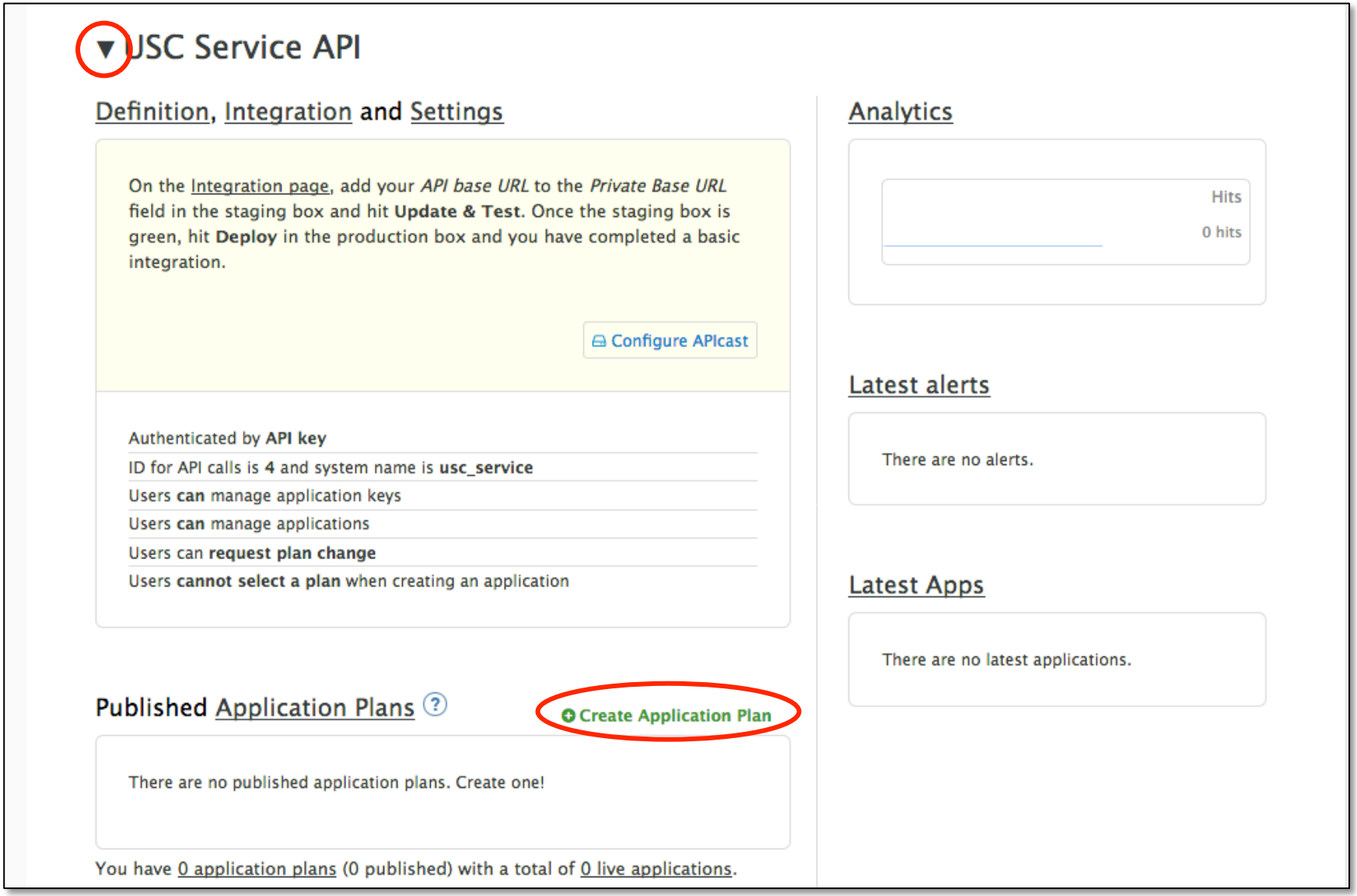
## Create a new API Service

From the main screen click the ‘API’ link and then the ‘Create Service’ link.

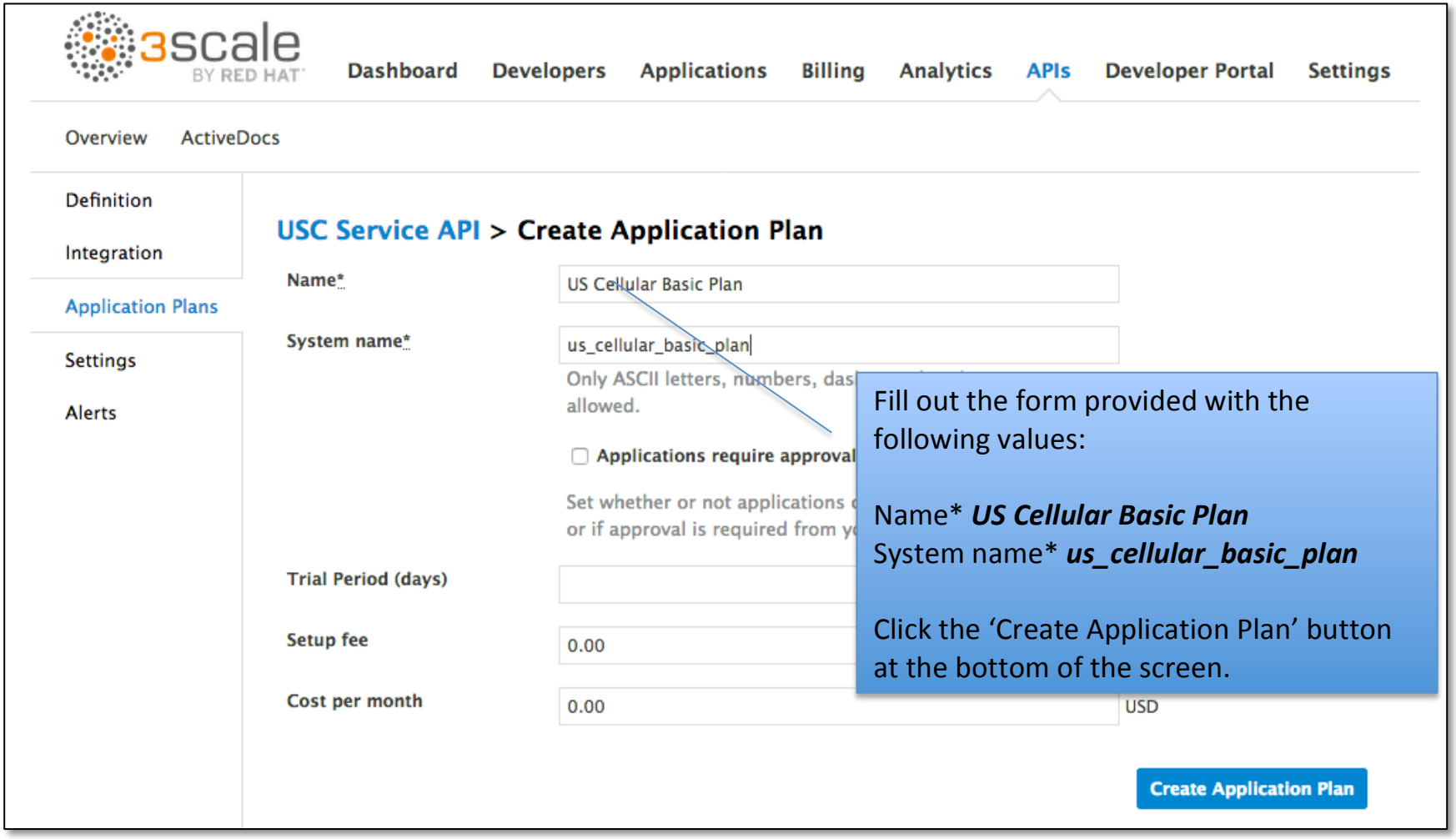



3scale
BY RED HAT
Dashboard
Developers
Applications
Billing
Analytics
API
Developer Portal
Settings
Overview
ActiveDocs
Create New Service
Name*
USC Service API
System name*
usc_service
Only ASCII letters, numbers, dashes and un
Description
Fill out the form provided with the following values:
Name* USC Service API
System name* usc_service
Click the 'Create' button at the bottom of the screen.

