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**CREATE
INTEGRATION
FLOW**

SAP CPI BEGINNER GUIDE

April 2, 2021 Sanjay KV

SAP

Start with SAP CPI Integration Flow: Beginner Tutorial

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2. Getting Started
- 2.0.1. Final Verdict :

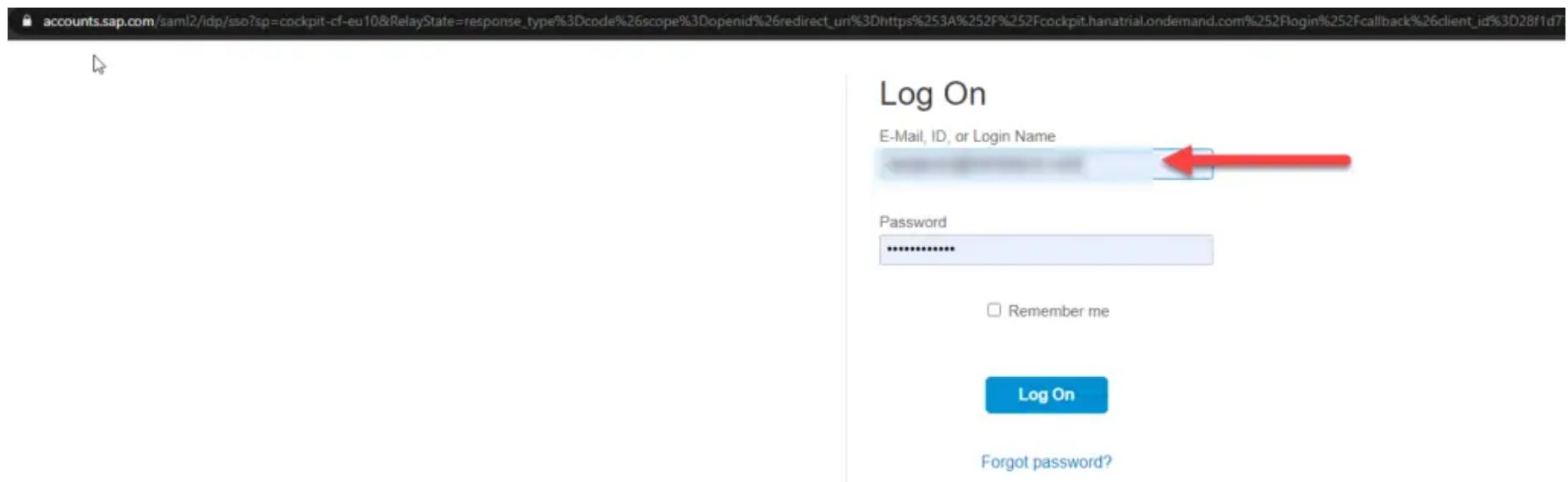
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tutorial and setup the **tenant**. This Tutorial will give a good idea of SAP CPI Tenant and a glimpse of how to work with Integration Flow.

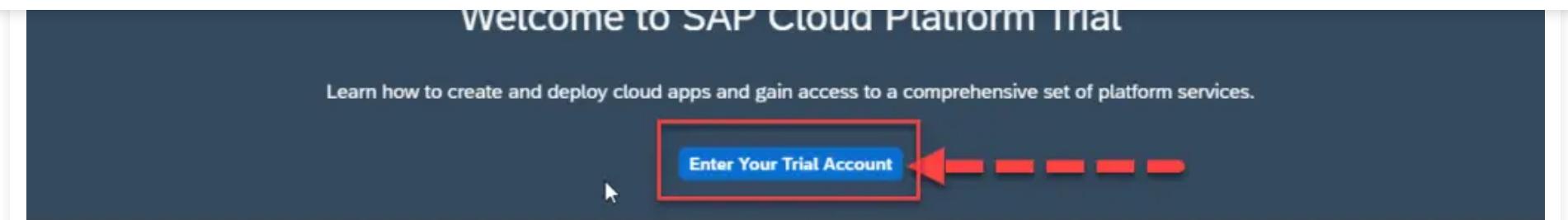
Getting Started

Step 1: You have to log into the CPI Tenant to get started. Click on the link to proceed. [Link](#)



The screenshot shows a web browser window with the URL accounts.sap.com/saml2/idp/sso?sp=cockpit-cf-eu10&RelayState=response_type%3Dcode%26scope%3Dopenid%26redirect_uri%3Dhttps%253A%252Fcockpit.hanatrial.ondemand.com%252Flogin%252Fcallback%26client_id%3D28f1d7 in the address bar. The page title is "Log On". There are two input fields: "E-Mail, ID, or Login Name" and "Password", both containing placeholder text. A red arrow points to the "E-Mail" field. Below the fields are "Remember me" and "Log On" buttons, and a "Forgot password?" link. The bottom of the page features the "SAP® ID Service" logo.

Step 2: Click Enter your trail account to login, This post is targeted for complete beginners, so the steps you may find elaborate.

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Welcome to SAP Cloud Platform Trial

Learn how to create and deploy cloud apps and gain access to a comprehensive set of platform services.

Enter Your Trial Account

Quick Tool Access

 SAP Business Application Studio Develop business applications using SAP's next-generation, Web-based IDE	 CLI for SAP Cloud Platform Manage your trial account using the command-line interface	 APIs for SAP Cloud Platform Manage, build, and extend the core capabilities of SAP Cloud Platform
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Step 3: Hope you have setup your tenant and created a Sun account, Here i have created a sub account called trial. Click on the similar sub account you have created. Note: Sub account name may different from what you have created.

