

WSO2 API Manager 2.0.0

Fundamentals

Module 01 - Introduction to API Manager

WSO2 Training

Course Objectives

At the end of this course, attendees will:

- Understand the role of WSO2 API Manager in their organization
- Get introduced to the WSO2 API Manager features and architecture
- Understand how to create, advertise and manage your APIs end-to-end using WSO2 API Manager
- Collect and analyze runtime statistics using WSO2 Data Analytics Server
- Understand the security aspects of the WSO2 API Manager
- Understand how to work with monetization of APIs
- Understand how to use published APIs
- Learn the different options available for engaging with community
- Get a basic understanding of deployment patterns

Course Outline

- Introduction to API Manager
- Working with APIs
- Managing the API Gateway
- Working with Statistics
- Working with Security
- API Monetization
- Published APIs
- Engaging with Community
- Introduction to Scalable Deployment Patterns and Façade Pattern

Objectives

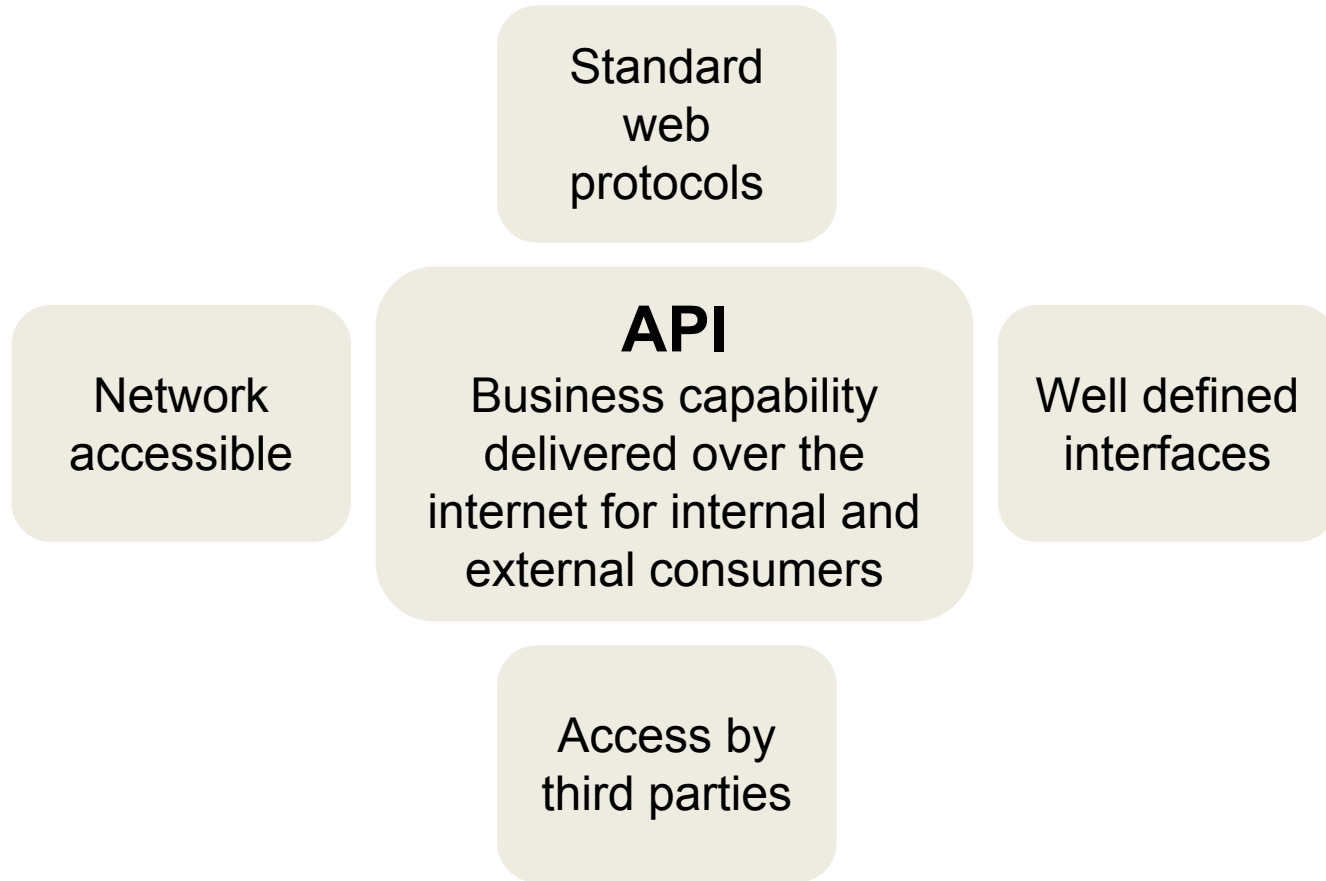
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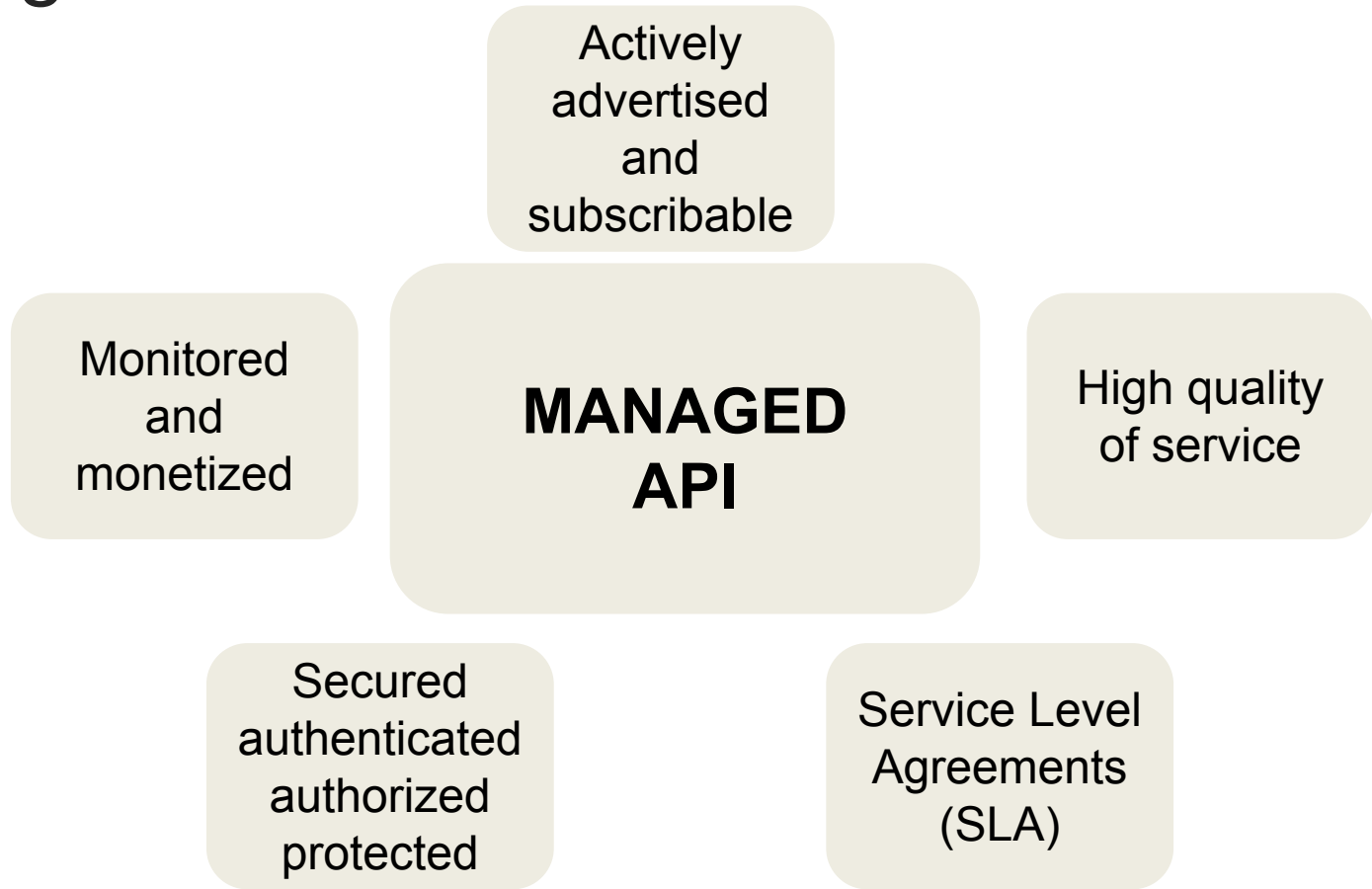


