

SAGTours Demo

Installation and Configuration Guide

Version 10.1

October 2017

This document applies to SAGTours Demo 10.1 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.

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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.

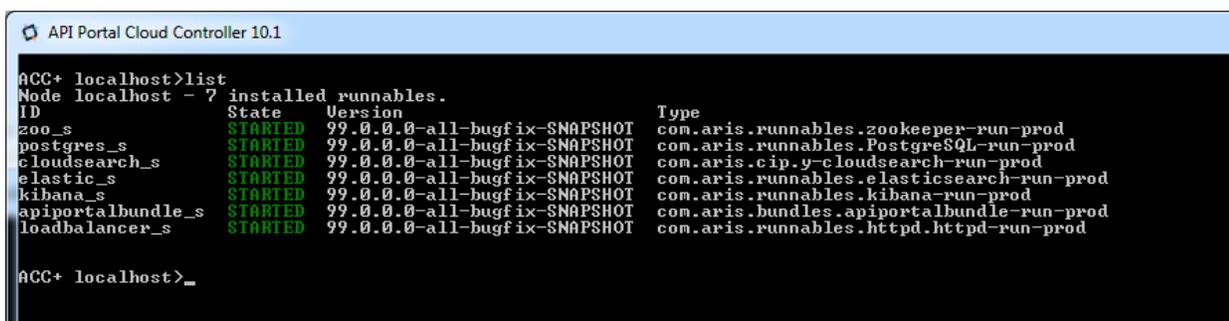
Note: SAGTours demo uses a *technical user* for communications between the different components. It is considered a best practice not to tie critical actions (like publishing of data or APIs) to a real user whose credentials can expire. Hence, the instructions introduce a technical user called **SAG-Tours**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

- 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 10.1**
 - On a Linux system, run the script `<installdir>/API_Portal/server/acc/acc.sh -h localhost -p 18007 -u Clous -pwd g3h31m`
- Start all API Portal server components (runnables).
 - On a Windows system, click **Start > All Programs > Software AG > Start Server > Start API Portal 10.1**
 - On a Linux system, run the script `<installdir>/API_Portal/server/acc/acc.sh -h localhost -p 18007 -u Clous -pwd g3h31m`
- 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 10.1**
 - On a Linux system, run the script `<installdir>/API_Portal/server/acc/acc.sh -h localhost -p 18007 -u Clous -pwd g3h31m`

Make sure all runnables have the status as STARTED, as shown in the following figure, before you continue with the remaining instructions.



```

API Portal Cloud Controller 10.1
ACC+ localhost>list
Node localhost - 7 installed runnables.
ID          State  Version                                     Type
zoo_s       STARTED  99.0.0.0-all-bugfix-SNAPSHOT             com.aris.runnables.zookeeper-run-prod
postgres_s  STARTED  99.0.0.0-all-bugfix-SNAPSHOT             com.aris.runnables.PostgreSQL-run-prod
cloudsearch_s  STARTED  99.0.0.0-all-bugfix-SNAPSHOT             com.aris.cip.y-cloudsearch-run-prod
elastic_s   STARTED  99.0.0.0-all-bugfix-SNAPSHOT             com.aris.runnables.elasticsearch-run-prod
kibana_s    STARTED  99.0.0.0-all-bugfix-SNAPSHOT             com.aris.runnables.kibana-run-prod
apiportalbundle_s  STARTED  99.0.0.0-all-bugfix-SNAPSHOT             com.aris.bundles.apiportalbundle-run-prod
loadbalancer_s  STARTED  99.0.0.0-all-bugfix-SNAPSHOT             com.aris.runnables.httpd.httpd-run-prod

ACC+ localhost>_

