**HealthAPIx**

**Developer Portal Deployment**

**Document**

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| --- | --- | --- |
| **Version** | **Date** | **Summary of Changes** |
| 1.0 | 18-Dec-2015 | Details of HealthAPIx Devportal deployment |
|  |  |  |
|  |  |  |

**Version Control**

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# Introduction

The Apigee HealthAPIx solution provides App (both, mobile and web) developers and digital teams with access to:

A purpose-built developer portal with FHIR-ready APIs, including claims, patient, medication, and condition APIs. Here an app developer can explore documentation and test APIs.

* An open source project with preconfigured API proxies for 16 FHIR APIs.
* Pre-integrated OAuth security framework and other key security functions.
* A reference implementation with a gallery of FHIR-enabled apps for inspiration.

The HealthAPIx solution is deployed on two types of instances.

* Apigee Developer portal - acts as a client to Apigee Edge.

The app gallery is also a part of developer portal.

* Apigee Edge which hosts pre-configured FHIR API proxies with OAuth security framework.

The intent of this document is to guide step by step how to deploy the customized Developer Portal instance in the cloud.

While this document steps out the goal to setup a developer portal instance, a preliminary read about developer portal would be useful. <http://apigee.com/docs/developer-services/content/what-developer-portal>

# Assumptions

This document assumes that Apigee Edge gateway exposing FHIR APIs is already up and running.

The details to setup an Apigee instance with FHIR APIs is covered in [HealthAPIx\_Design\_and\_Deployment\_v1.2.docx](file:///C:\Users\shirish_wankhede\Downloads\HealthAPIx_Design_and_Deployment_v1.0.docx) document in \flame\docs folder.

**Prerequisites:** User should have

* Apigee dev-portal admin access,
* pantheon access,
* GitBash 2222 port enabled.

# Getting Started

# 3.1 Flame – Open source project for Health APIx solution.

Flame is an open source project including developer portal source, 16+ FHIR API proxies and the identity and consent management. This document focusses only on deployment of Developer portal in the cloud. After successful deployment, an app developer should be able to access following:

-Apigee Edge Developer Portal with a customized theme for Healthcare.

-FHIR API Documentation for easy understanding.

-FHIR Sandbox for trying out FHIR APIs

-App Gallery to promote App ecosystem of your API program.

# 3.1.1 Accessing Flame.

Go-to below git hub directory for flame project and clone it to your desktop. Cloned directory contains codes for Dev-portal, FHIR API Proxies and identity management.

Get the API proxy bundle from GIT repository <https://github.com/apigee/flame/tree/master/src/developerportal>.

Use below command:

$ git clone <path of git repository>

On unavailability of git repo, download code from

https://drive.google.com/folderview?id=0B-y5CAUxv0zuU2o5ZFNtOUdEMFE&usp=sharing

**/flame/tree/master/src/developerportal** contains custom portal source code.

In section **3.4. ‘Flame customized source code migration to out-of-box portal’**, we will see how to migrate customized dev portal source on a new instance of Apigee out-of-box dev-portal.

# 3.2 Apigee developer portal request.

Firstly, register for Apigee out-of-box Developer Portal on a cloud instance. Use the below URL to register and fill in the form and submit.

<http://apigee.com/docs/content/developer-services-portal-request>

Once your portal is provisioned, you will receive an email from Apigee with further instructions.

See image below.

