Manuals+

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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.

Document Version	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.
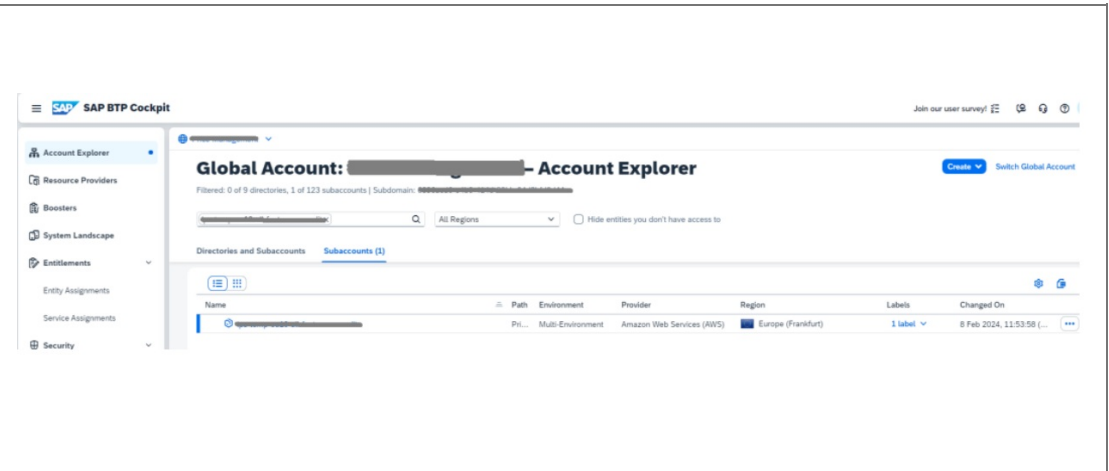
PREREQUISITES

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.
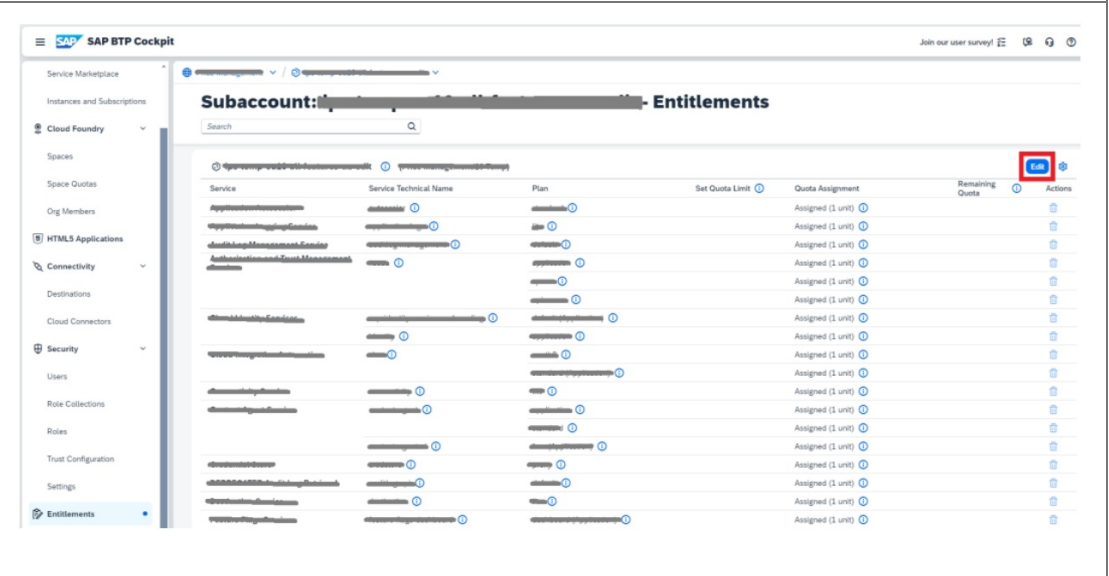
ASSIGN ENTITLEMENTS