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The screenshot shows the SAP CPI Integration Flow interface. On the left, there is a sidebar with the following menu items:

- Directories
- Resource Providers
- Boosters
- System Landscape >
- Entitlements < (with Entity Assignments and Service Assignments sub-options)
- Usage Analytics

The main content area is titled "Global Account: be481c33trial - Subaccounts". It displays a subaccount named "trial" with the following details:

- Provider: Amazon Web Services (AWS)
- Region: US East (VA) - AWS
- Description: -none-
- Environment: Multi-Environment

Below the details are three small icons: a pencil, a magnifying glass, and a trash can. A red box highlights the "trial" subaccount entry.

Step 4: Now the next step to go to your integration flow, Once you click on the sub-account which I mentioned above now click on Active Subscriptions, You may find the count as 1 or more according to the **CPI subscriptions** you have done from the subscription tab before.

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The screenshot shows the SAP CPI Integration Flow interface. On the left, there is a sidebar with the following menu items:

- Services
- Subscriptions
- Cloud Foundry
- Connectivity
- Destinations
- Security
- Users
- Role Collections
- Roles
- Trust Configuration

The main area displays information for a Subaccount named "trial". It includes fields for Subdomain and ID, which are blurred. To the right of these fields is a box containing a checkmark icon, the number "2", and the text "(17 available) Active Subscriptions". This box is highlighted with a red rectangle and has a red arrow pointing to it from below. Below this box are tabs for Cloud Foundry Environment, Kyma Environment, and Entitlements, with "Cloud Foundry Environment" being the active tab. Under this tab, there are fields for Org Name, Org ID, Members (1), and API Endpoint, all of which are blurred. At the bottom of this section is a blue "Disable Cloud Foundry" button. To the right of the main content area is a sidebar titled "Spaces (1)" with a single entry for "dev".

Step 5: Now the list of active and inactive subscriptions will pop up on the screen. Click on **Integration Suite** from here, below the box you can find **Go to Applications**. Click on that to proceed further.

 Menu

SAP business applications.

 Subscriptions standard Go to Application	 SAP business applications. trial Go to Application	 database artifacts using SAP Web IDE Full Stack. TRIAL Go to Application	 artifacts and application-specific content. saas-application Go to Application
--	--	--	--

Extension Suite - Digital Experience

 Document Management, applica... Not Subscribed  Organize your documents with ready-to-use document management capabilities. standard Go to Application	 Launchpad Not Subscribed  Simplify access to applications by establishing a central launchpad. standard Go to Application	 Portal Not Subscribed  Create role based, multi-channel sites to access business apps and content. standard Go to Application	 Web Analytics Not Subscribed  Usage analytics for your websites and web applications. standard Go to Application
--	---	---	--

Extension Suite - Digital Process Automation

 SAP Intelligent Robotic Process ... Not Subscribed  Design, configure, and execute automation projects. trial Go to Application	 Workflow Management Not Subscribed  Digitize workflows, manage decisions and gain end-to-end process visibility saas-application Go to Application
---	--

