

SAGTours Demo

Installation and Configuration Guide

Version 10.5

October 2019

This document applies to SAGTours Demo 10.5 and to all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

Copyright © 2005-2019 Software AG, Darmstadt, Germany and/or Software AG USA Inc., Reston, VA, USA, and/or its subsidiaries and/or its affiliates and/or their licensors.

The name Software AG and all Software AG product names are either trademarks or registered trademarks of Software AG and/or Software AG USA Inc. and/or its subsidiaries and/or its affiliates and/or their licensors. Other company and product names mentioned herein may be trademarks of their respective owners.

Detailed information on trademarks and patents owned by Software AG and/or its subsidiaries is located at

<http://softwareag.com/licenses>.

This software may include portions of third-party products. For third-party copyright notices, license terms, additional rights or restrictions, please refer to "License Texts, Copyright Notices and Disclaimers of Third Party Products". For certain specific third-party license restrictions, please refer to section E of the Legal Notices available under "License Terms and Conditions for Use of Software AG Products / Copyright and Trademark Notices of Software AG Products". These documents are part of the product documentation, located at <http://softwareag.com/licenses> and/or in the root installation directory of the licensed product(s).

Use, reproduction, transfer, publication or disclosure is prohibited except as specifically provided for in your License Agreement with Software AG.

Document ID: CS-STI-105-20191015

CONTENTS

1	Introduction	4
1.1	Step 1: Install and Configure SAGTours Demo in webMethods API Portal ..	4
1.2	Step 2: Install and Configure SAGTours Demo in CentraSite	7
1.3	Step 3: Install and Configure SAGTours Demo in webMethods Mediator...	11
1.4	Step 4: Install and Configure SAGTours Demo in webMethods API Gateway	15
1.5	Step 5: Verify Contents in API Portal	20

1 Introduction

The SAGTours demo provides an end-to-end scenario using webMethods API Portal, CentraSite, and webMethods Mediator or API Gateway. Use the following installation and configuration instructions to configure different products and then install the SAGTours demo in these products.

These instructions assume that API Portal, CentraSite, and Mediator or API Gateway have been installed using the Software AG Installer, but the communication paths between the products have not yet been configured.

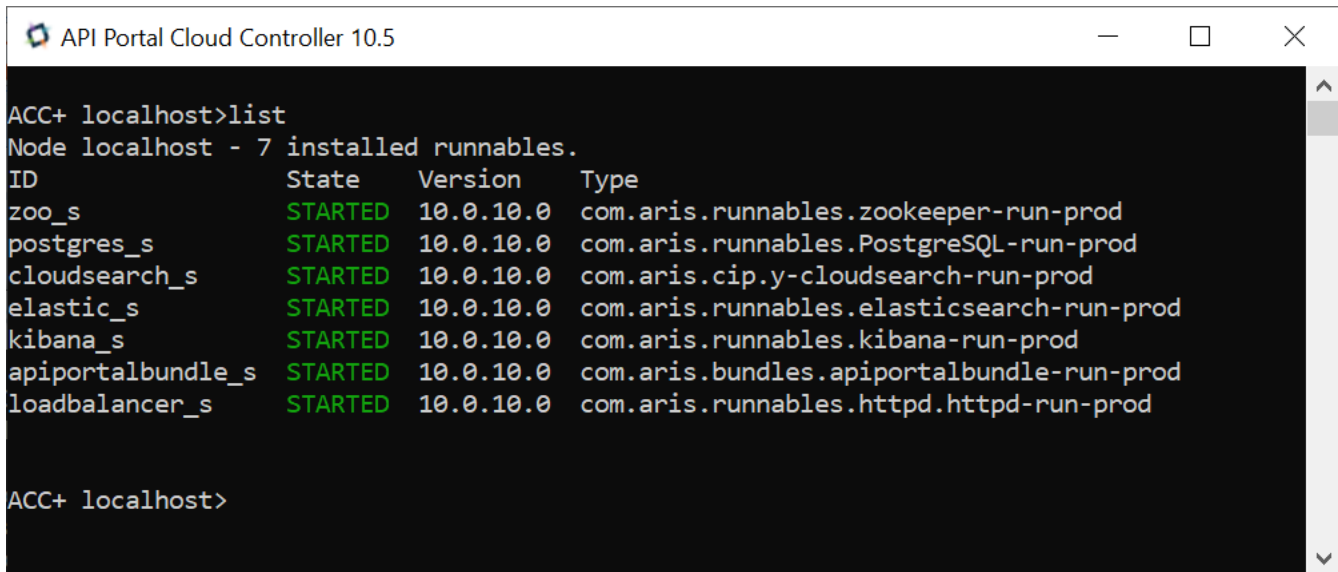
Note: SAGTours demo uses a *technical user* for communications between the different components. It is considered a best practice not to tie critical actions (like publishing of data or APIs) to a real user whose credentials can expire. Hence, the instructions introduce a technical user called **SAG-Tours** to the products.

1.1 Step 1: Install and Configure SAGTours Demo in webMethods API Portal

To install and configure SAGTours demo for webMethods API Portal, follow the outlined procedure:

1. Start the **API Portal Cloud Controller** on the machine where API Portal is installed.
 - On a Windows system, click **Start > All Programs > Software AG > Administration > API Portal Cloud Controller 10.5**
 - On a Linux system, run the script `<installdir>/API_Portal/server/acc/acc.sh -h localhost -p 18011 -u Clous -pwd g3h31m`
2. Start all API Portal server components (runnables).
 - On a Windows system, click **Start > All Programs > Software AG > Start Server > Start API Portal 10.5**
 - On a Linux system, run the script `<installdir>/API_Portal/server/start_api.sh`
3. After the **Start API Portal 10.5** window is closed, ensure all runnables are **started** by executing the `list` command in **ACC** console.
 - On a Windows system, click **Start > All Programs > Software AG > Administration > API Portal Cloud Controller 10.5**
 - On a Linux system, run the script `<installdir>/API_Portal/server/acc/acc.sh -h localhost -p 18011 -u Clous -pwd g3h31m`

Make sure all runnables are in the **STARTED** status, as shown in the following figure, before you continue with the rest of the instructions.



```

ACC+ localhost>list
Node localhost - 7 installed runnables.
ID                State    Version  Type
zoo_s             STARTED  10.0.10.0 com.aris.runnables.zookeeper-run-prod
postgres_s       STARTED  10.0.10.0 com.aris.runnables.PostgreSQL-run-prod
cloudsearch_s    STARTED  10.0.10.0 com.aris.cip.y-cloudsearch-run-prod
elastic_s        STARTED  10.0.10.0 com.aris.runnables.elasticsearch-run-prod
kibana_s         STARTED  10.0.10.0 com.aris.runnables.kibana-run-prod
apiportalbundle_s STARTED  10.0.10.0 com.aris.bundles.apiportalbundle-run-prod
loadbalancer_s   STARTED  10.0.10.0 com.aris.runnables.httpd.httpd-run-prod

ACC+ localhost>

```

It may take a few minutes for all runnables to start. If one or more runnables do not start, see the *webMethods API-Portal Administrator's Guide* for information about working with the runnables.

