

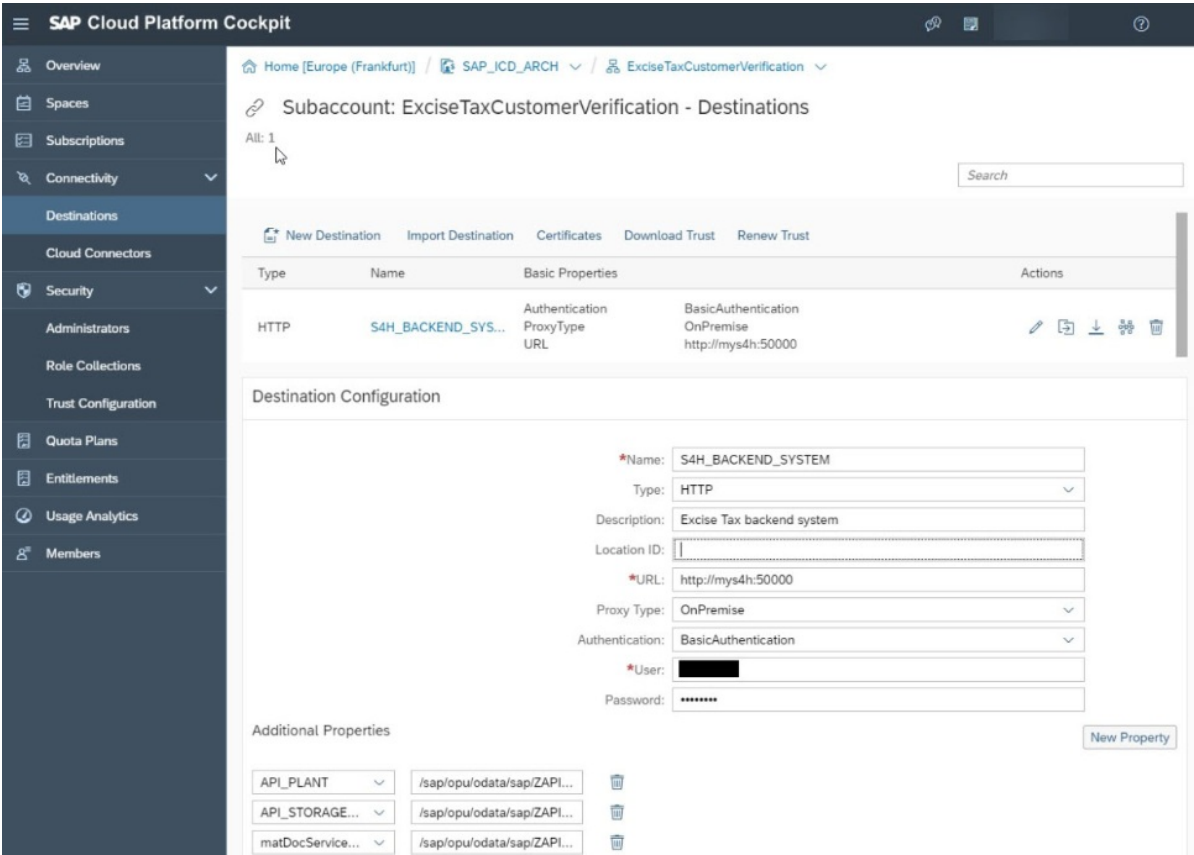


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SAP BTP Configuration



Product Information

Specifications

- Product: SAP BTP Configuration Guide – Price Calculation
- Document Version: 8

DOCUMENT HISTORY

The table provides an overview of changes with the most recent changes at the top.

| | | |
|--------------------------|----------------|--------|
| Docume nt Versi on | Date of Update | Change |
|--------------------------|----------------|--------|

| | | |
|---|-------------------|---|
| 8 | June 2024 | Section Enable API Access updated to describe creation of a service instance in the runtime environment “ Other ”, rather than “ Cloud Foundry ”. This reduces the number of steps as spaces no longer must be created and user authorization (members and roles) no longer must be defined. Furthermore, this approach reduces the number of resources consumed. |
| 7 | May 2024 | Adding a mention to the ui_document_analyze role template. Adding the section 8.5 about the creation of the service key. |
| 6 | April 2024 | Changing screenshots due to UI changes affecting the Entitlements page and the documentation describing the assignment of a service to a BTP subaccount. |
| 5 | November 2023 | Adding section about how to access API (optional). |
| 4 | August 2022 | Adding section about how to define role collections and roles to restrict authorization by market (optional). |
| 3 | July 2022 | Adding information about booster option from SAP Subscription Billing. |
| 2 | January 2022 | Adding a caution about the time needed to subscribe to the service. |
| 1 | December 20, 2021 | Initial version |

INTRODUCTION

This document describes the manual steps that you need to perform within the SAP Business and Technology Platform to onboard the Price Calculation service. In the case, you have used the automation wizard or “booster” for onboarding SAP Subscription Billing, you can continue to section 7 of this guide.

PREREQUISITES

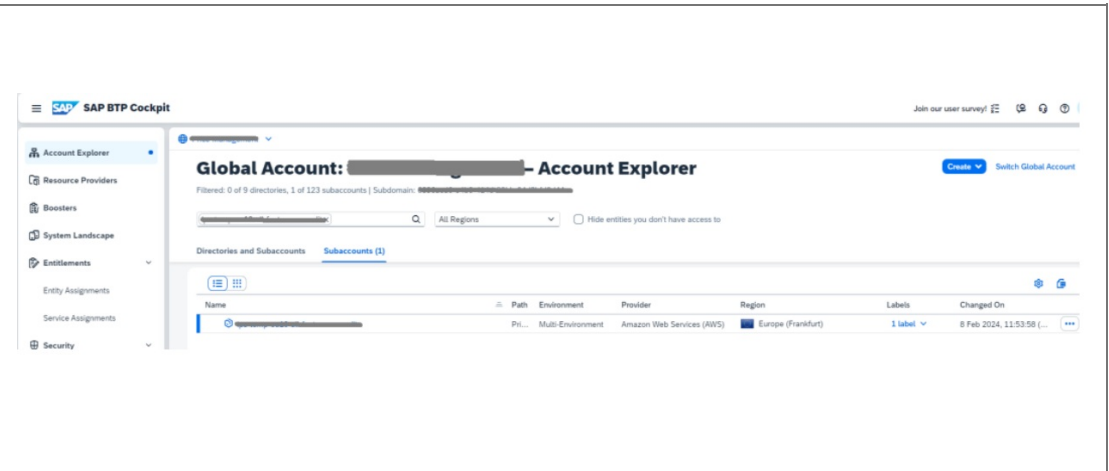
Price Calculation is not a standalone service. It is only available as part of other SAP solutions. Thus, before setting up Price Calculation, you'd have to have onboarded to SAP Subscription Billing.

If you have used the manual steps described in the SAP BTP Configuration Guide for SAP Subscription Billing, then continue with this document to subscribe to Price Calculation.