```

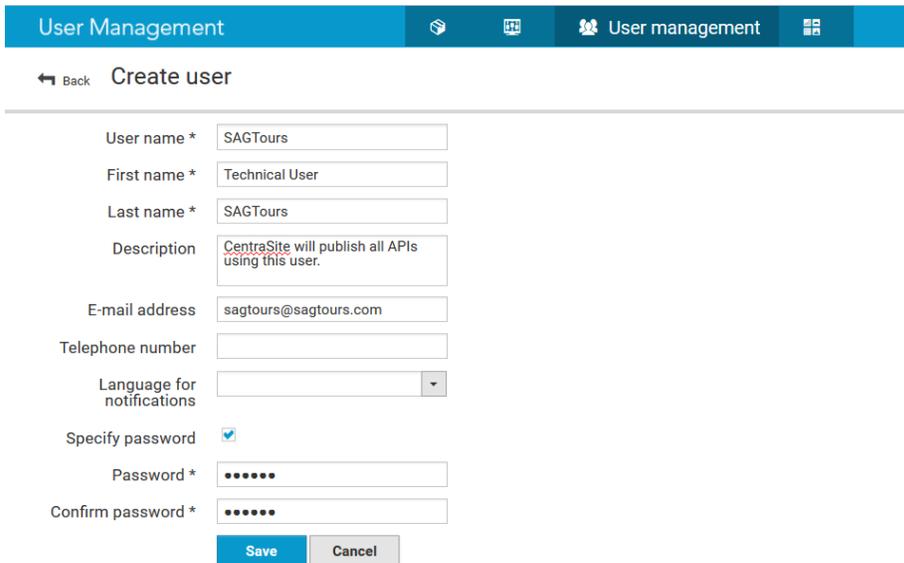
It may take a few minutes for all runnables to start. If one or more runnables do not start, see the *webMethods API-Portal Administrator's Guide* for information about working with the runnables.

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 default user ID, **system**, and 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 Mediator and CentraSite, it is recommended that you have the same password everywhere.
 - e. Click **Save**.



The screenshot shows the 'Create user' form in the API Portal. The form is titled 'User Management' and 'Create user'. It contains the following fields and values:

- User name *: SAGTours
- First name *: Technical User
- Last name *: SAGTours
- Description: CentraSite will publish all APIs using this user.
- E-mail address: sagtours@sagtours.com
- Telephone number: (empty)
- Language for notifications: (dropdown menu)
- Specify password:
- Password *: (masked with dots)
- Confirm password *: (masked with dots)

At the bottom of the form, there are two buttons: 'Save' (highlighted in blue) and 'Cancel'.

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

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

User Management

Back sagtours - User

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

User name: sagtours

First name: Technical User

Last name: SAGTours

Description: CentraSite will publish all APIs using this user.

E-mail address: sagtours@sagtours.com

Telephone number:

Language for notifications:

Last update: 2017-09-12, 15:19:28

Created: 2017-09-12, 15:19:27

ID: d3ebefc6-2981-3b46-bc86-9d0a4f

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.

Associate user groups

Available user groups

Enter search term to filter

1-6 of 6

User group name

API Administrator

API Consumer

API Consumption Approvers

API User Registration Approvers

Public Community

Public Community_admins

Associated user groups

1-1 of 1

User group name

API Provider

Add

Add all

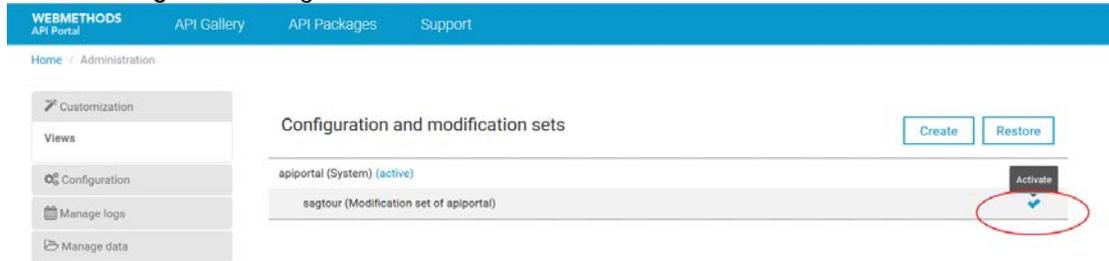
Remove

Remove all

OK Cancel

- e. Click **OK**.
6. Test if SAGTours demo is now available in API Portal by typing the URL: <http://API Portal: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 web-browser's cache 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) or `installSAGTours.sh` (UNIX) to set up the demo environment. The `installSAGTours` script is located in the directory `<CentraSiteInstallDir>/CentraSite/demos/API-Management/SAGTours`.

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 API we load the APIs).
- 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 directory `archives` contains the user name and password of the Administrator. Do change these as required.