Terminology and Background

APIs



Managed APIs



Why Expose Your APIs to the Public?

Expose APIs to Public

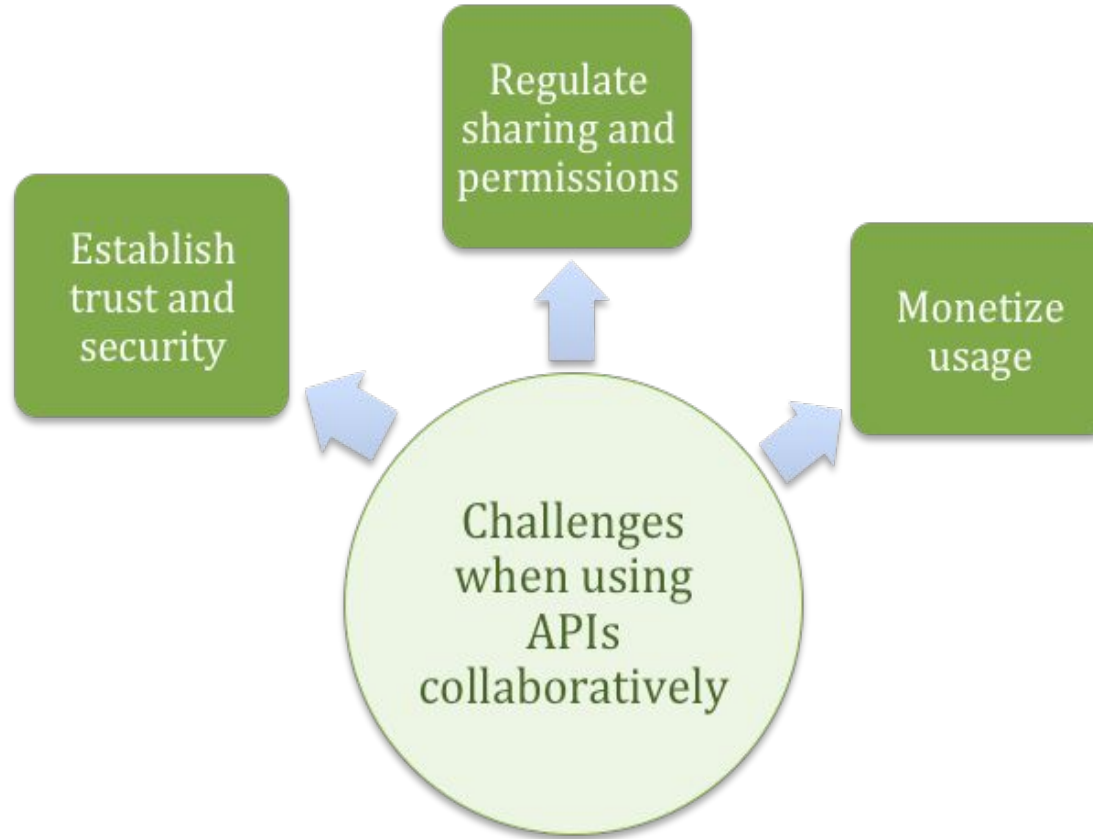
Innovative ways to **build** new solutions

