




WSO2 API Manager 4.1.0 Fundamentals - Integration Profile

SaaS and B2B Integration



WSO2 Training

CC by 4.0



Module Objective

At the end of this module, attendees will be able to:

- Understand how to connect to Cloud/web APIs via connectors.
- Send and receive information over standard protocols using connectors.



Connectors

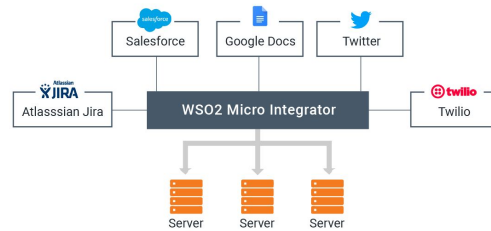
Connectors allow the Micro Integrator to interact with third-party services such as Twitter, Salesforce, Google Docs, JIRA, etc.

- Operations provide access to APIs.
- You can download connectors from the [WSO2 Connector Store](#), add them to your integration sequence in WSO2 Integration Studio, and enable them in your Micro Integrator instance.
- You can also create your own custom connector.



Connectors

- A ready-made tool used for connecting to public web APIs.
- Simplified configuration to access external APIs.
- 'Cloud to Enterprise' and 'Cloud to Cloud' integration.





Connectors - Architecture

A Connector,

- Is self contained and independent.
- Can be dynamically plugged into the Micro Integrator.
- Has dynamic tooling support with WSO2 Integration Studio.



Types of Connectors

SaaS Connectors

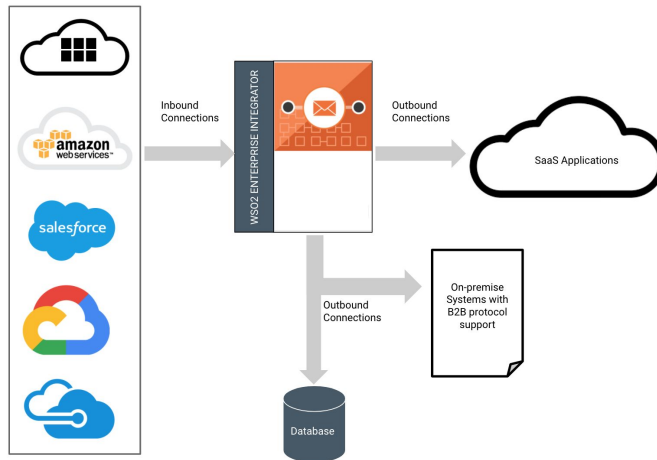
Popular B2B Connectors

Database Connectors

There are three types of connectors available in WSO2 EI.

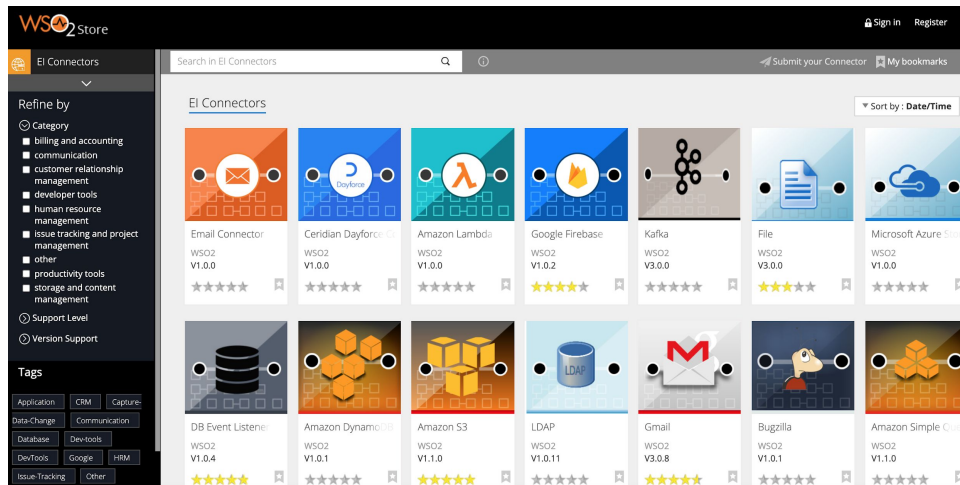
- **Cloud Connectors:** These connectors enable you to integrate with the APIs of external cloud systems (SaaS Applications) such as Salesforce, ServiceNow, Gmail, Amazon S3, etc.
- **Technology Connectors:** You can send and receive information over standard protocols using connectors like File Connector, ISO8583 Connector, etc.
- **Database Connectors:** You can integrate with databases and perform actions using connector operations.

Inbound and Outbound Connections



Most of the connectors available in the connector store are outbound connectors that illustrate connections and operations going out from WSO2 EI to third-party applications and systems. However, there are connectors that also enable inbound connectivity from popular third-party applications into WSO2 EI.