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

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	
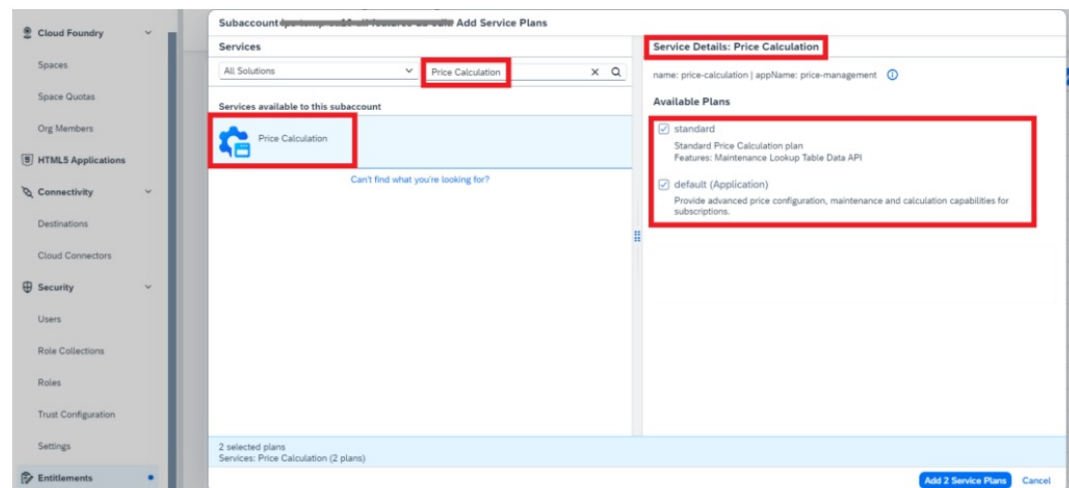
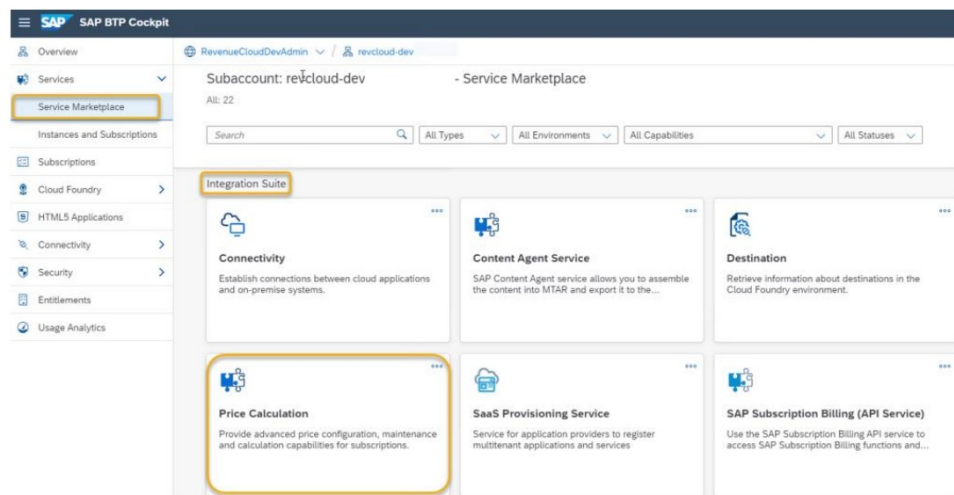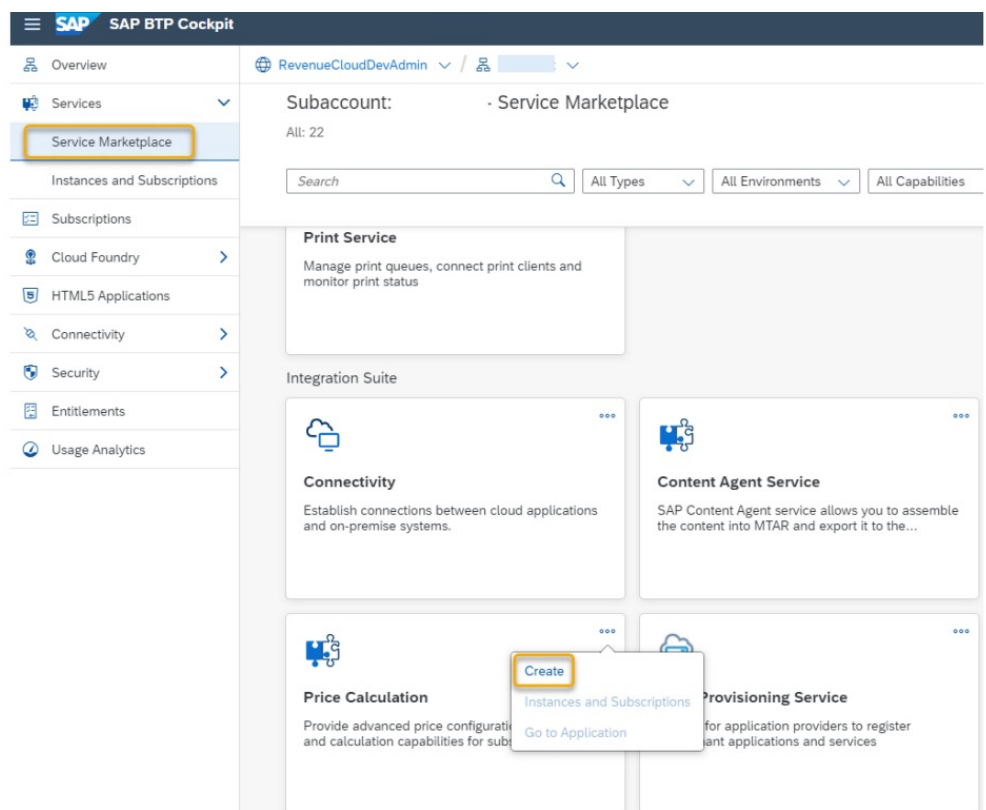|	
5. Select **S ave** on the **En titlements** ov erview screen . You have now added all the entitlements t o your tenant.	
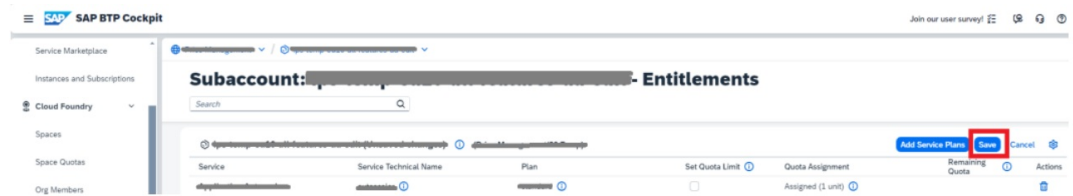
SUBSCRIBE TO PRICE CALCULATION