ASSIGN ENTITLEMENTS

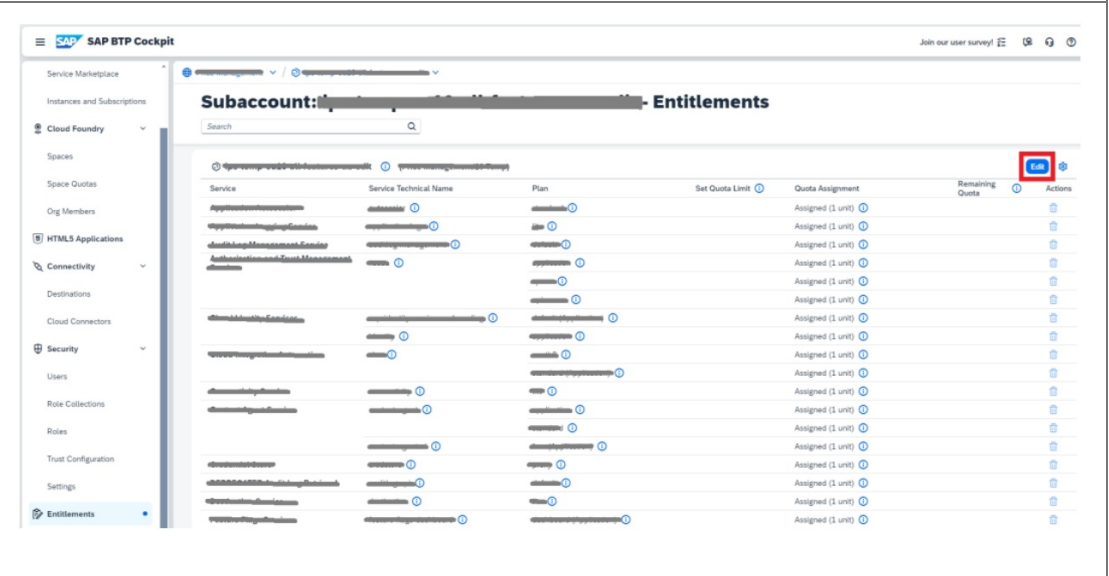
You need to assign entitlements if you want to use Price Calculation. Your SAP BTP global account has entitlements to use resources, such as services and memory. You distribute quotas of these entitlements to your individual subaccounts (tenants) to define the maximum consumption for each subaccount.

1. On the **Global Account** page of the SAP BTP Cockpit, open your subaccount/tenant.

The screenshot shows the SAP BTP Cockpit interface. On the left is a navigation menu with options like Account Explorer, Resource Providers, Boosters, System Landscape, Entitlements, Entity Assignments, Service Assignments, and Security. The main area is titled 'Global Account: [redacted] - Account Explorer'. It shows a table of subaccounts with columns for Name, Path, Environment, Provider, Region, Labels, and Changed On. One subaccount is listed with the provider 'Amazon Web Services (AWS)' and region 'Europe (Frankfurt)'.

2. In the navigation panel, select **Entitlements**.

Select **Edit**.

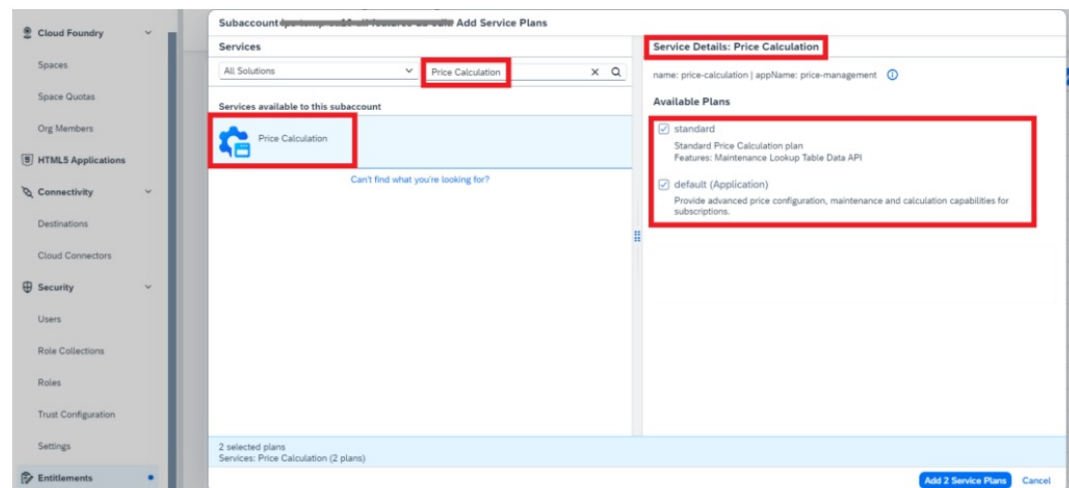
The screenshot shows the 'Subaccount: [redacted] - Entitlements' page. The left navigation menu is expanded to show 'Entitlements' under the 'Security' section. The main area displays a table of entitlements with columns for Service, Service Technical Name, Plan, Set Quota Limit, Quota Assignment, Remaining Quota, and Actions. A red box highlights the 'Edit' button in the Actions column of the first row.

3. Select **Add Service Plans**.



4. Add **Service Plans** for **Price Calculation** to your subaccount/tenant.

a. Enter price calculation into the filter to find **Price Calculation**.

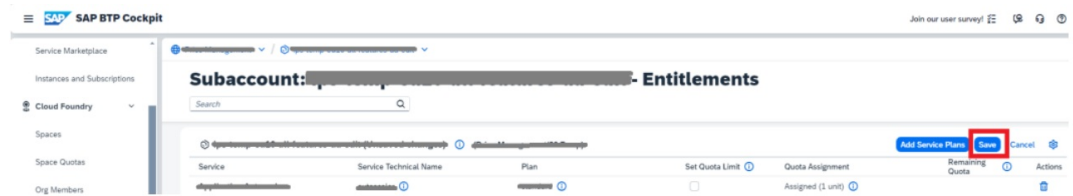


b. Select *default (Application)* checkbox

c. (optional) Select *standard* if you need to get access to the Price Calculation APIs

5. Select **Save** on the **Entitlements** overview screen

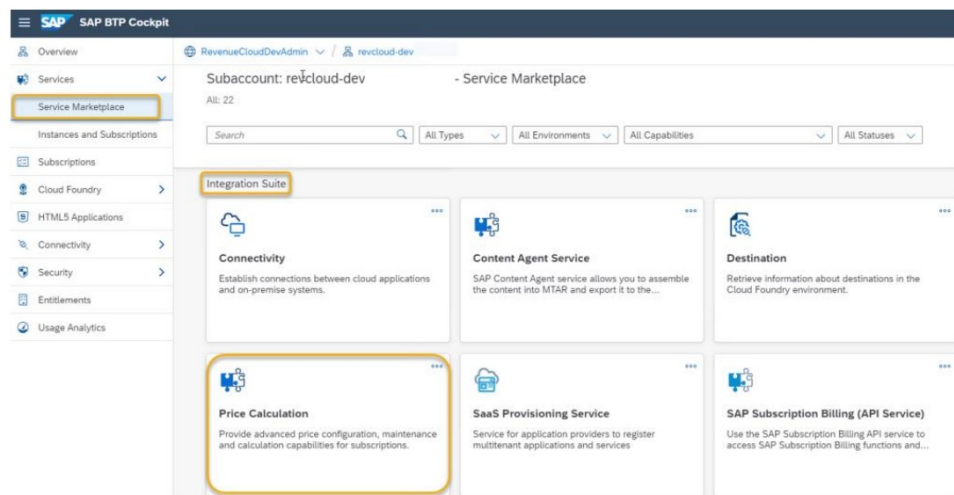
You have now added all the entitlements to your tenant.