Increase **growth potential** and
partnership advancements

Reduce **duplication** and **rework**

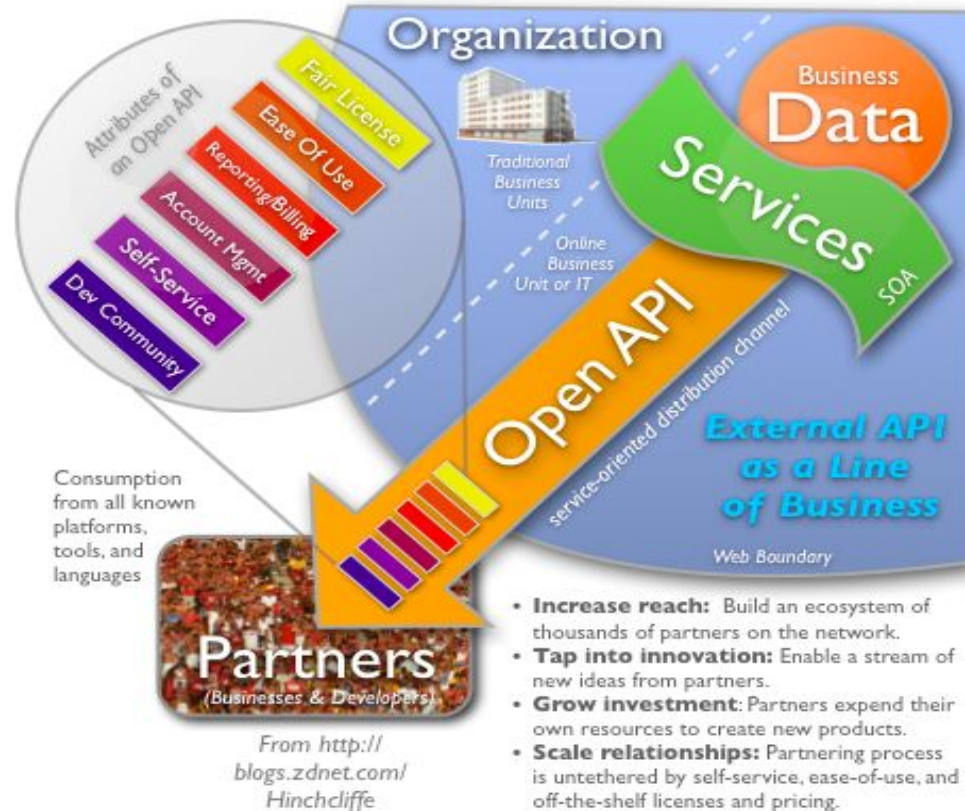
Increase **collaborative** development

Why is API Management Important?



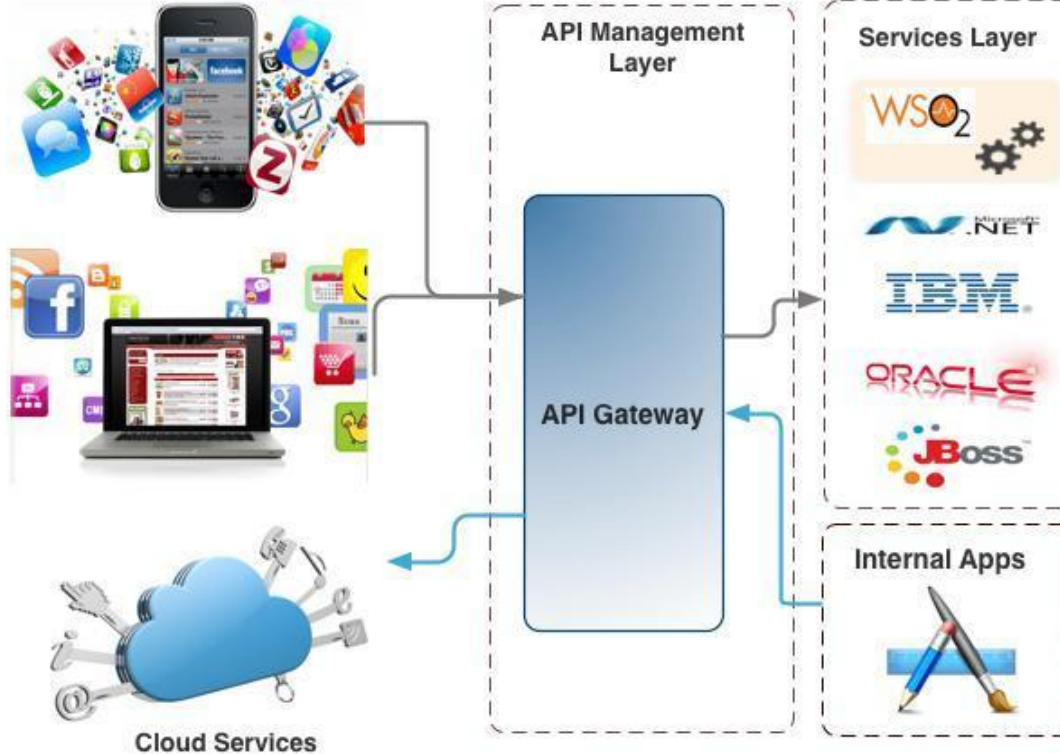
Business Model

Web Services As A Business



API Centric Capabilities

Internal and External Applications



Use Cases



<https://developer.stubhub.com/store/>



<http://store.apiculture.com/>



<https://apistore.dialog.lk/store/>

APICultur

The screenshot shows the website store.apicultur.com. The header includes the Apicultur logo, navigation links (APIs, Prices, About, Blog, Sign-up, Login), and a search bar. The main content is divided into three sections: Recently Added, APIs groups, and More information.