Note: Make sure that your firewall allows access to the API Portal httpd application.

4. Create a technical user **SAGTours** as follows:

- a. Open a web browser and type the URL of API-Portal: <http://api-portal:18101/umc> (You can change the name of the machine as appropriate.)
- b. Log on using the following credentials:
 - User ID - **system**
 - Password - **manager**

c. Click the **Add user** icon  in the top-right corner.

d. In the **Create User** page, provide the following information:

User name: SAGTours

First name: Technical User

Last name: SAGTours

Description: CentraSite will publish all APIs using this user.





Email address: sagtours@sagtours.com


Specify password: Select the check box to display the **Password** textbox.

Password: manage

Confirm Password: Re-type the password you specified in the above **Password** textbox.

You may select a different password. However, as you create the same user account on Medi-ator and CentraSite, Software AG recommends that you use the same password everywhere.

User Management    User management 

 Back Create user

User name *

First name *

Last name *

Description

E-mail address

Telephone number

Language for notifications

Specify password ☒





Password *


Confirm password *

e. Click **Save**.

5. Assign the **SAGTours** user to the **API Provider** group as follows:

a. Select the **Associated user groups** tab.

User Management    User management 

 Back sagtours - User

Details **Associated user groups** Privileges Attributes Active sessions History

User name

First name

Last name

Description

E-mail address sagtours@sagtours.com

Telephone number

Language for notifications

Last update

Created

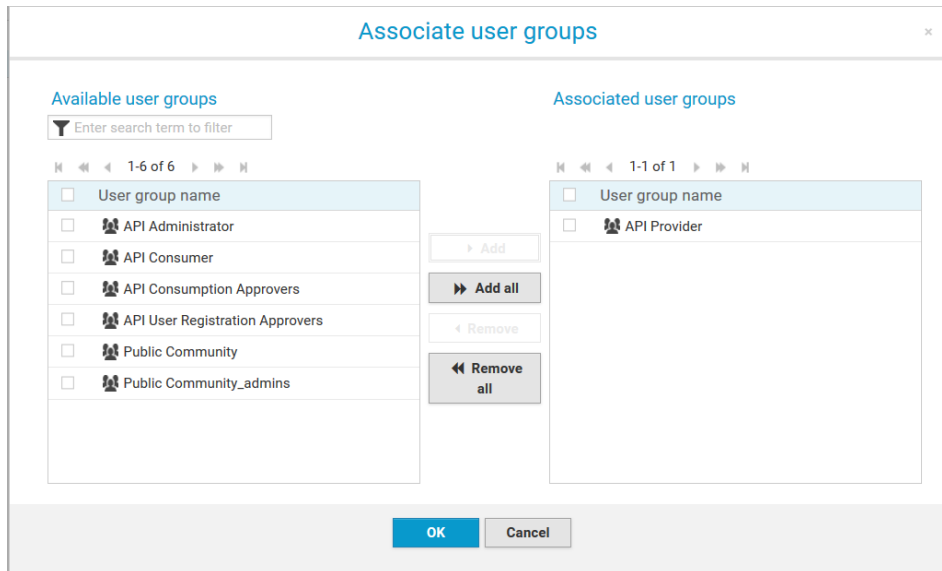
ID

Picture No picture available

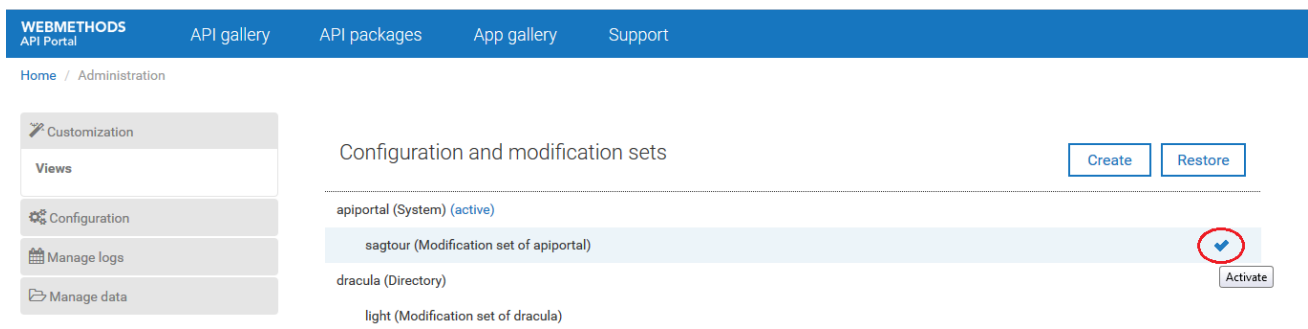
b. Click on the **Edit assignment**  icon in the top-right corner.

c. In the **Associate user groups** dialog box, select the **API Provider** group from the **Available user groups** section.

d. Click **Add** to move the selected **API Provider** group to the **Assigned user groups** section.



- e. Click **OK**.
6. Test if SAGTours demo is now available in API Portal by typing the URL: <http://APIPortal:18101/#default/home>
 - a. Log on to API Portal as **system** user
 - b. Navigate to **Administration** page.
 - c. Activate **sagtour** configuration set.



If the API Portal landing page is not displayed, clear the cache of the web-browser and try again.

1.2 Step 2: Install and Configure SAGTours Demo in CentraSite

Note: Before you start, ensure that you have the latest version of Java JDK 1.8.* installed on your machine.

The SAGTours demo for CentraSite is implemented in the following stages:

1. Load the demo environment.
2. Create an API Portal definition for communication between CentraSite and API Portal.

3. Create a Mediator or API Gateway definition for communication between CentraSite and Mediator or API Gateway.
4. Reconfigure endpoints for the REST APIs that were loaded with the demo environment.
5. Publish the APIs to Mediator or API Gateway and API Portal.