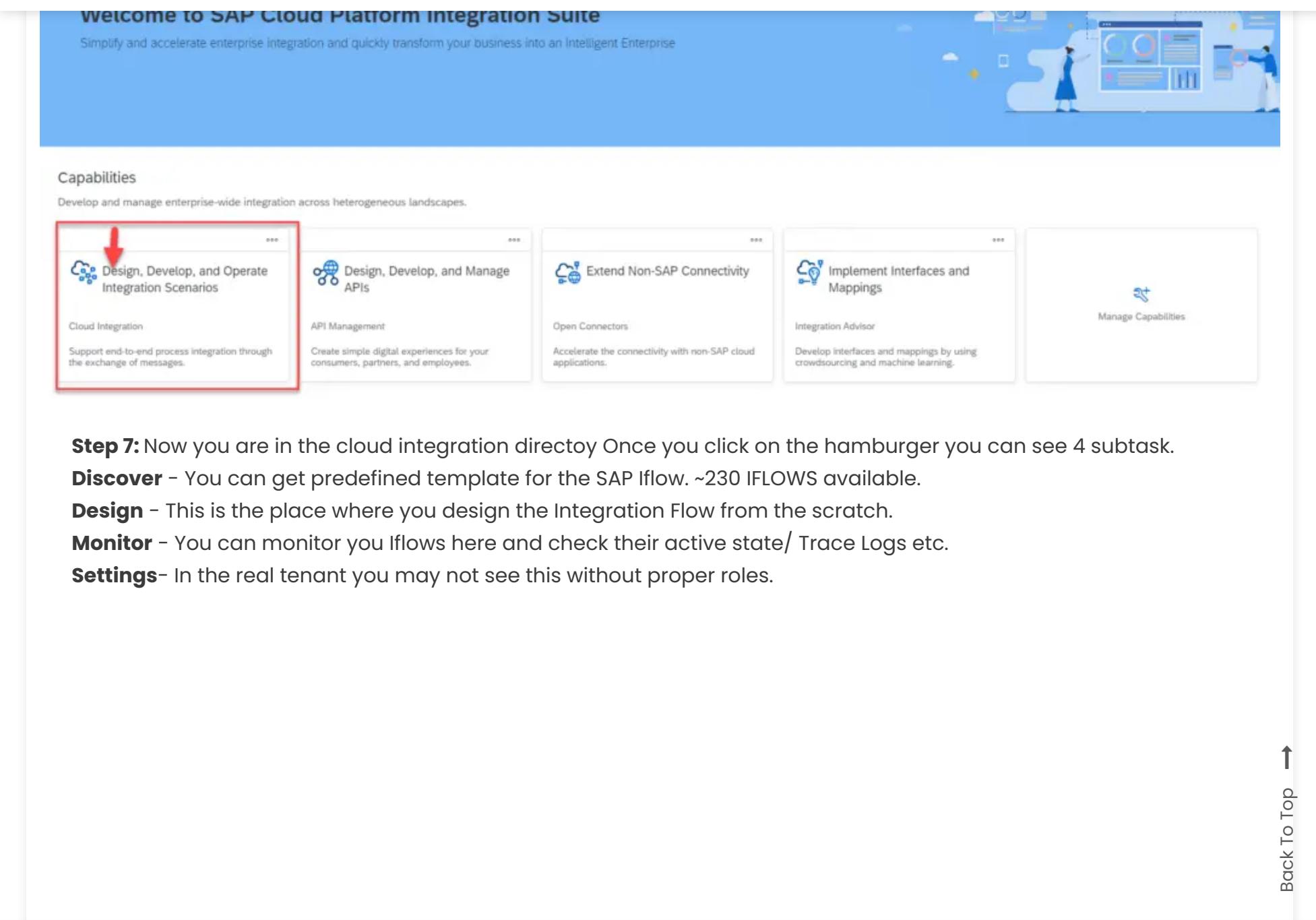
Integration Suite

 Enterprise Messaging Not Subscribed  Connect applications, services and systems across different landscapes. standard Go to Application	 Integration Suite Subscribed  Integrate applications, services, and systems across landscapes. trial Go to Application
---	--

Click on Go to Application



Step 6: Now you are in the integration suite and to proceed to create a new integration flow in CPI click on **Design and Develop** box as highlighted in the below picture.

 Menu

Welcome to SAP Cloud Platform Integration Suite
Simplify and accelerate enterprise integration and quickly transform your business into an Intelligent Enterprise

Capabilities

Develop and manage enterprise-wide integration across heterogeneous landscapes.

Design, Develop, and Operate Integration Scenarios 

Cloud Integration
Support end-to-end process integration through the exchange of messages.

Design, Develop, and Manage APIs 

API Management
Create simple digital experiences for your consumers, partners, and employees.

Extend Non-SAP Connectivity 

Open Connectors
Accelerate the connectivity with non-SAP cloud applications.

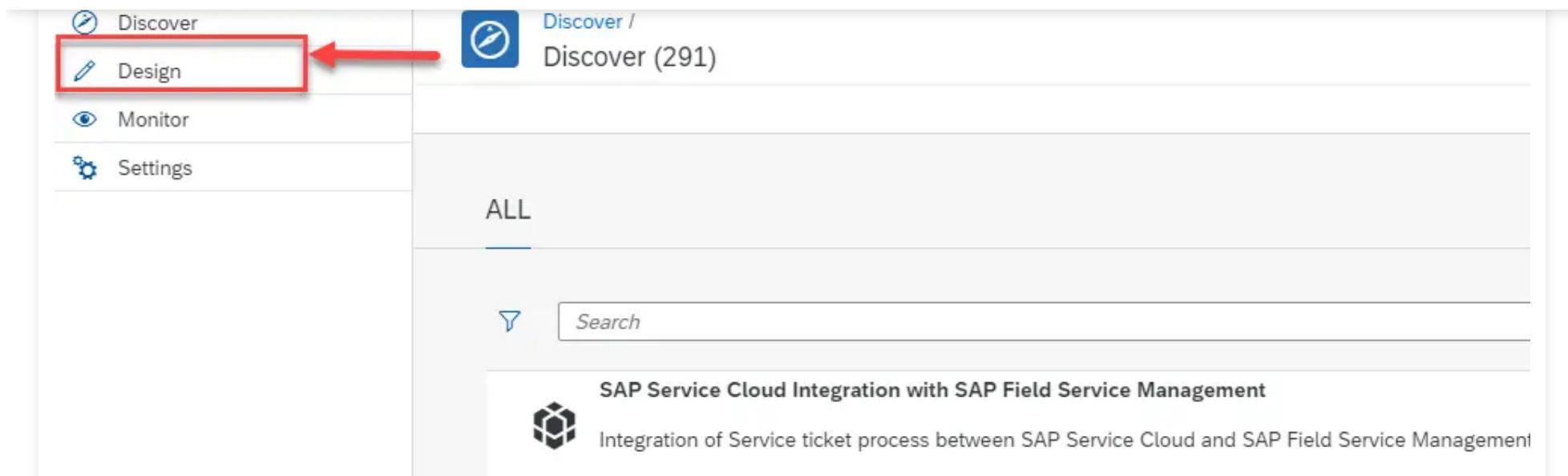
Implement Interfaces and Mappings 

Integration Advisor
Develop interfaces and mappings by using crowdsourcing and machine learning.