Recently Added

- BuscaTipoRestaurante-1.0 (Molinodeas, 5 stars)
- ConjugaListaTiempos-1.0.0 (Molinodeas, 5 stars)
- ConjugaTiempo-1.0.0 (Molinodeas, 5 stars)
- ConjugaVerbo-1.0.0 (Molinodeas, 5 stars)
- Publicidad-1.0.0 (Molinodeas, 5 stars)

APIs groups

- Phonetics**: All the phonetic word information you need: transcription, syllables, minimal pairs, stressed vowels...
- Lemmatisation**: Services to help you find lemmas and grammatical categories of different words and passages of text.
- Frequency**: Classification of words by levels of frequency.
- Complexity Levels**: Classification of words by levels of learning complexity (according to Cervantes Institute levels A/B/C/D).
- Texts by Numbers**: Find words that are more, or less, commonly used, the longest, most repeated etc. in a text.
- Spanish dictionary**: Spanish dictionaries APIs.
- Synonyms**: Complete lists of synonyms by word and by lemma.
- Exercises**: Create spelling exercises, accents, syllables, verb conjugation, etc., with correct answer and other options.
- Basic Spanish Dictionary**: Spanish in 1000 words.
- Spanish Expressions**: The most common Spanish expressions: definition, alternatives, level of difficulty, examples of use, etc.
- Word Games**: Anagram-Maker, Word Chains, Crossword and Scrabble solutions and other word games.
- Gender and Number**: Analysis and inflections of masculine and feminine forms, singular and plural forms.

More information

How to use Apicultur

Api prices (each 10,000 calls)

Api class	Price
XS size	€0.2
S size	€2
M size	€10
L size	€20
XL size	€200

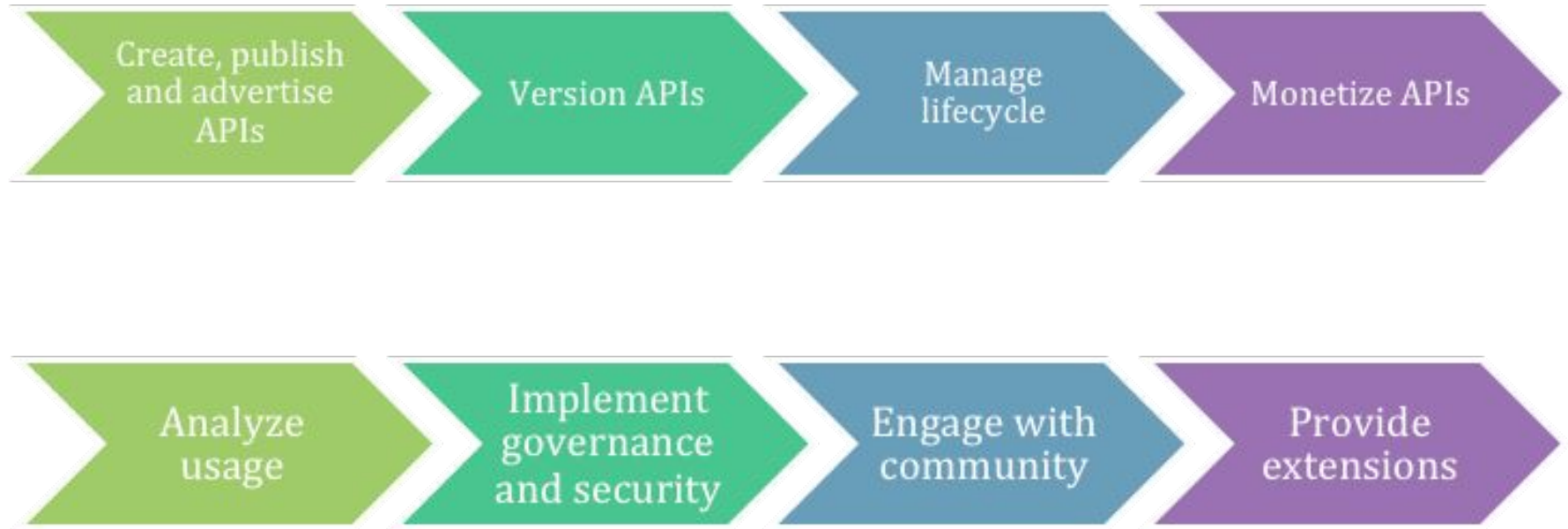
APIDAYS MEDITERRANEA

Footer: molino © Copyright 2012 store.apicultur.com/apis/list?tao=Gender and Number Powered by WSO2 API Manager Newsletters Accionistas Nosotros Dónde estamos Acerca de



Introduction

What is WSO2 API Manager?