To install and configure SAGTours Demo for CentraSite, follow the outlined procedure:

1. Setup the SAGTours Demo environment.

Use the command line interface `installSAGTours.cmd` (Windows) and run as administrator or `installSAGTours.sh` (UNIX) to set up the demo environment and run as administrator. The **`installSAGTours`** script is located in the directory `<CentraSiteInstallDir>\CentraSite\demos\API-Management\SAGTours`.

2. Enable RuntimeComponentSetting.

Navigate to the `centrasite.xml` located in the directory `<CentraSiteInstallDir>\CentraSite\cast\cswebapps\BusinessUI\system\conf` and locate the `RuntimeComponentSetting` setting in the file and set its value to `true`.

Executing this script sets up the demo environment by:

- Creating a set of users, namely, Sumala, Bob, Andy, and SAGTours in the INTERNAL user repository that is used by CentraSite. (If these users already exist in the repository, the script deletes and recreates them.)
- Importing the organization SAGTours.
- Adding some concepts to the taxonomy **API Grouping** (these are used by the demo to categorize the APIs that we load).
- Loading the REST APIs.
- Building and installing the REST APIs. (These are Java JAX-RS services that we load into the Tomcat delivered by the Software AG Runtime).

Note: The `installSAGTours` script must use the CentraSite Administrator user to perform actions. The property file `build.properties` in the `archives` directory contains the user name and password of the Administrator. Change these as required.

3. Create an API Portal definition in CentraSite Business UI as follows:

- a. Open a web browser and type the URL of CentraSite Business UI `http://sagtours:53307/BusinessUI` (You can change the name of the machine as appropriate)
- b. Log on as user Andy using the credentials:
Username - Andy
Password - manage

Note: When the installation script loads the SAGTours demo environment, the user **Andy** is given the appropriate permissions within the SAGTours Organization to create an API Portal gateway definition.

- c. Click **Governance Rules**.

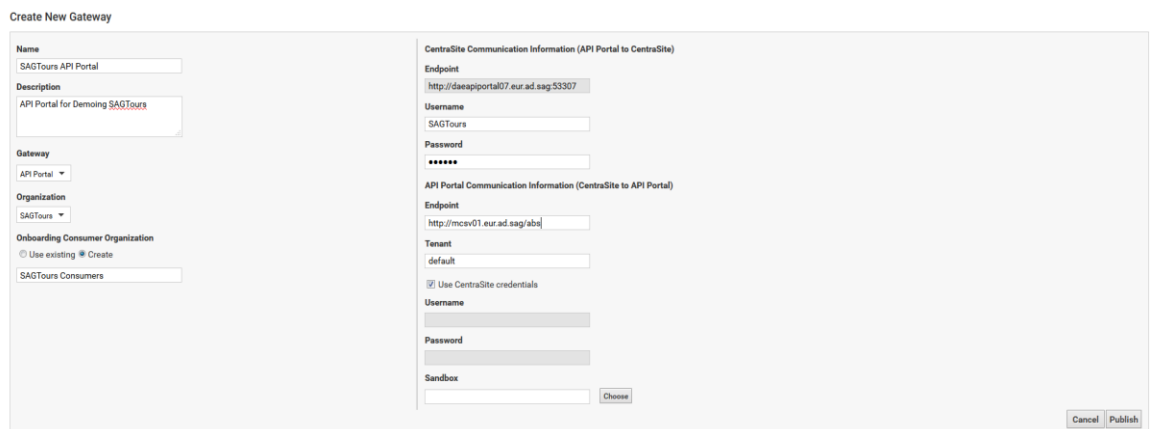
d. Click **Add Gateway** .

e. In the **Create New Gateway** wizard, provide the following information:

- **Name:** SAGTours API Portal
- **Description:** API Portal for demoing SAG Tours
- **Gateway:** API Portal
- **Organization:** SAGTours
- **Onboarding Consumer Organization:** Select **Create**. Type the name of the new organization as SAGTours Consumers.
- **CentraSite Communication Information (API Portal to CentraSite)**
 - **Endpoint:** Read-only. By default, the **Endpoint** value is configured in CentraSite Business UI. If you are unable to connect to the specified endpoint, contact your Administrator for assistance.
 - **Username:** SAGTours
 - **Password:** manage
- **API Portal Communication Information (CentraSite to API Portal)**
 - **Endpoint:** <http://api-portal:18101/abs> (You can manage the URL of the endpoint as appropriate.)

Note: Ensure that you provide the fully qualified name of the machine where webMethods API Portal is installed.

- **Tenant:** default
- **Use CentraSite credentials:** Select the checkbox to enable the reuse of the CentraSite credentials for authenticating against API Portal.



f. Click **Publish** to register the API Portal gateway with CentraSite.

4. Modify endpoints for the REST and virtual APIs of the demo using one of the following procedures:

Note: If you are unable to run through the Procedure 1 in your demo environment, use Procedure 2.

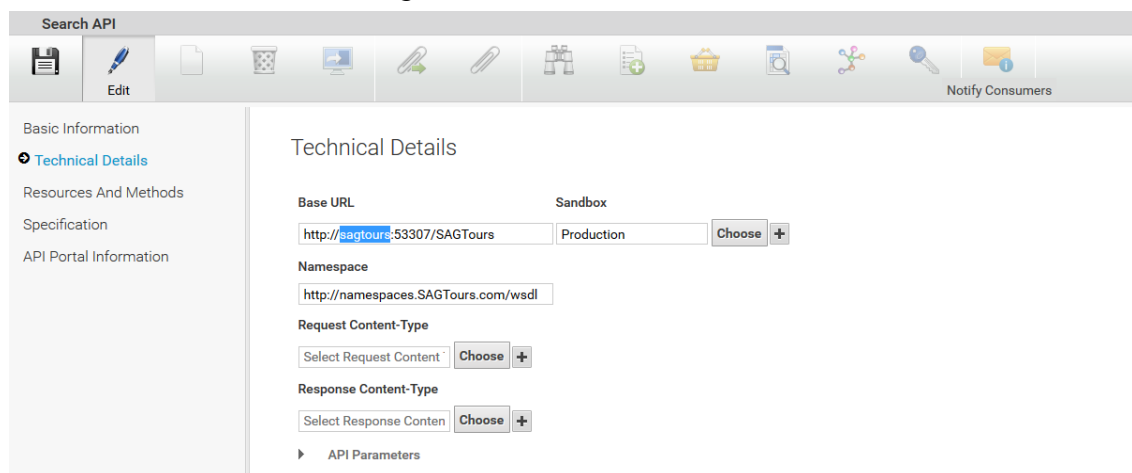
- **Procedure 1: Add an alias to etc/hosts**

Add an alias to `etc/hosts` for the API Portal, CentraSite, and Mediator systems that add the alias **sagtours** with IP address where CentraSite is installed. This procedure is the simplest and avoids modifying of the endpoints in CentraSite before publishing them to Mediator and API Portal gateways.