Manage Capabilities 

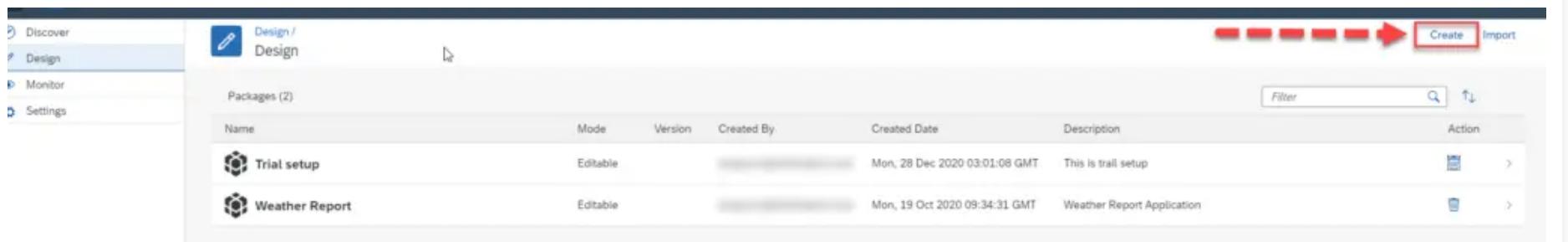
Step 7: Now you are in the cloud integration directory Once you click on the hamburger you can see 4 subtask.
Discover – You can get predefined template for the SAP Iflow. ~230 IFLOWS available.
Design – This is the place where you design the Integration Flow from the scratch.
Monitor – You can monitor your Iflows here and check their active state/ Trace Logs etc.
Settings– In the real tenant you may not see this without proper roles.

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The screenshot shows the SAP CPI Integration Flow interface. On the left, there's a vertical menu with four options: 'Discover' (selected), 'Design' (highlighted with a red box and arrow), 'Monitor', and 'Settings'. The main area is titled 'Discover / Discover (291)' and shows a list of integration flows. One flow is visible: 'SAP Service Cloud Integration with SAP Field Service Management', which is described as 'Integration of Service ticket process between SAP Service Cloud and SAP Field Service Management'. A search bar is also present.

Step 8: You can see here I already tried to set up 2 packages in the name of **Trial setup** and **weather report**. To create it from scratch click on Create button on the top right corner of the screen.



The screenshot shows the 'Design' screen. The left sidebar has 'Design' selected. The main area displays a table of 'Packages (2)'. The table includes columns for Name, Mode, Version, Created By, Created Date, Description, and Action. Two packages are listed: 'Trial setup' and 'Weather Report'. At the top right, there are several buttons, with the 'Create' button highlighted with a red box and arrow. A vertical scroll bar is on the right side of the table.

Step 9: Give Tenant name and short description here: This is for the developer information, Once you start working on the real time you may find lots of package created with almost simillar names, so package description helps too find the why we have implemented those. Gives developer an headsup.

Once you gave the name and description **click on save button**.

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Step 10: Now move to the artifacts window under the add dropdown you can see Integration Flow. You will be having 4 categories under it, we have already explained this in the blog post each of them like [how to create value mapping](#) using SAP CPI. Now click on **Integration flow**.

Design / Tenant CPI / Tenant CPI

Save Cancel Delete Package

Header Overview Artifacts Documents Tags

Add Delete Actions Filter Artifacts

1
2
3

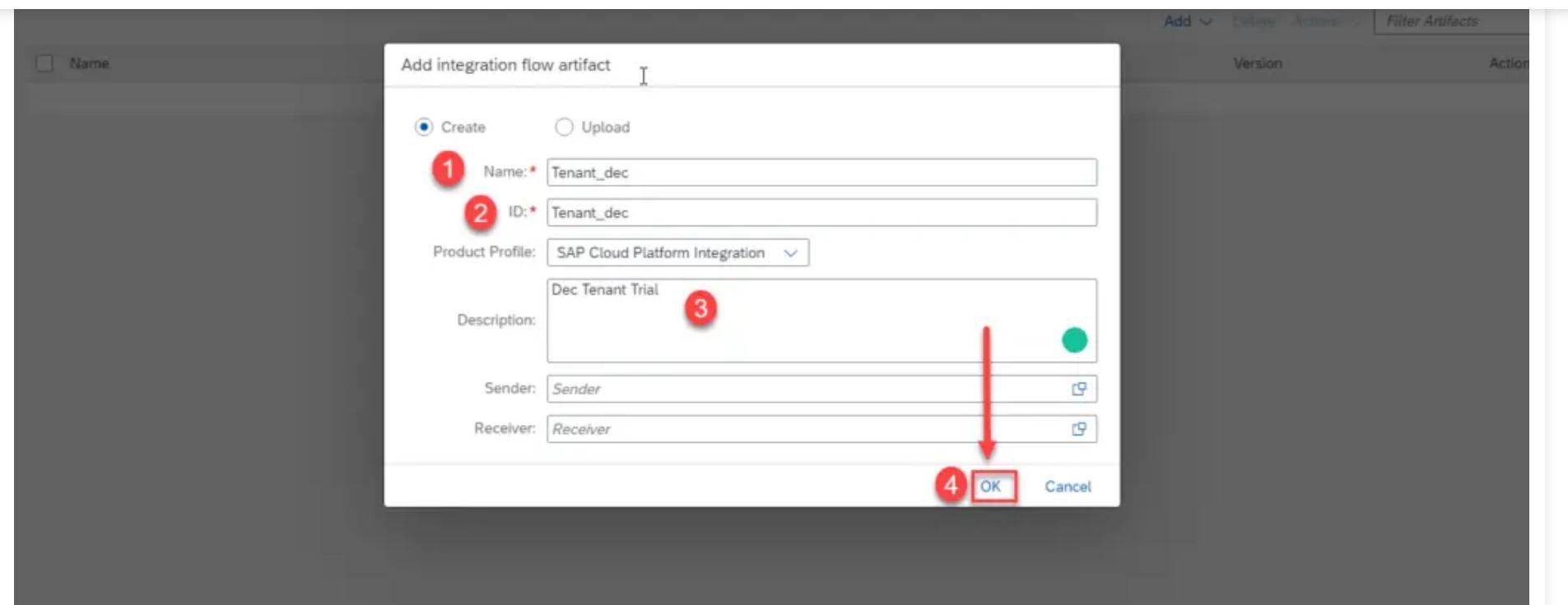
Name	Type
No data	

Integration Flow
Value Mapping
OData Service
Integration Adapter

Step 11: In the next screen you will get summary of the development you are going to do, cross check it once everything is as per your requirement click on okay button.