2. Create an API Portal definition in CentraSite Business UI.
 - 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:
 - o **Name:** SAGTours API Portal
 - o **Description:** API Portal for demoing SAG Tours
 - o **Gateway:** API Portal
 - o **Organization:** SAGTours
 - o **Onboarding Consumer Organization:** Select **Create**. Type the name of the new organization as SAGTours Consumers.
 - o **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
 - o **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
- **User 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.

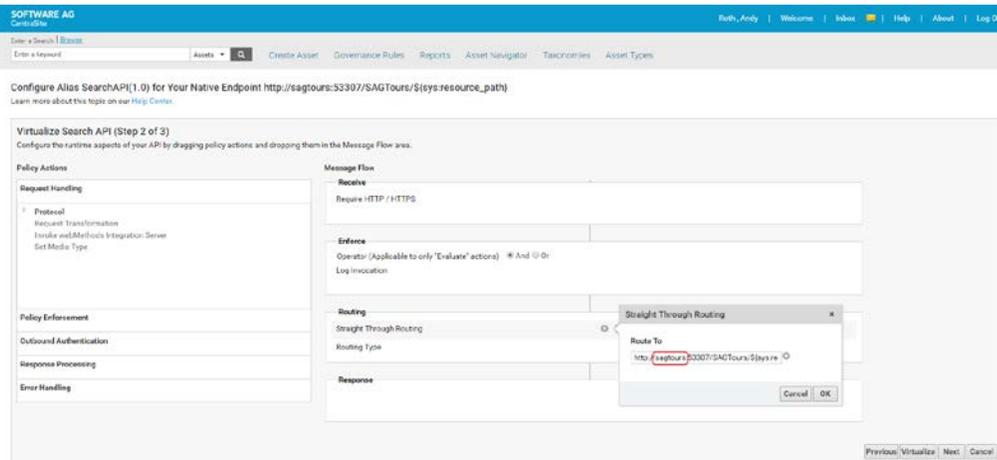
3. Modify endpoints for the demo's REST and virtual APIs using one of the following procedures:

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/host
 - Add an alias to `etc/hosts` for the API Portal, CentraSite, and Mediator system that add the alias `sagtours` with IP address where CentraSite is installed. This procedure is the simplest and avoids modifying endpoints in CentraSite before publishing them to Mediator and API Portal gateways.
- **Procedure 2:** Modify endpoints in CentraSite
 - a. 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.)
 - b. Log in as the user Sumala (Username **Sumala**, password **manage**).
 - c. For each of the three REST APIs the SAGTours demo, Search API, Booking API, and Sign-up API, modify the endpoints as required.
 - d. To modify the endpoint for an API, search or browse for that particular API. Edit the Base URL information on the API's details page to use the alias `sagtours` with IP address where CentraSite is installed. The screenshot shows the Search API details page, wherein the Base URL information needs to be changed.

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

The screen shot shows the Search API Alias page where the routing endpoints need to be changed.



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

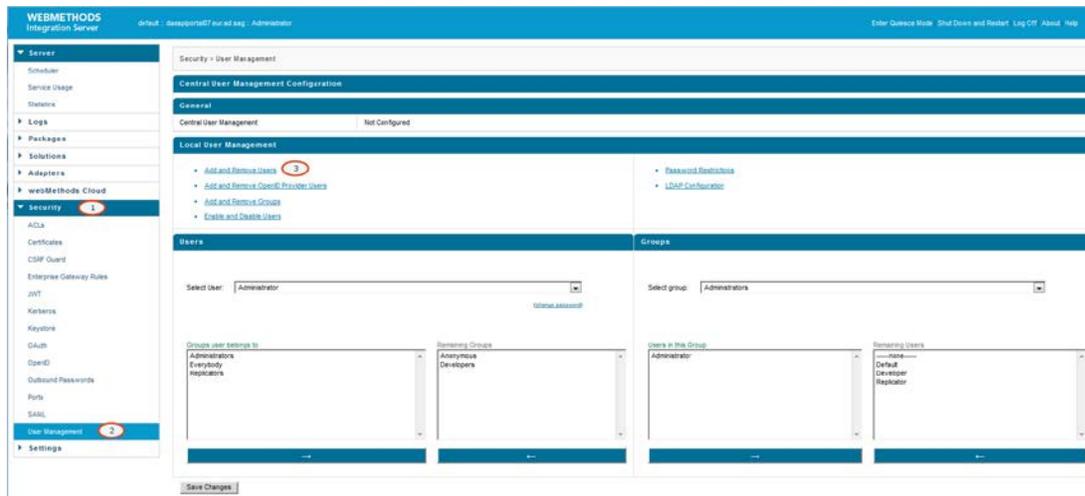
Note: Skip this section if webMethods Mediator is not used.