- **Procedure 2: Modify endpoints in CentraSite for the REST and Virtual APIs**

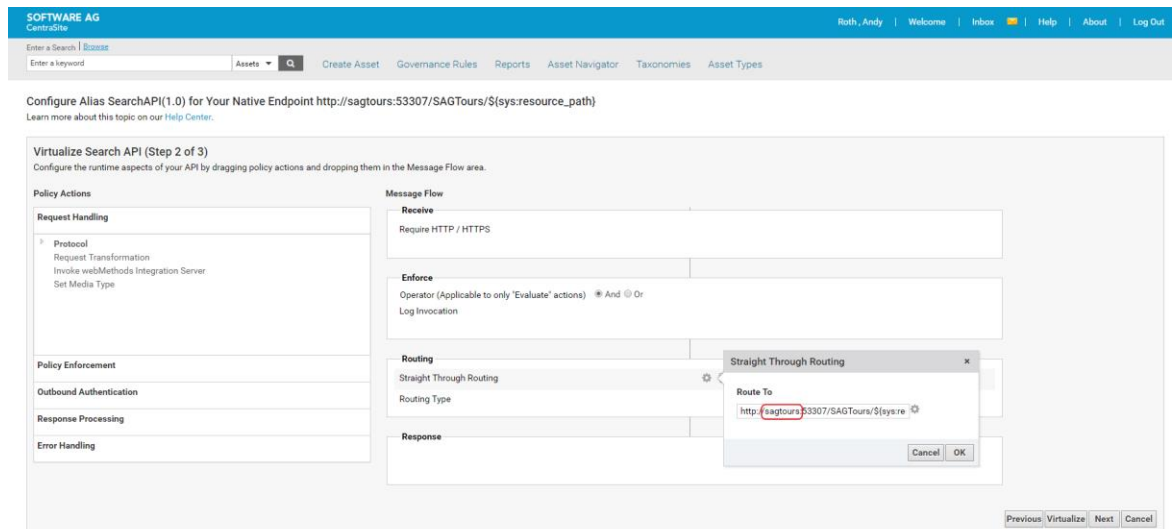
- Open your web browser and type the URL of CentraSite Business UI <http://sagtours:53307/BusinessUI> (You can change the name of the machine as appropriate.)
- Log in as the user Sumala (Username **Sumala**, password **manage**).
- For each of the following REST APIs in the SAGTours demo, modify the endpoints as required:
 - Search API
 - Booking API
 - Sign-up API
- To modify the endpoint for an API, search or browse for that particular API. Edit the Base URL information on the details page of the API to use the alias **sagtours** with IP address where CentraSite is installed.

The following screenshot shows the Search API details page, wherein the Base URL information needs to be changed.



- Log off user **Sumala** from CentraSite Business UI.
- Log on as the user **Andy** (Username **Andy**, Password **manage**) and change the routing endpoints for each of the following virtual REST APIs using the configured Straight Through Routing action:
 - Search API
 - Bookings API
 - Sign-up API

The following screenshot shows the Search API Alias page where the routing endpoints have to be changed.



1.3 Step 3: Install and Configure SAGTours Demo in webMethods Mediator

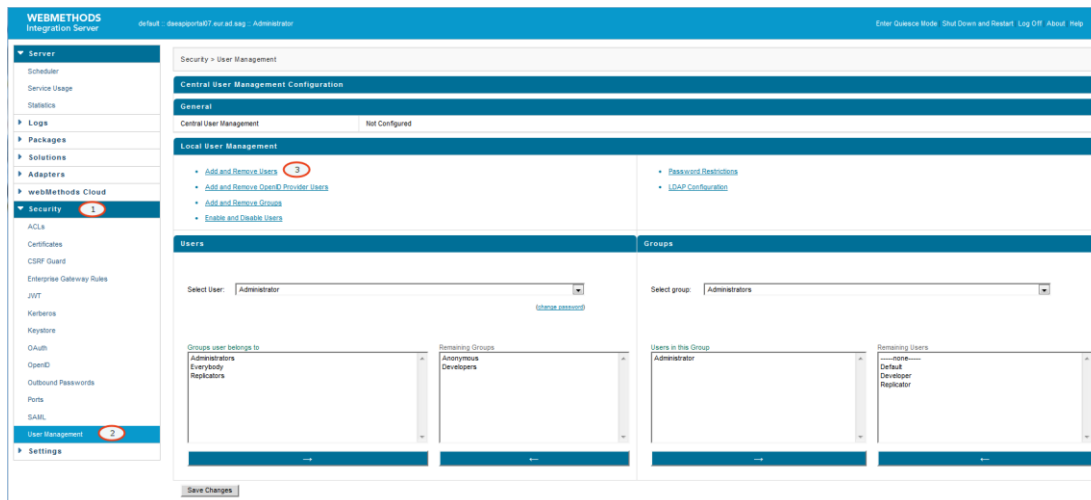
Note: Skip this section if webMethods Mediator is not used.

The SAGTours demo for Mediator is implemented in the following stages:

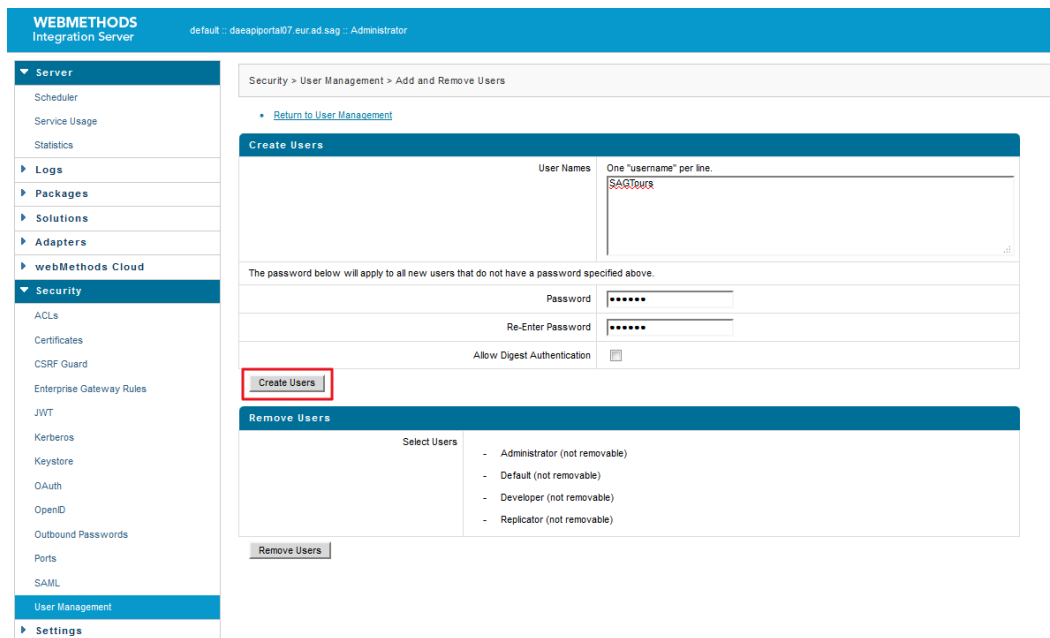
1. Create the SAGTours technical user in Integration Server or Mediator and add it to the Administrators group.
2. Create a Mediator gateway.
3. Publish the APIs to Mediator and API Portal gateways.

To install and configure SAGTours demo for webMethods Mediator, follow the outlined procedure:

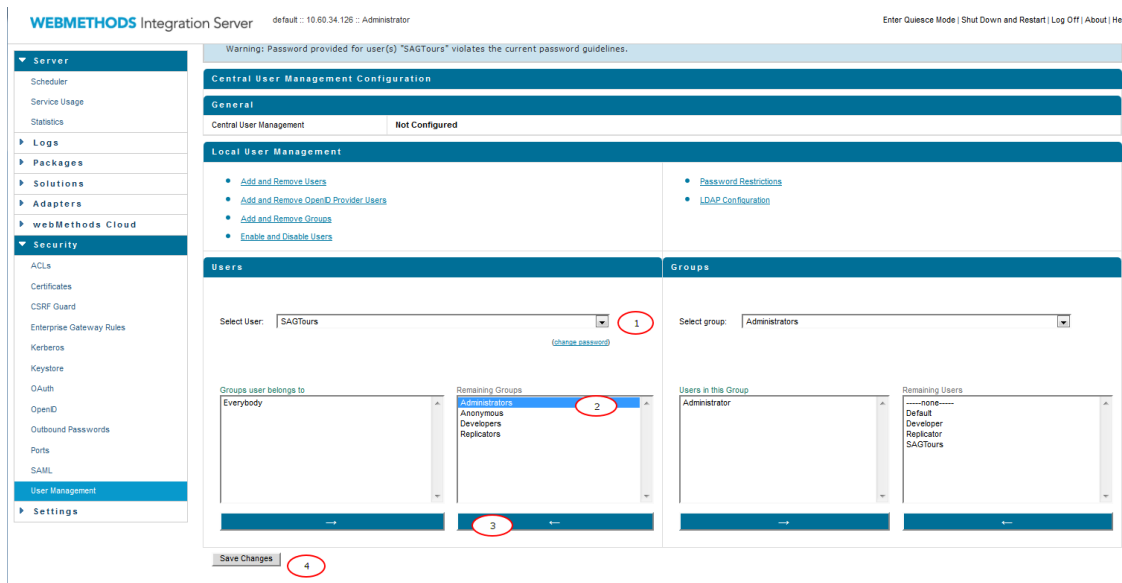
1. Create the SAGTours user in Mediator.
 - a. Open a web browser and type the URL of Integration Server Administrator <http://sagtours:5555> (You can change the name of the machine as appropriate.)
 - b. Select **Security > User Management** in the left navigation pane.
 - c. In the **Local User Management** section, select **Add and Remove Users**.



- d. Create a new user **SAGTours** with password **manage** in the user repository.



- e. Add the newly created user **SAGTours** to the **Administrators** group. This setting is used by CentraSite when publishing APIs to the Mediator gateway.



f. Click **Save Changes**.

2. Create a Mediator gateway by following the outlined procedure:

a. Open a web browser and type the URL of CentraSite Business UI

<http://sagtours:53307/BusinessUI> (You can change the name of the machine as appropriate.)

b. Log on as CentraSite Administrator.

c. Click **Governance Rules**.

d. Click **Add Gateway** .

e. In the **Create New Gateway** wizard, provide the following information:

- **Name:** SAGTours-Mediator
- **Description:** Mediator for SAGTours Demo
- **Gateway:** Mediator
- **Organization:** SAGTours
- **CentraSite Communication Information (Mediator to CentraSite)**
 - **Endpoint:** Read-only. By default, the endpoint value is configured in CentraSite Business UI. If you are unable to connect to the specified endpoint, contact your Administrator for assistance.
 - **Username:** Administrator
 - **Password:** manage
- **Mediator Communication Information (CentraSite to Mediator)**
 - **Endpoint:** <http://sagtours:5555> customize as appropriate.

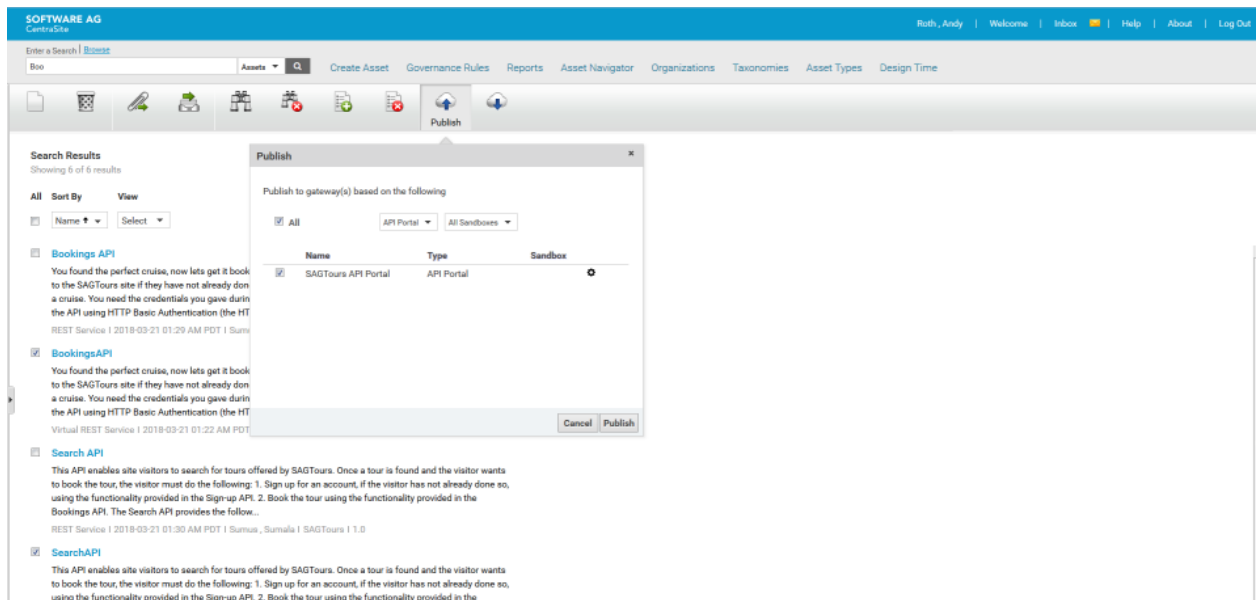
Note: Ensure that you provide the fully qualified name of the machine where webMethods Mediator is installed.