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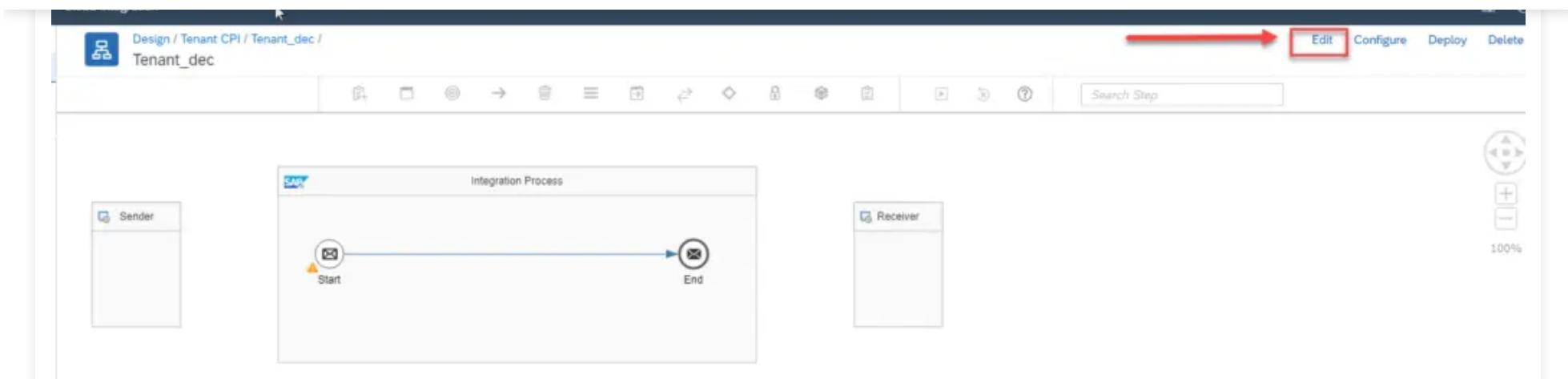


Step 12: Click on save. Now you can see the artifact has created.

The screenshot shows the SAP Integration Suite interface under 'Cloud Integration'. On the left, there's a sidebar with 'Discover', 'Design' (highlighted in blue), 'Monitor', and 'Settings'. In the center, under 'Design / Tenant CPI / Tenant CPI', there's a 'Header' section and tabs for 'Overview', 'Artifacts (1)', 'Documents', and 'Tags'. The 'Artifacts (1)' tab is selected. A table lists one artifact: 'Tenant_dec' (Type: Integration Flow, Version: 1.0.0). A red box highlights the 'Save' button in the top right of the interface (marked with a red circle 1). Another red box highlights the 'Tenant_dec' row in the artifact list (marked with a red circle 2). A vertical red arrow points upwards from the highlighted row towards the 'Save' button.

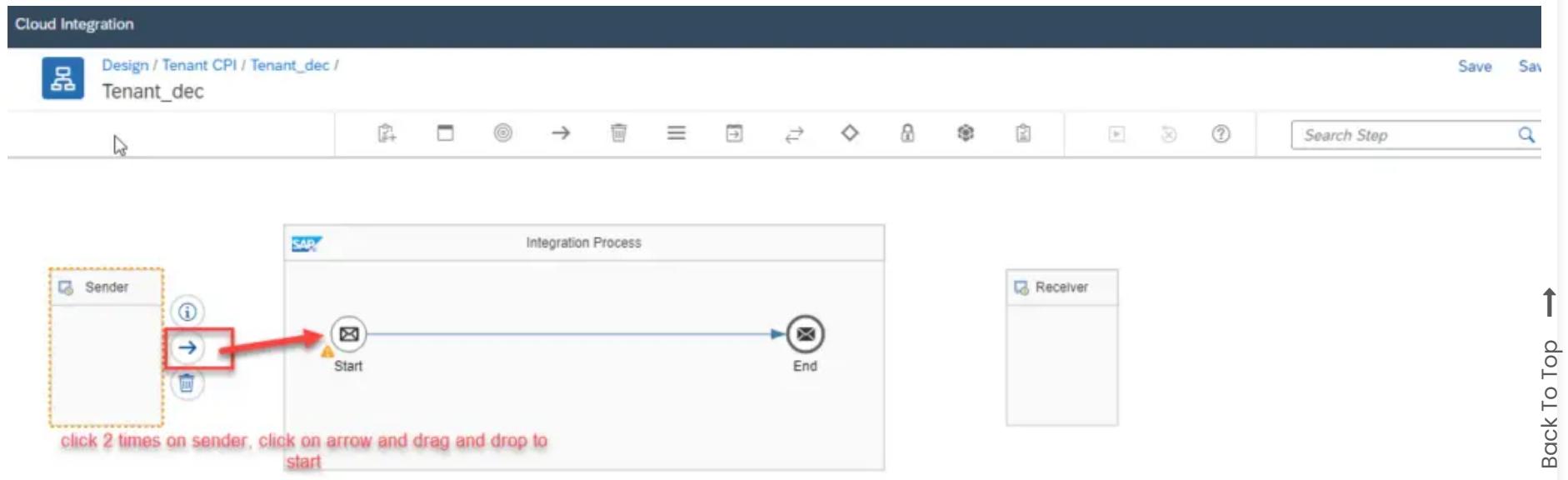
Step 13: Now lets deep dive into the functionalities and developing integration Flow. Once you click on the package highlighted in the snapshot above you get your defalut iflow view. Click on Edit to customise or develop a flow from the scratch as per your requirement.