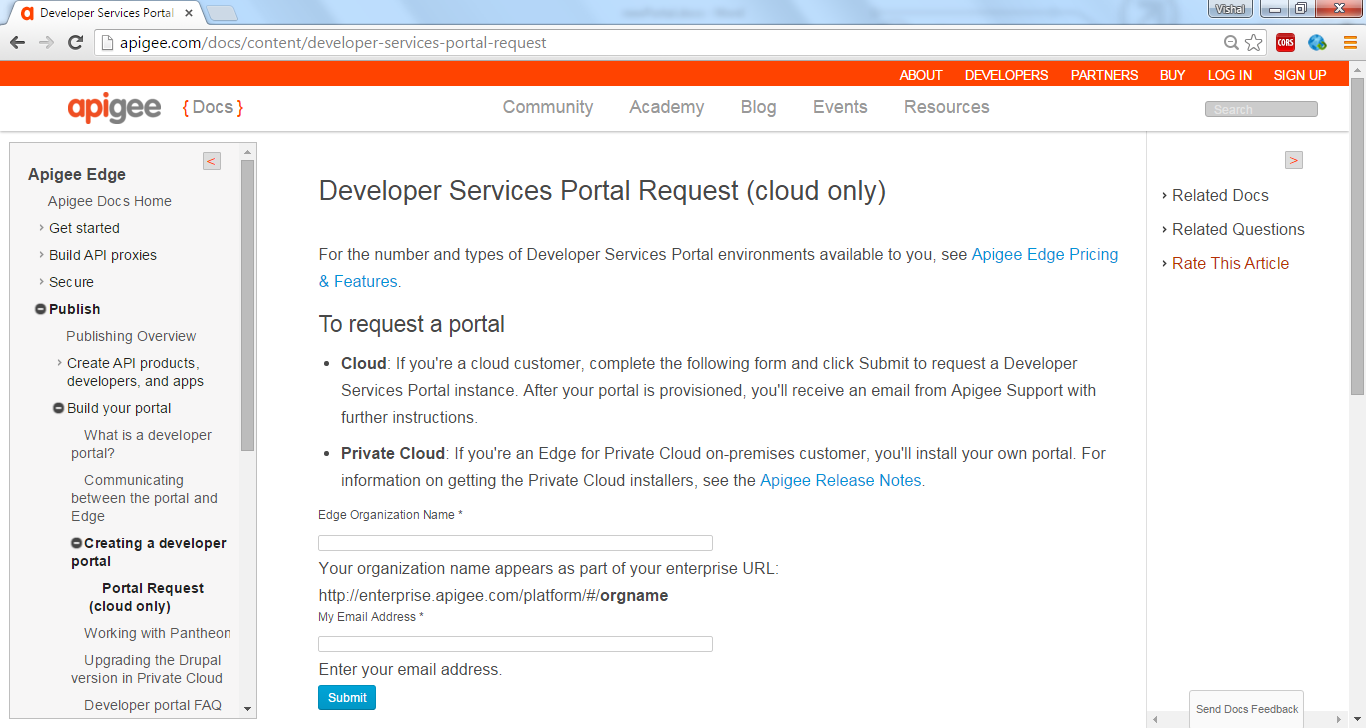


Figure 1.

# 3.3 Pantheon – create your free account.

Pantheon - is a web development platform for open-source Drupal based websites. It is a combination of web development tools in the cloud and web hosting and management services.

URL: <https://pantheon.io>

Register to create a free account on pantheon.

See image below.

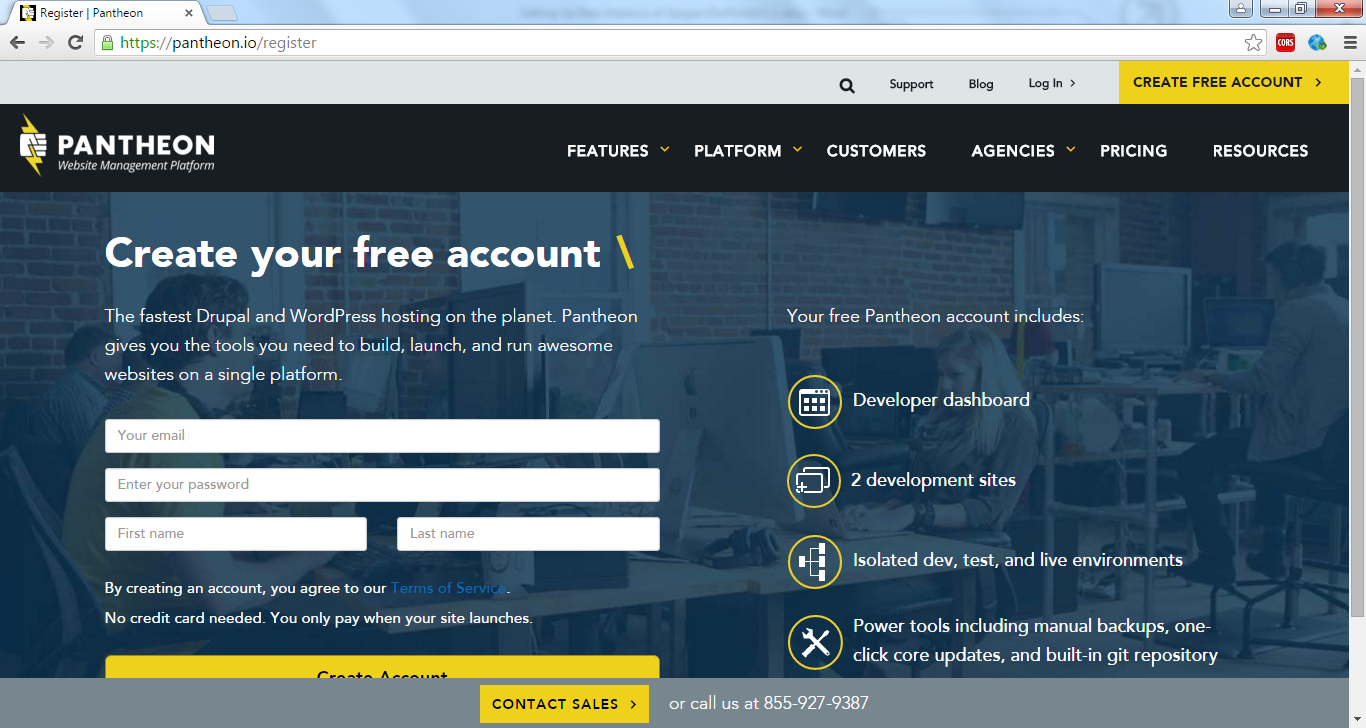


Figure 2.

Apigee out-of-box dev-portal is hosted on pantheon, you just need to connect with Apigee support team to request them to associate your Apigee dev portal with your created pantheon account.

Once it is associated, you will be able to access and interact with your Apigee out-of-box dev-portal code.