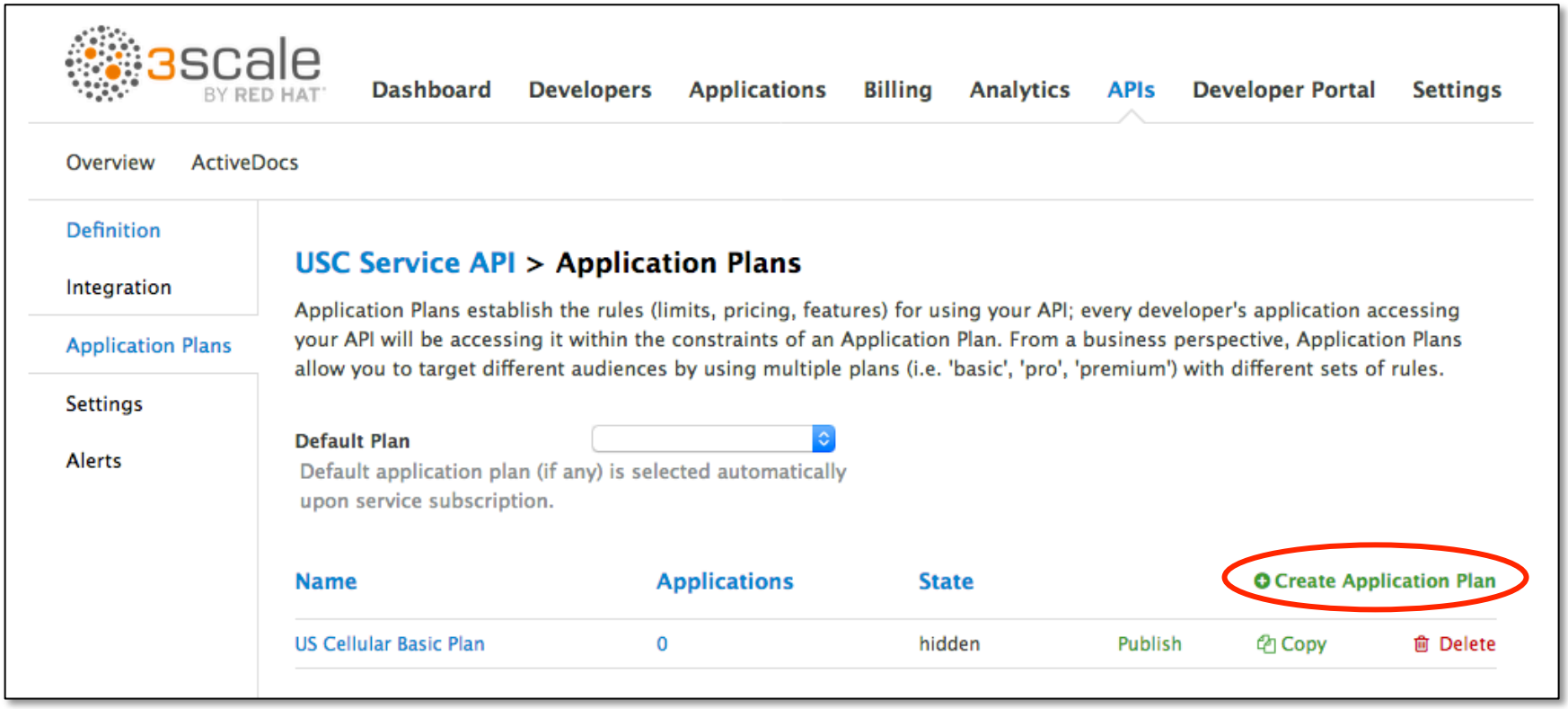
## Create Application Plan(s)



## Create the Basic Plan

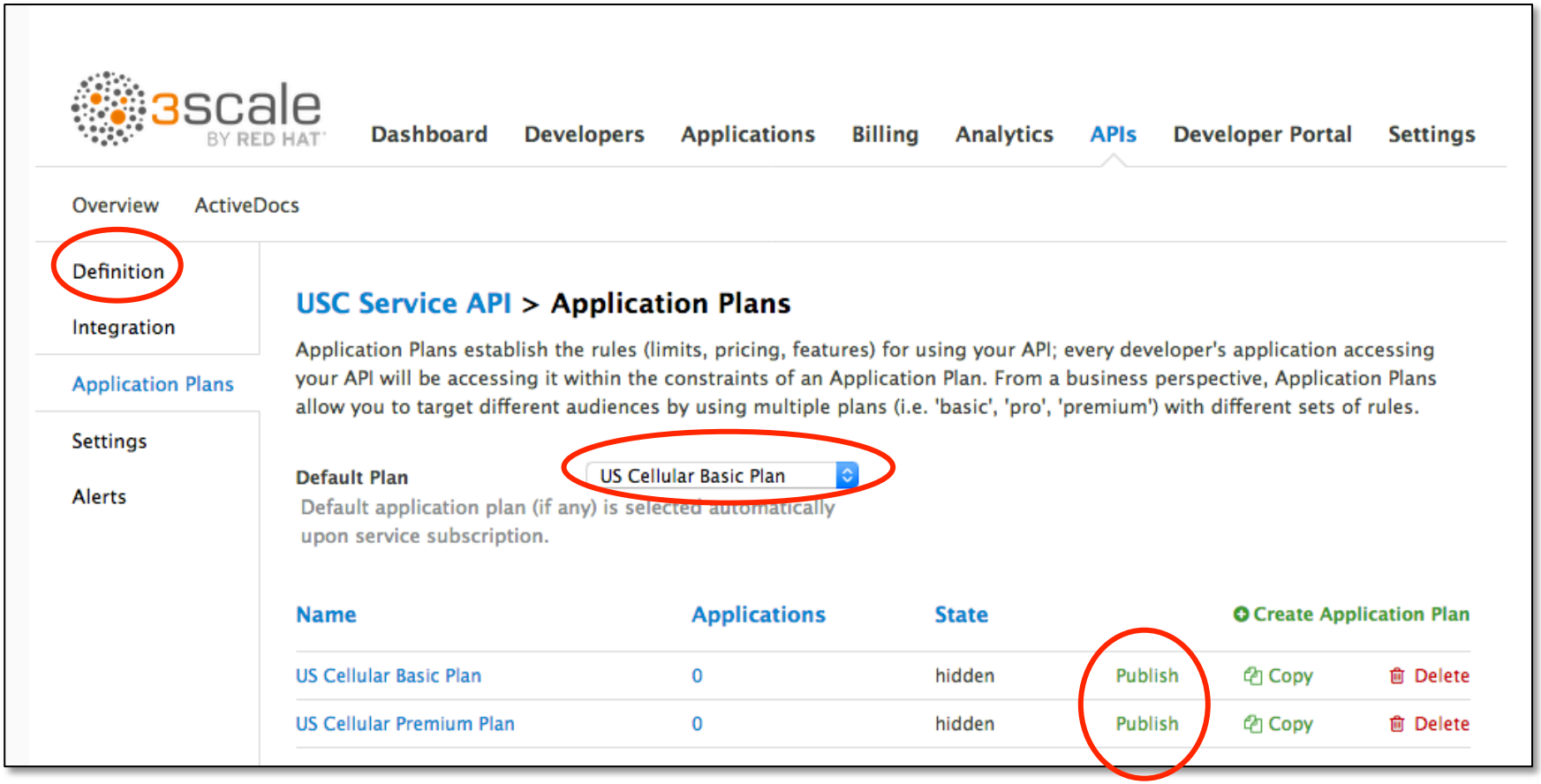


## Create the Premium Plan



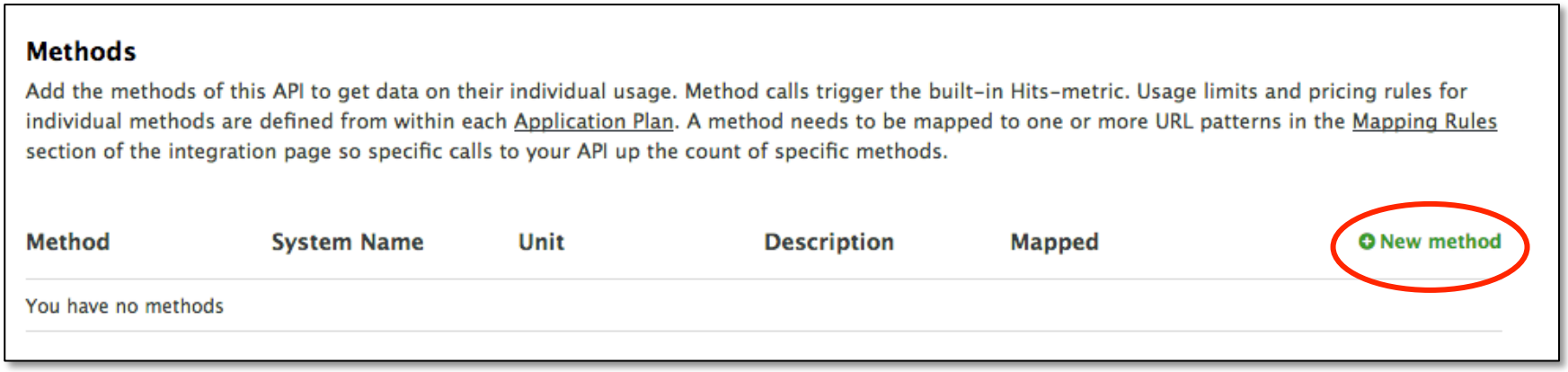

Click the link shown above to add another application plan. Use the values as shown below:
Name* **US Cellular Premium Plan**
System Name* **us_cellular_premium_plan**