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We are going to connect with HTTPS Adapter &Designing a simple flow to do JSON to XML Conversion.

To make the connection click on the arrow marrked and drag and drop to the start. A Pop will ask you to select which connection you want to make, like ODATA, ODATA v2 etc.

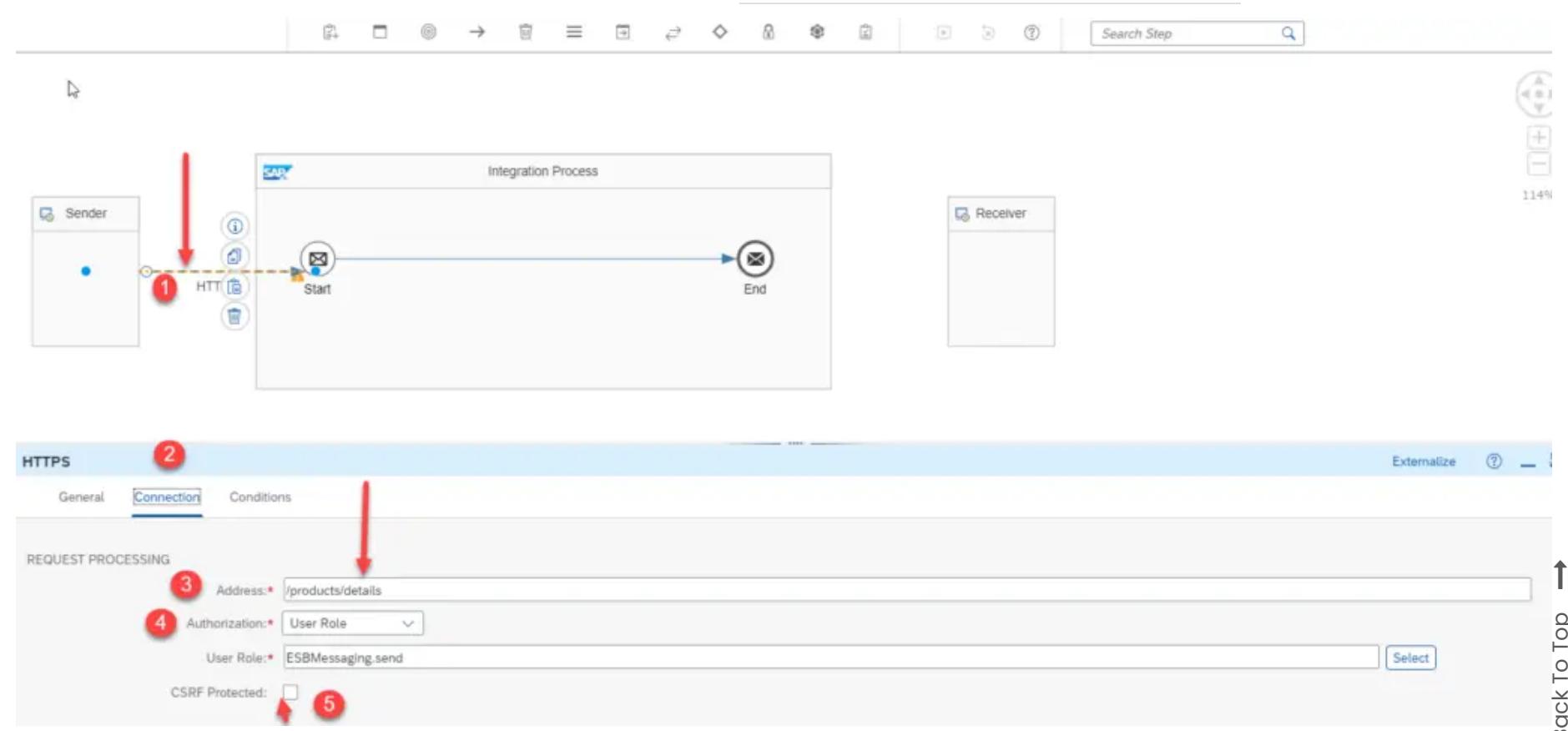


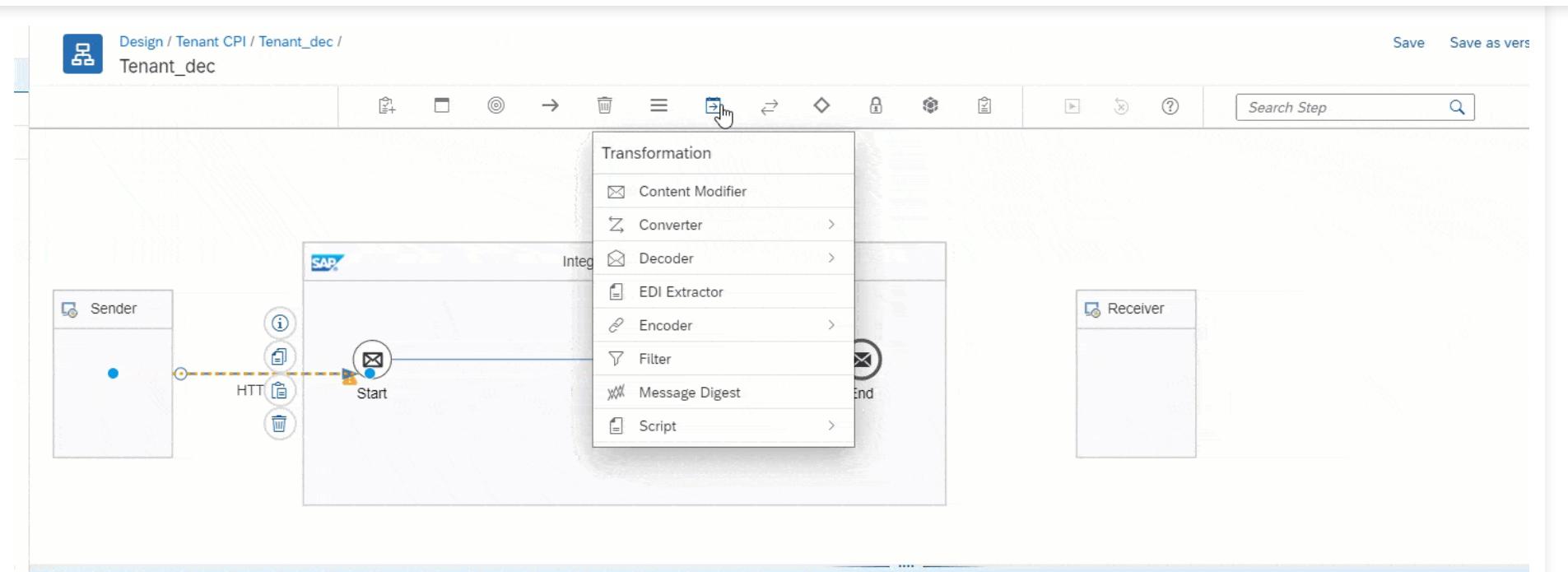
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Seamless API Integr

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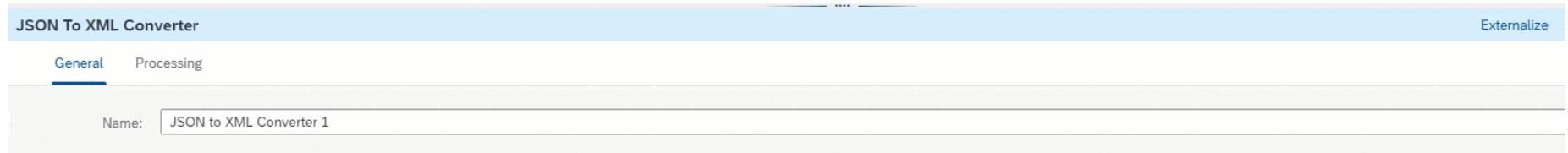