API Manager Features

Design and Prototype APIs

Publish and Govern API Use

Control Access and Enforce Security

Create a Store of All Available APIs

Manage Developer Community

API Manager Features

Manage API Traffic

Monitor and Monetize

Design and Prototype APIs

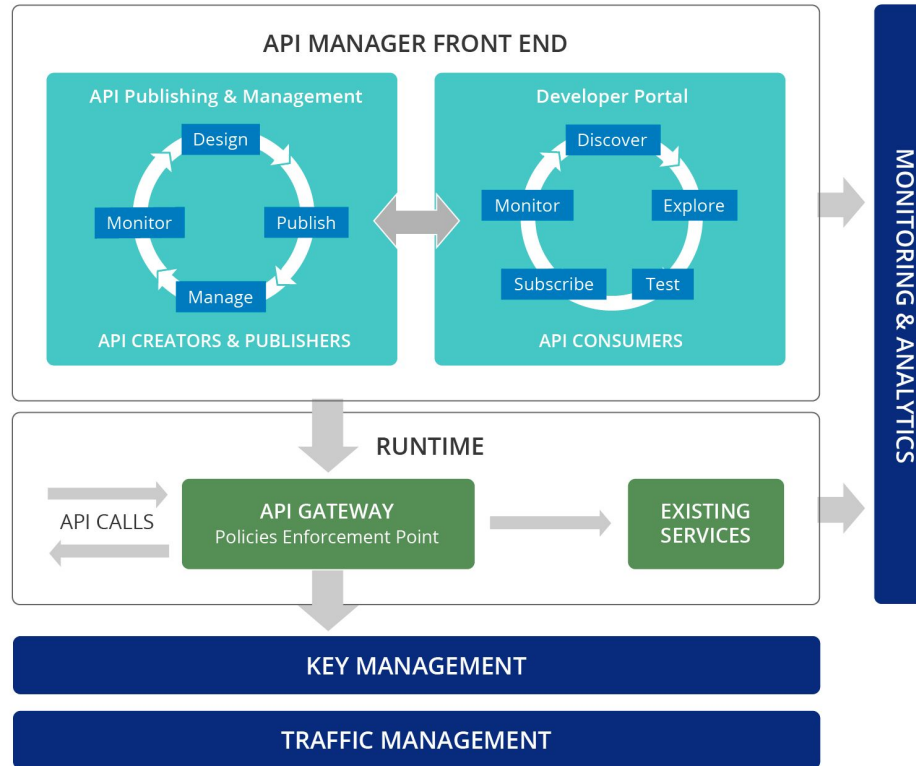
Pluggable, Extensible and Themable

WSO2 Platform Multitenancy Support



Architecture

Components



<https://docs.wso2.com/display/AM200/Key+Concepts>

API Publisher

The screenshot displays the WSO2 API Publisher web application. The top navigation bar includes the WSO2 logo and the text 'API Publisher' on the left, and a user profile icon labeled 'admin' on the right. Below this, a breadcrumb trail shows 'HOME / APIS'. A dark sidebar on the left contains three menu items: 'APIS' (selected, with a gear icon), 'STATISTICS' (with a bar chart icon), and 'MANAGE SUBSCRIPTIONS' (with a gear icon). The main content area has a blue header bar with a back arrow and a '+ ADD NEW API' button. Below this, the heading 'All APIs' is followed by a light gray informational box. The box contains an information icon, the text 'No APIs created yet.', and a prompt to 'Click one of the buttons below to get started.' At the bottom of the box are two buttons: 'New API...' and 'Deploy Sample API'.

WSO2 API Publisher

admin

HOME / APIS

APIS

STATISTICS

MANAGE SUBSCRIPTIONS

← + ADD NEW API

All APIs

No APIs created yet.

Click one of the buttons below to get started.

New API... Deploy Sample API

Usage of API Publisher

The screenshot displays the WSO2 API Publisher web application. At the top, a horizontal progress bar indicates three stages: 1 Design (highlighted in blue), 2 Implement, and 3 Manage. Below this, the application header shows the WSO2 API Publisher logo and a user profile for 'admin'. The left sidebar contains navigation links for HOME / APIS, APIS (selected), STATISTICS, and MANAGE SUBSCRIPTIONS. The main content area is titled 'All APIs' and features a '+ ADD NEW API' button. A message states 'No APIs created yet. Click one of the buttons below to get started.' Below this message are two buttons: 'New API...' and 'Deploy Sample API'. To the right, a section titled 'Let's get started!' with the sub-header 'Add New API' lists three options: 'I have an Existing API' (Use an existing API's endpoint or the API definition to create an API.), 'I have a SOAP Endpoint' (Use an existing SOAP endpoint to create a managed API. Import WSDL of the SOAP service.), and 'Design New API' (Design and prototype a new API.).