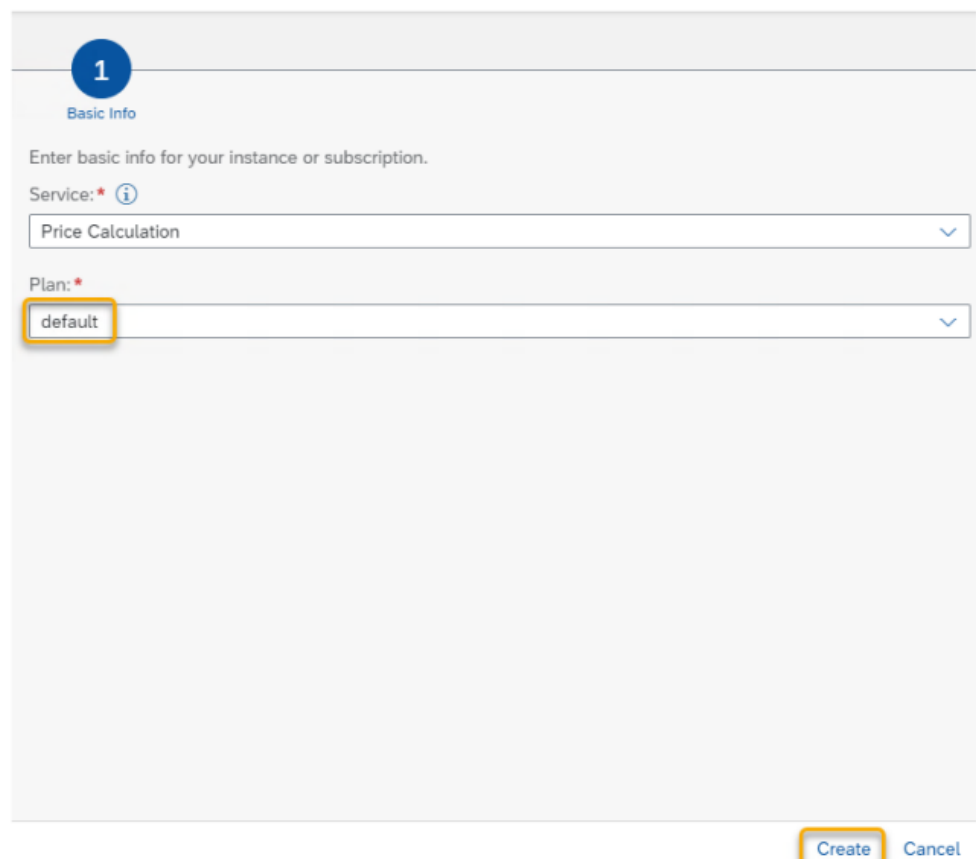To subscribe to Price Calculation, execute the following operations:

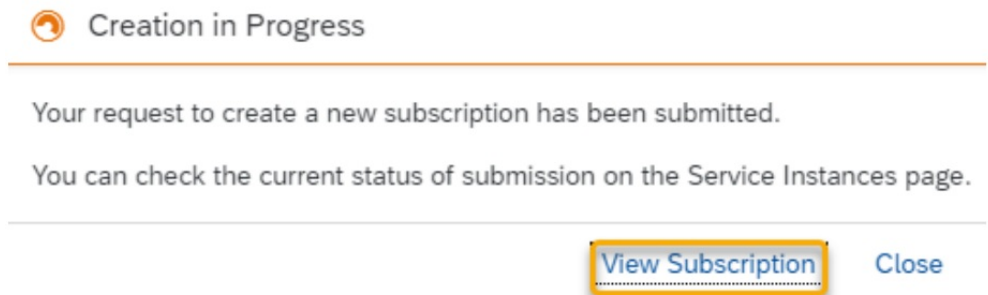|	
1. Open your suba ccount and choose Service Marketplac e under Services in the navigation pan el.	

2. Under Integratio n Suite on the Pric e Calculation tile, s elect the actions ic on on the upper rig ht corner and choo se Create.	
3. Select the defaul t plan and select C reate.	

|	
4. Check the progress of the subscription creation by selecting View Subscription. This takes you to Instances and Subscriptions.	Creation in Progress Your request to create a new subscription has been submitted. You can check the current status of submission on the Service Instances page. View Subscription Close

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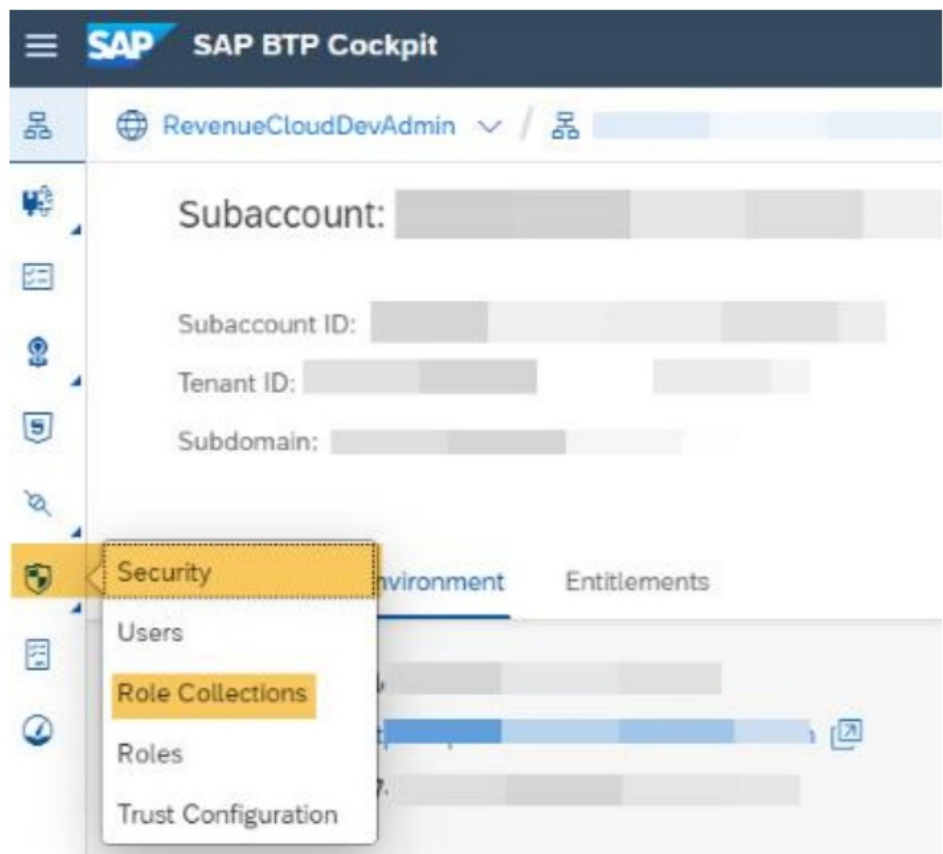
BUILD ROLE COLLECTIONS

