# **Testing APIs**

When you have finished configuring your API, **Scheer PAS** API Management allows you to test your implemented configurations.

Testing of API configurations is only possible with REST APIs that are coming with an OpenAP I Specification.

There are slight differences between the testing of a public API and the testing of a private API:

- **Private** APIs are only accessible for known consumers, called clients in API Management context. For Private APIs, a contract must be created between the client and the API it wishes to consume. If you want to test a Private API, you need to test it via one of the created clients.
- Public APIs can be invoked by any consumer. However, API Management still allows to restrict access to Public APIs by adding policies.

While testing, you can check if the API is invokable. If you have configured policies for an API, you can also check if these policies are applied correctly.

## **API** Definition

To test an API with API Management, you need to provide an API definition in Swagger format. For more information on API definitions, refer to Managing APIs > Definition.

If the API has been imported from the API Catalog, the definition file should have been added automatically.

If you have added policies to your API setup, you may have to add some information to the API definition file, e.g. regarding tokens that need to be supplied.

## Testing the API

The process of testing itself is the same regarding public and private APIs. However, how to access the test page within API Management differs.

On this Page:						
<ul> <li>API Definition</li> <li>Testing the API         <ul> <li>Test Page of Public APIs</li> <li>Test Page of Private APIs</li> <li>Testing</li> <li>Testing the Application of a Policy</li> </ul> </li> </ul>						
Related Pages:						



- API Settings
  - Finding APIs
  - Creating an API
     Importing APIs
  - Publishing an API
  - Retiring an API
  - Deleting an API
- Getting Started With API Management
- APIs
- Clients
- Policies

#### Related Documentation:

Swagger Documentation

### Test Page of Public APIs

If you want to test an API marked as **Public**, you need to open the detail s page of the API. Open the sidebar menu and select **AII APIs** from menu item **APIs**:



On page All APIs lookup the API you want to test and click on its name:

### Test Page of Private APIs

Open the detail page of a client and got o tab **APIs**. In this tab you will find a list of all APIs the client consumes.

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24, Kite Avenue	Toronto, ON M4W 1A8, Canada		Search for APIs to consume			
© Created on 2019-10-07			Create a new API contract for this client Create a new version of this client (New Version)			
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Status: REGISTERED			Re-Register	Unregister		
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Click Try-It-Out on the API you want to test.



The details page of the API opens. If the API has a definition file linked, a link **View API Definition** is displayed:

Create Contract
Create Contract
Create Contract

Click this link to open the API Definition in test mode.

#### Testing

You can use the Swagger UI to make test calls to your service. Click on the method you want to test and use the **Try it out** button.





### Testing the Application of a Policy

You can also test policy application using the Swagger UI. Assume that for the current API (SupportMana ger in this case) the Ignored Resources Policy has been added. Consumers of the API should not be able to execute GET /supportcases /\*:

invocation as part of the ov	s specific functionality to be appli erall policy chain.	ed to the API		
licy Type				
Ignored Resources Policy	~			
nored Resources Policy	Configuration			
Manage the list of AD and	- thetaillhe learned			
Manage the list of API rout	es that will be ignored.			
Ignore Resources Rule				
Ignored URI			HTTP	
(/path/to/.*)			·	Add
Ignored Resources				
Path	Method			
/supportcases/*	GET			×
2				

To test if the policy is applied to a call, try to test the ignored resource.

If everything is fine, an HTTP 404 error is displayed in section Server response.

Server resp	onse						
Code	Details						
404	Error: Not Found						
	Response body						
	( Type*: NotFound*: 1907), Tabance*: 1907, TesponerCode*: 1907, TesponerCode*: 1904, Tessager: TesponerCode*: 1904, Tessager: TesponerCode*: 1904, Tessager: TesponerCode*: 1904, Tessager: Tessager: Tessager: 1904, Tessager: Tessager: Tessager: 1904, Tessager: 1904, Tessager: Tessager: 1904,						
	Response headers						
	content-type: application/poon date: Wec(35 Jan 2022 10:0417 OMT arrwer: rajku # Meters apply: All the code: 10007 # policy-failume-code: 10007 # policy-failume-code: 10007 # policy-failume-tode: 10007						
Responses							
Code	Description						

The **Response body** shows the error message "Requested path \"/supportcases\" has been ignored.". Thus, the API has been invoked and the Ignored Resources Policy has been applied to the call as intended.