1 Design 2 Implement 3 Manage

WSO2 API Publisher admin

HOME / APIS

APIS

STATISTICS

MANAGE SUBSCRIPTIONS

← + ADD NEW API

All APIs

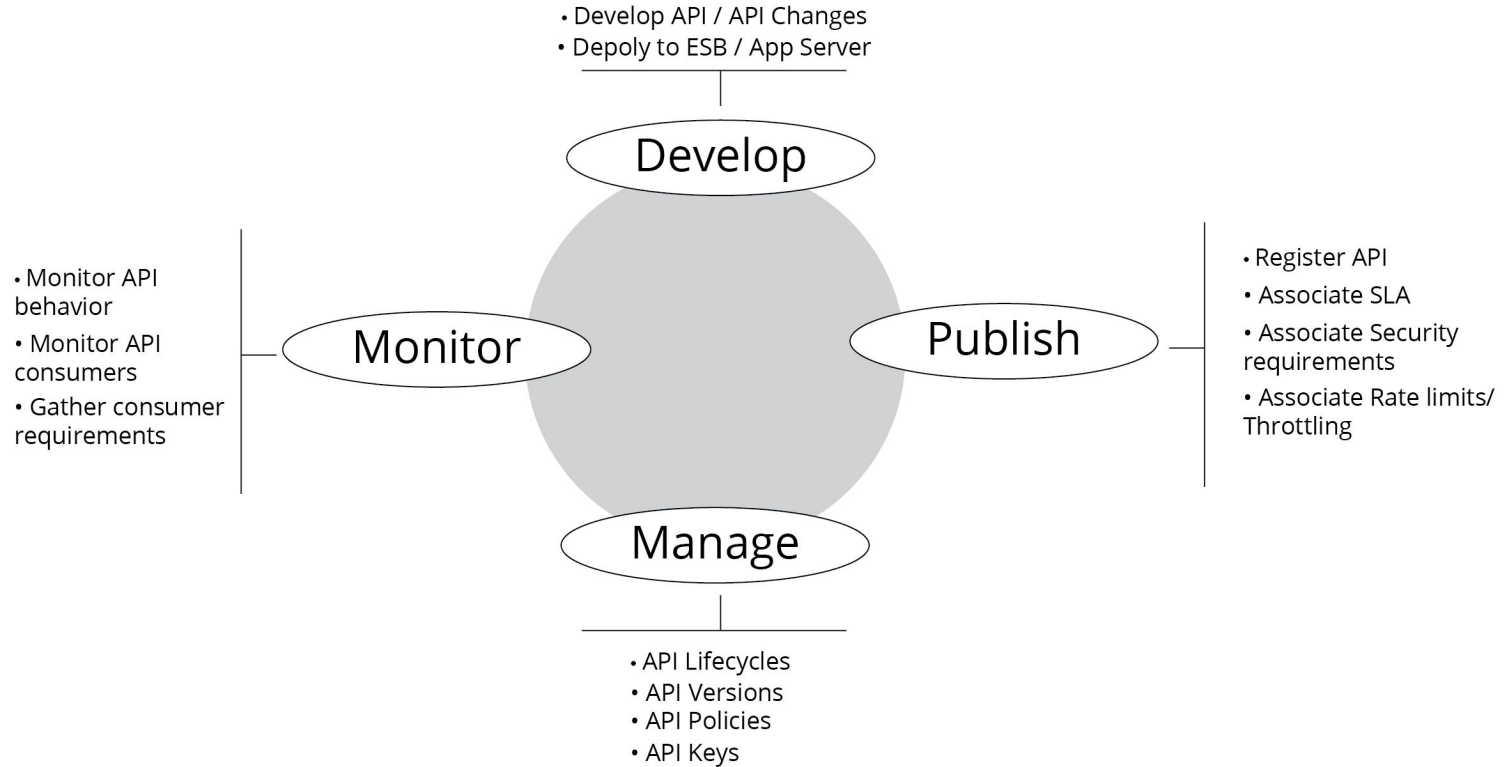
No APIs created yet.
Click one of the buttons below to get started.

New API... Deploy Sample API

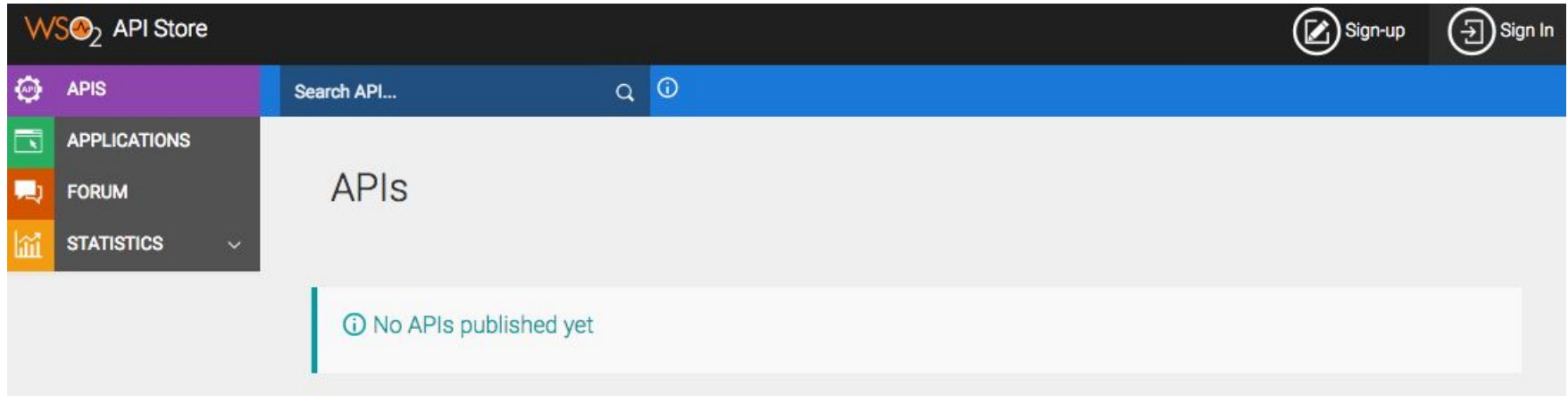
Let's get started!
Add New API

- ☐ I have an Existing API
Use an existing API's endpoint or the API definition to create an API.
- ☐ I have a SOAP Endpoint
Use an existing SOAP endpoint to create a managed API. Import WSDL of the SOAP service.
- ☐ Design New API
Design and prototype a new API.