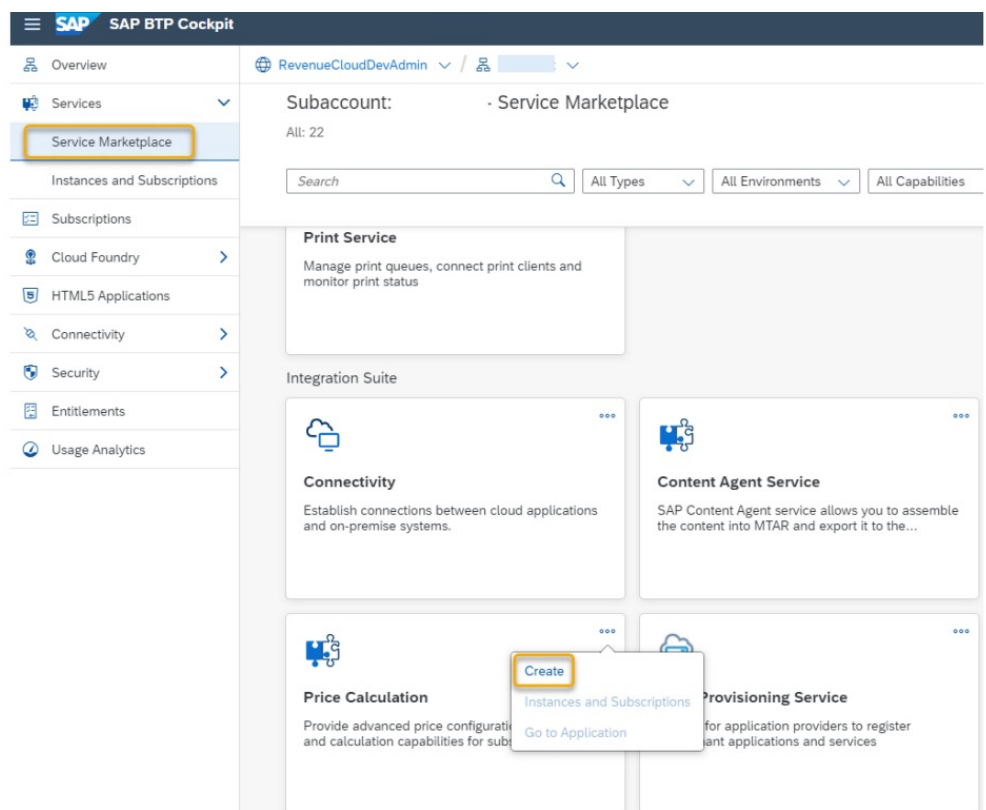
SUBSCRIBE TO PRICE CALCULATION

To subscribe to Price Calculation, execute the following operations:

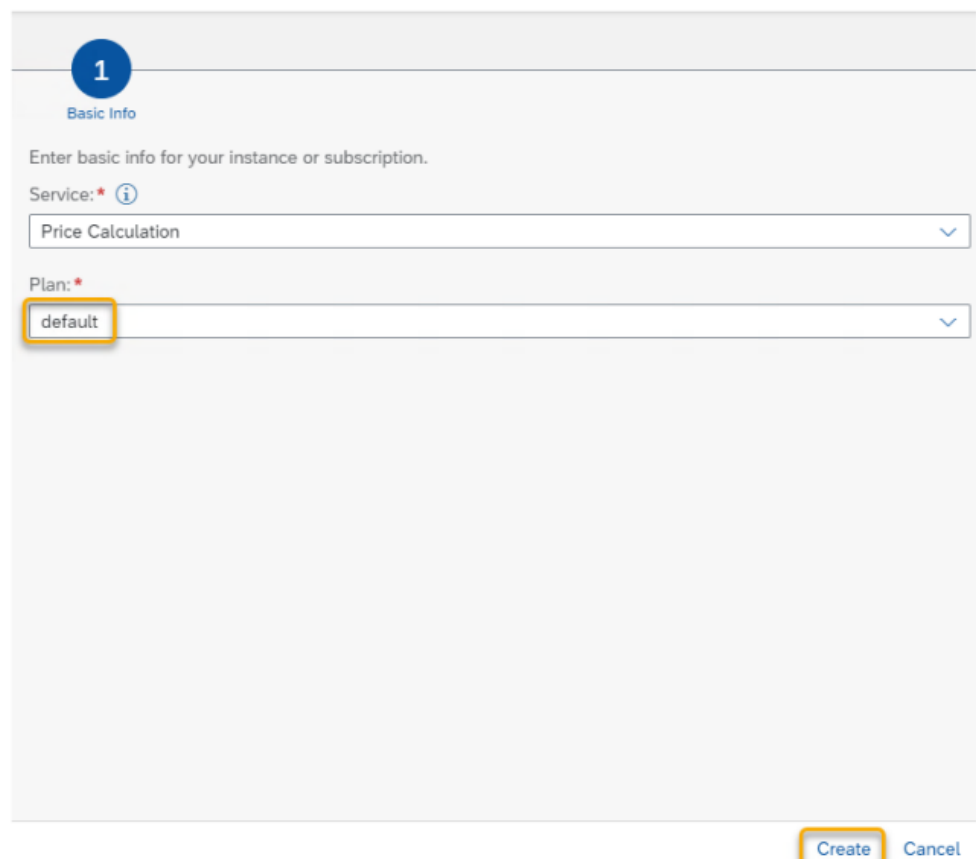
1. Open your subaccount and choose **Service Marketplace** under **Services** in the navigation panel.



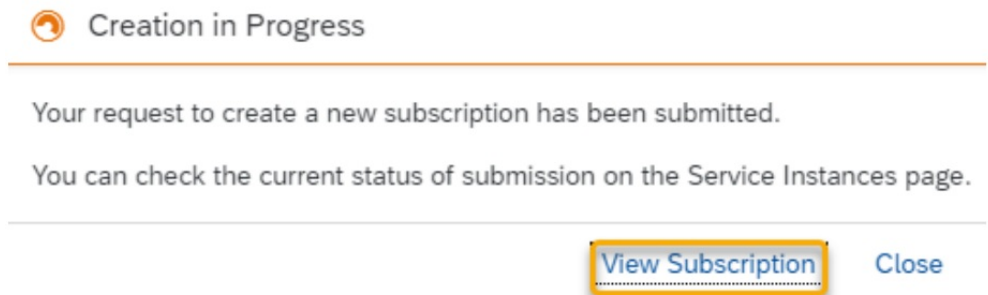
2. Under Integration Suite on the Price Calculation tile, select the actions icon on the upper right corner and choose Create.



3. Select the default plan and select Create.



4. Check the progress of the subscription creation by selecting View Subscription. This takes you to Instances and Subscriptions.



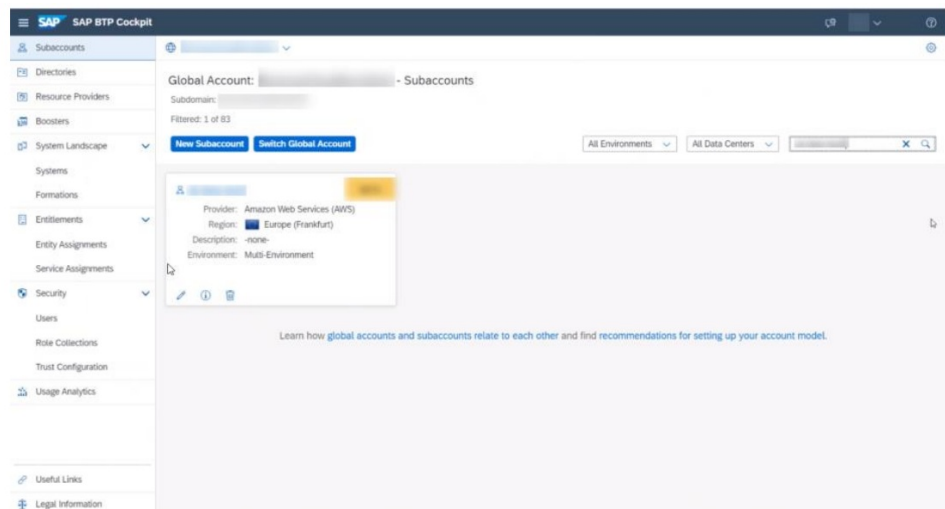
Caution: Note that this creation process can take a few minutes