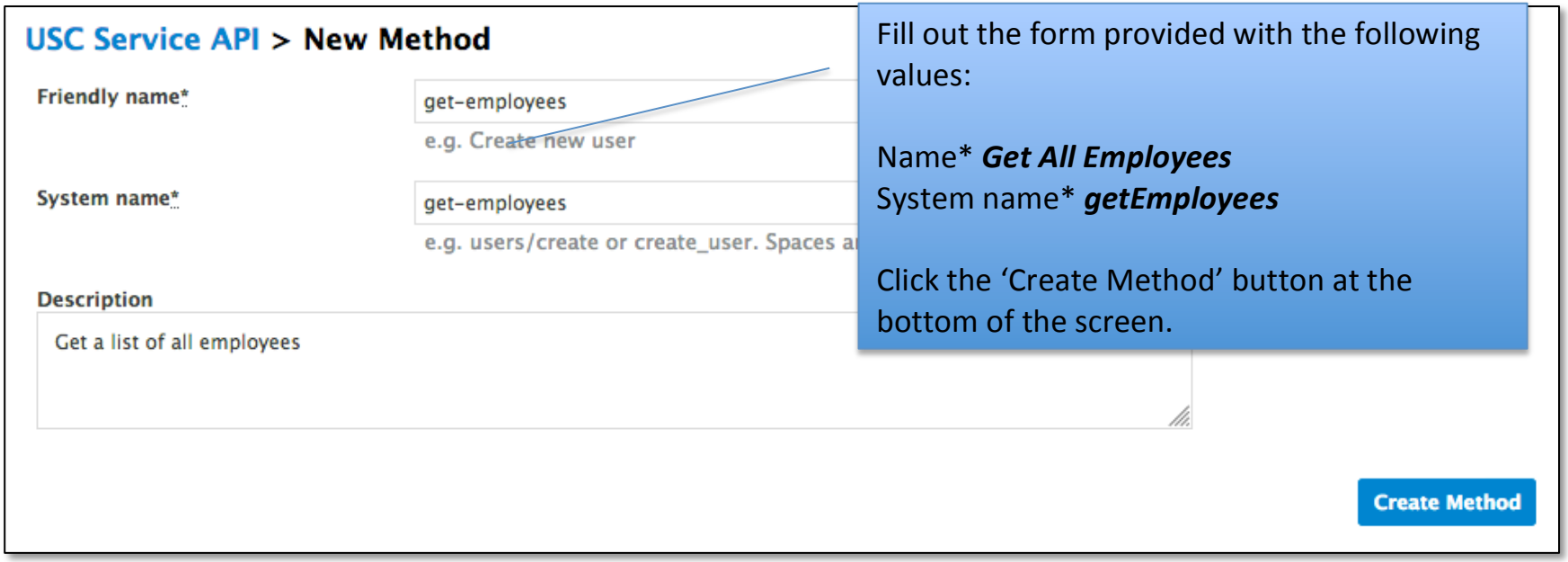
## Choose Default and Publish




1. Select '**US Cellular Basic Plan**' as your Default Plan
2. Click the '**Publish**' link for each plan
3. Click the '**Definition**' link to view Methods and Metrics.

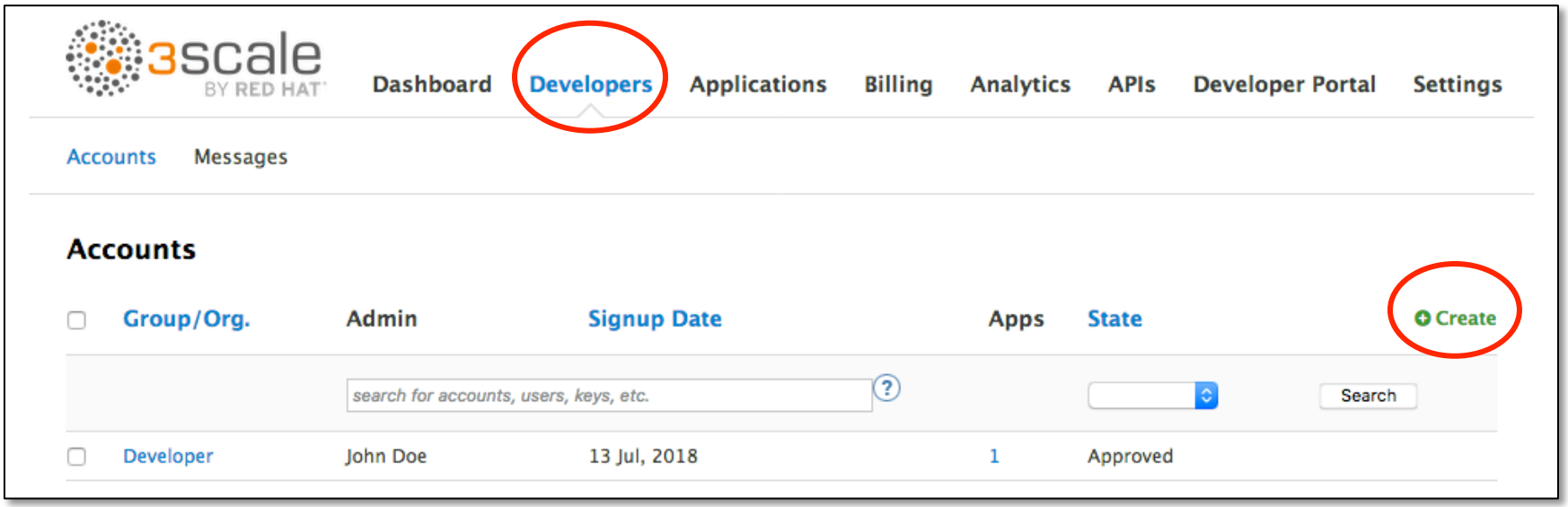
## Methods and Metrics




Repeat the process above and add a new method with the values:
Friendly name* **Get Employee by ID**
System name* **getEmployeeByID**

