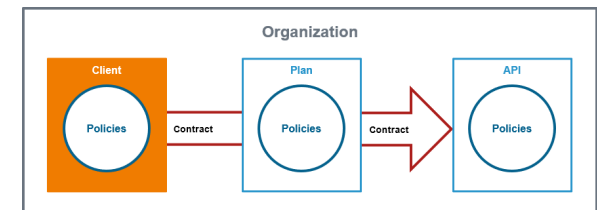


Creating Clients and Contracts

Private APIs are only accessible for known consumers, called clients. Every client version has an individual key to access the API.



Step 6: Testing and Consuming the API

Create Client "Spring Corp."

Follow Our Example User Story

David Stringer wants to enable the customer **Spring Corp.** to consume his **PrivateEchoAPI** with the higher rate limit. Therefore, he creates a client for the customer.

Good to Know

A client is the consumer of the API and is only required to use **private** APIs. Each client can consume multiple APIs within API Management. The relation between client and API is defined via a contract and a plan. As with an API or a plan, you can also add policies to a client.

When a client version is created, the system generates a unique API Key. This key is unique per client and the same for all contracts of this client version. All requests made to the API by a client through the gateway must include this API Key to identify the used client version.

Refer to [API Management Guide > Clients](#) for more detailed information.

On this Page:

- [Create Client "Spring Corp."](#)
- [Create a Contract for "Spring Corp."](#)

Related Documentation:

- [Clients](#)
 - [Creating a Client](#)
- [Contracts](#)
 - [Creating a Contract](#)

My APIs | My Clients | My Organizations | My Plans

Filter stringer

STRINGER

Test Organization of David Stringer

1 APIs

0 Clients

2 Plans

1 Members

In API Management, search for your organization and click **Clients**.

STRINGER

Test Organization of David Stringer

Overview

APIs

Clients

Plans

No clients available

Click here to create a new client

In tab **Clients** use the link **Click here to create a new client**.

API Management

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in AP I Management as well as
in the AP I Development Portal.

1 Select Entity 2 Choose Organization 3 Configure Details 4 Summary

Enter the details for your client:

Name *	Version *
Spring Corp.	1.0

Description

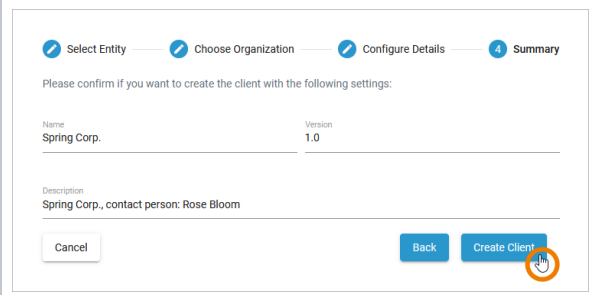
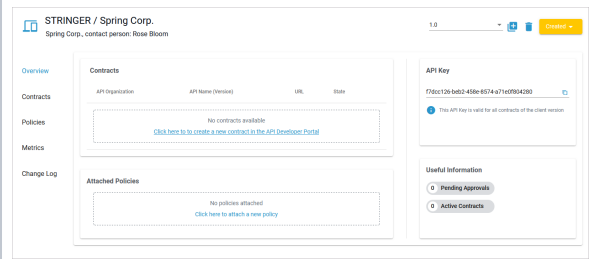
Spring Corp., contact person: Rose Bloom

Cancel Back Next

A wizard supports you during the creation process. First, enter a **Name** and an optional **Description** for the client:

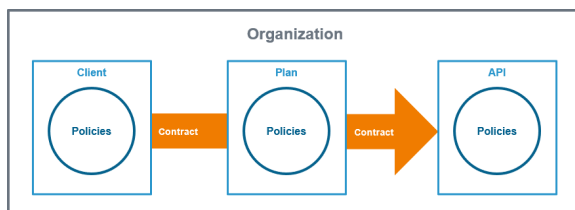
- **Name:**
Spring Corp.
- **Description:**
Spring Corp., contact person: Rose Bloom

Click **Next**.

	<p>The Summary allows you to check your entries.</p> <p>Click Create Client to confirm your settings and create the new client.</p> <p>Click Back if you want to adapt your entries.</p>
	<p>The new client has been created. The client's detail page opens automatically.</p> <p>Refer to API Management Guide > Clients to learn more about the details of a client and its configuration options.</p>

Create a Contract for "Spring Corp."

The relation between client and API is defined via a contract and a plan.