See image below –

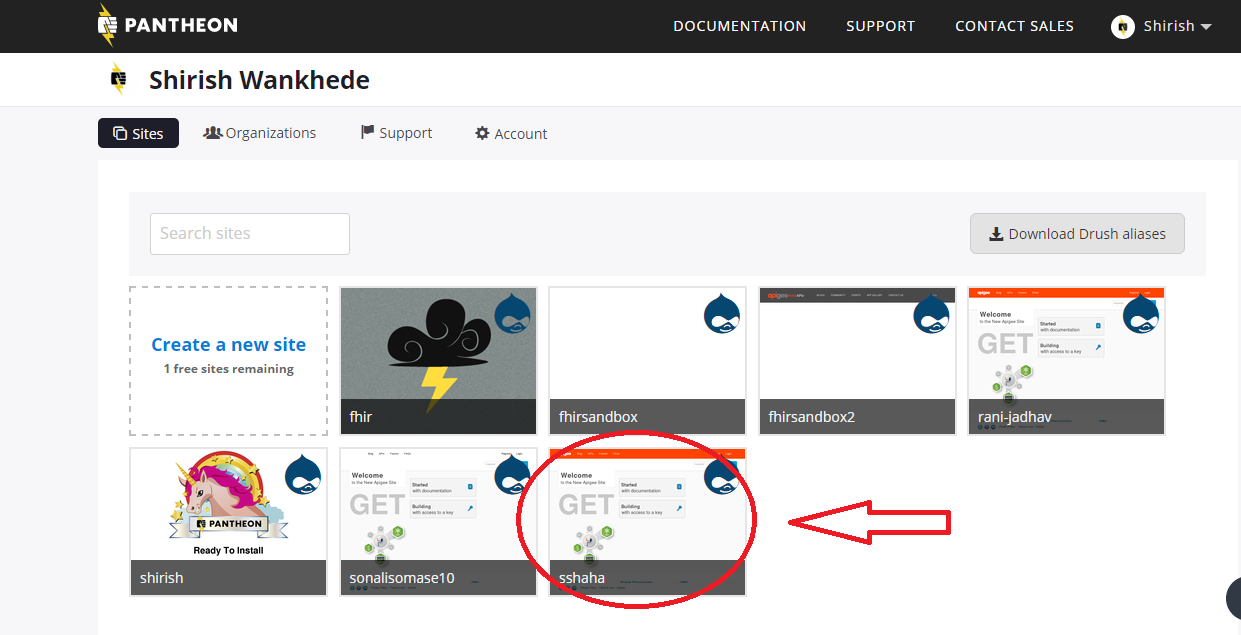


Figure 3.

Above image shows dev-portal (for shirish) now associated with pantheon and portal code can now be accessed using that link.

See image below –

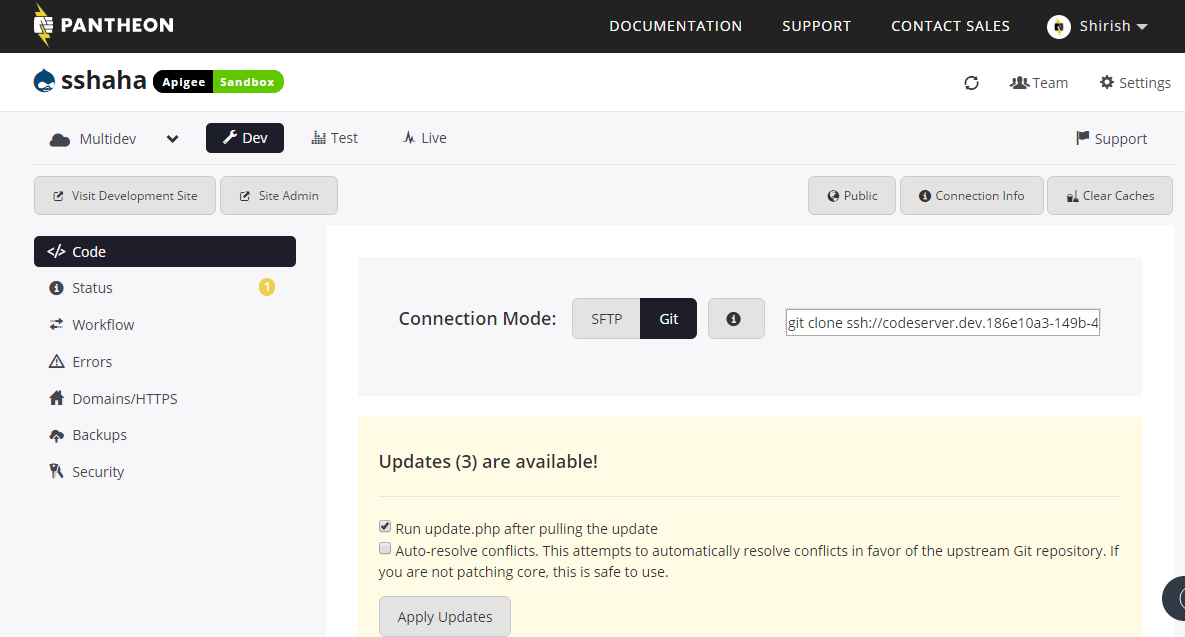


Figure 4.

# 3.4 Flame customized source code migration to out-of-box portal

Initially, before flame code migration to portal, portal UI would look like as below:

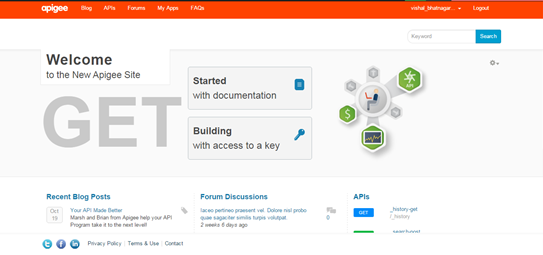


Figure 5.

A Backup of portal’s code is recommended before migrating flame code on portal.

Login Pantheon -> goto your portal site -> Backups -> and create a new backup. You can select the option to save the backup for a month or for 6 months.

