

#### **TECH BLOG**





August 6, 2022 Sudarshan Patwardhan

SAP Tech

# **OAuth2 Client Credentials in SAP CPI**

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### **Overview**

SAP CPI provides various APIs out of the box which can be accessed from Integration Flows to perform a variety of operations. For Example, MessageProcessingLogs is an out-of-the-box OData API provided by SAP that gives access to MPL data of Cloud Integration Tenant. This article shows how to access MessageProcessingLogs Odata API using OAuth2 Client Credentials. The data fetched can further be used to automate alert emails, generate reports, and many other real-life scenarios as per requirement.

## **Pre-requisites**

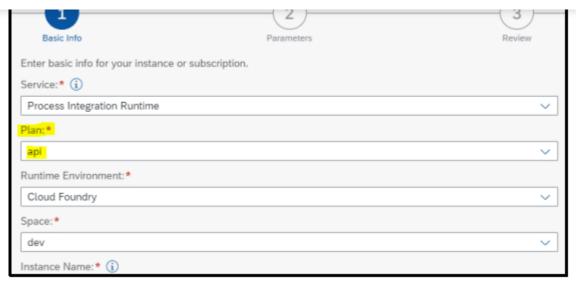
- An active SAP BTP account with a subscription to the Integration suite. Follow this blog to create a trail account for free.
- The roles AuthGroup\_Adminisrator, AuthGroup\_BusinessExpert, and AuthGroup\_IntegrationDeveloper are assigned to the user.

## **Create Service Instance and Service Key**

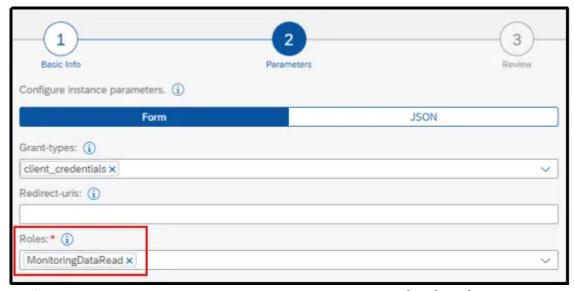
**Step 1:** Create a **Service Instance** of Type **API** and include Role "**MonitoringDataRead**". Check this article to create Service Instance. The Only two differences from the above-linked post would be,

• A plan under Step 2 will now be API.

#### **■** Menu

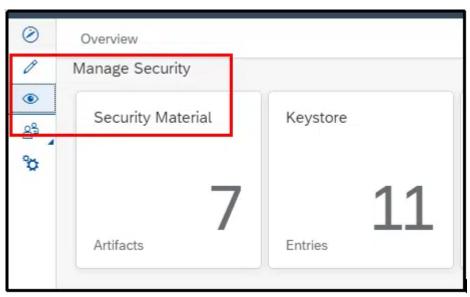


• Add "MonitoringDataRead" under roles in Step 3. This role is specific to the "MessageProcessingLogs" API. Other APIs might require different roles.

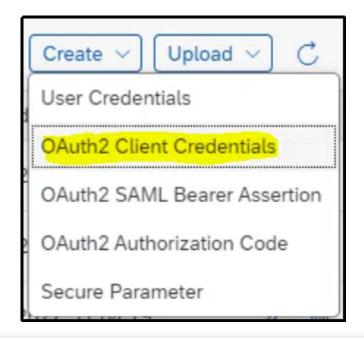


Step 2: Create a Service Key for the above-created Instance and Note down the clientid, clientsecret, and Tokenurl.





Step 2: Click on Create and from the dropdown, select OAuth2 Client Credentials.





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**Client Authentication:** Send As Request Header

Check Include Scope.

**Scope:** If you have scopes, enter the same. If none, enter a **blank space**. (entering blank space is very important. Else it will throw an error.)

**Content-Type:** application/x-www-form-urlencoded.

# Laser Cutting Machine

Bodor®Laser

Click on **Deploy**.



# **Using OAuth2 Client Credentials in I-Flow**

Step 1: Create a simple Integration flow as shown below with just a Request Reply step using OData adapter.

Authentication: OAuth2 Client Credentials.

Credential Name: Name given to the deployed credential in Step 3 of the previous section. (CPIOAuth)

In the *Processing tab*, configure as shown below. Additionally, you can add queries as per requirement.



**Step 3:** Save and **Deploy** the Integration Flow.

**Step 4:** Monitor the Integration Flow in Trace Mode to Check the Output. It will look something as below. The output will have MPL data which can further be used to create working scenarios.

**Final Verdict:** 



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