Follow Our Example User Story

David Stringer wants to enable the customer **Spring Corp.** to consume his **PrivateEchoAPI** with the higher rate limit. Therefore, he creates a contract between the **PrivateEchoAPI** and the client **Spring Corp.** for plan **Gold**.

Good to Know

A contract is a link between a client and an API through a plan offered by that API. A contract is necessary if a client wants to consume a private API, it cannot be created between a client and a public API. API contracts can only be created between clients and published APIs which are offered through at least one plan.

Refer to [API Management Guide > Contracts](#) for more detailed information.



STRINGER / Spring Corp.
Spring Corp., contact person: Rose Bloom

Overview

Contracts

Policies

Metrics

Change Log

Contracts

API Organization	API Name (Version)	URL	State
No contracts available			
Click here to create a new contract in the API Developer Portal			

Attached Policies

No policies attached

In tab **Overview** > **Contracts** use the link **Click here to create a new contract in the API Developer Portal**. This will redirect you to the Developer Portal.



PrivateEchoAPI_String...

API imported for tutorial 2 to create a private API

API Documentation

Learn more

Since you featured your API, it is displayed directly on the portal homepage.

Click **Learn more** to open the API details.

Version 1.0 of PrivateEchoAPI_Stringer [latest]

API Documentation



API imported for tutorial 2 to create a private API

Extended Description

No further description has been stored for this API

Plans

Gold	Standard
Plan with higher rate limit	Plan with low rate limit
Rate Limit: 20 requests per Minute per Client	Rate Limit: 10 requests per Minute per Client
This plan requires approval	This plan requires approval
Sign Up	Sign Up

In the **Plans** section, you find all available plans for the API and information on whether approval is required for a plan.

Click **Sign Up** on plan **Gold**.

1 Select/create Client

2 Summary

3 Confirmation

Select or create a new client

Organization

STRINGER

Search or create

Spring Corp.

Create

Select from available Clients

Organization	Client
<input checked="" type="radio"/> STRINGER	Spring Corp.

Next

Now follow the wizard through some simple steps:

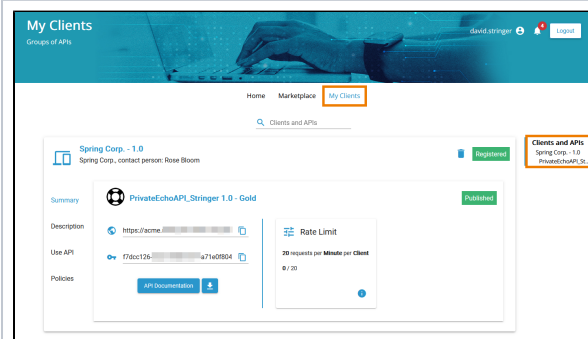
- Select your organization.

Only the **Spring Corp.** client exists in your organization. This client is therefore already selected.

<div><div><div>Select/create Client</div><div>2 Summary</div><div>3 Confirmation</div></div><div><div>Summary</div><div><div>API Documentation</div><div>Displays the Open API definition (Swagger) and allows for making test calls if the API is available.</div><div>API Documentation</div><div>Download</div></div><div><div>API Key</div><div>When an API contract is created, the system generates a unique API Key. This API Key is unique per client and the same for all contracts of this client. All requests made to the API must include this API Key:</div><div><div>As HTTP Request Header</div><div>You will be provided an API key after signup</div><div>Copy</div></div><div><div>Endpoint</div><div>Use this URL to access the API:</div><div><div>As HTTP Query Parameter</div><div>You will be provided an endpoint after signup</div><div>Copy</div></div></div><div><div>Policies</div><div><div>Rate Limiting Policy</div><div>Requests are limited to 20 requests per Minute per Client</div><div>The following headers in the response contain useful information relating to rate limit:</div><div><ul style="list-style-type: none">X-RateLimit-Limit: Rate limit allowance (per time period)X-RateLimit-Remaining: Rate limit allowance remainingX-RateLimit-Reset: The time the rate limit will be reset (in seconds)</div></div></div><div><div>Back</div><div>Confirm</div></div></div></div></div>	<p>In step 2, the summary displays the API-related information.</p> <p>Click Confirm to send your request.</p>
<div><div><div>Select/create Client</div><div>2 Summary</div><div>3 Confirmation</div></div><div><div>Confirmation</div><div><div>API Documentation</div><div>Displays the Open API definition (Swagger) and allows for making test calls if the API is available.</div></div><div><div>API Key</div><div>When an API contract is created, the system generates a unique API Key. This API Key is unique per client and the same for all contracts of this client. All requests made to the API must include this API Key:</div><div><div>As HTTP Request Header</div><div>X-API-Key: T76cc125-8574-47160f804280</div><div>Copy</div></div><div><div>Endpoint</div><div>Use this URL to access the API:</div><div><div>As HTTP Query Parameter</div><div>https://acme.gateway/STRINGER</div><div>Copy</div></div></div><div><div>Policies</div><div><div>Rate Limiting Policy</div><div>Requests are limited to 20 requests per Minute per Client</div><div>The following headers in the response contain useful information relating to rate limit:</div><div><ul style="list-style-type: none">X-RateLimit-Limit: Rate limit allowance (per time period)X-RateLimit-Remaining: Rate limit allowance remainingX-RateLimit-Reset: The time the rate limit will be reset (in seconds)</div></div></div><div><div>Finish</div></div></div></div></div>	<p>In the next step, API Key and Endpoint are provided.</p> <div><div><div>T</div><div>h</div><div>e</div><div>G</div><div>o</div><div>l</div><div>d</div><div>p</div><div>a</div><div>n</div><div>i</div><div>s</div><div>a</div><div>c</div><div>t</div><div>u</div><div>a</div><div>l</div><div>l</div><div>y</div><div>s</div><div>u</div><div>b</div><div>j</div><div>e</div><div>c</div><div>t</div><div>t</div><div>o</div><div>a</div><div>p</div><div>p</div><div>r</div><div>o</div><div>v</div><div>a</div><div>l</div><div>.</div><div>H</div><div>o</div><div>w</div><div>e</div><div>v</div><div>e</div><div>r</div><div>,</div><div>s</div><div>i</div><div>n</div><div>c</div><div>e</div><div>y</div><div>o</div><div>u</div><div>r</div><div>s</div></div></div>