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

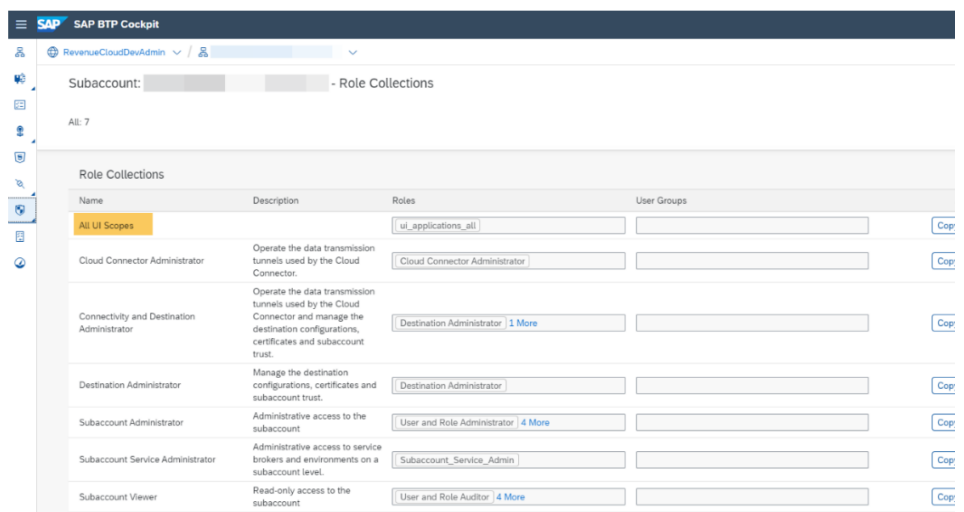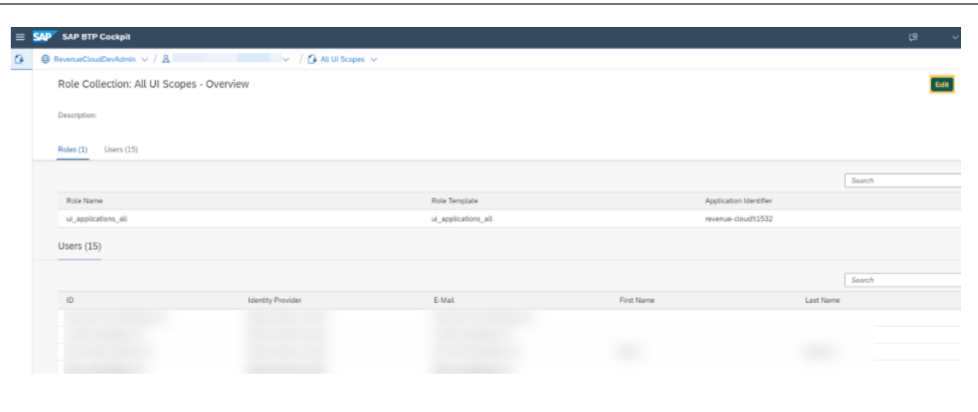|	
1. In the SAP BTP cockpit, go to your global account. Choose **Subaccounts** and then select your subaccount/ tenant	
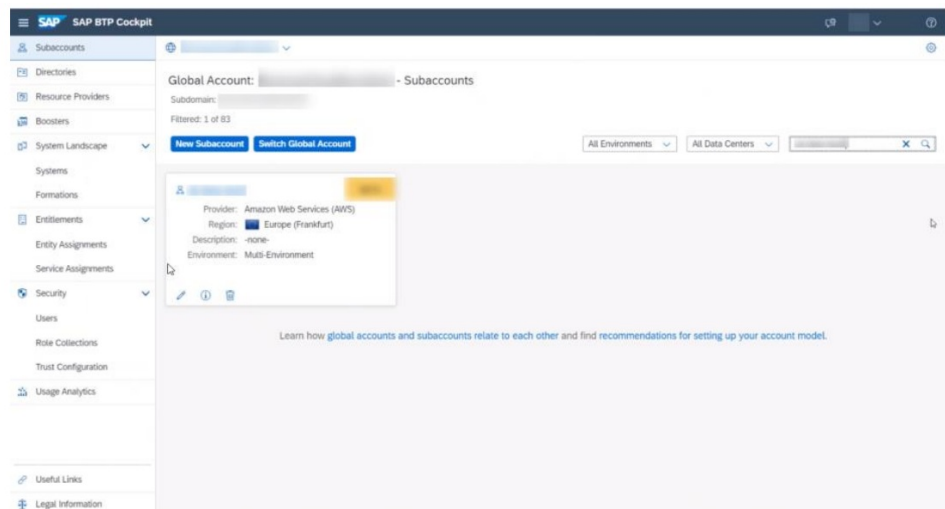
|	
2. Under **Security** in the navigation panel, choose **Role Collections**.	
3. Select the **name** of your role collection previously defined for **SAP Subscription Billing**.	