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

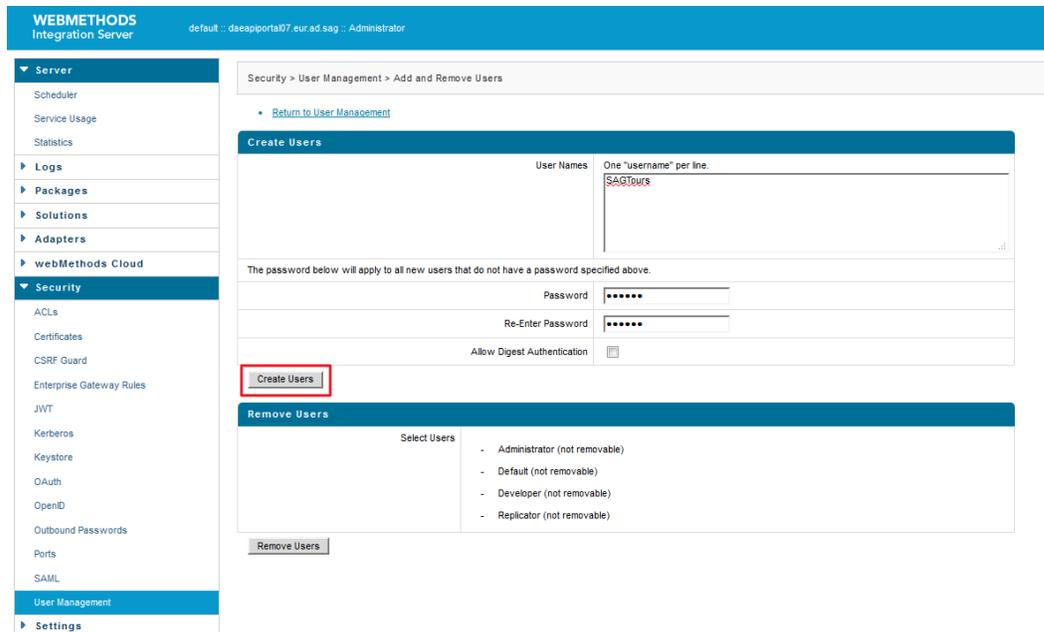
1. Create the SAGTours technical user in Integration Server or Mediator and add it to the Administrators group.
2. Create a Mediator gateway.
3. Publish the APIs to Mediator and API Portal gateways.

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

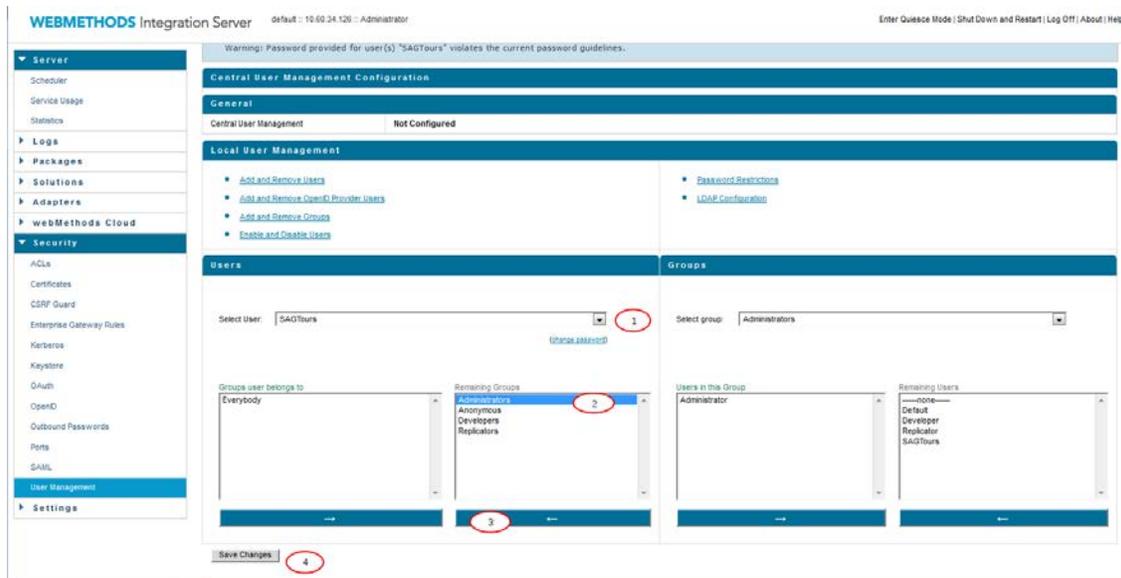
1. Create the SAGTours user in Mediator.
 - a. Open a web browser and type the URL of Integration Server Administrator `http://sagtours:5555` (You can change the name of the machine as appropriate.)
 - b. Select **Security > User Management** in the left navigation pane.
 - c. In the **Local User Management**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