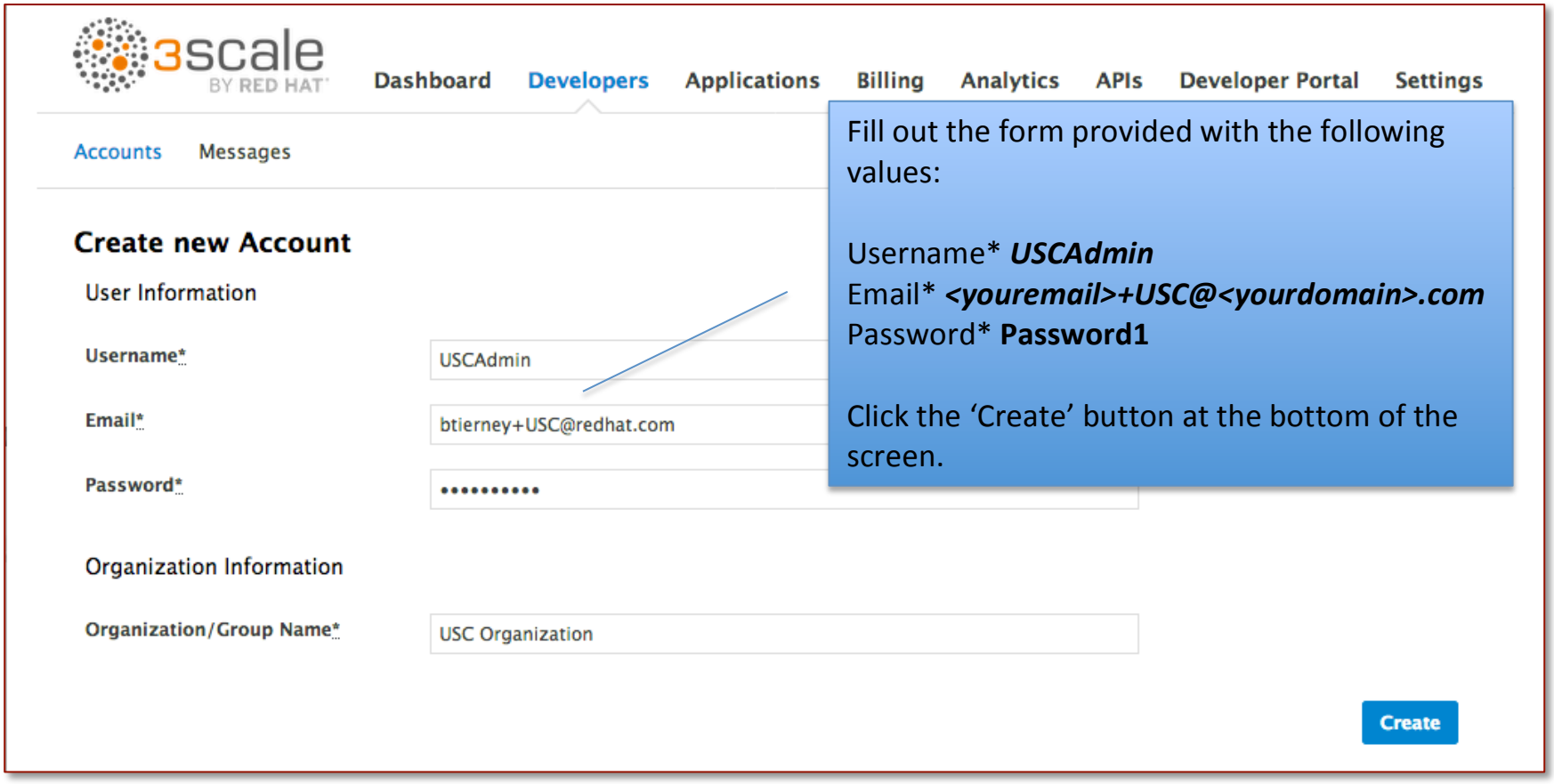
## Create a Developer Account



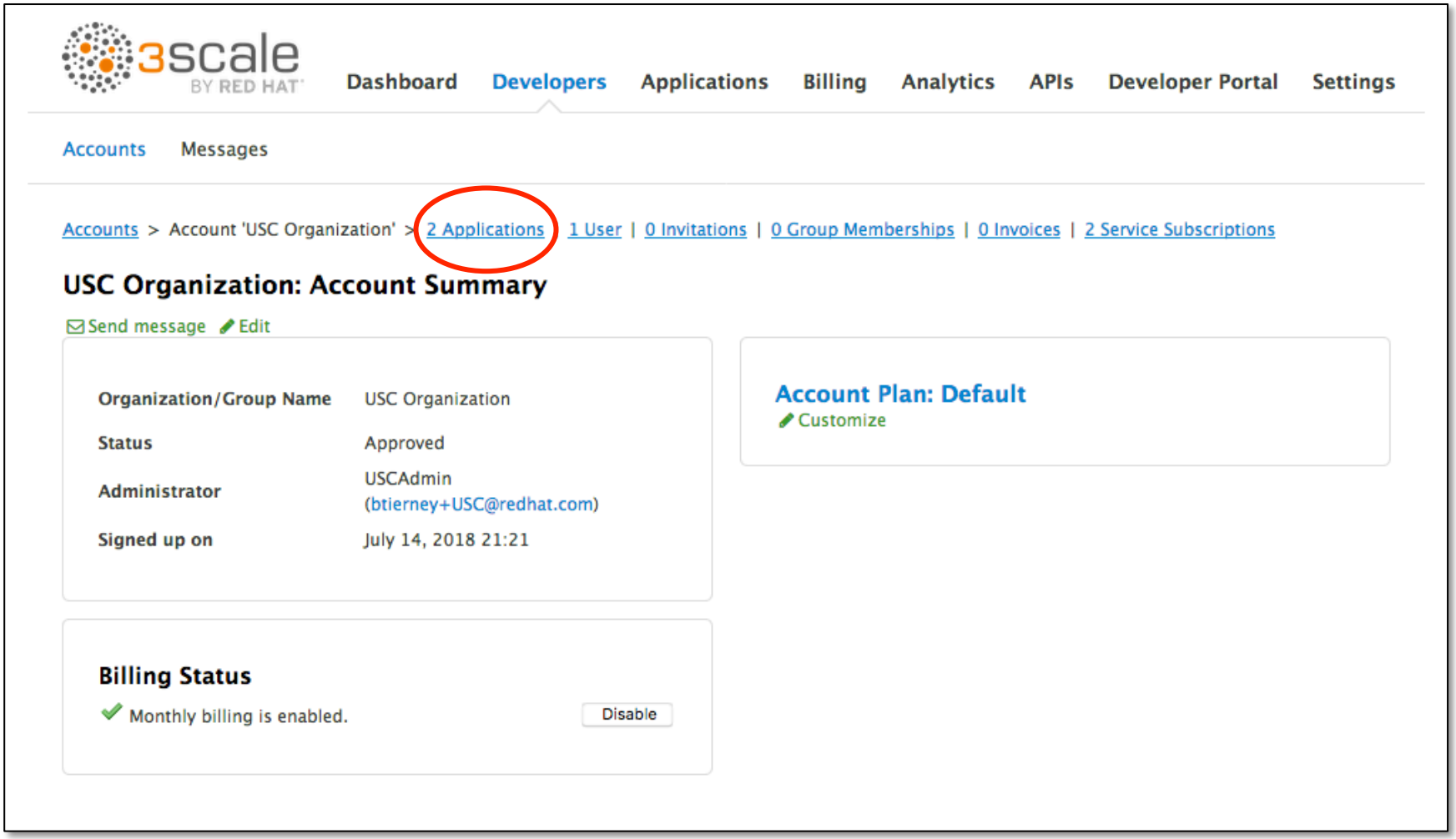

From the top menu, click on the ‘Developers’ link. Notice that there is a default account already setup for you. We’re going to add a new account and associate it with our new Service API.

Click on the ‘Create’ link toward the lower right side of the page.

## Fill out Developer Form

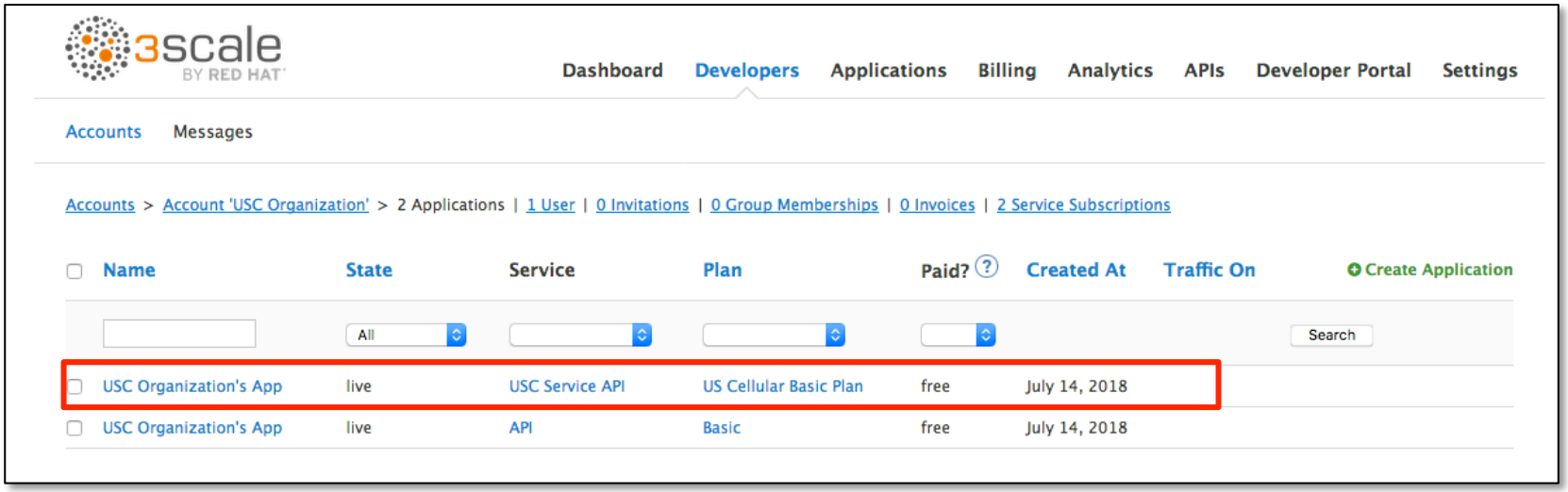


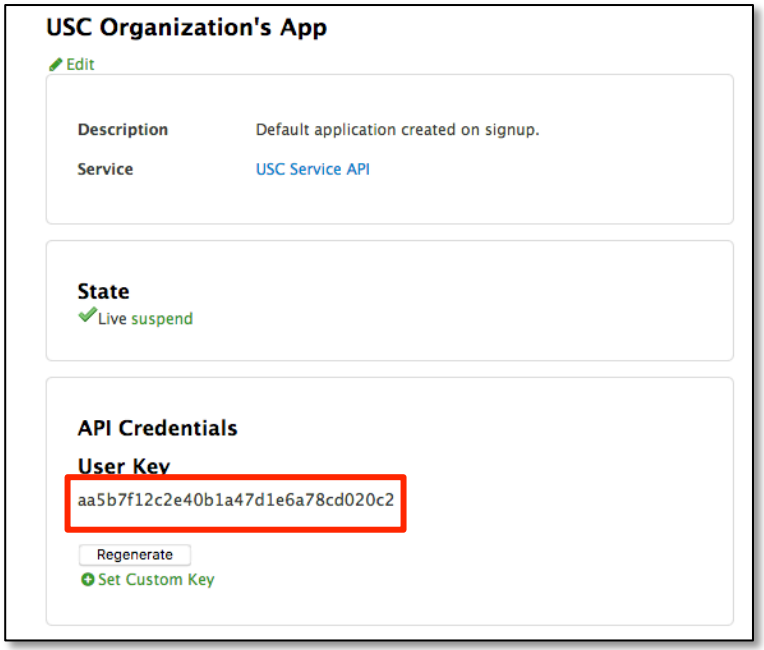
## Developer Detail Screen




Click on the link shown about. The value (1,2 ..) may vary.

