

# Managing a Public API

This tutorial explains step by step how to create all necessary elements of API Management to be able to manage a public API. Public APIs are APIs that are accessible by any consumer. However, **Scheer PAS API Management** still allows to restrict access to public APIs by adding rules to them, the so-called policies. You can also restrict the visibility of each API to ensure that only a defined group of persons can find it.

### Follow Our Example User Story

ACME Corp. uses **Scheer PAS API Management** to provide customers with access to the ACME APIs. For example, ACME Corp. is running the test service **RESTAPI\_Echo\_Example** which implements a very basic REST service that is perfect for testing.

Now David Stringer of ACME Corp. wants to give developers in general the opportunity to use this service. So David is going to setup public API access to the service **RESTAPI\_Echo\_Example**.

You are going to help him with that task.

During this tutorial you will learn

- how to create an organization
- how to import the API of an xUML service from the PAS Administration to API Management
- how to add policies to the API
- how to make the API available for all visitors of the API Developer Portal
- how to test API access
- how to consume a public API via the API Developer Portal



All content in a lighter font color refers to the story of the tutorial.



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### Related Pages:

- [Tutorial 2: Managing a Private API - Step by Step](#)
- [Tutorial 3: Understanding the Approval Process](#)

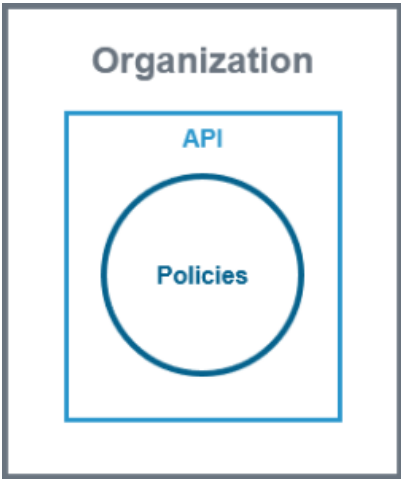
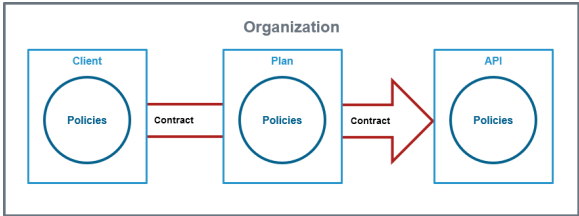
### Related Documentation:

- [API Management Guide](#)
  - [Getting Started](#)

## A Short Introduction to API Management Concepts

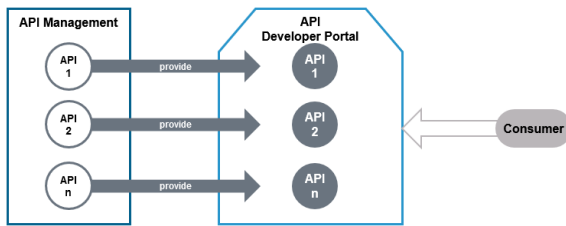
The main elements of API Management are grouped within an **Organization**, which is the "container" for all other elements such as **Clients**, **Plans** and **APIs**. APIs represent real backend APIs (Application Programming Interfaces). API Management provides a way to turn unmanaged (raw) back-end APIs into **managed** APIs by attaching policies to them.

Every managed API can be published as **public** API or **private** API:

Public APIs...	Private APIs...
<ul style="list-style-type: none"><li>• ... reside in an organization.</li><li>• ... can contain policy definitions.</li><li>• ... are accessible to everyone.</li></ul> 	<ul style="list-style-type: none"><li>• ... reside in an organization.</li><li>• ... can contain policy definitions.</li><li>• ... can only be consumed by a client via a contract and a plan.</li><li>• Plans and clients can also contain policies.</li></ul> 

- Policies are rules or units of work applied when the API is accessed.

APIs are created within **API Management**. They are provided via the **API Developer Portal** from where consumers of the API have access to them.



For more information on the concepts of API Management, refer to [The Concepts of API Management](#).

## Prerequisites

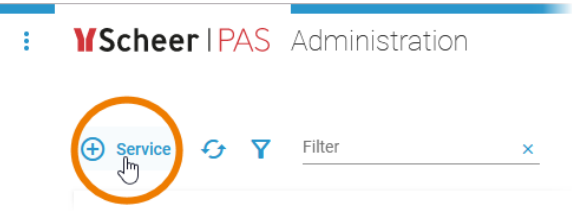

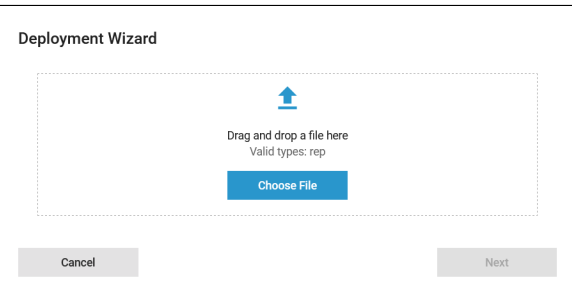

The following elements must be present or installed in order to be able to go through the step-by-step tutorials:

- You need an up-and-running installation of **Scheer PAS** and access to the components **API Management** and **Administration**.
- The **RESTAPI\_Echo\_Example** must be deployed in the administration component. You can [do wnload the repository here](#) to deploy it.

## How to Deploy the Example

Deploy the service via the deployment wizard within the PAS Administration.

<div style="text-align: center;"> <h3>Administration</h3> <p>Manage the Platform Components</p> <hr/> <div style="display: flex; align-items: center;"> <div> <p>Use this component to control and display the platform services.</p> </div> </div> <div style="text-align: right; margin-top: 20px;">★</div> </div>	<p>To access the deployment wizard, open the <b>Administration</b>.</p> <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <p><b>i</b> Your user needs the profile <b>xuml_container_admin</b> to use the deployment wizard and to manage xUML services in the Administration.</p> </div>
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	<p>Use  <b>Service</b> in the navigation bar to open the deployment wizard.</p>
	<p>The wizard opens in a separate pop-up window.</p> <p>As soon as you have selected the <b>.rep</b> file of the service, the wizard guides you through the necessary steps to deploy the xUML service.</p> <div data-bbox="982 714 1144 1291"><p>In step 2 of the deployment wizard, please adjust the service name so that it matches your user, e.g. restapi-echo-example-stringer.</p></div> <p>Refer to <a href="#">Administration Guide &gt; Working With the Deployment Wizard</a> for detailed step-by-step instructions.</p>