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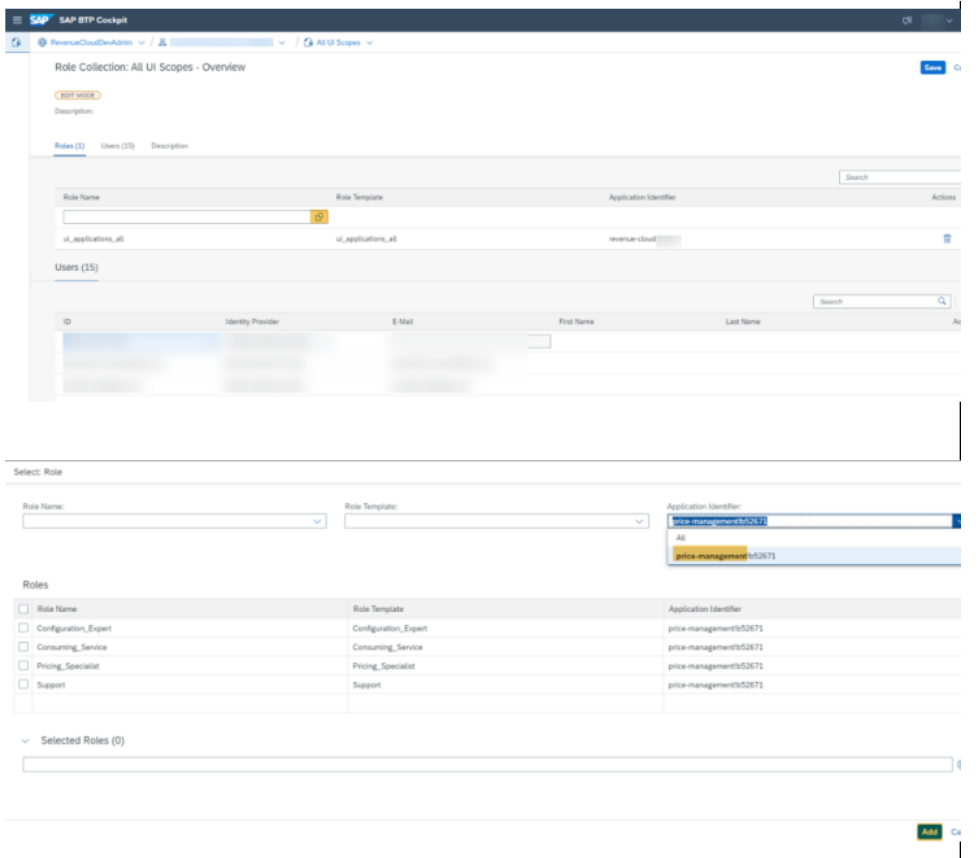
- 6. The following roles are available for the Price Calculation service:

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-management!b52671

Roles

	Role Name	Role Template	Application Identifier
☑	Configuration_Expert	Configuration_Expert	price-management!b52671
☐	Consuming_Service	Consuming_Service	price-management!b52671
☑	Pricing_Specialist	Pricing_Specialist	price-management!b52671
☐	Support	Support	price-management!b52671

⌄ Selected Roles (2)

Pricing_Specialist|price-management!b52671 ✕   Configuration_Expert|price-management!b52671 ✕

Add   C
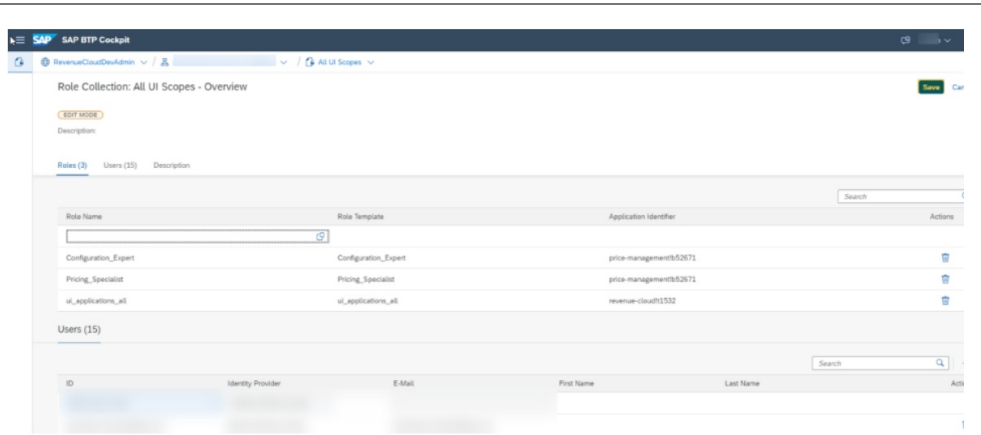
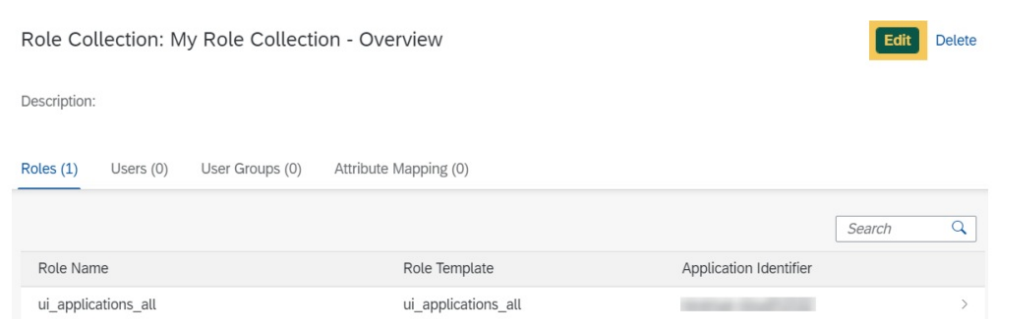|	
8. Select **Save** to close the edit mode.	
9. Optional: You can create role collections to restrict a specific market for a user.	See details in the section below.

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.	
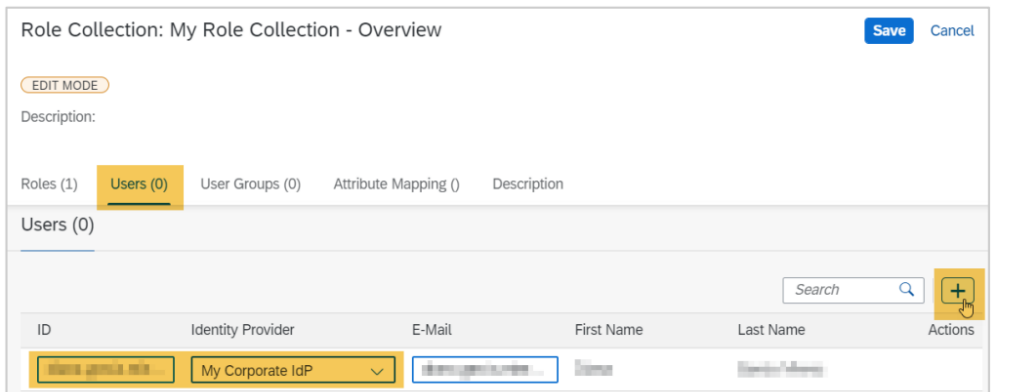
3. The user is now added. Repeat the previous step to add further users to the collection.	
4. Select **Save** to close the edit mode.	