API Publisher



API Store



<https://docs.wso2.com/display/AM200/Key+Concepts>

Usage of API Store

The screenshot displays the WSO2 API Store interface. At the top, there's a navigation bar with 'WSO2 API Store', 'Sign-up', and 'Sign In' buttons. Below this is a sidebar with 'APIS', 'APPLICATIONS', 'FORUM', and 'STATISTICS' options. The main content area is titled 'APIs' and shows a message 'No APIs published yet'. On the right, the 'Add Application' form is visible, with fields for 'Name*' (PizzaApp), 'Per Token Quota' (Unlimited), and 'Description'. Below the main content, a detailed view of 'PizzaShackAPI - 1.0.0' is shown, including a pizza image, version details, and a 'PUBLISHED' status. On the far right, a 'Create your Account' sidebar contains fields for 'Username*', 'Password*', 'Re-type Password*', 'First Name*', 'Last Name*', and 'Email*', along with 'Sign Up' and 'Cancel' buttons.

WSO2 API Store

APPLICATION LIST

APIS

APPLICATIONS

FORUM

STATISTICS

Search API...

APIs


No APIs published yet

APPLICATION LIST **EDIT**

PizzaApp

Details **Production Keys** **Sandbox Keys** **Subscriptions** **SDKs**

Filter by ...