See image below:

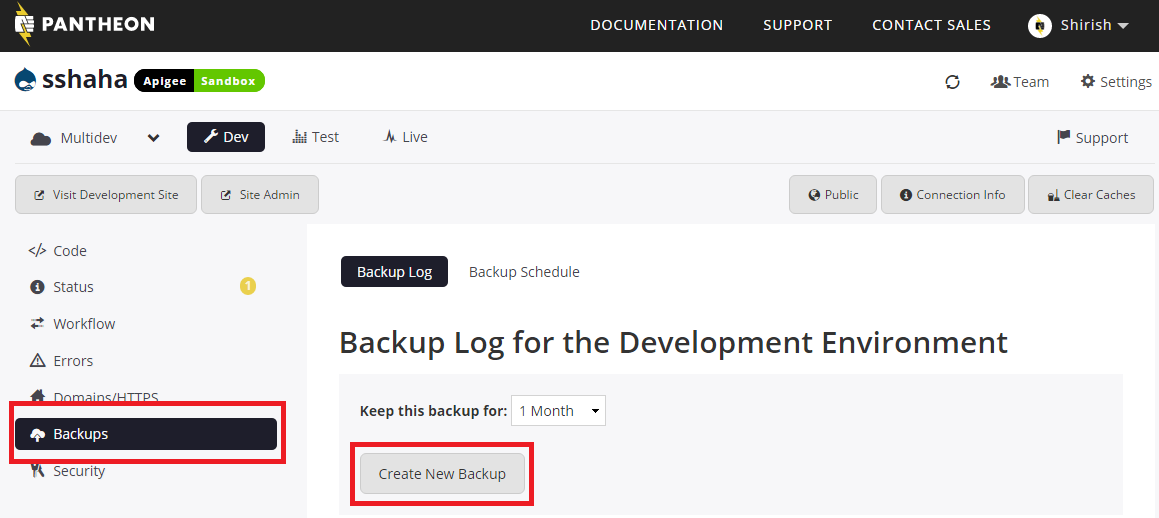


Figure 6.

Next clone default portal’s code:

This document uses git bash client to access Git.

Get clone url from pantheon.

See image below:

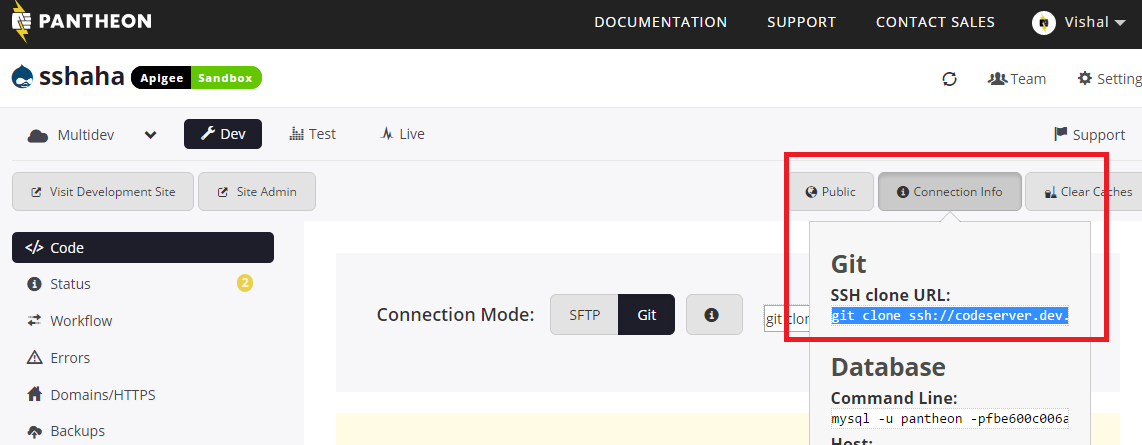


Figure 7.

Now open git bash. Check out the latest code.

1. If the code is not present on your local system, Clone the latest code.

Use the following commands.

* Go to the folder where you want to clone the code.
* Use the git clone command (highlighted in RED)
* If it prompts for security validation then type “yes” and proceed.

1. If the code is already present on your local system, then check out updated code using following commands.

* Go to home folder of the code. (e.g. cd to $<home\_folder>)
* $git pull
* Enter the password if it’s prompted.

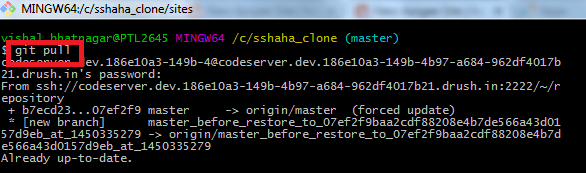


Figure 8.

This command will clone “sshaha” portal’s out-of-box code on your local system in your <home\_folder> directory as<home\_folder> /**sites /**

The ‘**all’** folder from default portal code now has to be replaced with the ‘**all’** folder in flame.

Copy **/flame/tree/master/src/developerportal/all/** to

**/<home\_folder> /sites/all/**

Now we need to push back the custom changes.

This will be achieved by running below commands in GitBash

**Commands :**

Open GitBash.

$ cd {root\_folder}/sites

$ git add all

$ git commit –m “—comments--”

$ git push

If password is prompted then type your GitBash password and “Enter” key button.

See image below:

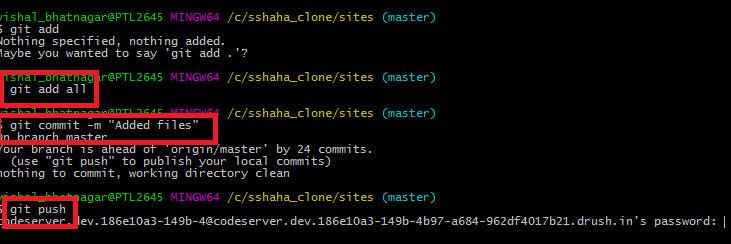


Figure 9

Above commands will help in pushing changes to portal.

Open the Dev-Portal on the browser and login with Admin credentials.

Further we need to do few manual configurations.

**1.Enable FHIR responsive theme:**

Click on Appearance -> Enable and set default hyperlink as shown in screenshot.