- o **Name:** SAGTours-Mediator
- o **Description:** Mediator for SAGTours Demo
- o **Gateway:** Mediator
- o **Organization:** SAGTours
- o **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
- o **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.

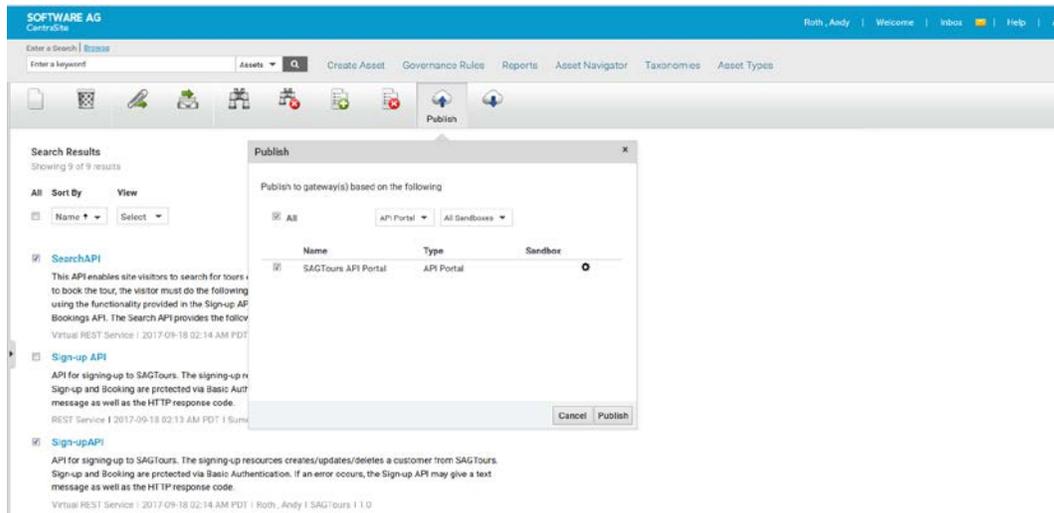
- **Username:** SAGTours

- Password: manage
- Sandbox: Production

- f. Click **Publish** to register the Mediator gateway with CentraSite.
 - g. If the registration is successful, log off from CentraSite. If you encounter any connection errors, review the Mediator settings and try again.
3. Publish the APIs to Mediator and API Portal gateways by the following outline procedure:
 - 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 virtual REST APIs, Search API, Booking API, and Sign-up API, to Mediator gateway.

| Name | Type | Sandbox |
|-------------------|----------|------------|
| SAGTours-Mediator | Mediator | Production |

- c. 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:

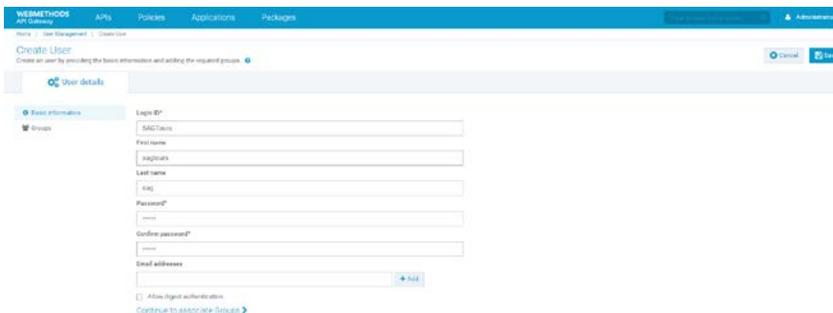
1. Create the SAGTours technical user in API Gateway.
2. Create an API Gateway instance.
3. Publish the APIs to Mediator and API Portal gateways