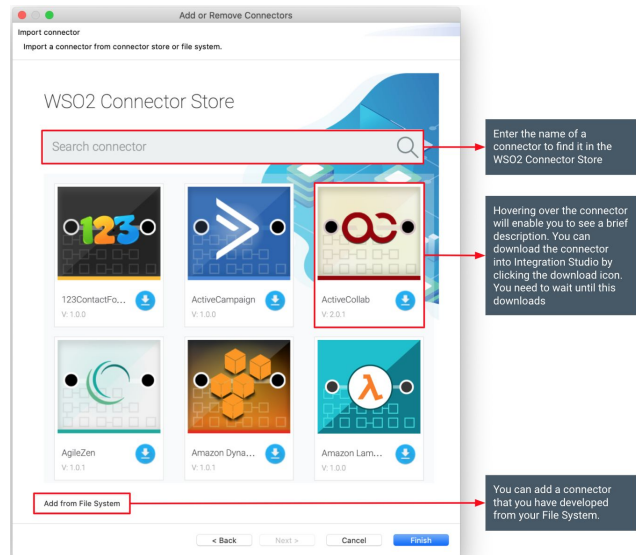
Connector Store



The connector store is where connectors are hosted. This includes older connector versions and links to documentation. Connectors can be imported from the connector store via WSO2 Integration Studio.

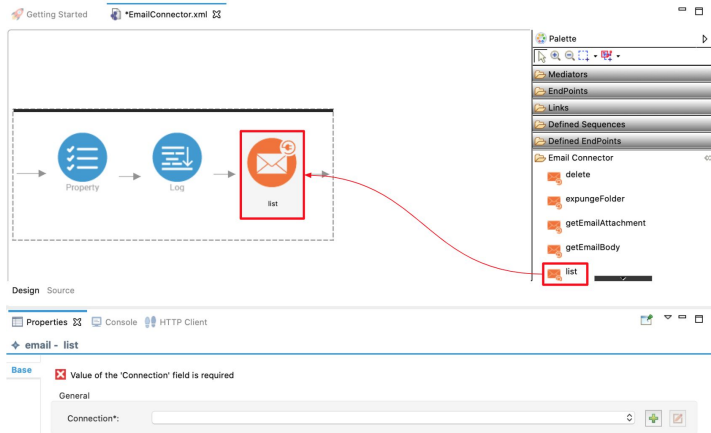
Connectors in WS02 Integration Studio

Connectors can be imported from the Connector Store via WS02 Integration Studio



Connectors in WSO2 Integration Studio - contd

Connector operations can be dragged and dropped onto the canvas.

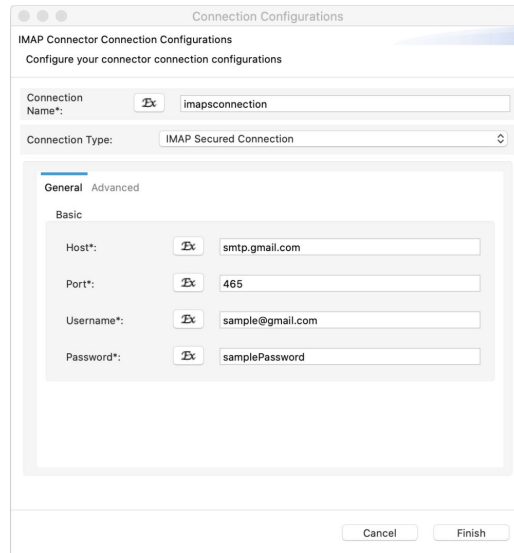


For connector versions that were not updated recently, you need to use the `init` operation

You can refer the documentation of the relevant connector and configure the `init` operation of it. This operation needs to be applied before any other operation of the same connector when you design mediation logic. The `init` operation is visible only for older connector versions in WSO2 Integration Studio.

Connectors in WSO2 Integration Studio - contd

For more recent connector versions you can directly add the initial connection configurations as a local entry.



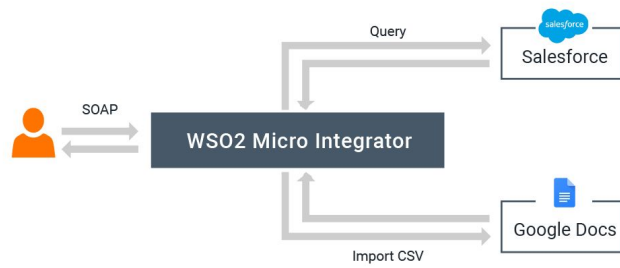
The screenshot shows the 'Connection Configurations' dialog for the 'IMAP Connector'. The title bar reads 'Connection Configurations'. Below the title, it says 'IMAP Connector Connection Configurations' and 'Configure your connector connection configurations'. The 'Connection Name' field is set to 'imapconnection'. The 'Connection Type' is set to 'IMAP Secured Connection'. The 'General' tab is selected, showing a 'Basic' section with the following fields: 'Host*' (smtp.gmail.com), 'Port*' (465), 'Username*' (sample@gmail.com), and 'Password*' (samplePassword). Each field has a small 'Ex' icon to its left. At the bottom right, there are 'Cancel' and 'Finish' buttons.

For recently updated connector versions, you need to create a connection, add configurations, and associate your connection with operations.

For recently updated connector versions, this is available with WSO2 Integration Studio 7.1.0 onwards. When creating a connection you can provide configuration values and they will get saved as a local-entry internally.

Sample Use Case

Managing sales opportunities using Salesforce + Google Spreadsheets.





Let's try it out!

Connecting Web APIs/Cloud Services





Let's try it out!

Connecting via B2B Protocol