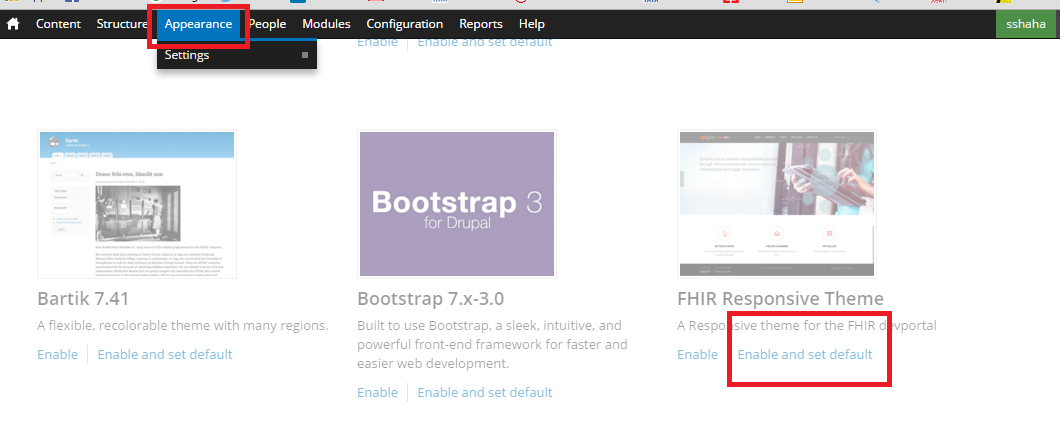


Figure 10

**2.Enable FHIR required Modules (FHIR Blocks and FHIR Custom):**

Go to Module tab -> Search FHIR

You will get list of FHIR Modules. Enable **FHIR Blocks** and **FHIR Custom** Modules and click on “**Save Configuration**” Button.

Click on “**Continue**” button to enable dependent module automatically.

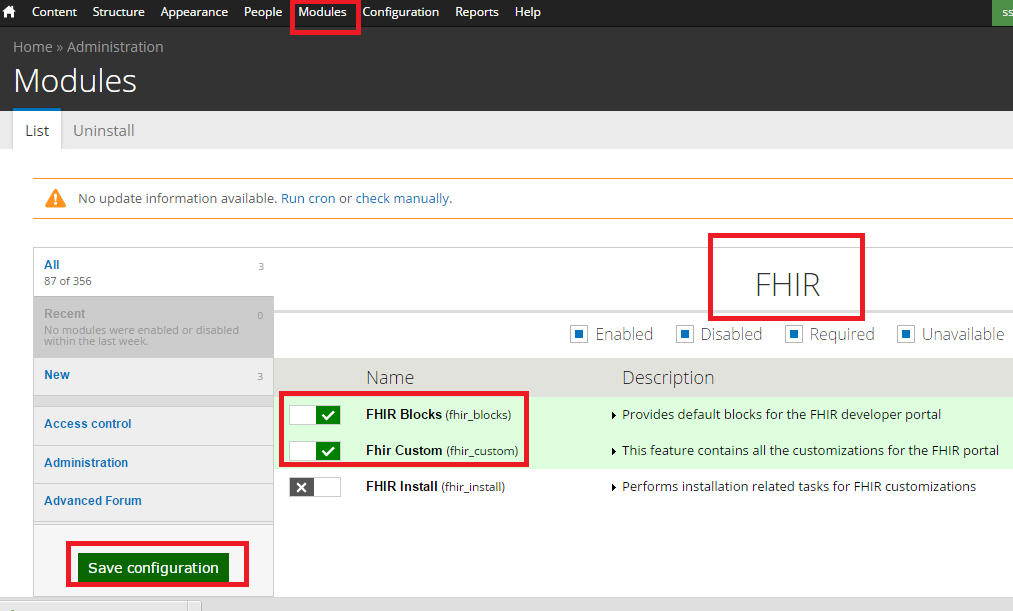


Figure 11

**3.Clear Cache :**

To clear cache Go to **Home** -> **Flush all caches** as shown in below screen shot.

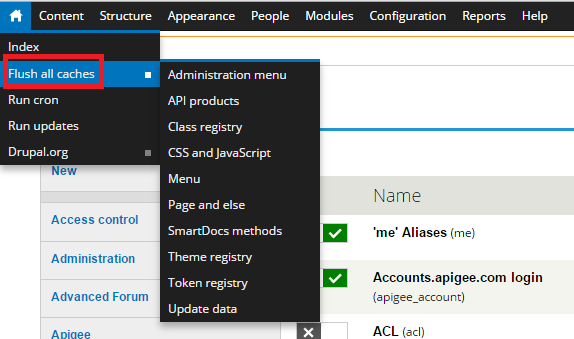


Figure 12

4. **Enable FHIR Install Module:**

Go to Module tab -> Search FHIR

You will get list of FHIR Modules. Enable **FHIR Install** Module and click on “**Save Configuration**” Button.