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

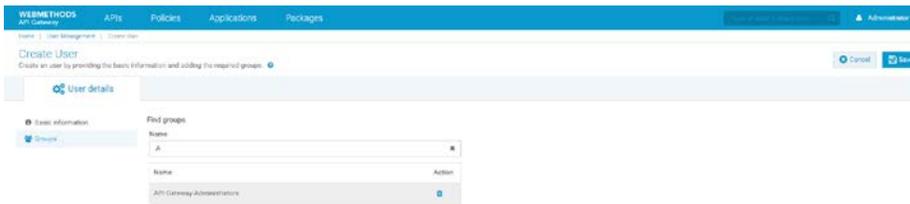
1. Create the SAGTours user in API Gateway.
 - a. Open a web browser and type the URL of API Gateway `http://sagtours:9072` (You can change the name of the machine as appropriate.)
Login as Administrator using manage as password.
 - b. Click **Administrator** > **User Management** in the right top corner.
 - c. In the **User Management** section, click **Add Users**.



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



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



- f. Click **Save Changes**.

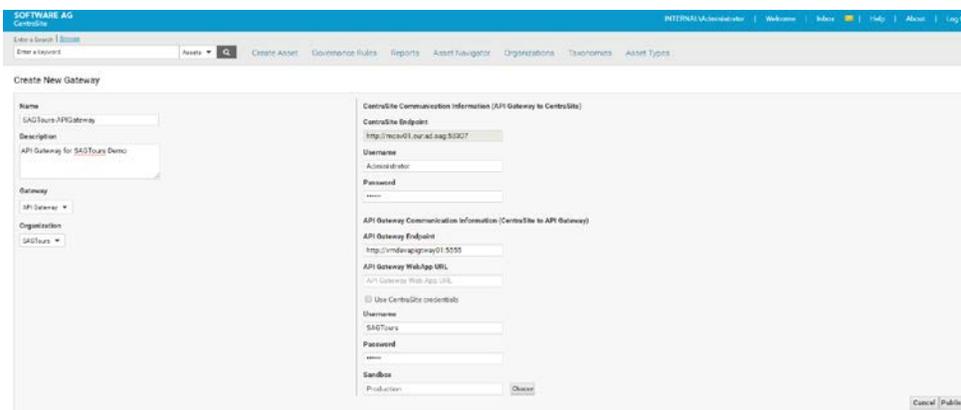
2. Create an API Gateway instance by following the outlined procedure:
 - a. Open a web browser and type the URL of CentraSite Business UI `http://sagtours:53307/BusinessUI` (You can change the name of the machine as appropriate.)
 - b. Log on as CentraSite Administrator.
 - c. Click **Governance Rules**.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

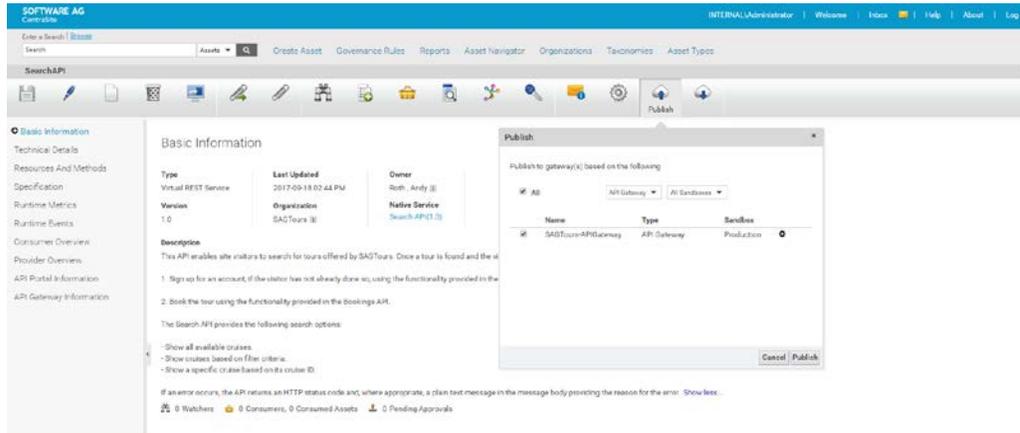
The API Gateway WebApp URL depends on the load balancer only (optional)

