

CASE STUDY

INTEGRATION OF WSO2 API MANAGER WITH ORACLE

Our client, a major company in the **communications sector**, had a system to publish APIs based on an Oracle solution OSB consuming services exposed in its corporate database (Oracle). In that same database tables they were allowing consumers to authenticate.

THE PROBLEM

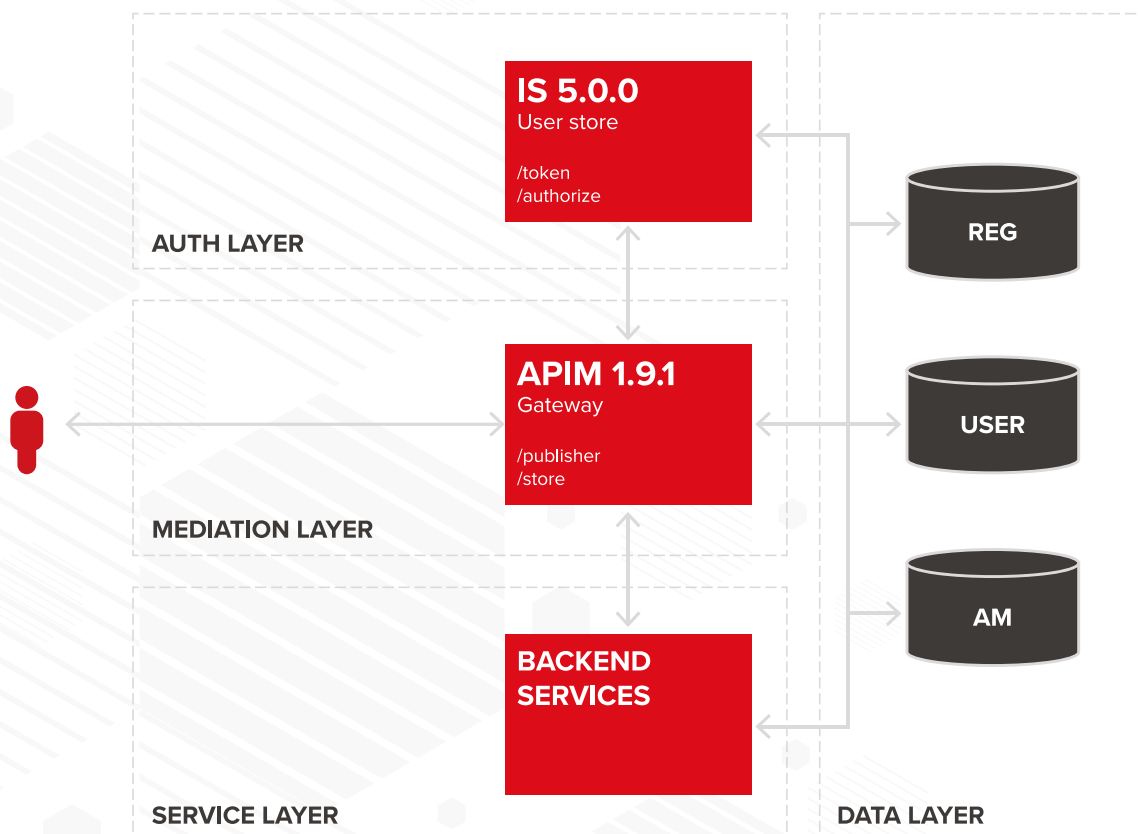
This architecture did not allow escalation in operations and the design of new services because it lacked the necessary management tools for the government of APIs, and at the same time the system complicated a lot the policies needed to authorize and authenticate how the APIs are used and by whom.

THE SOLUTION

The project consisted of defining and monitoring the implementation of a robust and scalable architecture based in WSO2 products, to create a layer of API Management (can define API Management as the process to publish, promote and monitor APIs in a secure and scalable environment) .

It also includes all those resources focused and needed on the creation, documentation and socialization of the APIs, that will be integrated with an uncoupled Authorization layer. All of this using the same scheme of services that already existed based on Oracle OSB.

An outline of the solution is represented here:



WSO2 product ecosystem is supported on a suite that allows management of various scenarios for identity management and authentication and authorization processes .

Within the WSO2 ecosystem there is a product called Identity Server that meets all security requirements existing in most of the Information Systems.

As a summary, WSO2 Identity Server covers the following points:

AUTHENTICATION & IDENTIFICATION	Who are you?
AUTHORIZATION	What can you do?
CONFIDENTIALITY	Private or secret transmission of the message
INTEGRITY	No one has altered the message
NO REJECTION	No one can reject/question the transaction or the messages
ANONYMITY	Certain transactions or messages cannot be tracked
AVAILABILITY AND RELIABILITY	Guaranteeing that the service is always functional and operative
AUDIT	Evidence can be tracked and collected
IDENTITY MANAGEMENT	Management of the lifecycle of credentials and attributes

RESULT

Thanks to the solution , we were able to improve system functionality of the company, that can now meet its strategy of exposing APIs in a robust and scalable way.

It is an interesting project of integration between two of the main areas where are pivoting many modern digital transformation initiatives of companies. Only establishing a robust Identity Management and with a powerful management tool that you can support the so called API Economy .

To extend these concepts , we recommend you to read these articles where our Architects introduce both the API and the Identity Manager Server:

- ◆ [**WSO2 API Manager: a must-have in your business strategy**](#)
- ◆ [**WSO2 Identity Server, the next step for IAM solutions**](#)



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CONTACT US


SPAIN

 C/ Gonzalo Jiménez de Quesada, 2, Torre Sevilla, planta 4, 41092, Sevilla

 contact@chakray.com

 +34 955 252 520


SRI LANKA


 104 1/1, Pagoda Road, Kotte, Pita Kotte. Sri Lanka


 apac-info@chakray.com

 +94 11 580 0887

PERU

 Los Ibis 165, Dpto. 101, San Isidro, CP 15036, Lima. Peru

 info.peru@chakray.com

 +51 1 644 9116


UNITED KINGDOM

 3 High Street, Warwick, Warwickshire, CV34 4AP


 info@chakray.co.uk

 +44 (0) 1926 298 195

MEXICO

 Calle Parral N° 41
Colonia Condesa
Delegación Cuauhtémoc
CP 06140, Ciudad de México


 info.mexico@chakray.com

 +52 55 8311 4415

CANADA

 40 rue François-De Lauzon
La Prairie (Québec) J5R6W6
Canada

 info.canada@chakray.com

 +1 (581) 700 03 75