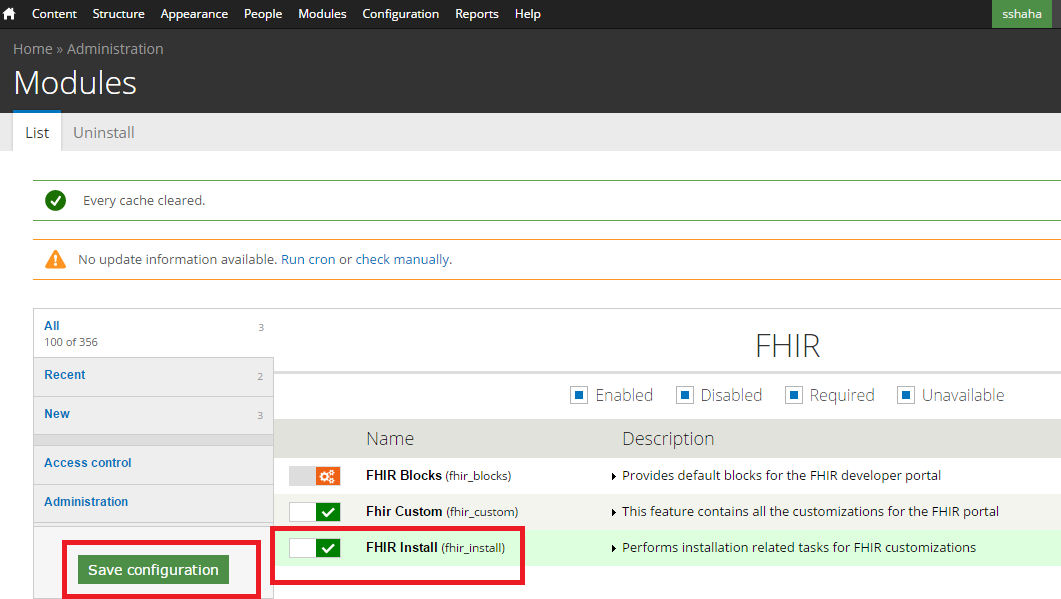


Figure 13

**5.Clear Cache Again :**

To clear cache goto Home -> Flush all caches

Here we go, now refresh you portal site and you will see all change of flame code on your portal.

See image below:



Figure 14

# 3.5 Theming of SmartDocs Pages:

# 3.5.1 Applying HBR Template

* Go to Configuration -> SmartDocs -> Click on “Choose File” button to select the .hbr file from cloned/downloaded flame source code i.e. flame/src/developerportal/smartdocTemplate.hbr

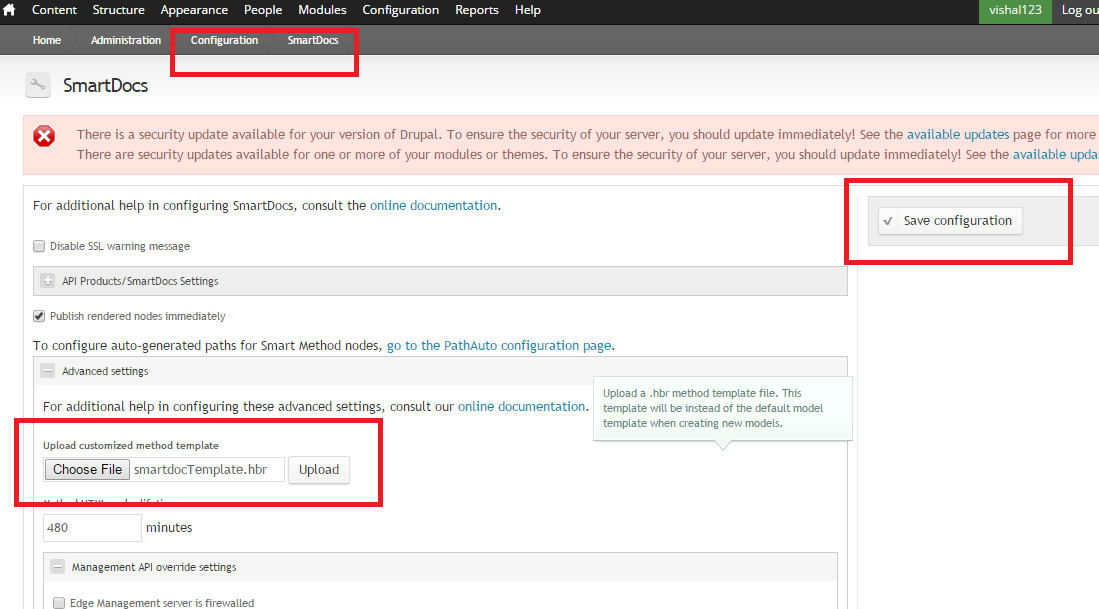


Figure 15

* Click Upload Button
* Save Configuration
* Clear Cache
* Check the changes reflecting on SmartDoc page.

# 3.5.2 Upload Swagger File

* Refer Document “flame/docs/HealthAPix\_Deploy\_SmartDocs\_v1.0.docx”

# 3.5.3 Creating Quicktab instance

* Go to modules -> Enable Quicktab Module
* Go to Structures -> QuickTabs -> Add QuickTabs Instance
* Fill the details as highlighted in RED

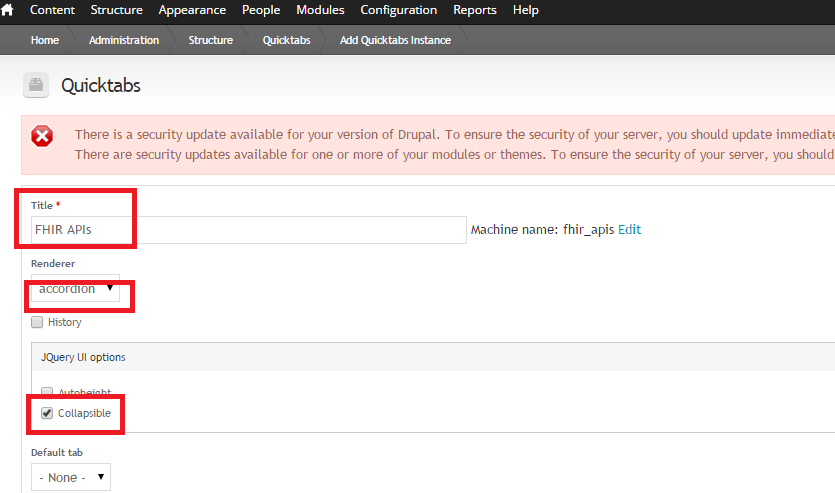


Figure 16

* Add Tabs for all APIs (e.g. Vaccination API) as shown in Fig 17.