- **Username:** SAGTours

- **Password:** manage
- **Sandbox:** Production

- Click **Publish** to register the Mediator gateway with CentraSite.
 - If the registration is successful, log off from CentraSite. If you encounter any connection errors, review the Mediator settings and try again.
- Publish the APIs to Mediator and API Portal gateways by the following outline procedure:
 - Go to CentraSite Business UI (<http://sagtours:53307/BusinessUI>) (you can change the name of the machine as appropriate), and log in as Andy (Username **Andy**, password **manage**)
 - Publish the virtual REST APIs, Search API, Booking API, and Sign-up API, to Mediator gateway.

- After successfully publishing to Mediator gateway, publish the virtual REST APIs to API Portal gateway.



- d. After publishing all the virtual REST APIs to Mediator and API Portal gateways, log off from CentraSite.

1.4 Step 4: Install and Configure SAGTours Demo in webMethods API Gateway

The SAGTours demo for API Gateway is implemented in the following stages:

1. Create the **SAGTours** technical user in API Gateway.
2. Create an API Gateway instance.
3. Publish the APIs to API Gateway and API Portal gateways.

To install and configure SAGTours demo for API Gateway, perform the following actions:

1. Create the **SAGTours** user in API Gateway.
 - a. Open a web browser and type the URL of API Gateway <http://sagtours:9072> (You can change the name of the machine as appropriate.)
Log on as **Administrator** using **manage** as the password.
 - b. Click the **User** icon on the top-right corner of the screen.
 - c. Select **User management**.
 - d. In the **User management** section, click **Add user**.
 - e. Create a new user **SAGTours** with password **manage** in the user repository.

WEBMETHODS
API Gateway

APIs Policies Applications Packages

Home > User Management > Create User

Create User
Create an user by providing the basic information and adding the required groups.

User details

Basic information

Groups

Login ID*
SAGTours

First name
SAGTours

Last name
Technical User

Password*
•••••

Confirm password*
•••••

Email addresses
+ Add

☐ Allow digest authentication

[Continue to associate Groups](#)

Cancel Save

- f. Add the newly created user **SAGTours** to the **API-Gateway-Administrators** group. This setting is used by CentraSite when publishing APIs to API Gateway.

WEBMETHODS
API Gateway

APIs Policies Applications Packages

Home > User Management > Create User

Create User
Create an user by providing the basic information and adding the required groups.

User details

Basic information

Groups


Find groups

Name
Ad

Name	Action
API-Gateway-Administrators	Add

Cancel Save

- g. Click **Save Changes**.

2. Create an API Gateway instance by following the outlined procedure:
 - a. Open a web browser and type the URL of CentraSite Business UI <http://sagtours:53307/BusinessUI> (You can change the name of the machine as appropriate.)
 - b. Log on as CentraSite Administrator.
 - c. Click **Governance Rules**.
 - d. Click **Add Gateway** .
 - e. In the **Create New Gateway** wizard, provide the following information:
 - o **Name:** SAGTours-API Gateway

- **Description:** API Gateway for SAGTours Demo
- **Gateway:** API Gateway
- **Organization:** SAGTours
- **CentraSite Communication Information (API Gateway to CentraSite)**
 - **Endpoint:** Read-only. By default, the **Endpoint** value is configured in CentraSite Business UI. If you are unable to connect to the specified endpoint, contact your Administrator for assistance.
 - **Username:** Administrator
 - **Password:** manage
- **API Gateway Communication Information (CentraSite to API Gateway)**
 - **Endpoint:** `http://sagtours:5555` customize as appropriate.