BUILD ROLE COLLECTIONS

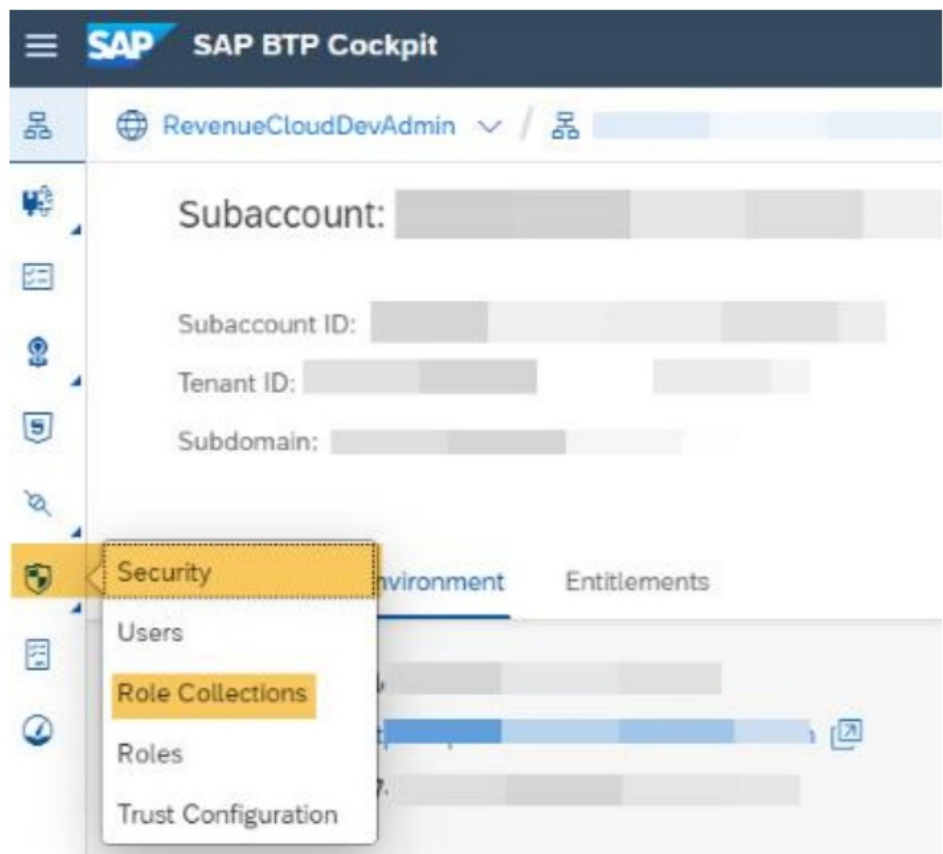
To access the Price Calculation apps, it is necessary to control user authorizations. To define the relevant role collections, execute the following operations:

1. In the SAP BTP cockpit, go to your global account.

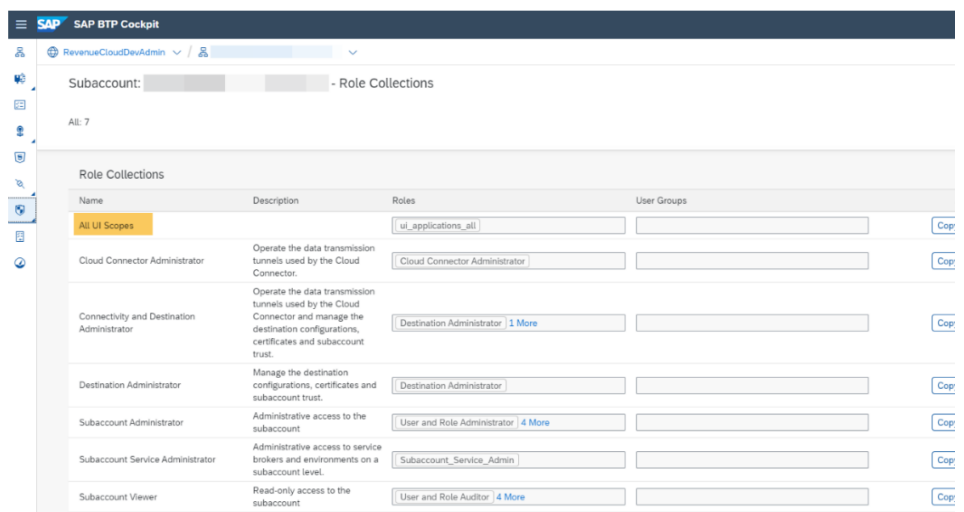
Choose **Subaccounts** and then select your subaccount/ tenant



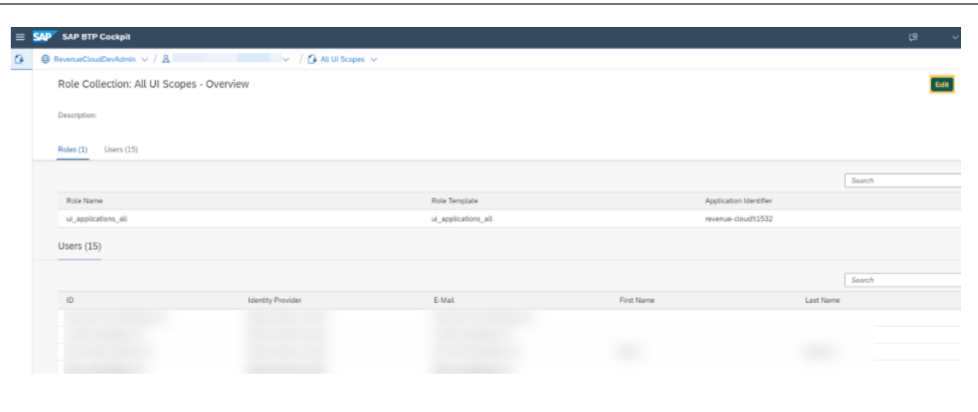
2. Under **Security** in the navigation panel, choose **Role Collections**.