API Name	Subscription Tier
 PizzaShackAPI - 1.0.0 PUBLISHED	Unlimited

Show 10 entries Showing 1 to 1 of 1 entries

PizzaShackAPI - 1.0.0

Version: 1.0.0

By: PizzaShack Business Owner

Updated: 11/Jul/2016 15:36:35 PM IST

Status: PUBLISHED

Rating: ★★★★★

Create your Account

Username *

Characters left: 30

Password *

Re-type Password *

First Name *

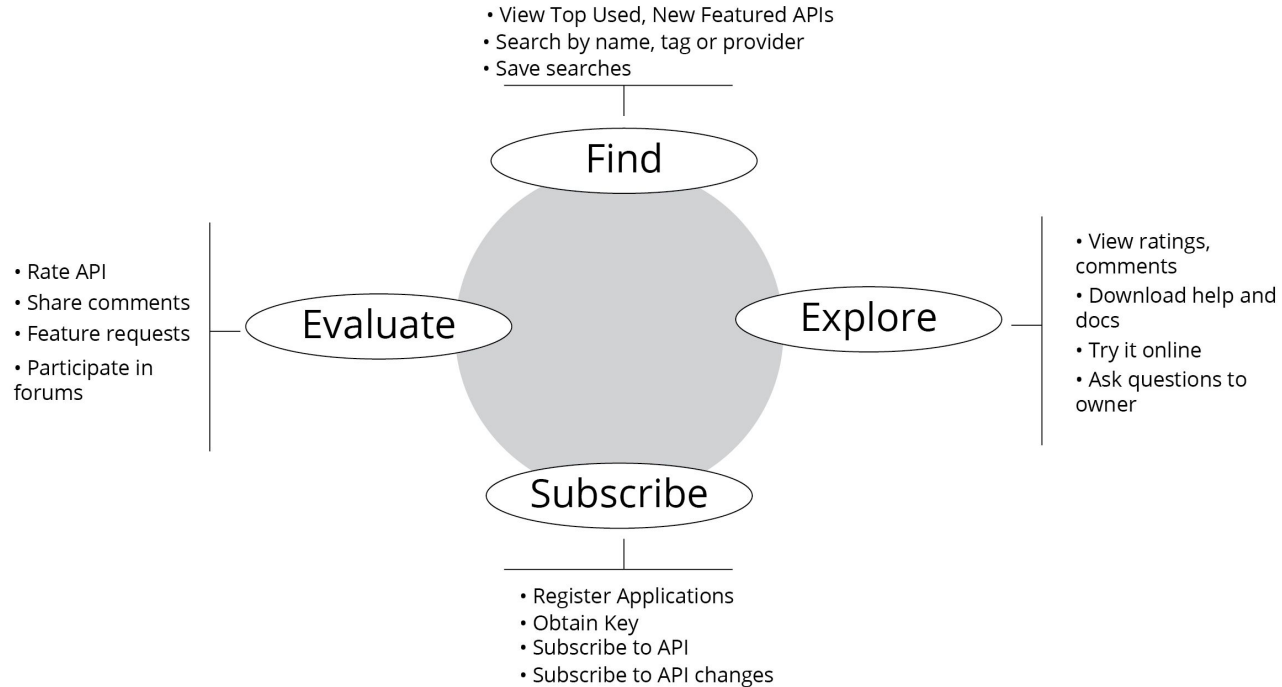
Last Name *

Email *

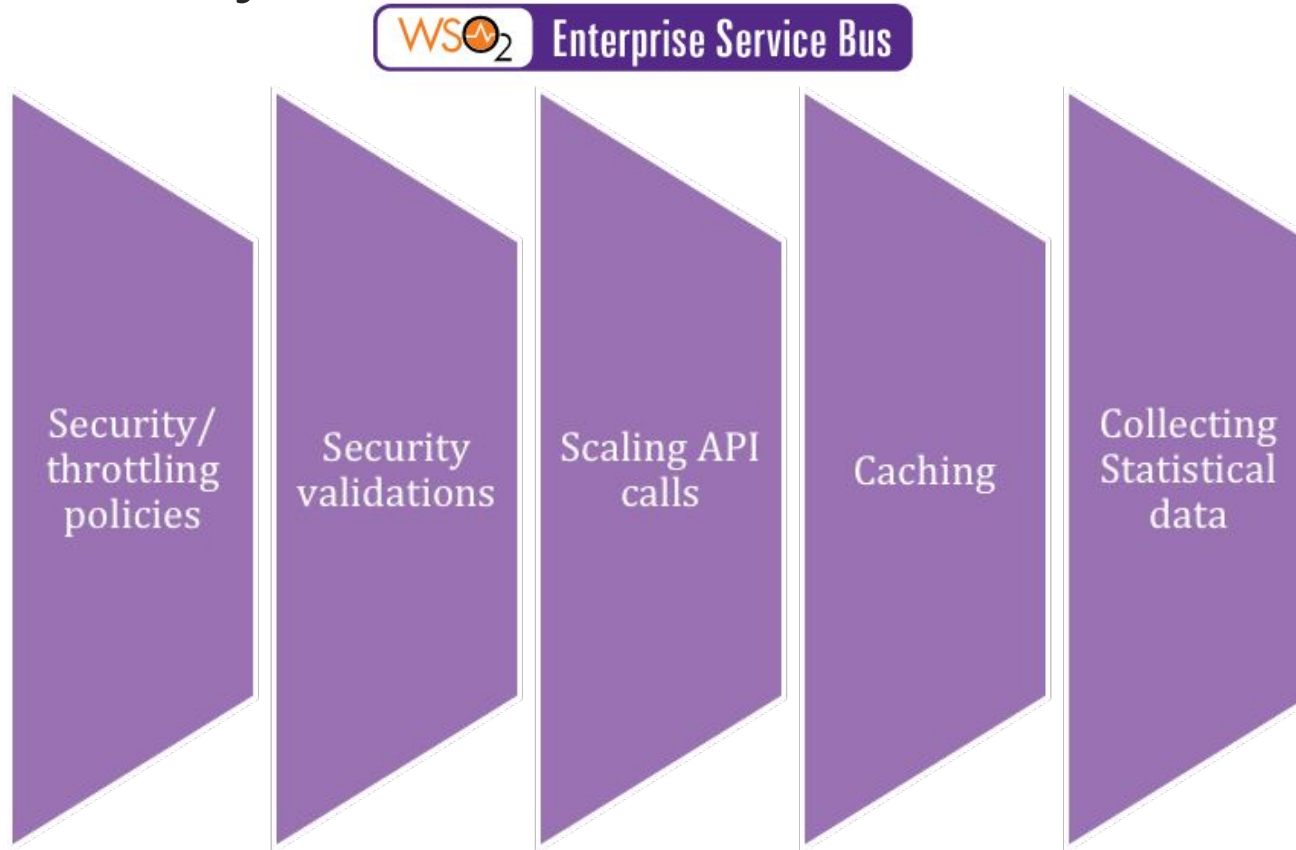
View Additional Details

Sign Up **Cancel**

API Store



API Gateway



<https://docs.wso2.com/display/AM200/Key+Concepts>

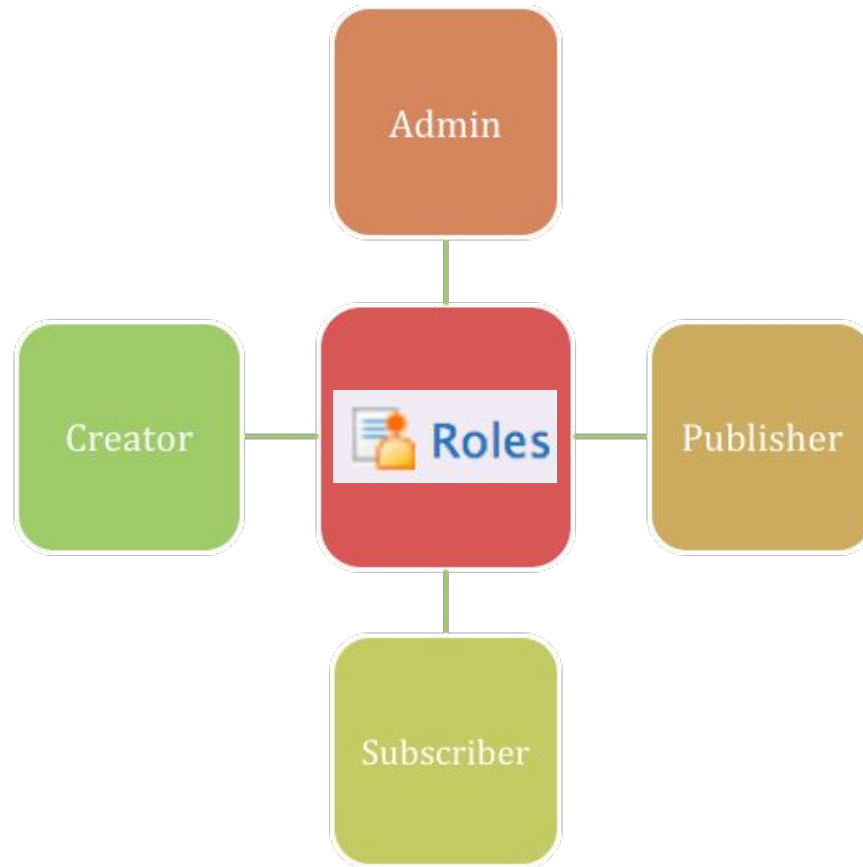
Key Manager

Used by the **API Gateway** to handle **security** and **access tokens** (Internal or External Key Manager)



<https://docs.wso2.com/display/AM200/Key+Concepts>

Common User Roles



LAB

Getting Started with WSO2 API Manager

LAB

Defining Users and Roles