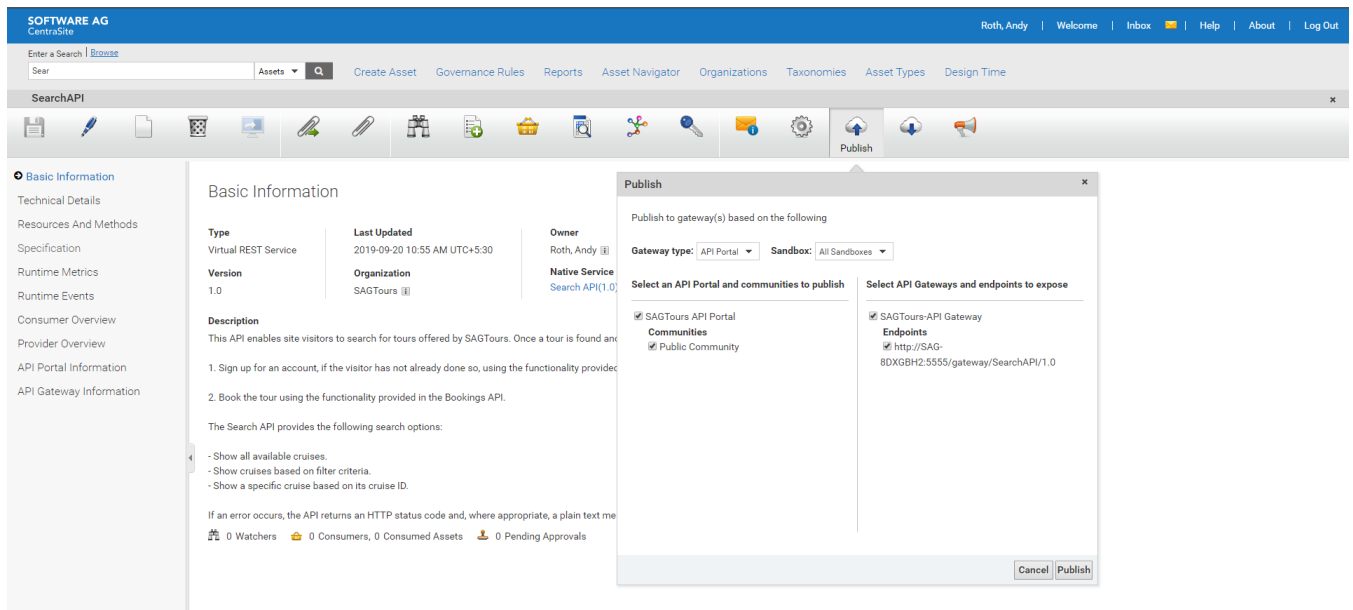
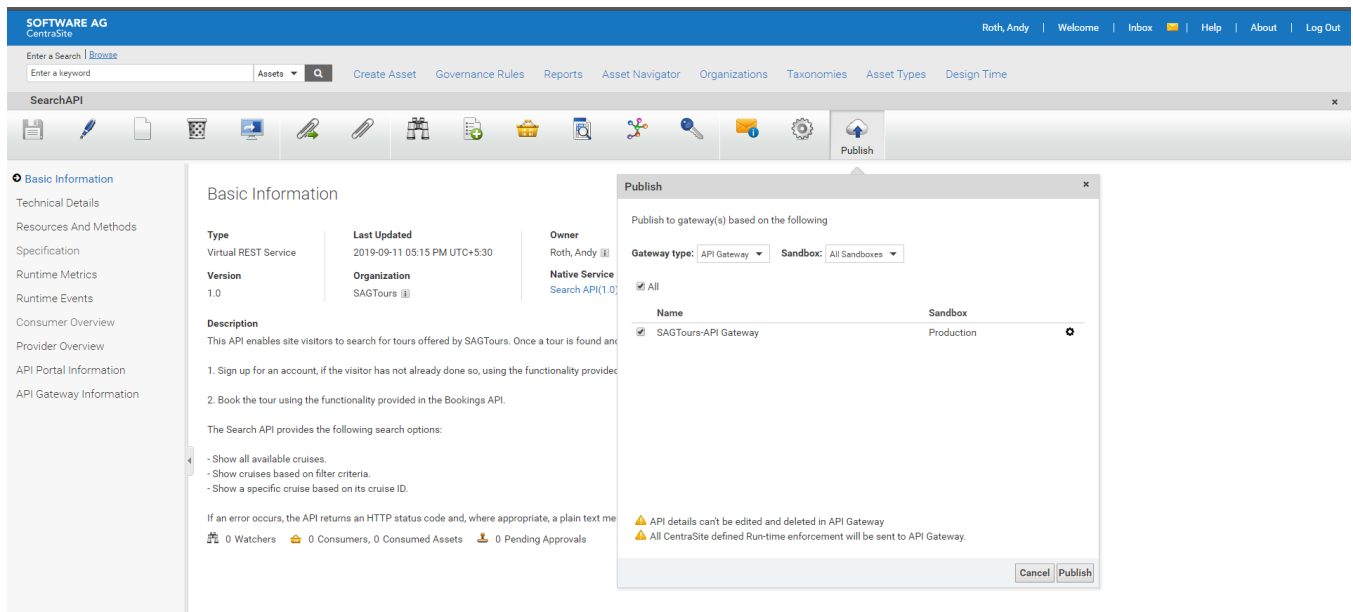
Note:

Ensure that you provide the fully qualified name of the machine where weMethods Mediator is installed.

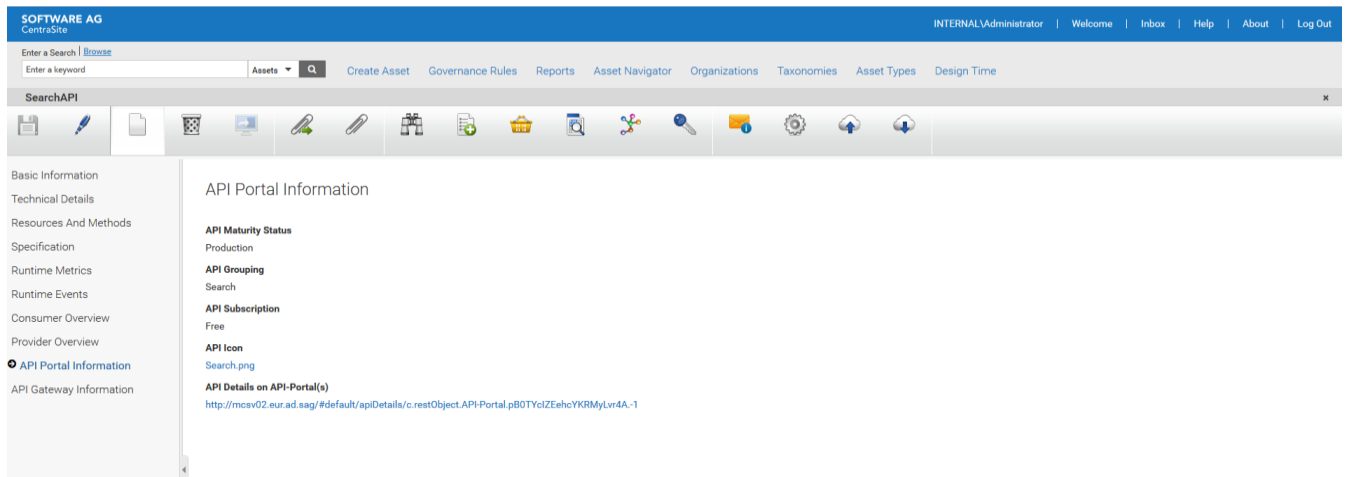
The API Gateway WebApp URL depends on the load balancer only (optional)