3. Select the **name** of your role collection previously defined for **SAP Subscription Billing**.

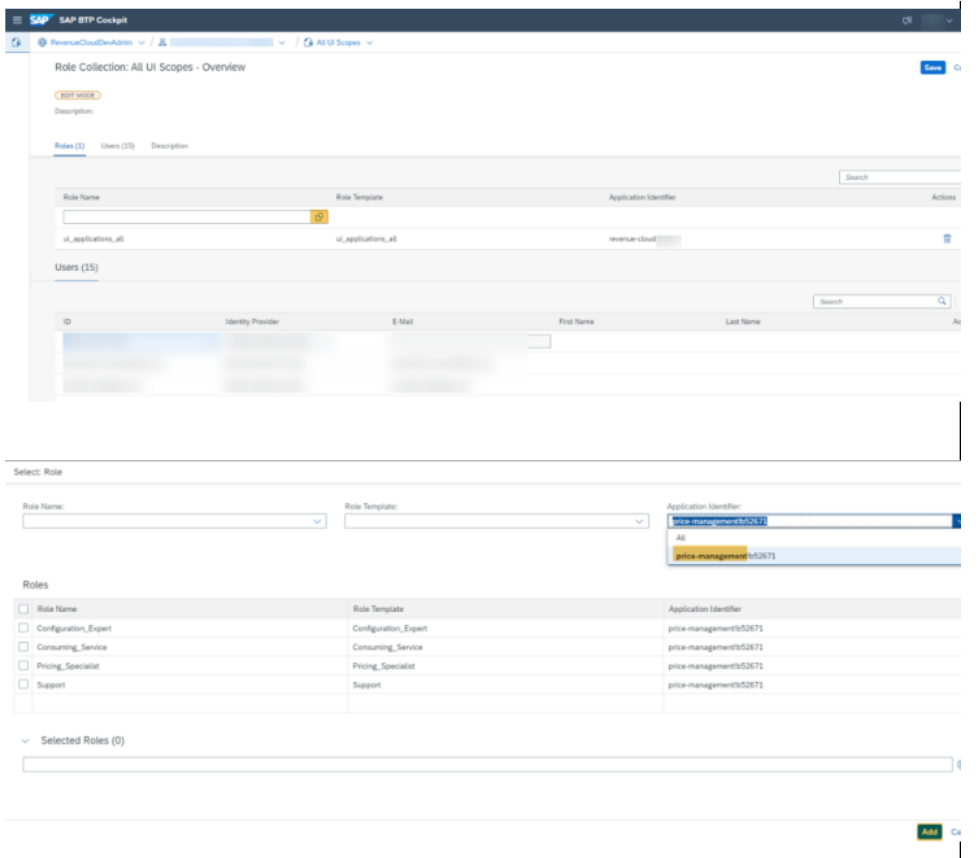


4. In the overview of the role collection, select **Edit** to open the screen in edit mode



5. From the *Role Name* list, select the role that you want to add.

The application identifier of the roles from the Price Calculation service for SAP Subscription Billing begins with “**price-management**”.



- 6. The following roles are available for the Price Calculation service:

| Role template (Role) | Description | Available Apps | View Authorization | Manage Authorization |
|----------------------|---|-------------------------------------|--------------------|----------------------|
| Pricing_Specialist | Responsible for entering and maintaining prices. | Manage Lookup Table Data | Yes | Yes |
| | | Manage Lookup Tables | Yes | No |
| | | Manage Aggregation Catalog | Yes | No |
| | | Manage Field Catalog | Yes | No |
| Configuration_Expert | Responsible for the setup, configuration and implementation of the pricing rules and schemes. | Manage Pricing Schemes | Yes | Yes |
| | | Manage Price Element Specifications | Yes | Yes |
| | | Manage Lookup Tables | Yes | Yes |
| | | Manage Aggregation Catalog | Yes | Yes |
| | | Manage Field Catalog | Yes | Yes |
| Consuming_Service | Technical role (for APIs) used to send price queries and get information about the pricing schemes. | none | | |
| Support | Read-only access to all data for auditing and support. | Manage Pricing Schemes | Yes | No |
| | | Manage Price Element Specifications | Yes | No |
| | | Manage Lookup Tables | Yes | No |
| | | Manage Lookup Table Data | Yes | No |
| | | Manage Aggregation Catalog | Yes | No |
| | | Manage Field Catalog | Yes | No |
| | | Analyze Documents | Yes | No |
| ui_document_analyze | Use of the Analyze Documents app. | Analyze Documents | Yes | Yes |

- 7. Select the roles that you want to configure and choose Add.

Select Role

Role Name:

Role Template:

Application Identifier:

price-managementb52671

Roles

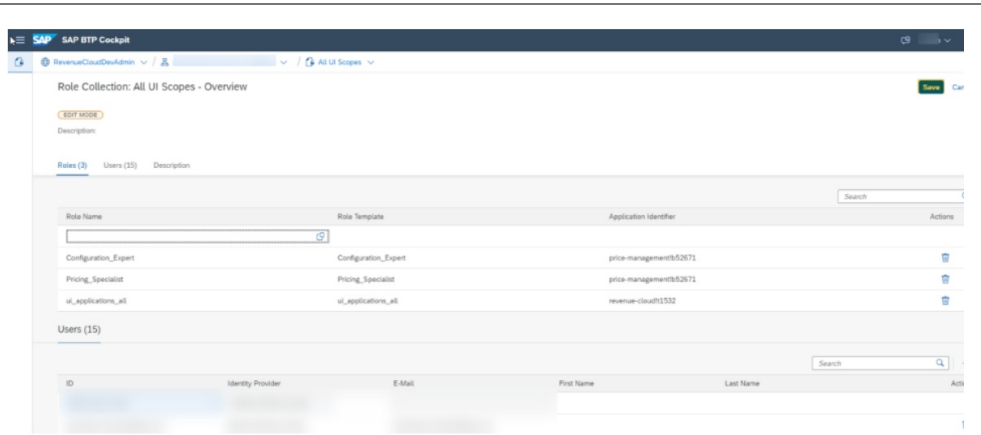
| | | | |
|-------------------------------------|----------------------|----------------------|------------------------|
| <input type="checkbox"/> | Role Name | Role Template | Application Identifier |
| <input checked="" type="checkbox"/> | Configuration_Expert | Configuration_Expert | price-managementb52671 |
| <input type="checkbox"/> | Consuming_Service | Consuming_Service | price-managementb52671 |
| <input checked="" type="checkbox"/> | Pricing_Specialist | Pricing_Specialist | price-managementb52671 |
| <input type="checkbox"/> | Support | Support | price-managementb52671 |

Selected Roles (2)

Pricing_Specialistprice-managementb52671 x Configuration_Expertprice-managementb52671 x

Add

8. Select **Save** to close the edit mode.



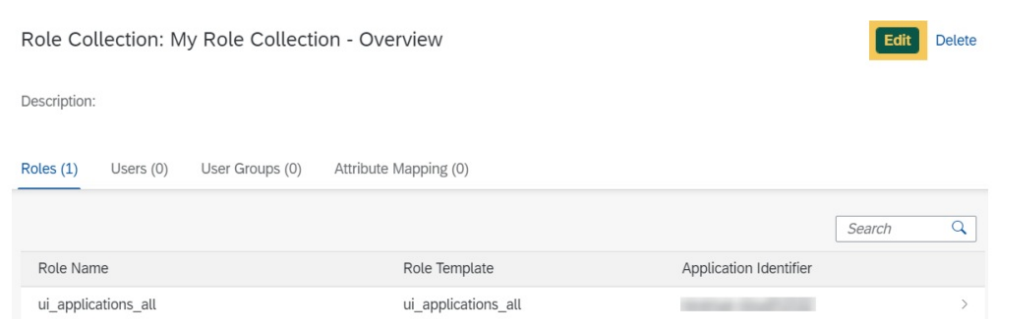
9. Optional: You can create role collections to restrict a specific market for a user.

See details in the section below.

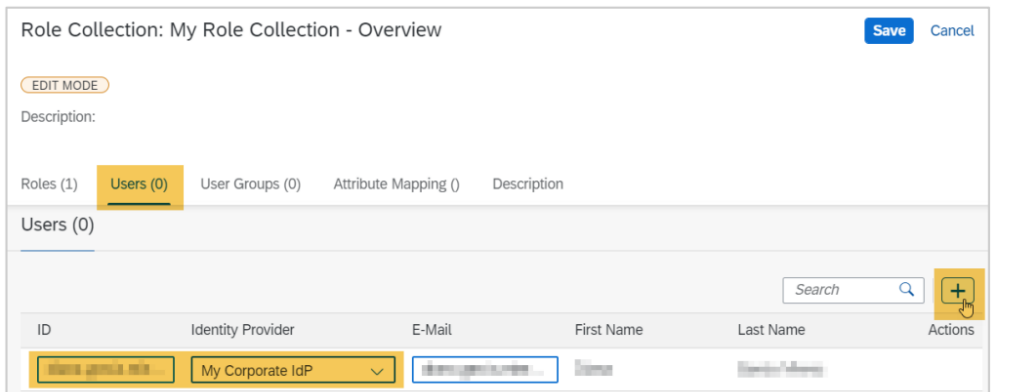
ASSIGN ROLE COLLECTIONS TO USERS OR USER GROUPS

In the SAP BTP cockpit, you must assign role collections to IdP users or user groups.