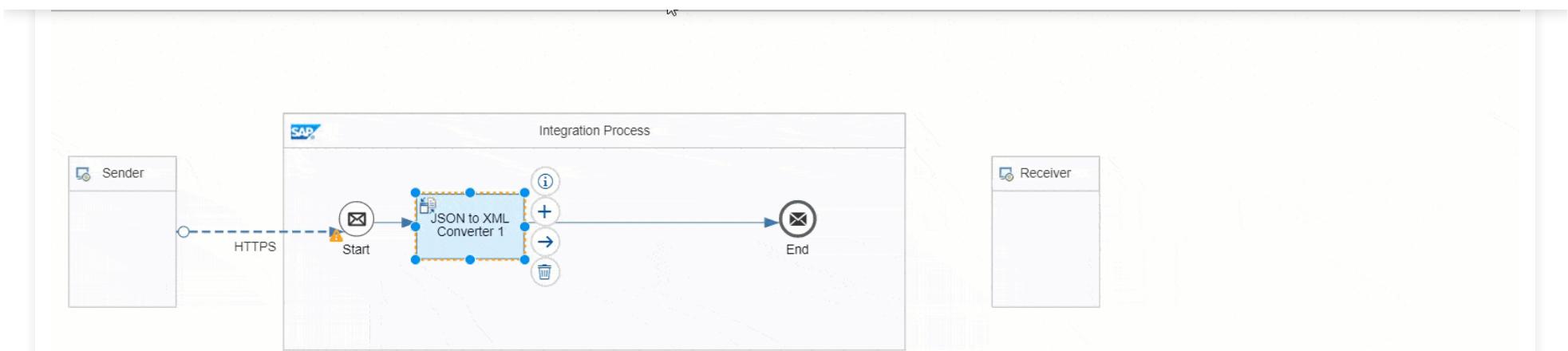


 Menu

Message Transformers > converter > Json to XML converter

Step 16: Adding Content Modifier, Same like from **Transformation icon** click on **content modifier** then drag and drop to the line as shown below. You can learn more about the content modifier here.

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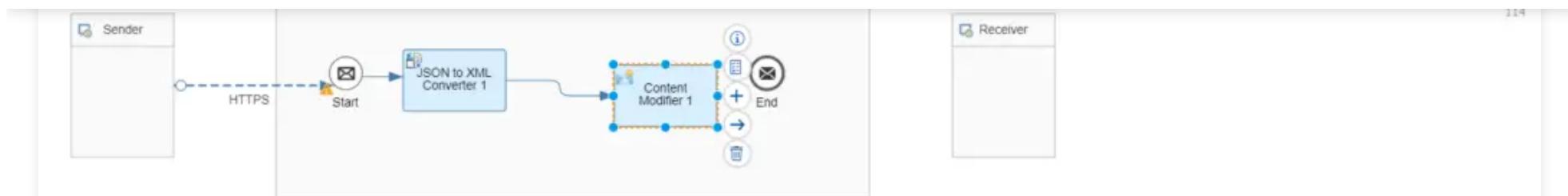
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JSON To XML Converter Externalize