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

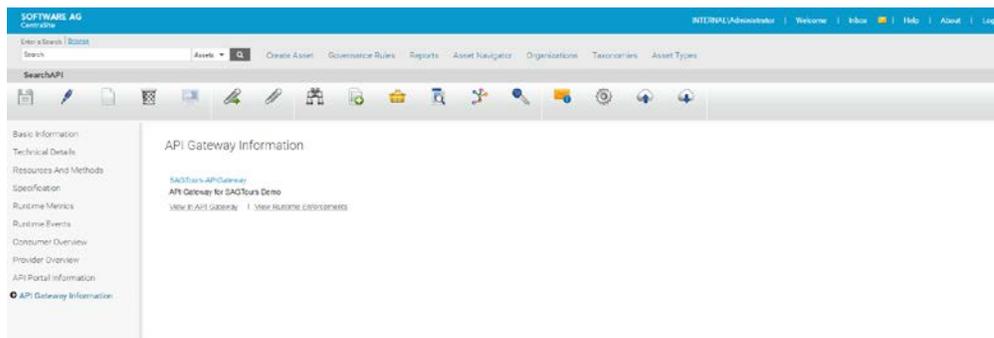


- f. Click **Publish** to register the API Gateway with CentraSite.

- 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 following the outlined procedure:
 - 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 virtual REST APIs, Search API, Booking API, and Sign-up API, to the API Gateway instance.



- c. After successfully publishing to API Gateway, go to API Gateway Information profile.



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

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

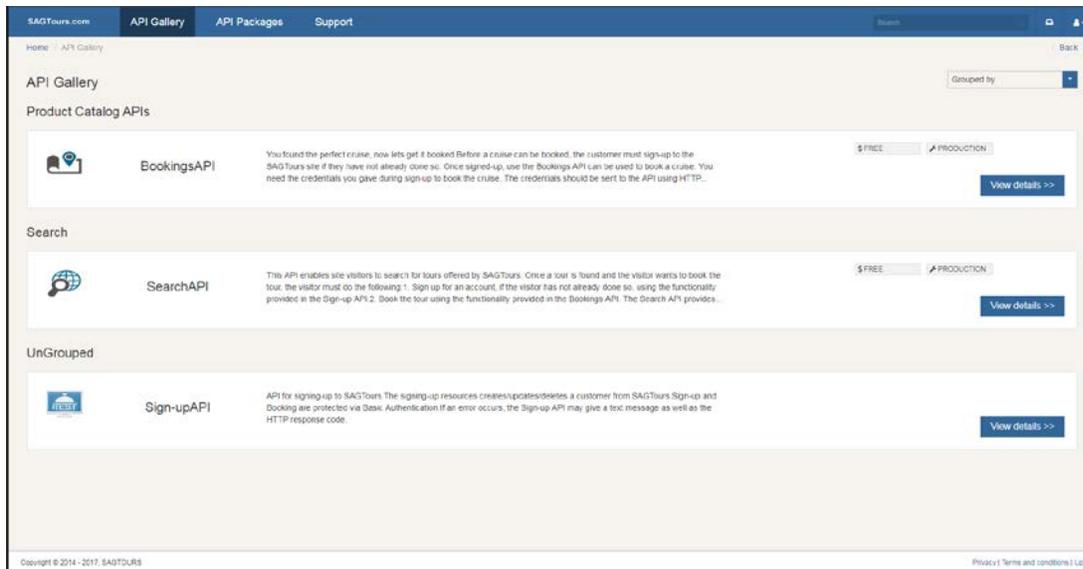
1.5 Step 5: Verify Contents in API Portal

Ensure that API Portal is displaying the demo content correctly by following the outlined procedure:

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

The figure shows the demo's landing page with some of the customization capabilities of API Portal.

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*.