erhasedi ng rights for the organization in which the plan is stored, you can create the contract without a pro

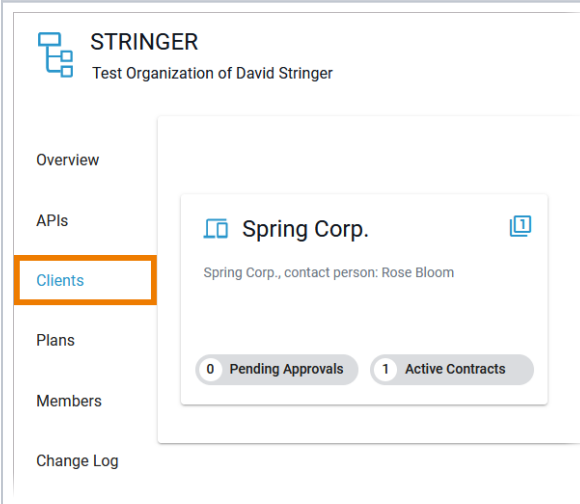
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Click **Finish** to close the wizard.

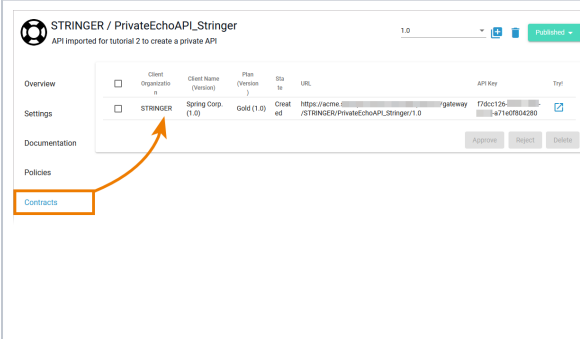
You are redirected to tab **My Clients**.

This tab provides an overview on all your clients and contracts and a table of contents on the right side for easy navigation.

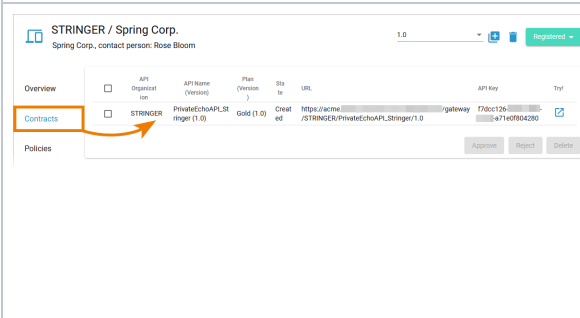


Open API Management again:

- Your new client is also displayed in tab **Clients** of organization **STRINGER**.



- The new contract is shown in tab **Contracts** of the **PrivateEchoAPI_Stringer...**



- ... and in tab **Contracts** of the client **Spring Corp.**

Your API is ready for testing.