## View User Key



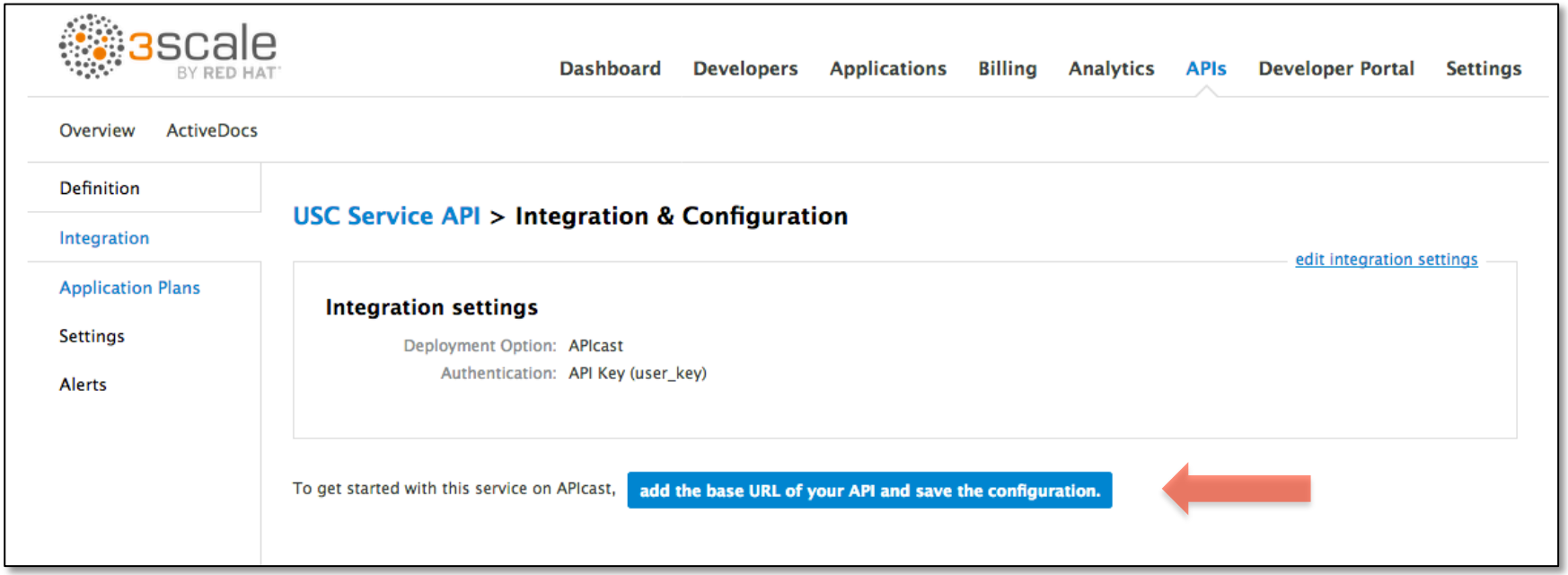



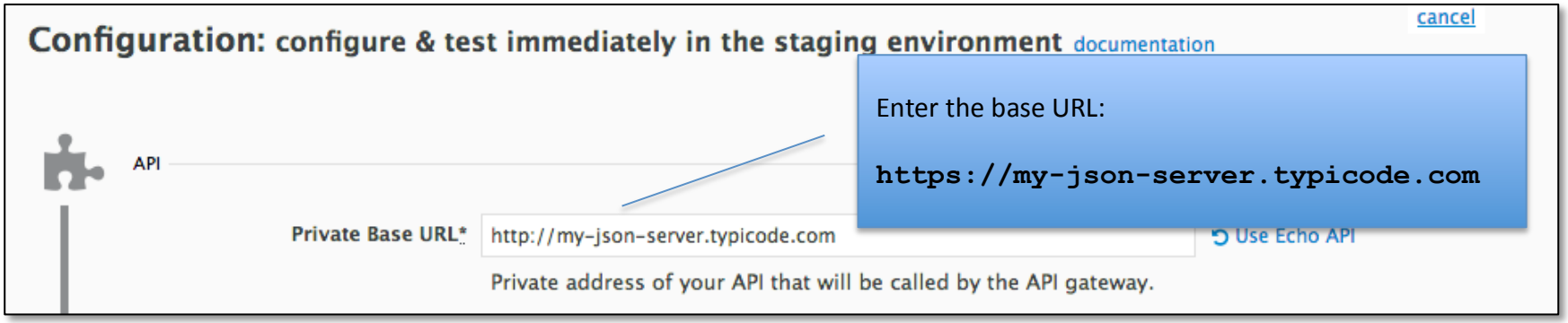

Click the '**USC Organization's App**' link. Be sure to choose the one with the US Cellular Basic Plan as highlighted in the image above.

You will be presented with some details information including the API Credentials '**User Key**'. This is shown on the image to the left.

At this point click the '**APIs**' link at the top of the page, and then click the '**Integration'** link under the '**USC Service API'**.

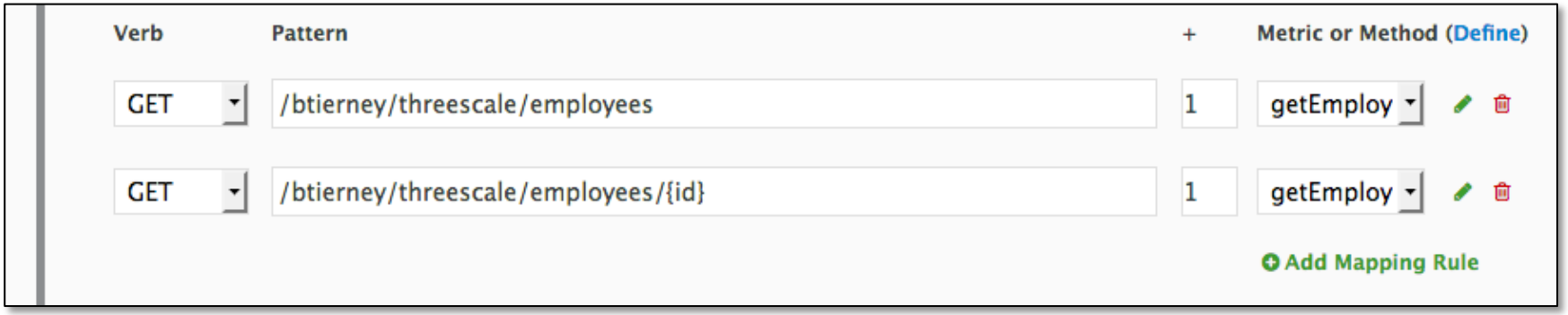
## Integration and Configuration



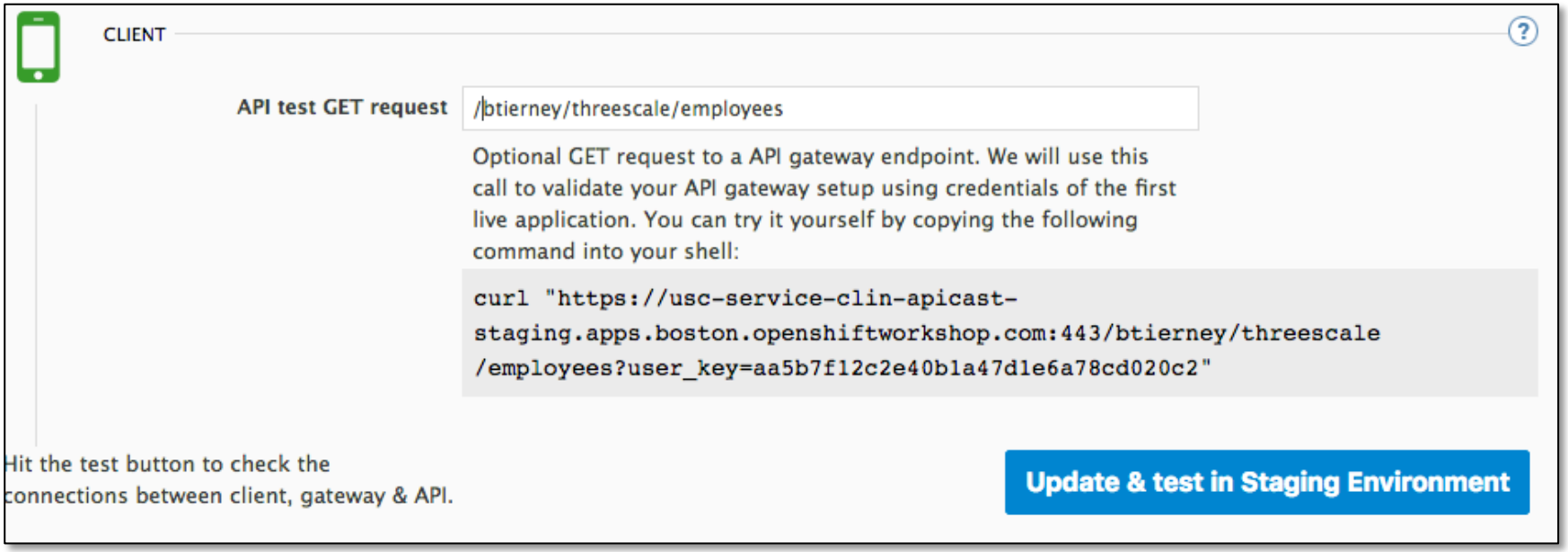



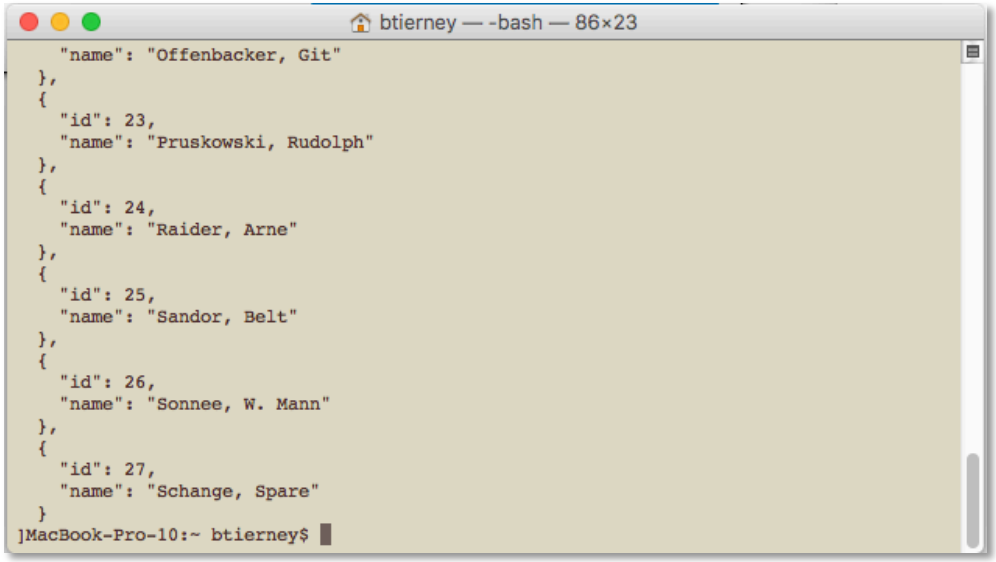
## Integration and Configuration (cont'd)

1. Click the pencil icon on the right to enable editing
2. Enter the URL pattern employees: **`/btierney/threescale/employees`**
3. Select the drop down and apply the '**getEmployees**' mapping rule
4. Click the 'Add Mapping Rule' link adding the rule for '**getEmployeeByID**'
   Using this pattern: **`/btierney/threescale/employees/{id}`**



## Integration and Configuration (cont'd)



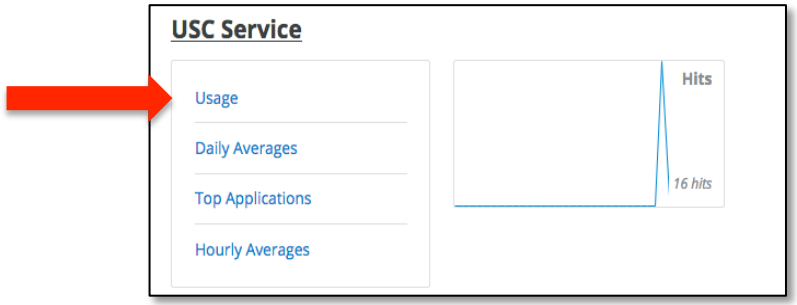




Click the '**Update & test in Staging Environment**' link above

You should notice that the bold line on the left turns green indicating that the configuration is valid and working.

