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.

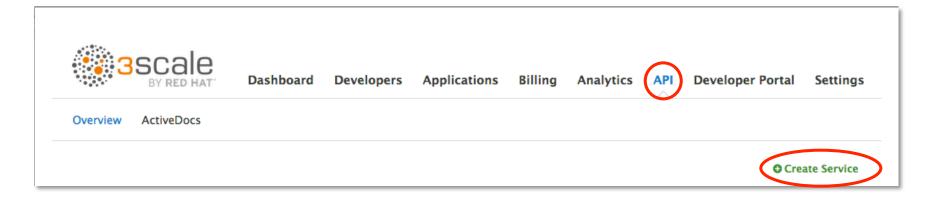
During the workshop you will:

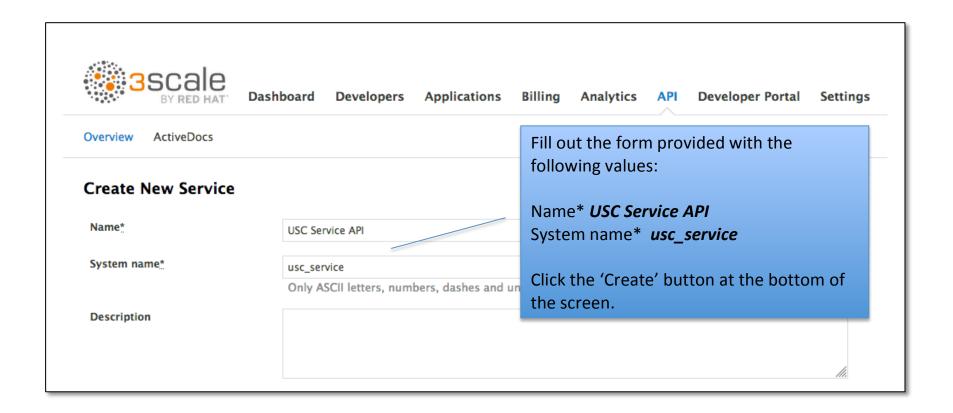
- 1. Define and configure a new API Service and Application
- 2. Create an API user
- 3. Create an Application Plan with policies
- 4. Create Mapping Rules
- 5. Import a SWAGGER doc
- 6. Modify the Developer Portal

Have Fun!

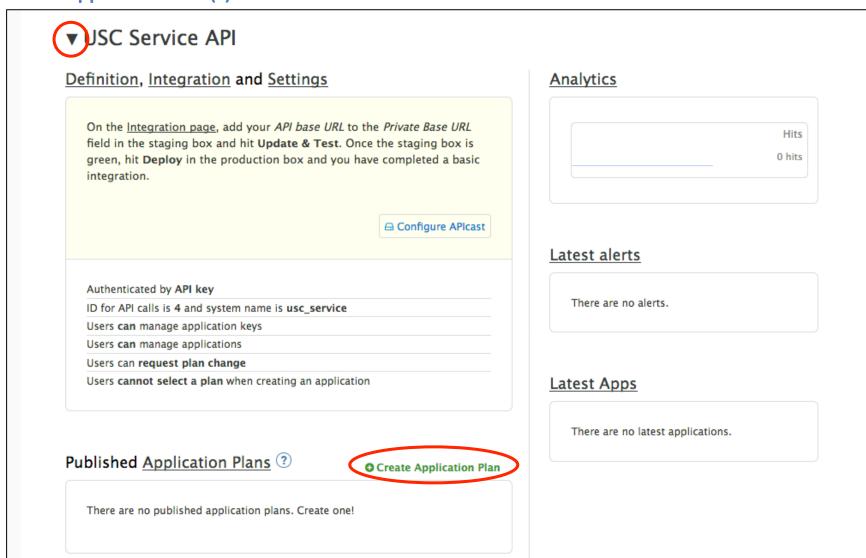
Create a new API Service

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





Create Application Plan(s)