- **Username:** SAGTours
- **Password:** manage
- **Sandbox:** Production

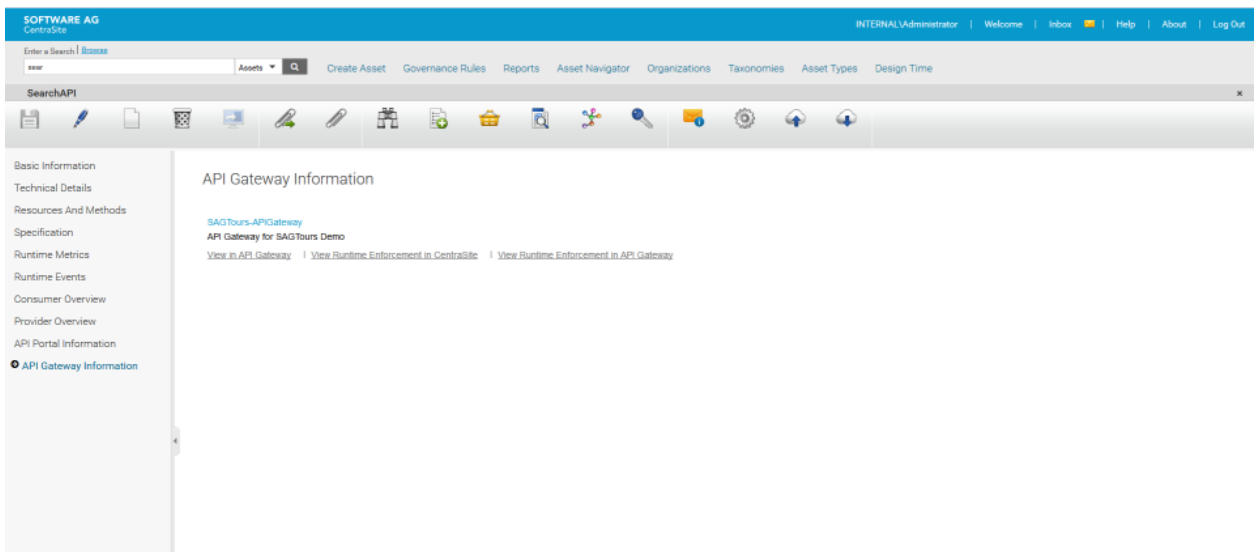
- f. Click **Publish** to register the API Gateway with CentraSite.
- g. If the registration is successful, log off from CentraSite. If you encounter any connection errors, review the API Gateway settings and try again.
3. Publish the APIs to API Gateway and API Portal gateways by performing the following actions:
 - a. Go to CentraSite Business UI (<http://sagtours:53307/BusinessUI>) (you can change the name of the machine as appropriate), and log in as Andy (username **Andy**, password **manage**)
 - b. Publish the following virtual REST APIs to the API Gateway instance:
 - Search API
 - Booking API
 - Sign-up API



- c. After successful publishing of the APIs to the API Portal, go to the API Portal Information profile.



- d. After successfully publishing of the APIs to API Gateway, go to the API Gateway Information profile.



- e. Click **View** in the API Gateway link to view the API details from API Gateway.

The screenshot shows the API Gateway console interface. At the top, there's a navigation bar with tabs for WEBSMETHODS, API Gateway, APIs, Policies, Applications, and Packages. The main content area is titled 'SearchAPI' and includes a sidebar with links for Basic information, Technical information, Resources and methods, API mocking, and Documentation. The 'Basic information' tab is selected, displaying details such as Name (SearchAPI), Version (1.0), Owner (SAGTours), Active status (Yes), Maturity state (Beta), and Created date (2018-03-21 09:27:50 GMT). A description explains that the API enables site visitors to search for tours offered by SAGTours. Below this, there's a section for 'Technical information' listing native and gateway endpoints. At the bottom, there's a section for 'Resources and methods'.

- f. After publishing all the virtual REST APIs to API Gateway and API Portal gateways, log off from CentraSite.

1.5 Step 5: Verify Contents in API Portal

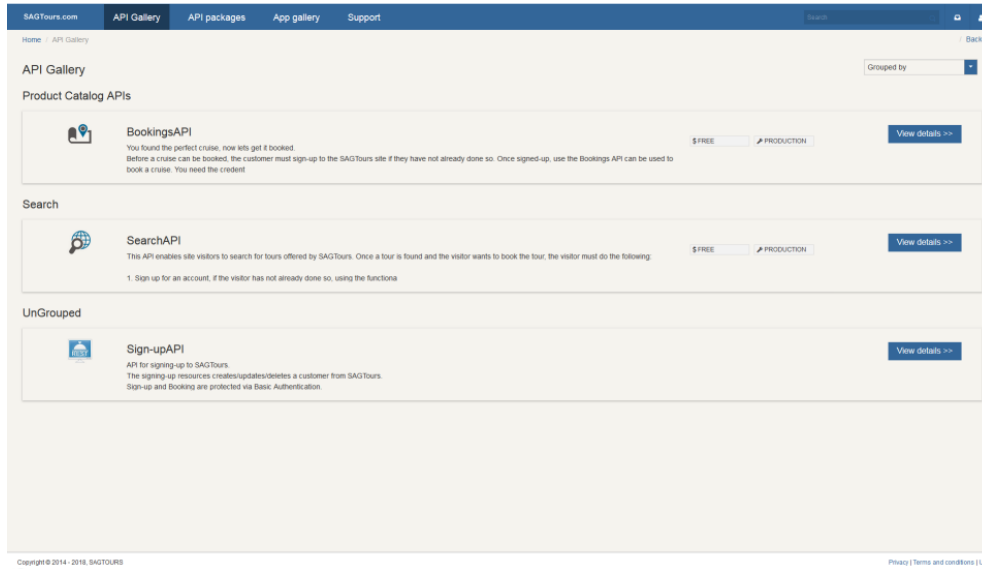
Ensure that API Portal is displaying the demo content correctly by performing the following actions:

1. In a web browser, go to API Portal by typing the URL <http://api-portal:18101/#sagtours/home> (you can change the name of the machine as appropriate).

The following image shows the landing page of the demo with some of the customization capabilities of API Portal.

The screenshot shows the landing page of the SAGTours Developer Site. The header includes navigation links for SAGTours.com, API Gallery, API packages, App gallery, and Support. The main content area features a large image of a beach with the text 'WELCOME TO SAGTOURS DEVELOPER SITE' and a subheading 'Explore the APIs we offer to support your App development'. Below this, there are three columns of text: 'What is SAGTours Developer Community?', 'Register for free', and 'Need Support?'. The footer contains copyright information and links to Privacy, Terms and conditions, and Up.

2. Click **API Gallery** to see the list of demo APIs.



This completes the installation and configuration of SAGTours demo.

Note: For information on how to create a customized API Portal, see the *webMethods API Portal Customization Guide*.