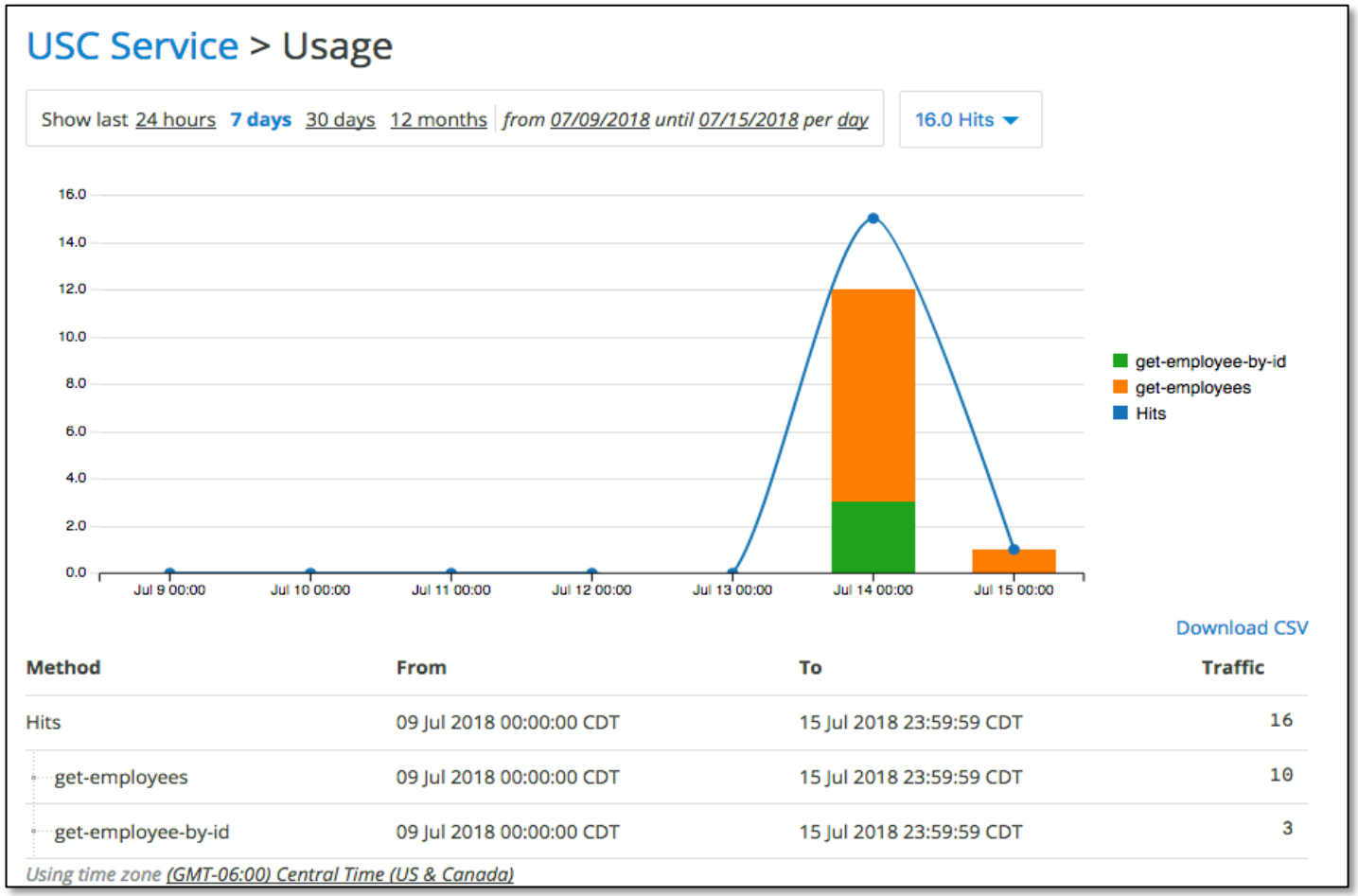
Open up a console window. Copy & paste the provided CURL statement into the command line and hit enter. You should see the employee list.

## Analytics

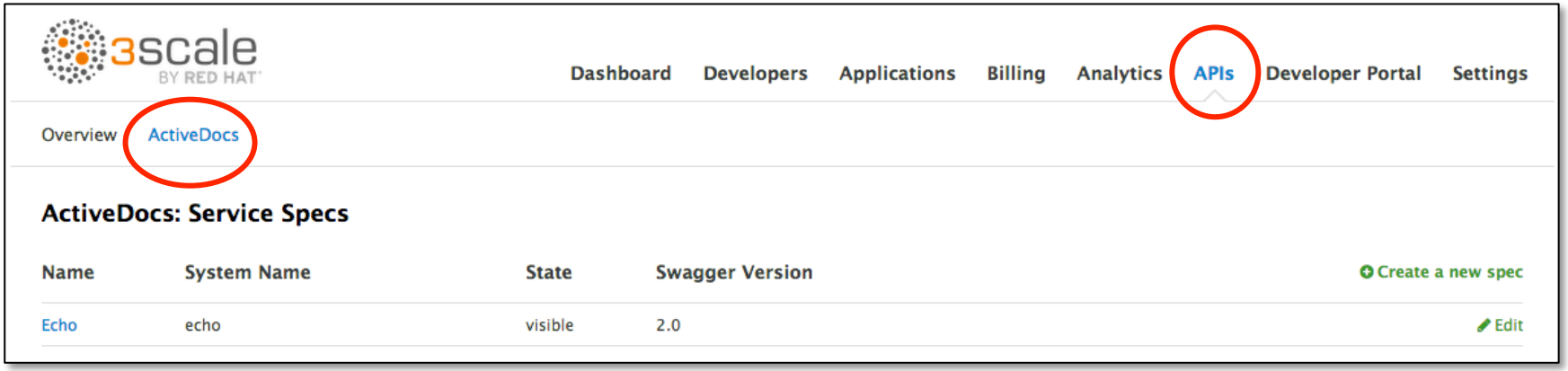



Click the '**Analytics**' link at the top of the screen. Then locate the **USC Service** and select the '**Usage'** link underneath.

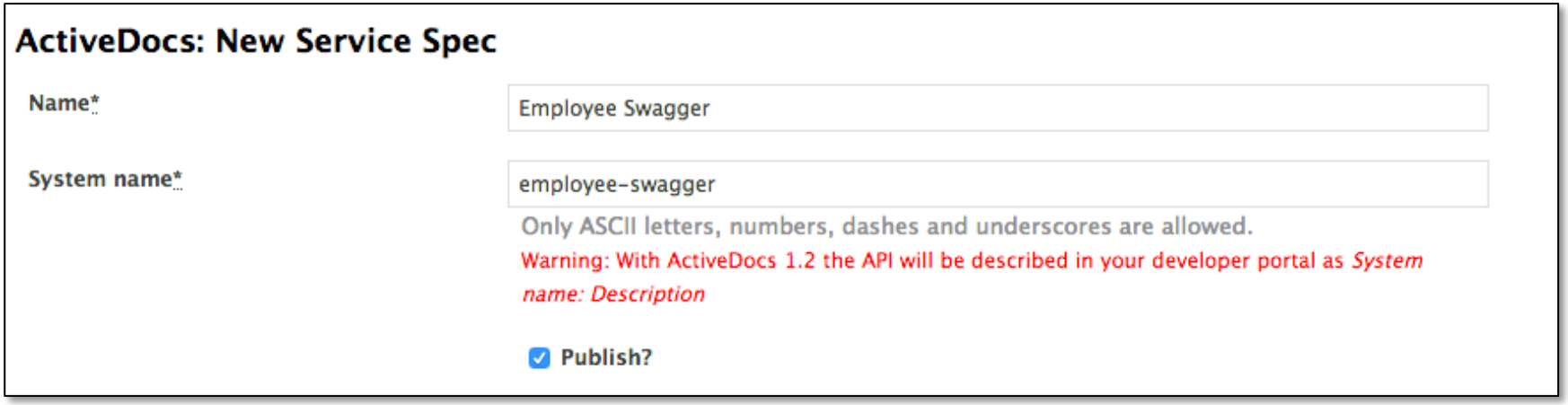
The resulting page will display charting and data on the service usage broken down by the methods/metrics we defined earlier.