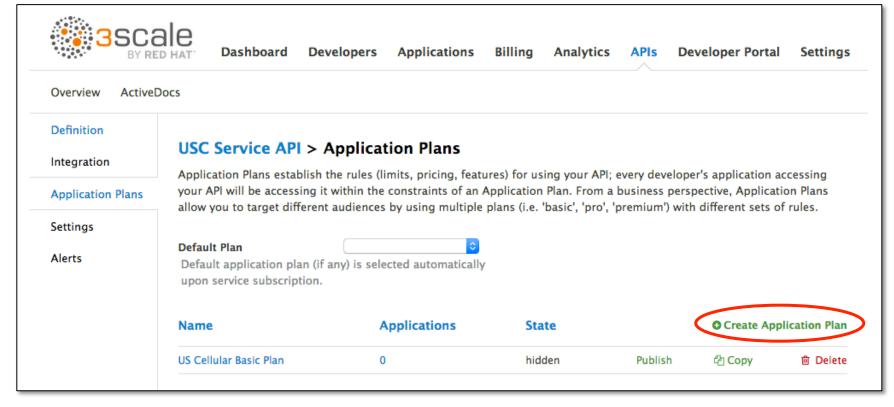


You have <u>0</u> application plans (0 published) with a total of <u>0 live applications</u>.

Create the Basic Plan

3SC BY R	ale Dashboard De	velopers Applications Billing	g Analytics APIs	Developer Portal	Settings
Overview Active	eDocs				
Definition Integration	USC Service API >	Create Application Plan US Cellular Basic Plan			
Application Plans					
Settings	System name <u>*</u>	us_cellular_basic_plan Only ASCII letters, numbers, das			
Alerts		allowed. Applications require approval	Fill out the form provided with the following values:		
	Trial Period (days)	Set whether or not applications or if approval is required from you	Name* <i>US Cellular Basic Plan</i> System name* <i>us_cellular_basic_plan</i>		_plan
	Setup fee	0.00	Click the 'Create Application Plan' button at the bottom of the screen.		
	Cost per month	0.00	USD		
				Create Application	on Plan

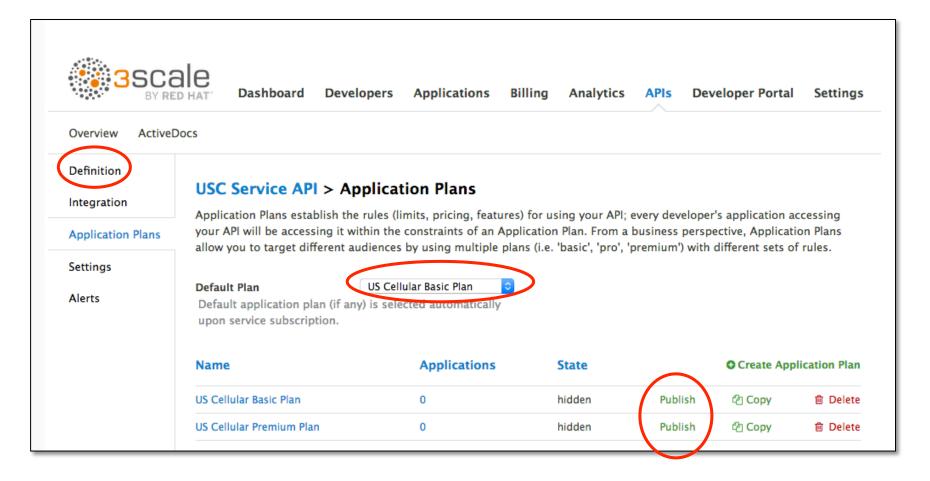
Create the Premium Plan



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

Methods

Add the methods of this API to get data on their individual usage. Method calls trigger the built-in Hits-metric. Usage limits and pricing rules for individual methods are defined from within each <u>Application Plan</u>. A method needs to be mapped to one or more URL patterns in the <u>Mapping Rules</u> section of the integration page so specific calls to your API up the count of specific methods.

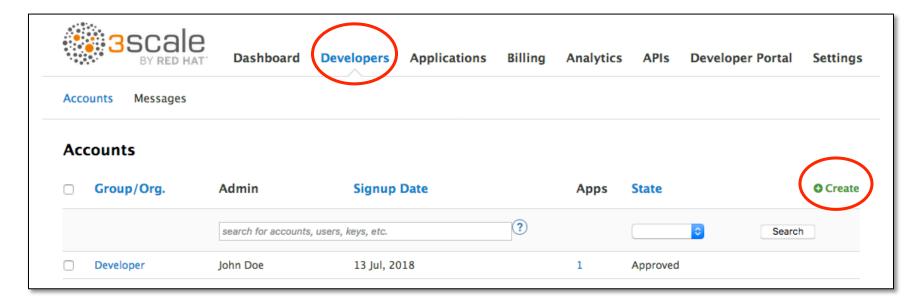
Method System Name Unit Description Mapped