(Ref. entries in RED color box)

* Click “Save” Button.

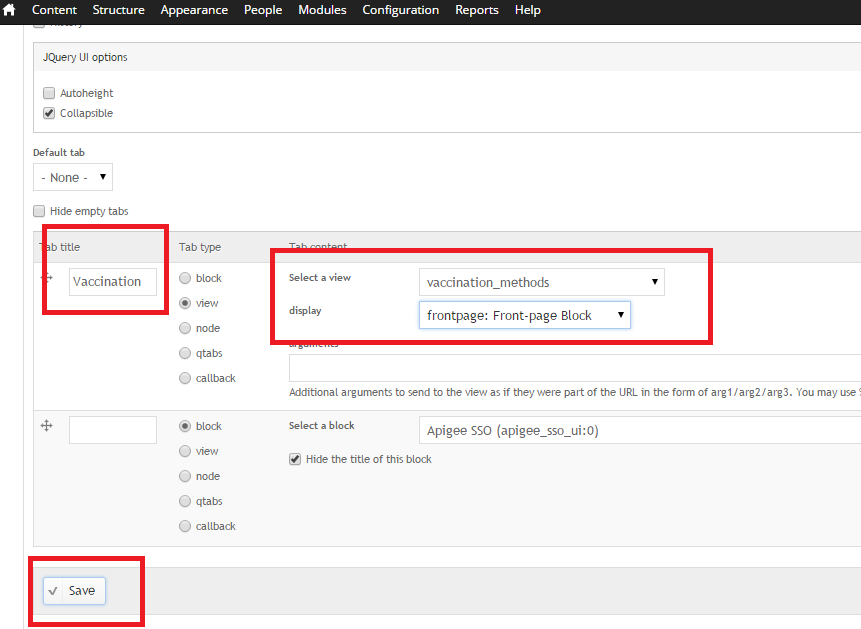


Figure 17

* Configure to display Quicktab block on SmartDoc Page.

1. Go to Structures -> Blocks -> Search for Created Quicktab name e.g. “FHIR\_API”
2. Select the region as a “**SECONDARY**”
3. Click on “Configure” hyperlink as shown in below screenshot as BLUE

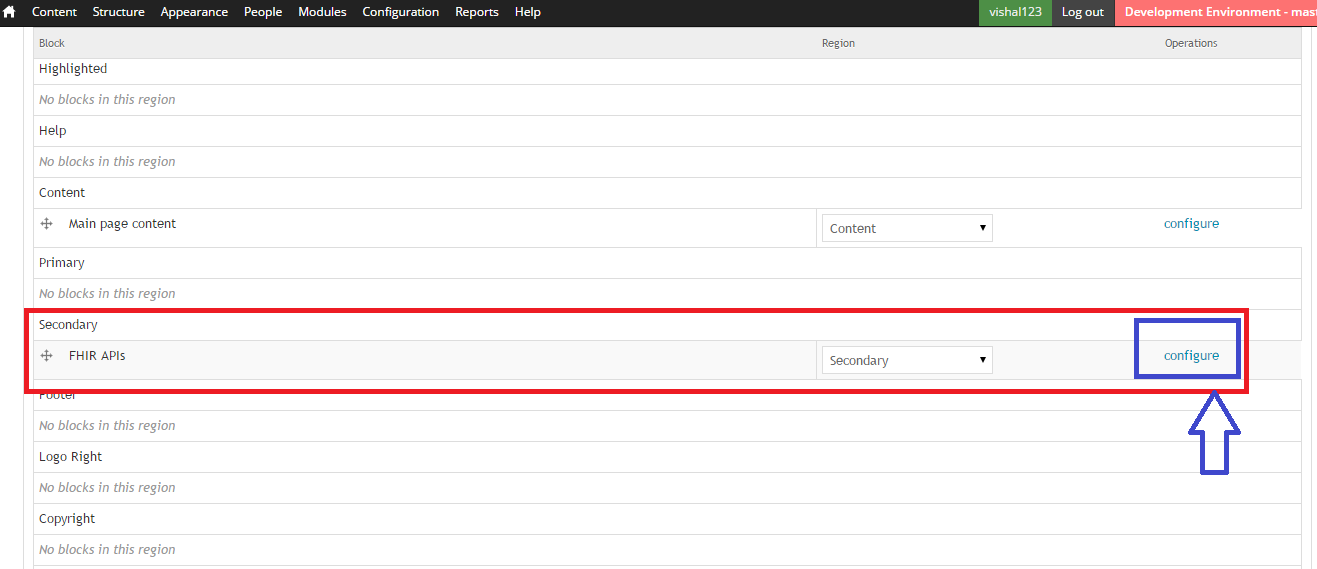


Figure 18

1. Fill the following details for “FHIR APIs” block as shown in below image (Figure 19 & 20)
2. Css : all-patient-left-nav
3. FHIR Responsive theme : Secondary
4. Content Type : SmartDocs Method
5. Click on “Save” button.