5. Now your role collection should have at least one user.	
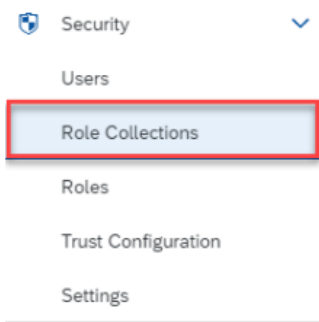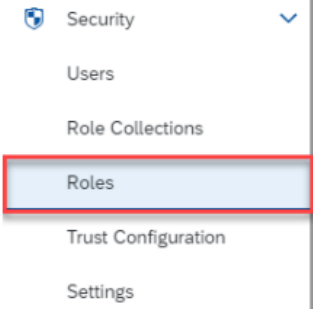
DEFINE ROLE COLLECTIONS AND ROLES TO RESTRICT AUTHORIZATION BY MARKET (OPTIONAL)

- 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.
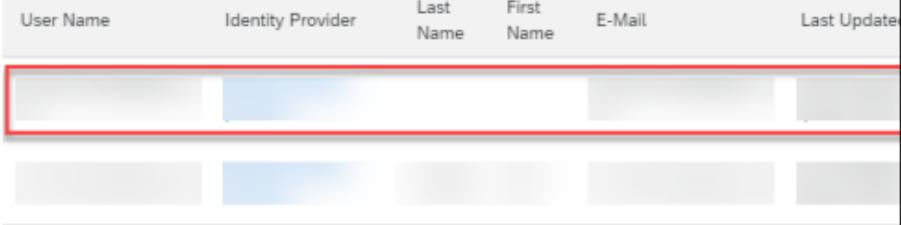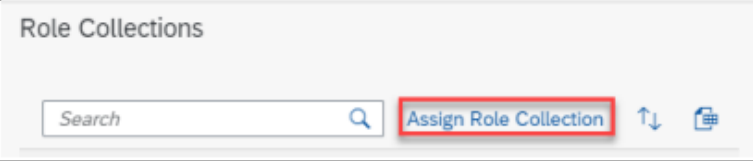- Users without a role that restricts market authorization have access to data for all markets.

- 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	Security ⌄ Users **Role Collections** Roles Trust Configuration Settings
2.	Create a **Role Collection** for a specific market.	Create Role Collection Name:* [ ] Description: [ ] **Create** Cancel
3.	In the navigation panel, choose Security > Roles.	Security ⌄ Users Role Collections **Roles** Trust Configuration Settings

4.	Enter "market" in the search field to find the role that restricts authorization for markets.	price-management	Price Calculation	Configuration_Expert	Configuration_Expert
				Consuming_Service	Consuming_Service
				Pricing_Specialist	Pricing_Specialist
				Support	Support
				ui_market_restriction	ui_market_restriction
5.	In the row that contains the role template "ui_market_restriction", select **Create Role**.			ui_market_restriction	ui_market_restriction
6.	Configure the **Role** and assign the respective **Role Collection**.				
7.	In the navigation panel, choose Security > Users.				

Step 6 screenshots:

Create Role

1 Configure Role — 2 Configure Attributes — 3 Select Role Collections — 4 Review

Configure Role
Specify the details of your new role.

Role Name *
Description
Role Template * ui_market_restriction

Create Role

1 Configure Role — 2 Configure Attributes — 3 Select Role Collections — 4 Review

Configure Attributes
Select the available type and enter the value of your role attributes.

Attributes	Source	Values
Market	Static	☐✕

Create Role

1 Configure Role — 2 Configure Attributes — 3 Select Role Collections — 4 Review

Select Role Collections
Select the available role collections for your new role.

Search

☐
☑
☐
☐
☐

Step 7 screenshot:

🛡 Security ⌄

Users

Role Collections

Roles

Trust Configuration

Settings

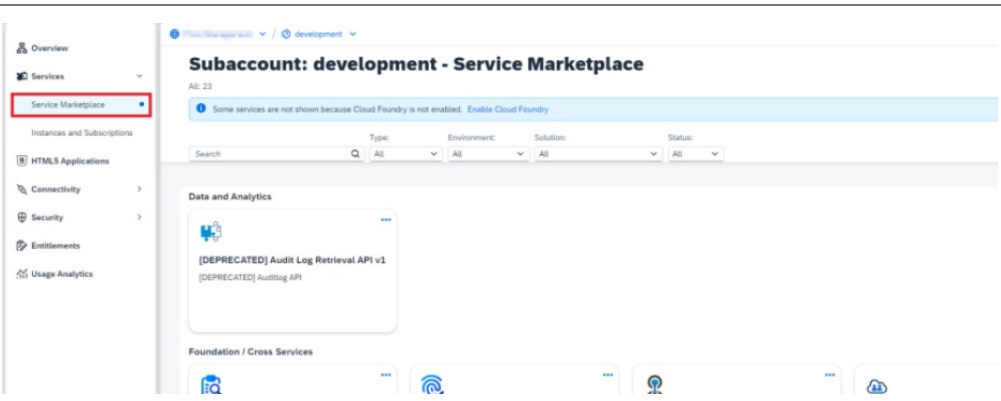|	
8. From the list of users, pick the row containing the user to whom you will assign the market restriction.	
9. Assign the role collection of the market restriction to this user.	