You have no methods

New Method	Fill out the form provided with the following values:
get-employees	values.
e.g. Create new user	Name* <i>Get All Employees</i>
get-employees	System name* <i>getEmployees</i>
e.g. users/create or create_user.	Spaces a
	Click the 'Create Method' button at the bottom of the screen.
	bottom of the screen.
	Mic.
	Create Method
	get-employees e.g. Create new user get-employees

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

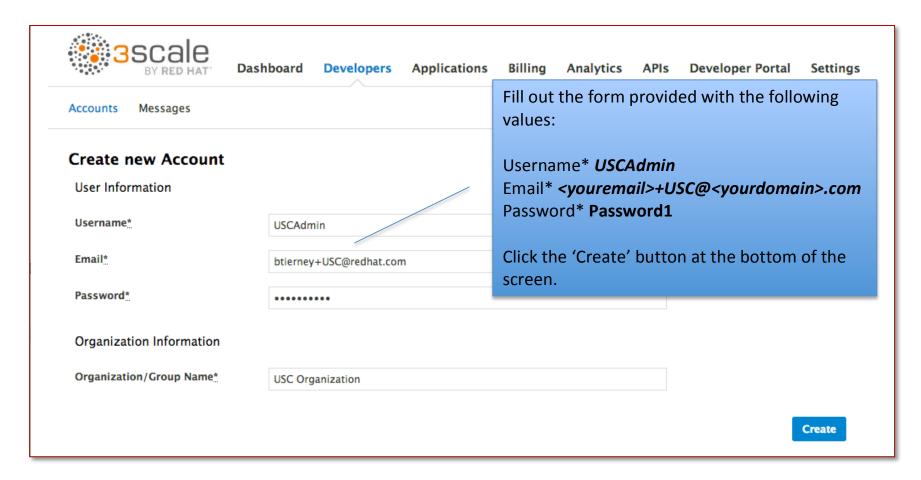
Create a Developer Account



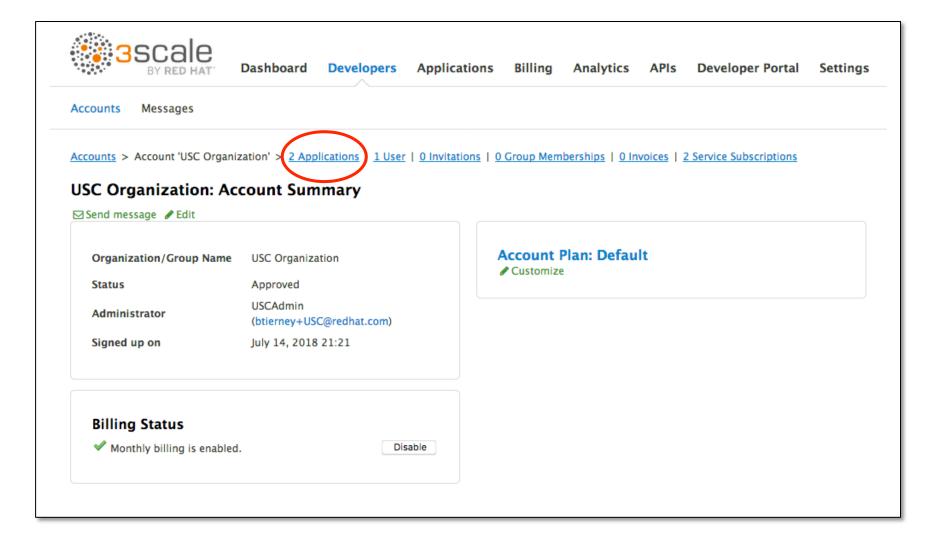
From the top menu, click on the 'Developers' link. Notice that there is a default account already setup for you. We're going to add a new account and associate it with our new Service API.