## Import Swagger Docs




1. Click on the 'APIs' link on the top of the page
2. Click on the 'ActiveDocs' link under the 3Scale icon
3. Click on the 'Create a new spec' link at the right of the page



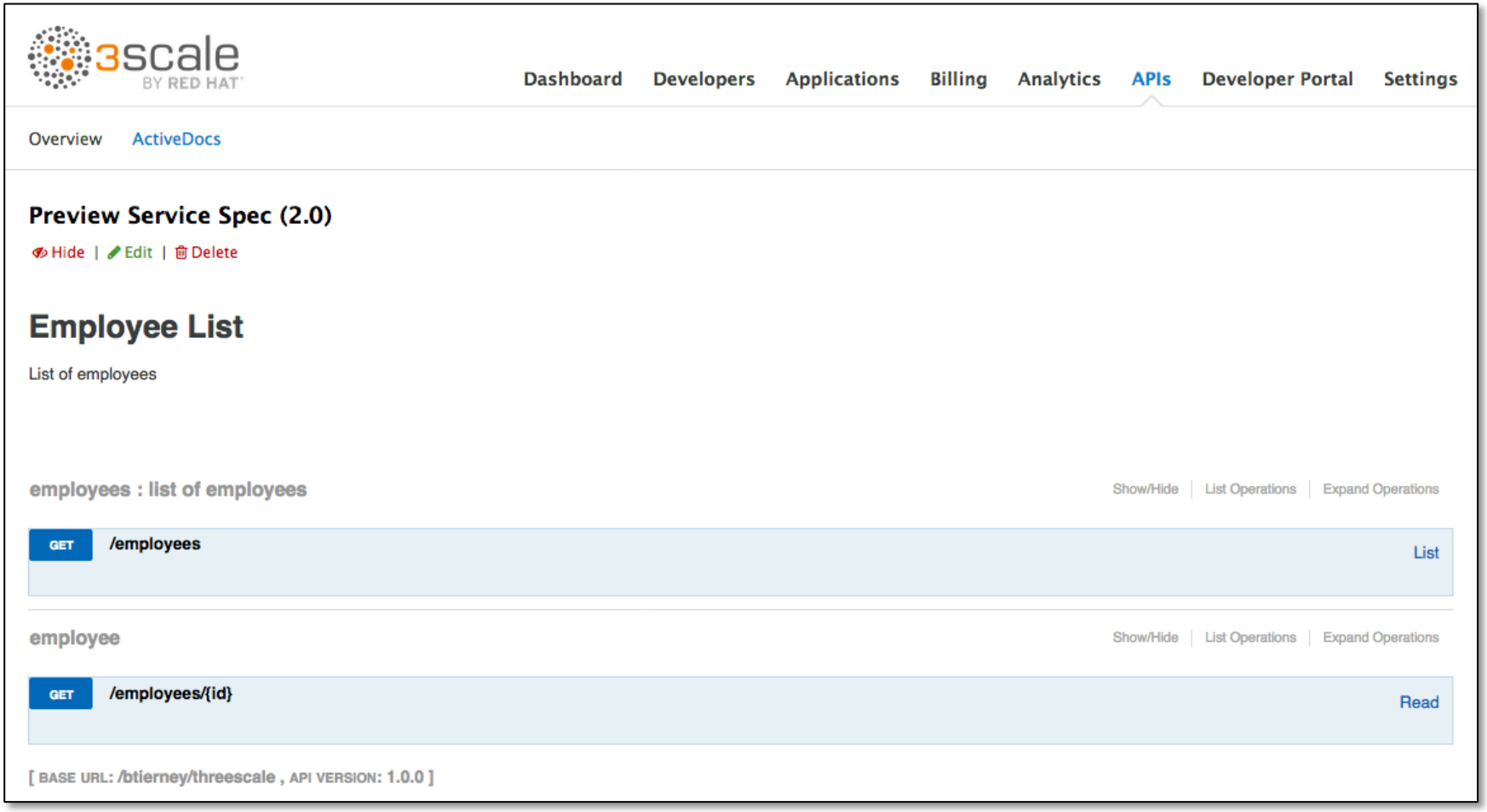

1. Name* **Employee Swagger**
2. System name* **employee-swagger**
3. Check **Publish**

## Import Swagger Docs (cont'd)

1. Go to the following link and copy the emp_swagger.json file to your clipboard
   https://github.com/btierney/threescale/blob/master/emp_swagger.json

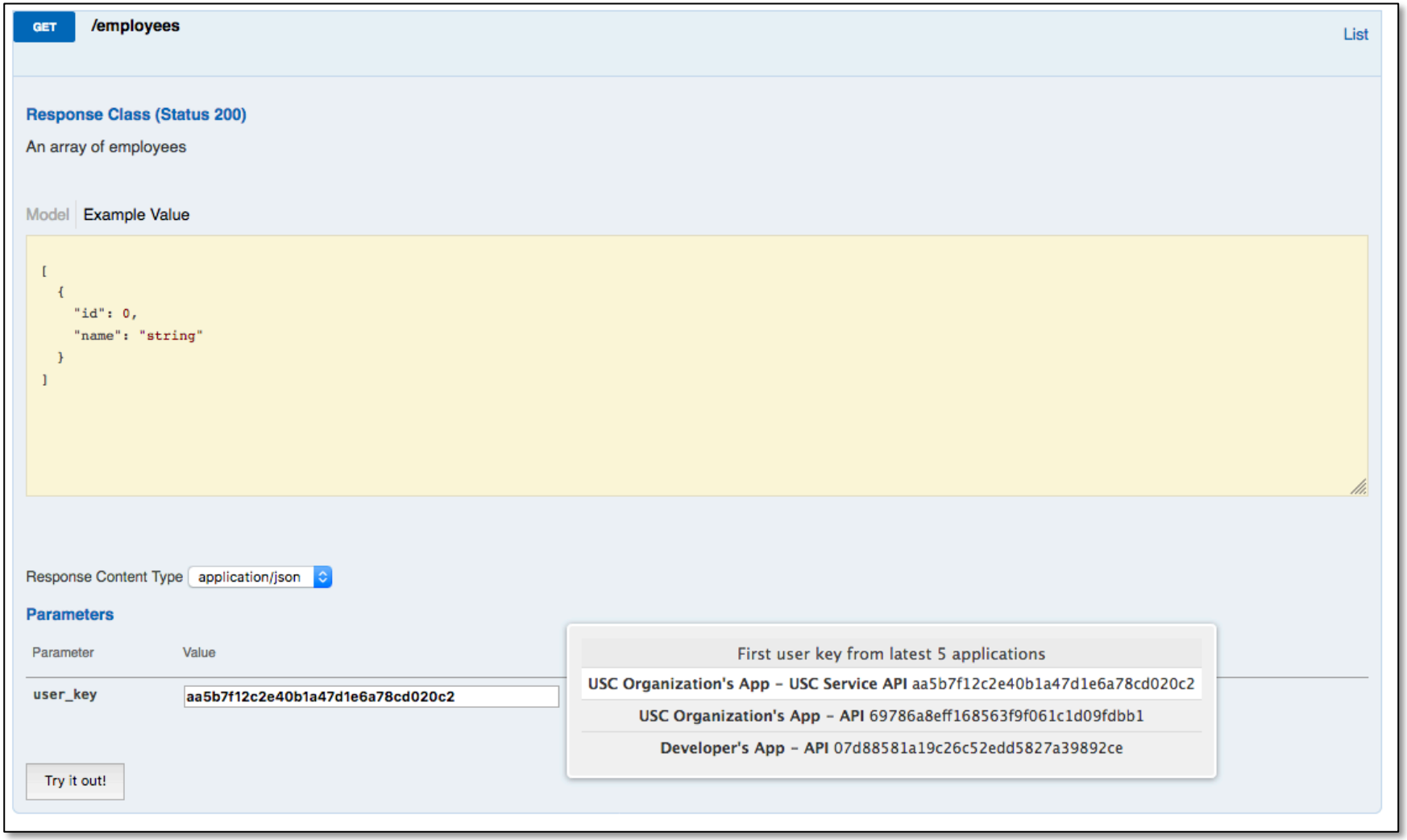
2. Paste the contents of the clipboard into the API JSON Spec* text field as shown below
3. Click the 'Update Service' button at the bottom of the screen.

## Import Swagger Docs (cont'd)




Test the service by clicking 'GET' on the '/employees'.

## Import Swagger Docs (cont'd)




Hover over the '**user_key**' field. Notice how the system will conveniently offer some choices
Click the '**Try it out!**' button to see the results

## Import Swagger Docs (cont'd)

**Request URL**

```
http://my-json-server.typicode.com/btierney/threescale/employees?user_key=7d795ac1bb57441fb352b95bed079ec7
```

**Response Body**

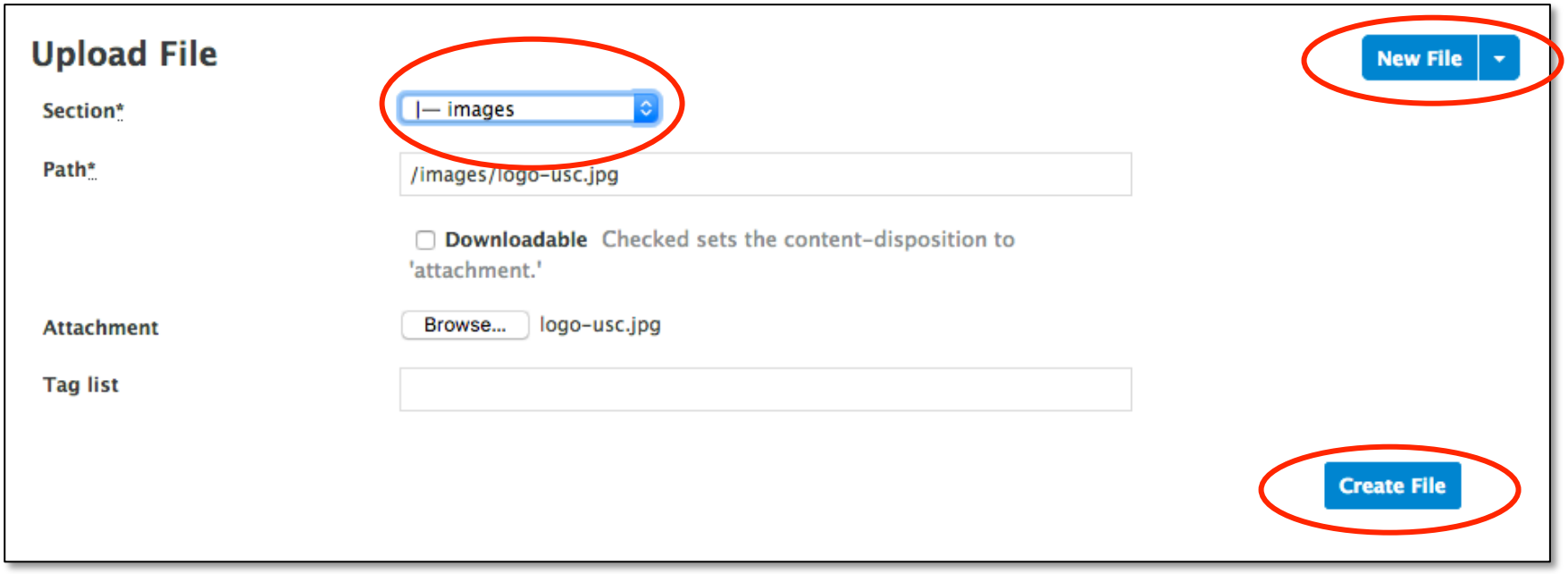

```
[
  {
    "id": 1,
    "name": "Awalt, Frank",
    "title": "CEO"
  },
  {
    "id": 2,
    "name": "Brennenstuhl, Susan"
  },
  {
    "id": 3,
    "name": "Boulds, Zach"
  },
  {
    "id": 4,
    "name": "Bankhead, Elissa"
  },
  {
    "id": 5,
```