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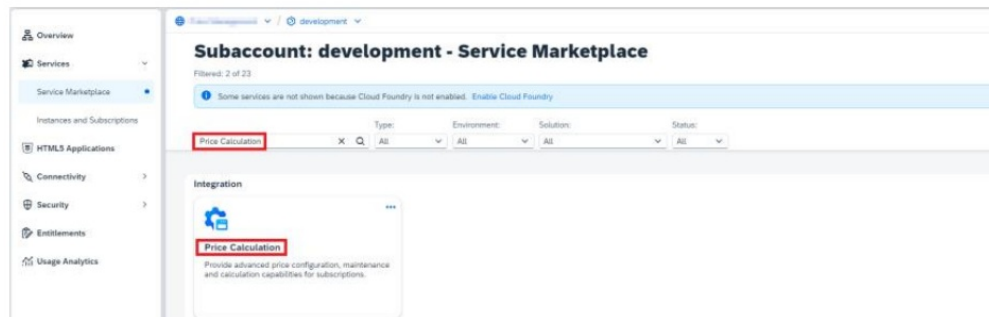
To create an instance, you require the Subaccount Service Administrator role. When you create a subaccount, SAP BTP automatically grants this role to your user.

1. In your subaccount, choose **Services > Service Marketplace** in the navigation panel.	

|	
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.	
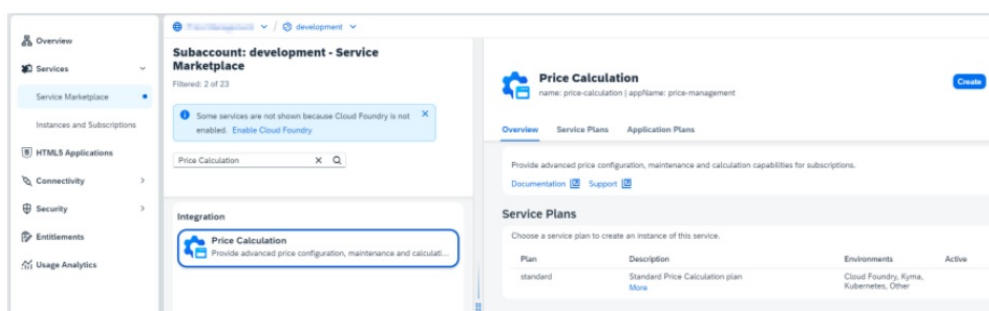
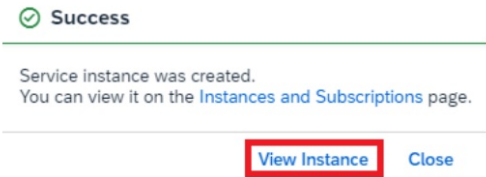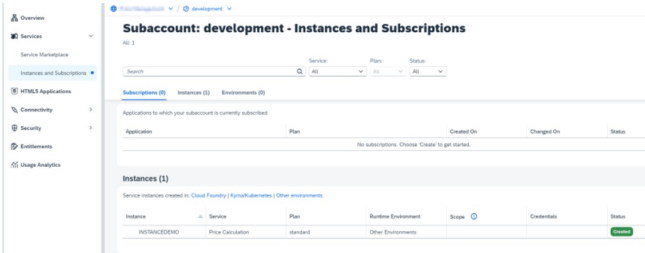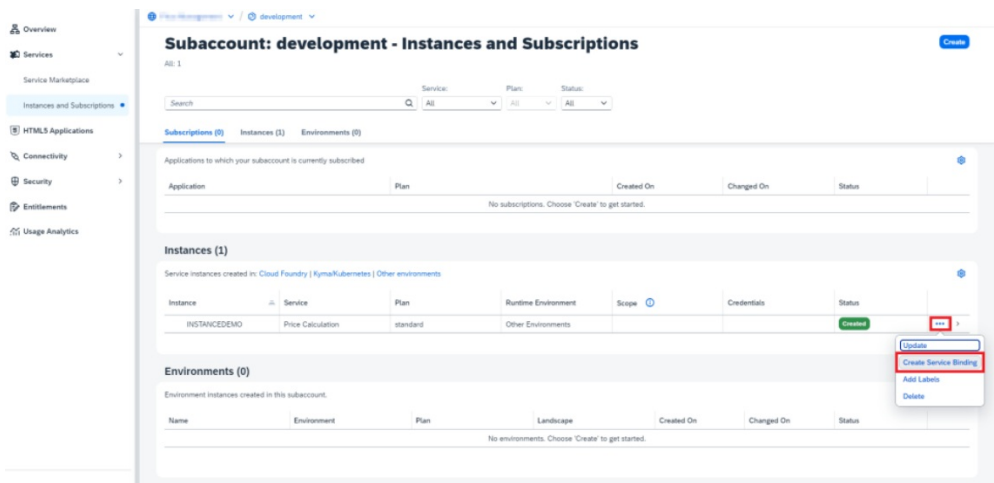|	
4. Name the instance and select **Next**. **NB**: In this guide, we use "INSTANCEDEMO" as the example name.	**New Instance or Subscription** ① Basic Info — ② Parameters — ③ Review Enter basic info for your instance or subscription. ⓘ Some services are not shown because Cloud Foundry is not enabled. To enable it, select it from the Service dropdown menu and create an instance of it. Service:* ⓘ Can't find what you're looking for? Price Calculation ˅ Plan:* standard ˅ Runtime Environment:* Other ˅ Instance Name:* ⓘ INSTANCEDEMO **Next >** Create Cancel
5. No parameters need to be specified. Select next.	**New Instance or Subscription** ① Basic Info — ② Parameters — ③ Review Configure instance parameters. ⓘ Upload a JSON file: Select JSON file **Browse...** Or specify the parameters in JSON format: Clear 1 {} < Back **Next >** Create Cancel