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

Fill out Developer Form

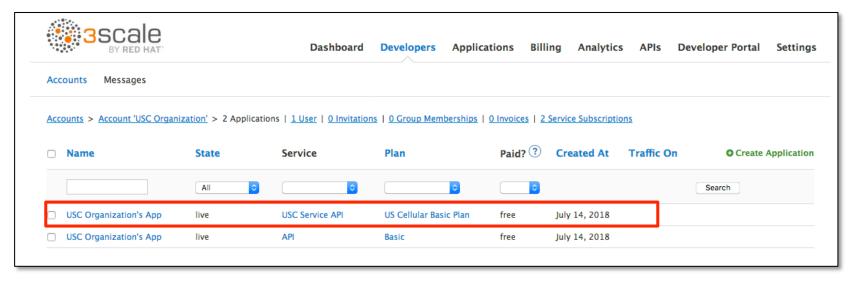


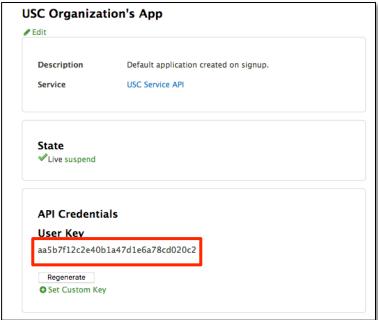
Developer Detail Screen



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

View User Key



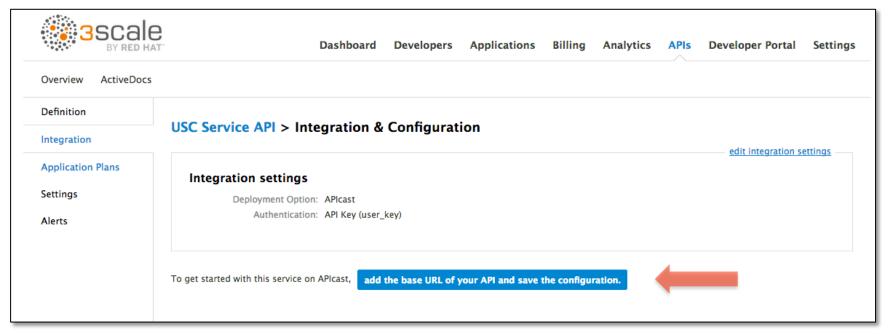


Click the 'USC Organization's App' link. Be sure to choose the one with the US Cellular Basic Plan as highlighted in the image above.

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





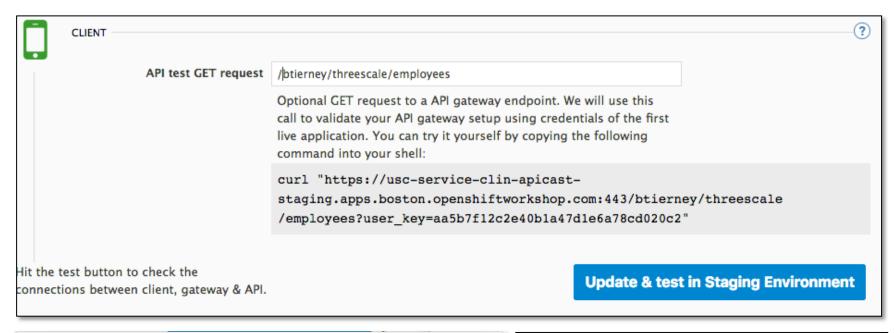
Integration and Configuration (cont'd)

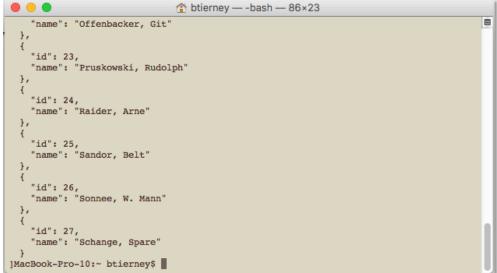


- 1. Click the pencil icon on the right to enable editing
- 2. Enter the URL pattern employees: /btierney/threescale/employees
- 3. Select the drop down and apply the 'getEmployees' mapping rule
- 4. Click the 'Add Mapping Rule' link adding the rule for 'getEmployeeByID' Using this pattern: /btierney/threescale/employees/{id}



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.

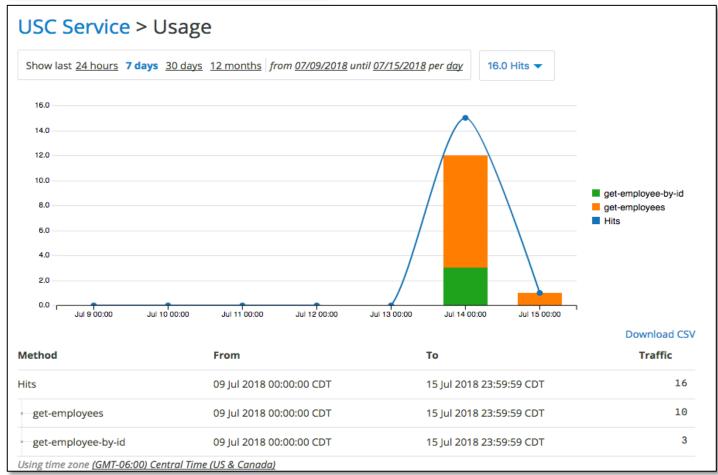
Open up a console window. Copy & paste the provided CURL statement into the command line and hit enter. You should see the employee list.