**Response Code**

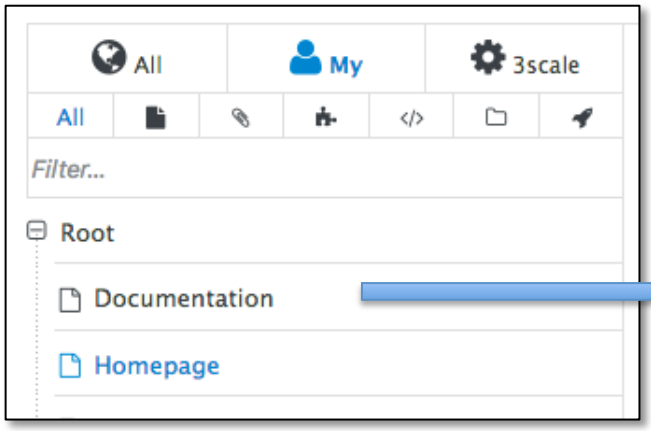
```
200
```

## Developer Portal

1. Download image assets from: https://github.com/btierney/threescale/tree/master/uscellular
2. Click the '**Developer Portal'** link at the top of the page.
3. Select 'New File' from the drop down on the right and then enter the values as follows:
4. Section* **images**
5. Path* **/images/logo-usc.jpg**
6. Click '**Create File'**
7. Repeat steps 3-6 using '**middle_of_anywhere.jpg'** file



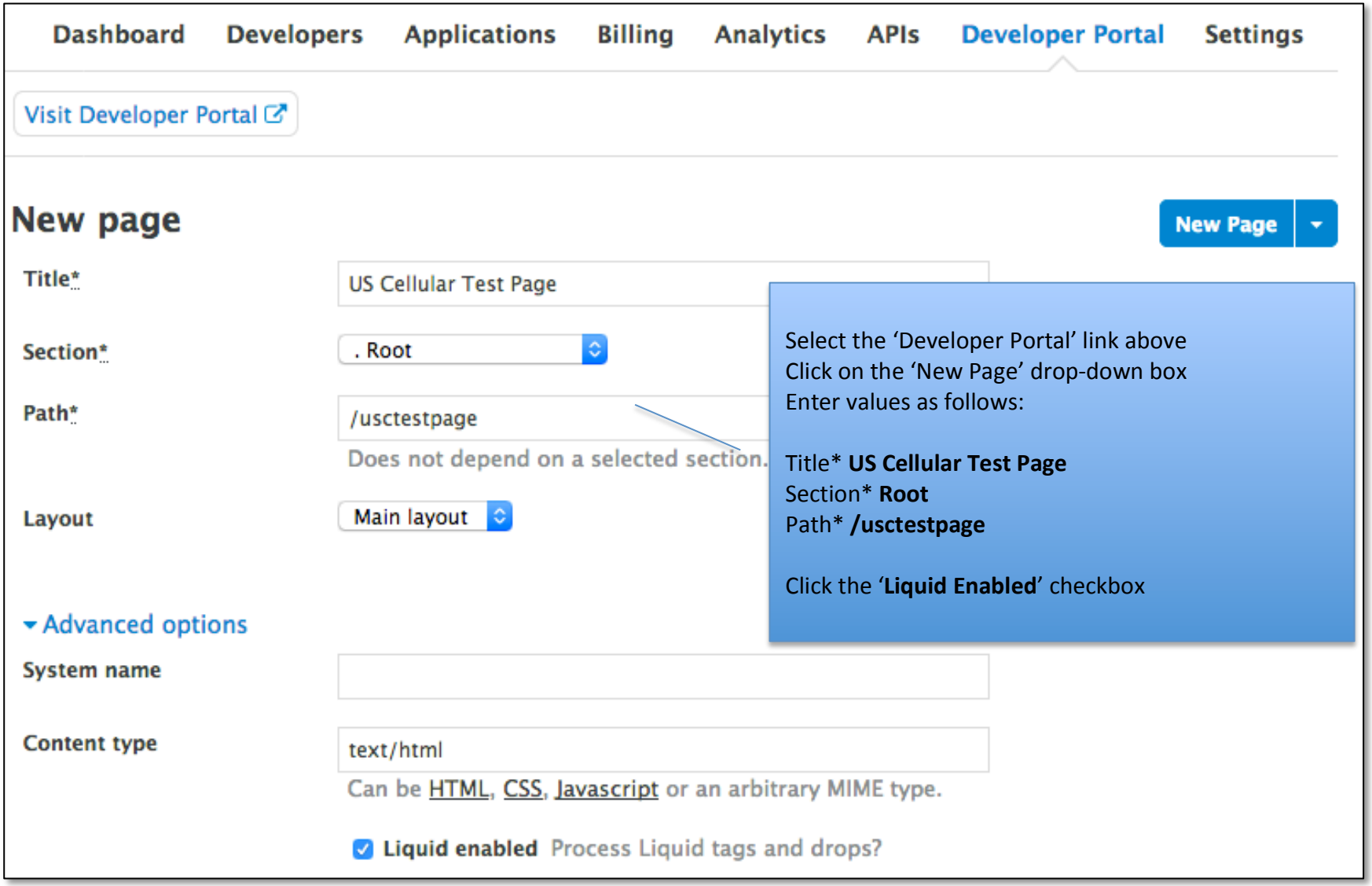
## Developer Portal (cont'd)




```
<header class="jumbotron page-header">
  <div class="container">
    <div class="row">
      <div class="col-md-12">
        <h1>Echo API</h1>
      </div>
    </div>
  </div>
</header>
```

```
<header class="jumbotron page-header">
  <div class="container">
    <div class="row">
      <div class="col-md-12">
          <div style="height:200px">
          <h1 style="color:#164e7b;font-size:50px">Middle Of Anywhere</h1>
          </div>
      </div>
    </div>
  </div>
</header>
```

## Developer Portal (cont'd)

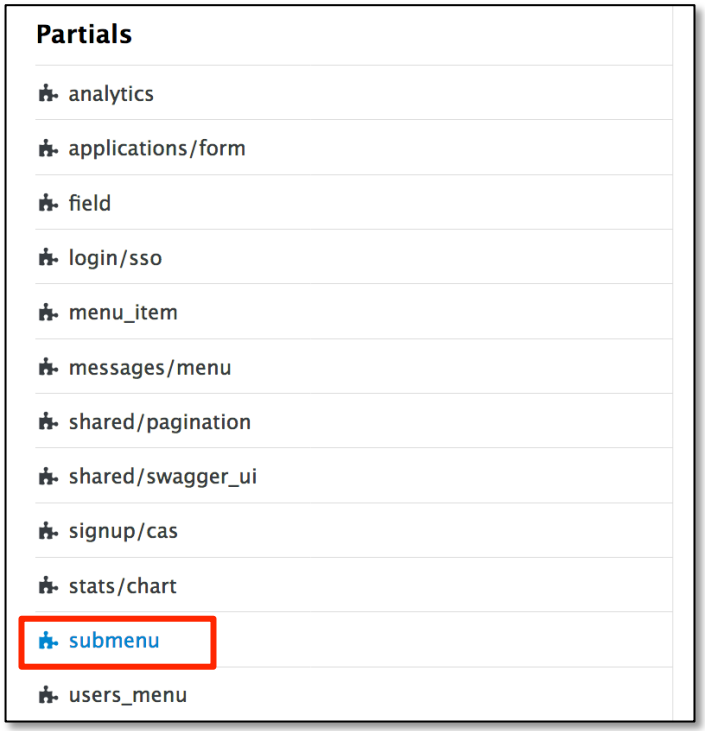


## Developer Portal (cont'd)

From the link below, copy the source for the swagger javascipt into the Text Box as shown. Click the 'Create Page' button on the bottom right of the page. Then click **Publish** and **Save**.

Portal Script:
https://github.com/btierney/threescale/blob/master/uscellular/portalscript

## Developer Portal (cont'd)




```
Line 37:
<li>
     <a class="{% if urls.docs.active? %}active{% endif %
     href="/docs">Documentation</a>
</li>
```

```
Line 37:
<li>
     <a class="{% if urls.docs.active? %}active{% endif %
     href="/usctestpage">Documentation</a>
</li>
```