1. Create or open the role collection. In the overview, select **Edit** to open the screen in edit mode.



2. Under **Users**, enter the ID of the user and choose the identity provider in the first row. Then select the **+** icon.



3. The user is now added.

Repeat the previous step to add further users to the collection.

Role Collection: My Role Collection - Overview Save Cancel

EDIT MODE

Description:

Roles (1) **Users (1)** User Groups (0) Attribute Mapping (0) Description

Users (1)

Search

| ID | Identity Provider | E-Mail | First Name | Last Name | Actions |
|---|---------------------------|---|-----------------------------------|----------------------------------|---------------------------------------|
| <input type="text" value="Enter user ID"/> | Default identity provider | <input type="text"/> | | | |
| <input type="text" value="john.doe@revenuecloud.io"/> | My Corporate IdP | <input type="text" value="john.doe@revenuecloud.io"/> | <input type="text" value="John"/> | <input type="text" value="Doe"/> | <input type="button" value="Delete"/> |

4. Select **Save** to close the edit mode.

Role Collection: My Role Collection - Overview Save Cancel

EDIT MODE

Description:

Roles (1) **Users (1)** User Groups (0) Attribute Mapping (0) Description

Users (1)

Search

| ID | Identity Provider | E-Mail | First Name | Last Name | Actions |
|---|---------------------------|---|-----------------------------------|----------------------------------|---------------------------------------|
| <input type="text" value="Enter user ID"/> | Default identity provider | <input type="text"/> | | | |
| <input type="text" value="john.doe@revenuecloud.io"/> | My Corporate IdP | <input type="text" value="john.doe@revenuecloud.io"/> | <input type="text" value="John"/> | <input type="text" value="Doe"/> | <input type="button" value="Delete"/> |

5. Now your role collection should have at least one user.

Role Collection: My Role Collection - Overview Edit Delete

Description:

Roles (1) Users (1) User Groups (0) Attribute Mapping (0)

Search

| Role Name | Role Template | Application Identifier |
|---------------------|---------------------|---|
| ui_applications_all | ui_applications_all | revenue-cloud!t1532 <input type="button" value=">"/> |

Users (1)

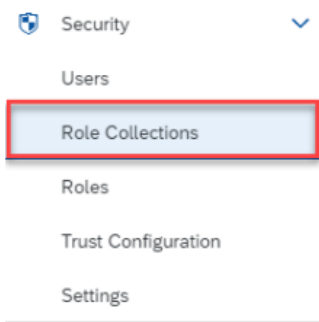

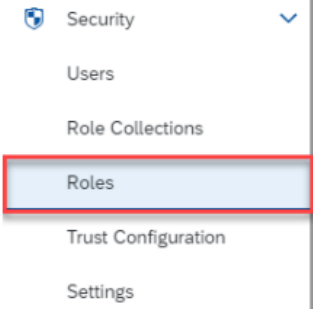
Search

| ID | Identity Provider | E-Mail | First Name | Last Name |
|---|-------------------|---|-----------------------------------|----------------------------------|
| <input type="text" value="john.doe@revenuecloud.io"/> | My Corporate IdP | <input type="text" value="john.doe@revenuecloud.io"/> | <input type="text" value="John"/> | <input type="text" value="Doe"/> |

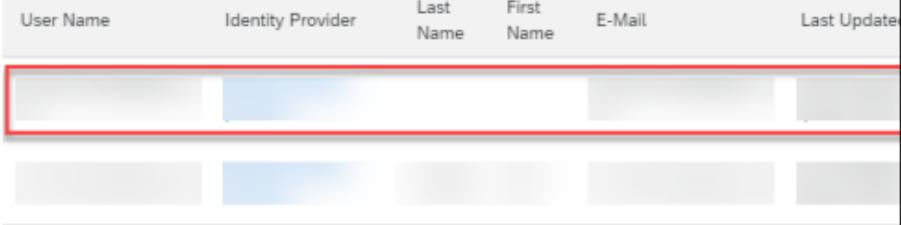
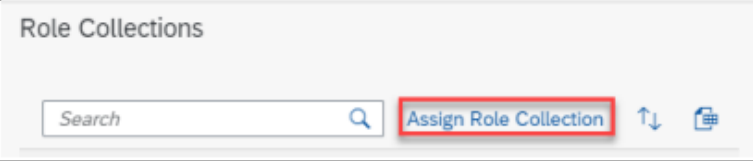
DEFINE ROLE COLLECTIONS AND ROLES TO RESTRICT AUTHORIZATION BY MARKET (OPTIONAL)

- You can restrict user access to data that is associated with certain markets. For example, a user can be allowed to only view or manage lookup table data in a particular market.
- Users without a role that restricts market authorization have access to data for all markets.

- For detailed information about the data that is visible to users who are authorized only for certain markets, see Build Role Collections in the Setup and Administration Guide.
- You restrict the markets for which users have authorization by assigning them a role collection that contains at least one role based on the role template “ui_market_restriction” in the SAP BTP cockpit.
- Always make sure that the markets defined in SAP Subscription Billing and in Price Calculation are the same.

| | |
|--|--|
| 1. Under Security in the navigation panel, choose Role Collections |  |
| 2. Create a Role Collection for a specific market. |  |
| 3. In the navigation panel, choose Security > Roles. |  |

| | |
|--|---|
| <p>4. Enter "market" in the search field to find the role that restricts authorization for markets.</p> | <div> <div>price-management</div> <div>Price Calculation</div> <div>Configuration_Expert</div> <div>Configuration_Expert</div> <div>Consuming_Service</div> <div>Consuming_Service</div> <div>Pricing_Specialist</div> <div>Pricing_Specialist</div> <div>Support</div> <div>Support</div> <div>ui_market_restriction</div> <div>ui_market_restriction</div> </div> |
| <p>5. In the row that contains the role template "ui_market_restriction", select Create Role.</p> | <div> <div>ui_market_restriction</div> <div>ui_market_restriction</div> </div> |
| <p>6. Configure the Role and assign the respective Role Collection.</p> | <div> <div> <div>Create Role</div> <div> <div>1 Configure Role</div> <div>2 Configure Attributes</div> <div>3 Select Role Collections</div> <div>4 Review</div> </div> <div>Configure Role</div> <div>Specify the details of your new role.</div> <div> <div>Role Name</div> <div></div> </div> <div> <div>Description</div> <div></div> </div> <div> <div>Role Template</div> <div>ui_market_restriction</div> </div> </div> <div> <div>Create Role</div> <div> <div>1 Configure Role</div> <div>2 Configure Attributes</div> <div>3 Select Role Collections</div> <div>4 Review</div> </div> <div>Configure Attributes</div> <div>Select the available type and enter the value of your role attributes.</div> <div> <div>Attributes</div> <div>Source</div> <div>Values</div> </div> <div> <div>Market</div> <div>Static</div> <div></div> </div> </div> <div> <div>Create Role</div> <div> <div>1 Configure Role</div> <div>2 Configure Attributes</div> <div>3 Select Role Collections</div> <div>4 Review</div> </div> <div>Select Role Collections</div> <div>Select the available role collections for your new role.</div> <div> <div>Search</div> <div></div> </div> <div> <div><input type="checkbox"/></div> <div></div> </div> <div> <div><input checked="" type="checkbox"/></div> <div></div> </div> <div> <div><input type="checkbox"/></div> <div></div> </div> <div> <div><input type="checkbox"/></div> <div></div> </div> </div> </div> |
| <p>7. In the navigation panel, choose Security > Users.</p> | <div> <div>Security</div> <div>Users</div> <div>Role Collections</div> <div>Roles</div> <div>Trust Configuration</div> <div>Settings</div> </div> |

| | |
|--|--|
| <p>8. From the list of users, pick the row containing the user to whom you will assign the market restriction.</p> |  |
| <p>9. Assign the role collection of the market restriction to this user.</p> |  |