Analytics



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

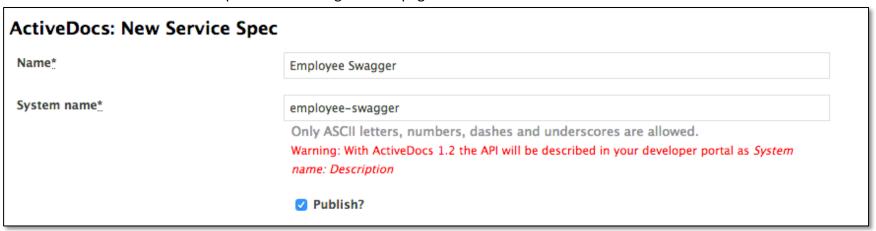
The resulting page will display charting and data on the service usage broken down by the methods/metrics we defined earlier.



Import Swagger Docs



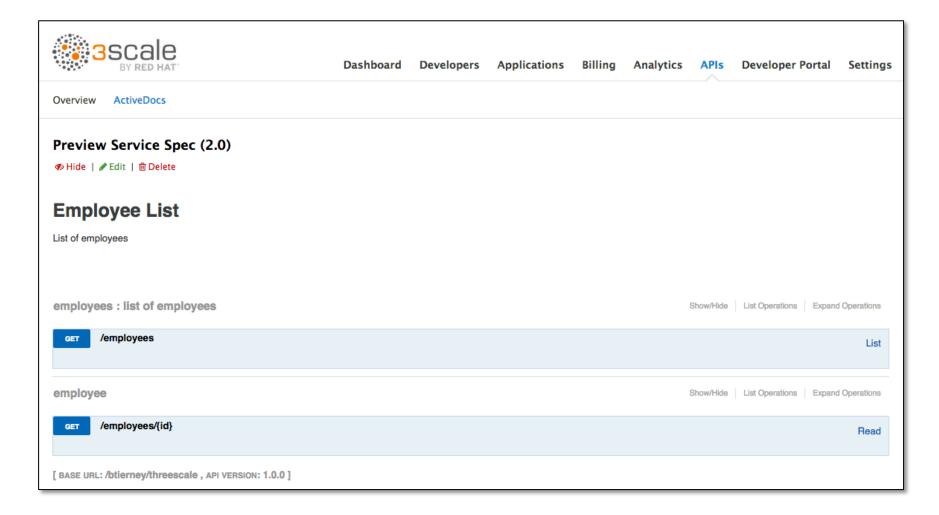
- 1. Click on the 'APIs' link on the top of the page
- 2. Click on the 'ActiveDocs' link under the 3Scale icon
- 3. Click on the 'Create a new spec' link at the right of the page



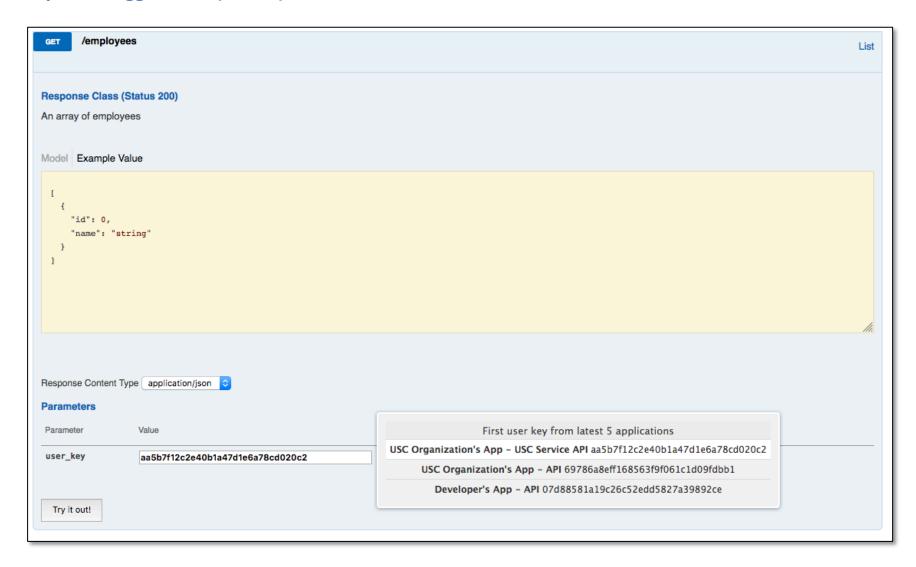
- 1. Name* Employee Swagger
- 2. System name* employee-swagger
- 3. Check Publish