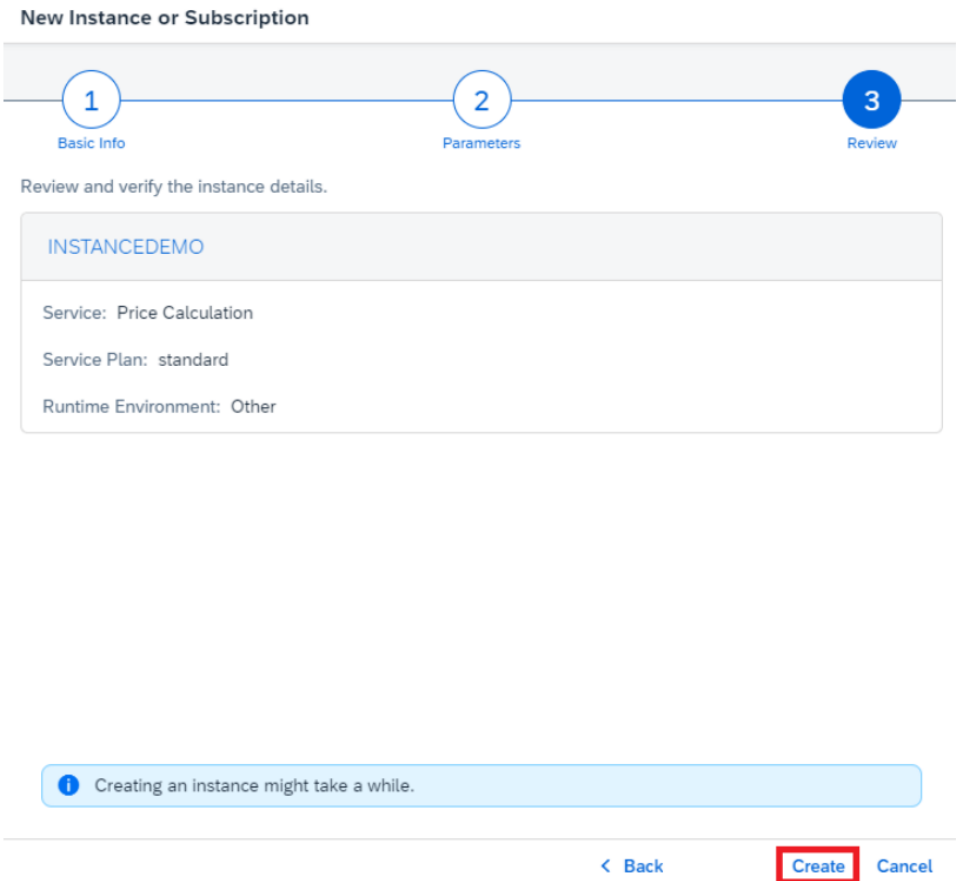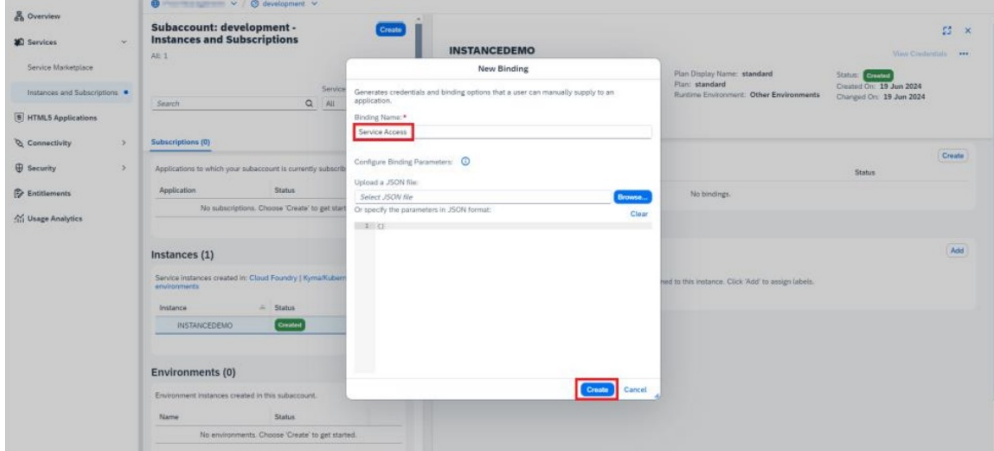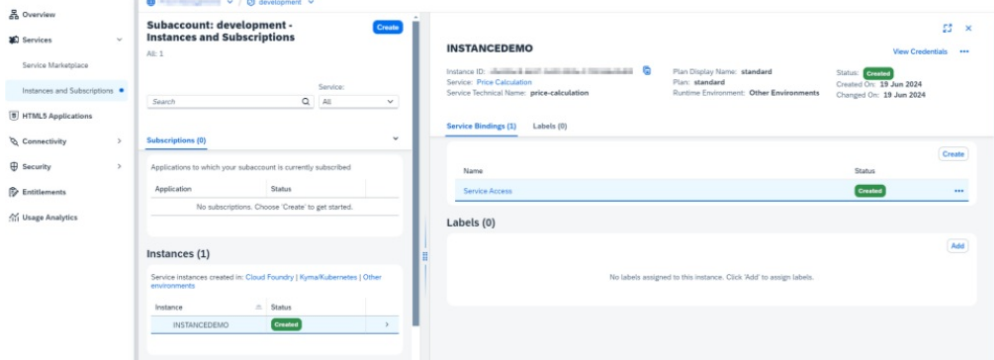
6. Check that everything is correct and select **Create**.	New Instance or Subscription ① Basic Info — ② Parameters — ③ Review Review and verify the instance details. INSTANCEDEMO Service: Price Calculation Service Plan: standard Runtime Environment: Other ℹ Creating an instance might take a while. ‹ Back Create Cancel
7. The creation process starts. Select **View Instance** to switch to the **Instances** screen under the **Instances and Subscriptions** page.	⊘ Success Service instance was created. You can view it on the Instances and Subscriptions page. View Instance Close
8. Your instance is created.	Subaccount: development - Instances and Subscriptions Instances (1) INSTANCEDEMO Price Calculation standard Other Environments Created

Create a Service Binding

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

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

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

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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