ENABLE API ACCESS (OPTIONAL)

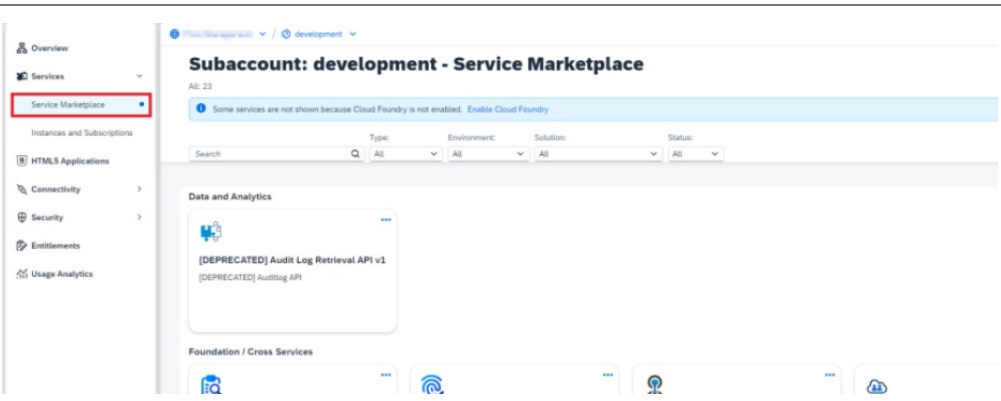
This section describes the prerequisites for using Price Calculation API. See the Service Guide for more information about using the API.

Note: To view the service key, you require the Subaccount Viewer role.

Create a Service Instance

When you create an instance of the Price Calculation API service, you provide a set of scopes that define which of the APIs can be called and which activities can be done using service keys created for the instance.

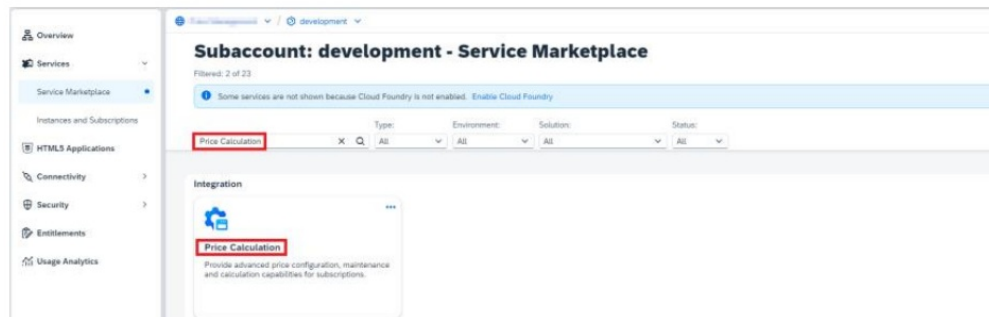
To create an instance, you require the Subaccount Service Administrator role. When you create a subaccount, SAP BTP automatically grants this role to your user.

| | |
|--|--|
| <p>1. In your subaccount, choose Services > Service Marketplace in the navigation panel.</p> |  |
|--|--|

2. You see all the services that are available to you.

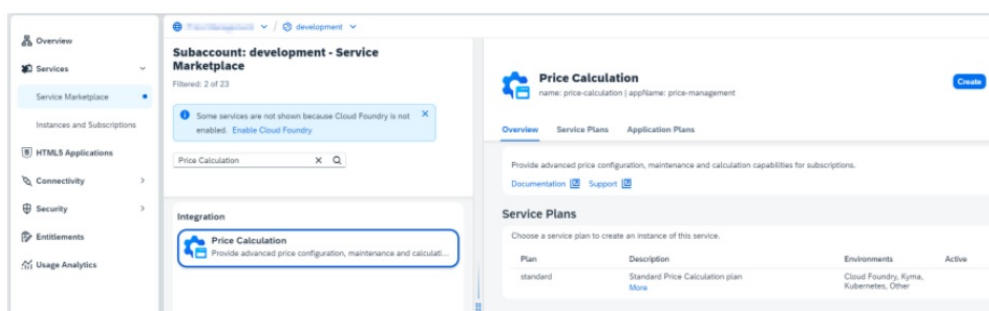
Search for and select the service **Price Calculation**.

Note: There are two services called Price Calculation. One of them belongs to the API service.



3. Under **Service Plans**, display the action menu of the plan for which you want to create an instance and select Create.

NB: In this guide, we use the default plan for the example.



4. Name the instance and select **Next**.

NB: In this guide, we use “INSTANCEDEMO” as the example name.

New Instance or Subscription

1

2

3

Basic InfoParametersReview

Enter basic info for your instance or subscription.

i

Some services are not shown because Cloud Foundry is not enabled. To enable it, select it from the Service dropdown menu and create an instance of it.

Service: *

i

Can't find what you're looking for?

Price Calculation

Plan: *

standard

Runtime Environment: *

Other

Instance Name: *

i

INSTANCEDEMO

Next >

Create

Cancel

5. No parameters need to be specified. Select next.

New Instance or Subscription

1

2

3

Basic InfoParametersReview

Configure instance parameters.

i

Upload a JSON file:

Select JSON file

Browse...

Or specify the parameters in JSON format:

Clear

1

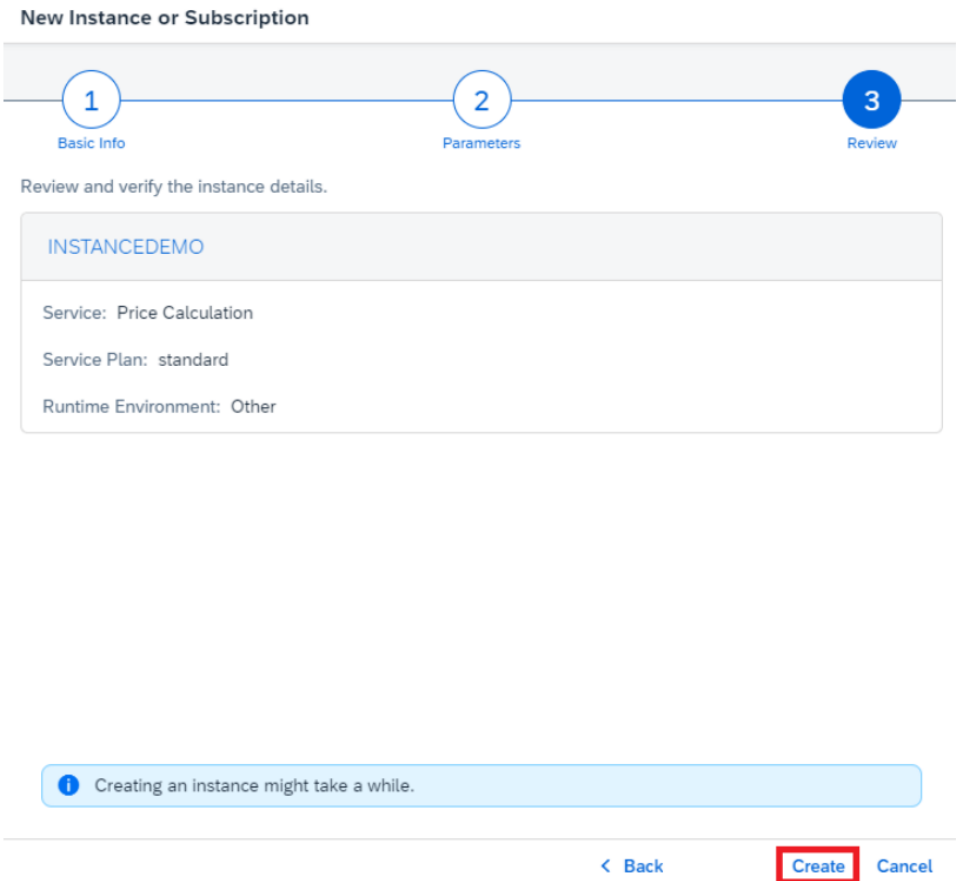
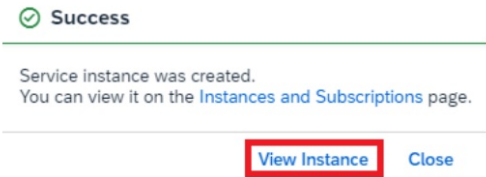
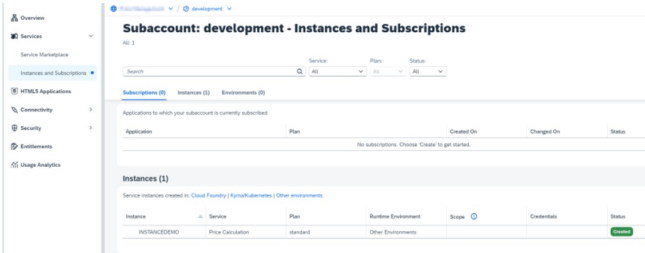
{ }

< Back

Next >

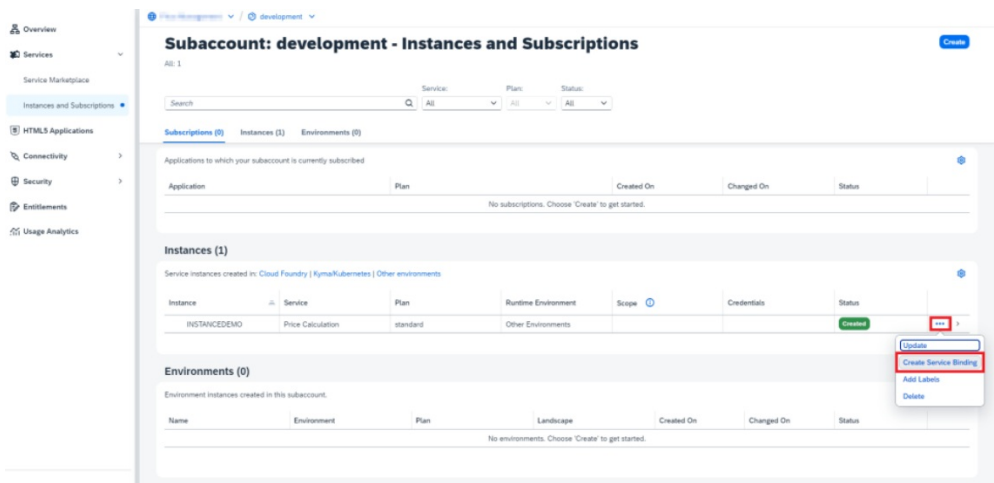
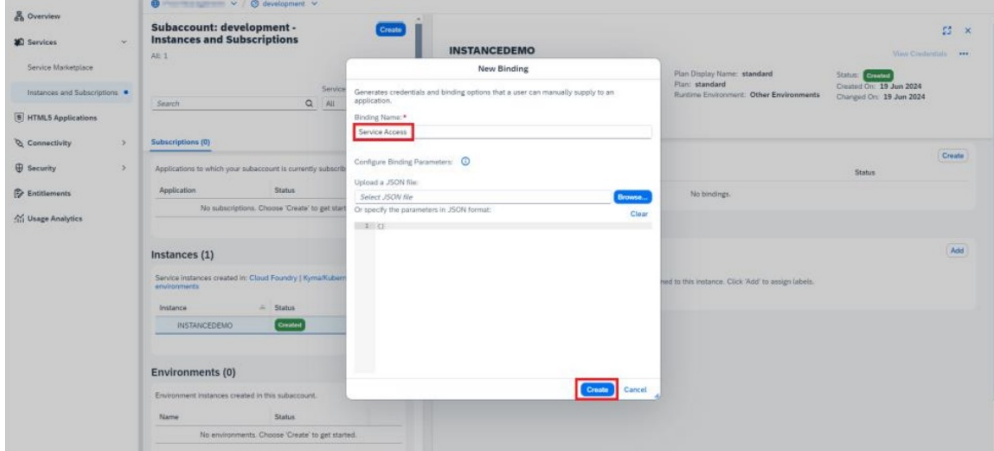
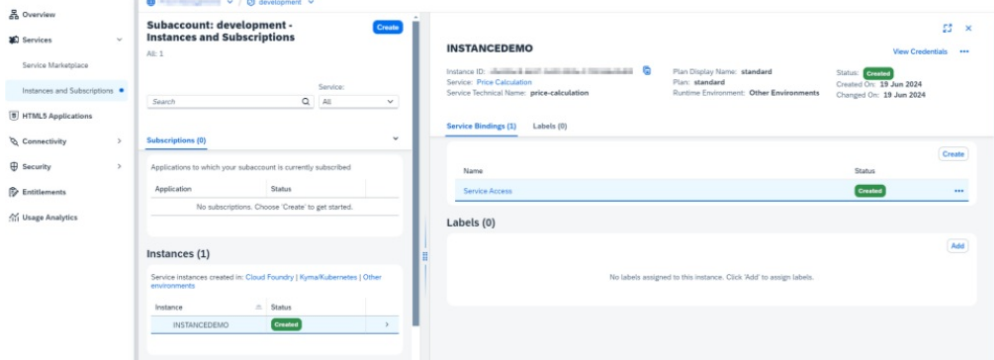
Create

Cancel

| | |
|--|--|
| <p>6. Check that everything is correct and select Create.</p> |  |
| <p>7. The creation process starts. Select View Instance to switch to the Instances screen under the Instances and Subscriptions page.</p> |  |
| <p>8. Your instance is created.</p> |  |

Create a Service Binding

To create the access token used to call the API, you need to create a service key.

| | |
|--|--|
| <p>1. In the Instances screen, display the action menu of the instance and select Create Service Binding.</p> |  |
| <p>2. Enter a name for the service key, then select Create.</p> |  |
| <p>3. Your service key is created.</p> |  |

UNSUBSCRIBING – IMPORTANT NOTICE

SAP strongly recommends that you do not unsubscribe from Price Calculation while its tenant is part of an integration with SAP Subscription Billing: unsubscribing would delete all data of Price Calculation and result in inconsistencies within SAP Subscription Billing.

www.sap.com/contactsap

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FAQ

What should I do if I encounter issues during the subscription process?



If you face any difficulties while subscribing to Price Calculation or performing any of the steps mentioned, please refer to the troubleshooting section in the user manual or contact our customer support for assistance.

Documents / Resources

| | |
|---|---|
|  | SAP BTP Configuration [pdf] User Guide BTP Configuration, BTP Configuration, Configuration |
|---|---|

References

- [User Manual](#)

 BTP Configuration, Configuration,
 SAP SAP

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