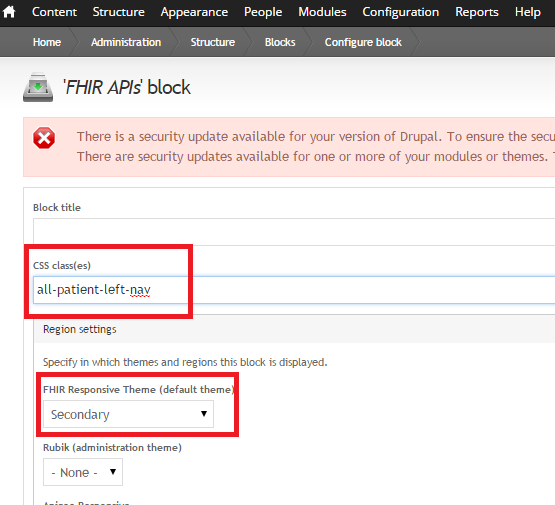


Figure 19

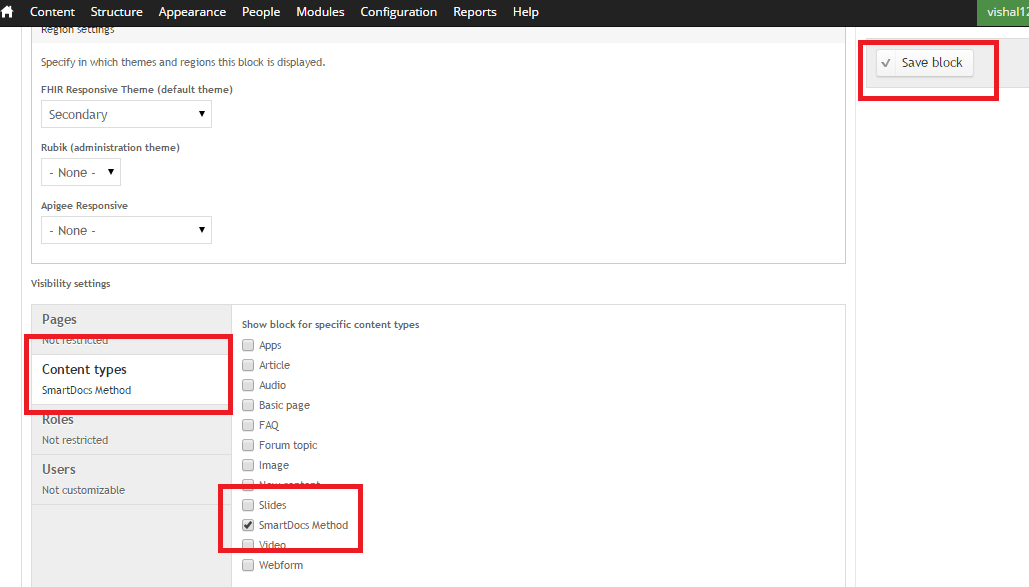


Figure 20.

* Resultant screen should be as below.

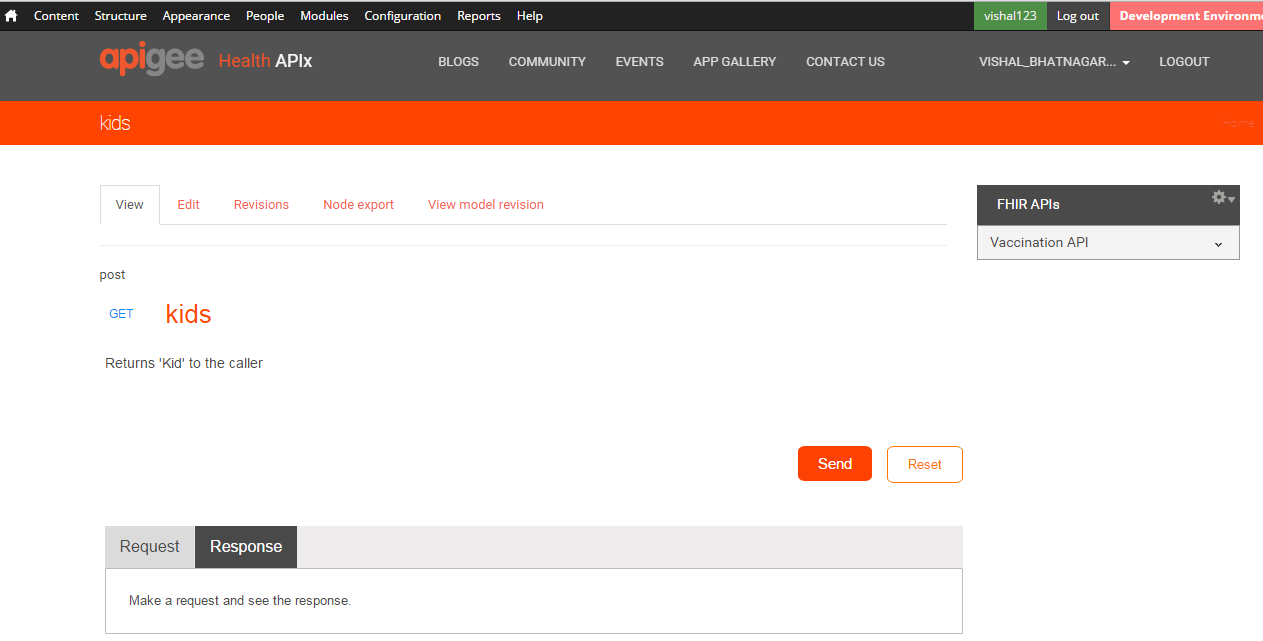


Figure 21

This completes configuration of Smartdocs.

Following all sections and steps above would enable a customized deveoperportal similar to <https://healthapix.apigee.com/>

Have fun!