- 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.

```
API JSON Spec*
    "swagger": "2.0",
  3 "info": {
  4 "title": "Employee List",
  5 "description": "List of employees",
  6 "version": "1.0.0"
  8 "host": "my-json-server.typicode.com",
  9 "basePath": "/btierney/threescale",
 10 "schemes": [
    "http"
    "consumes":
 14 "application/json"
```



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

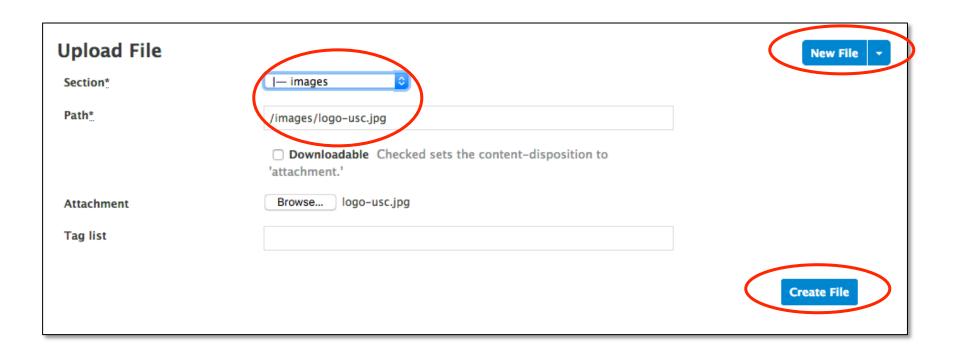


Hover over the 'user_key' field. Notice how the system will conveniently offer some choices Click the 'Try it out!' button to see the results

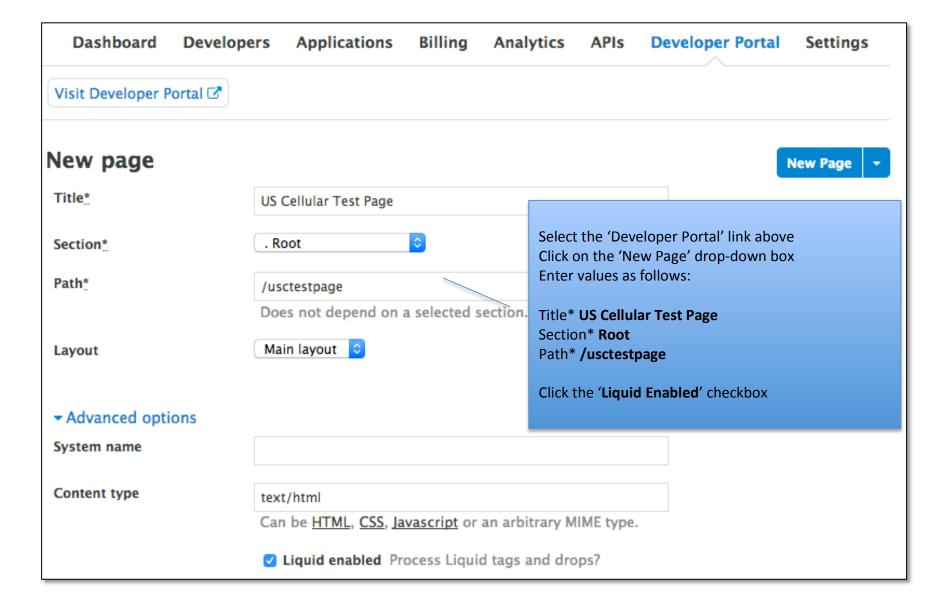
Request URL http://my-json-server.typicode.com/btierney/threescale/employees?user_key=7d795ac1bb57441fb352b95bed079ec7 **Response Body** 1 "id": 1, "name": "Awalt, Frank", "title": "CEO" "id": 2, "name": "Brennenstuhl, Susan" "id": 3, "name": "Boulds, Zach" "id": 4, "name": "Bankhead, Elissa" "id": 5, **Response Code** 200

Developer Portal

- 1. Download image assets from: http://
- 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'



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