[General](#) [Processing](#)

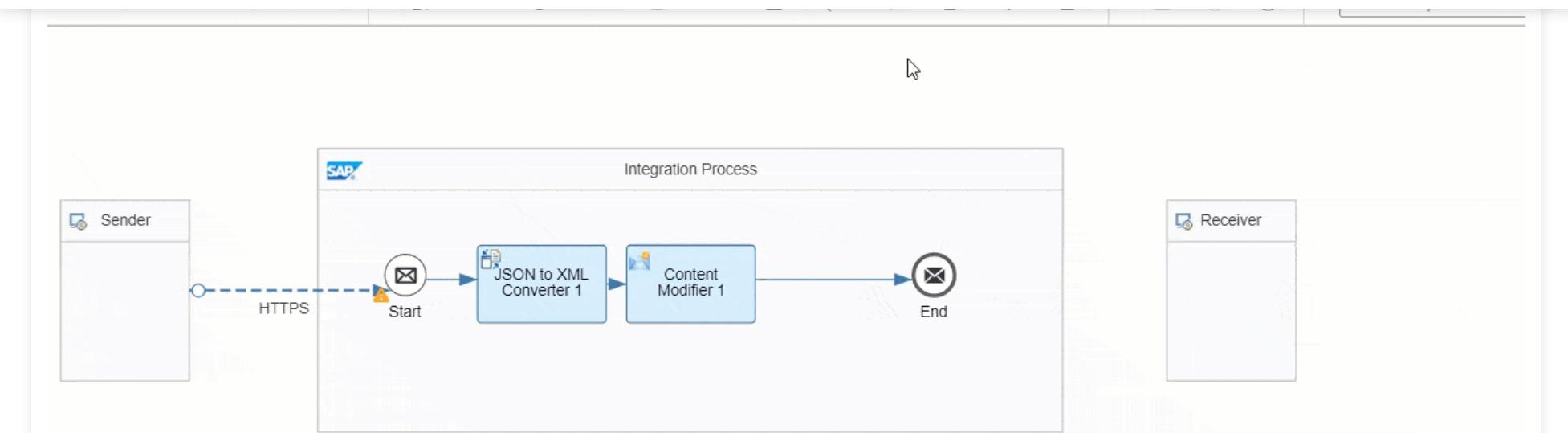
Name:

Step 17: Now you need to specify what modification you need to do. Click on the Content modifier 1 and click on the message Header tab. You can add the Headers like shown here.

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Action	Name	Type	Data Type	Value	Default
Create	productIdentifier	XPath	java.lang.String	//productIdIdentifier	Select

Step 18: Now you to create a **request-reply**, click on the call icon and create an **external call**, and drag and drop as shown below.

 Menu

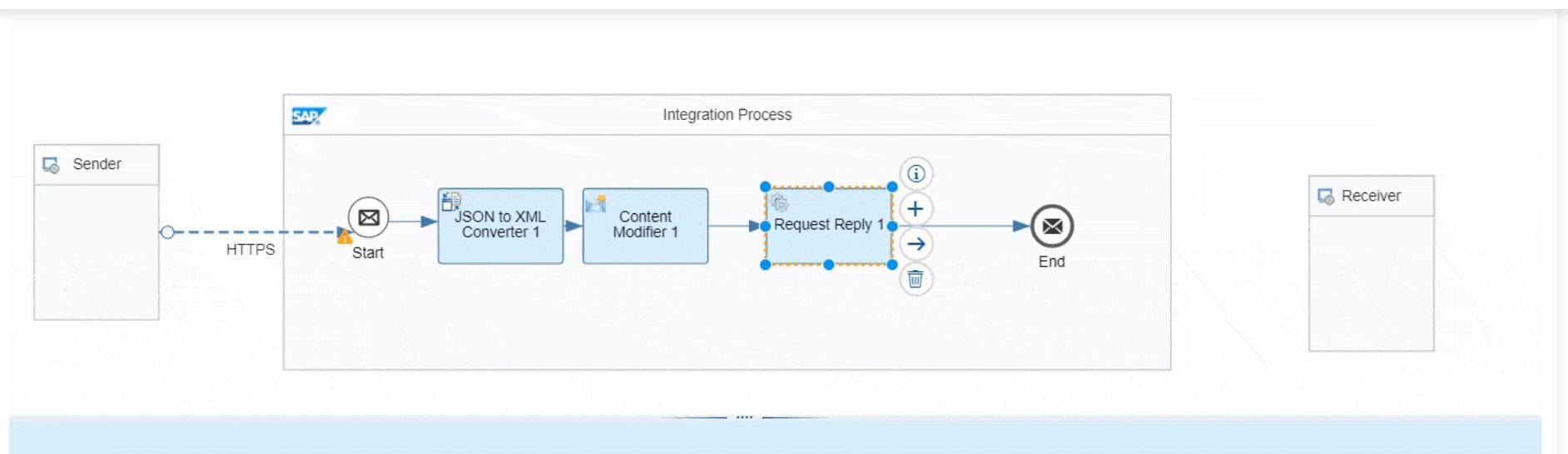
Integration Flow

[General](#)[Runtime Configuration](#)[Error Configuration](#)[Resources](#)[Externalized Parameters](#)[Problems](#)

Name: Tenant_dec

Step 19: Connecting Request reply to receiver, You just need to drag and drop to the receiver for the connection and specify the connection type here I'm going with ODATA v2.

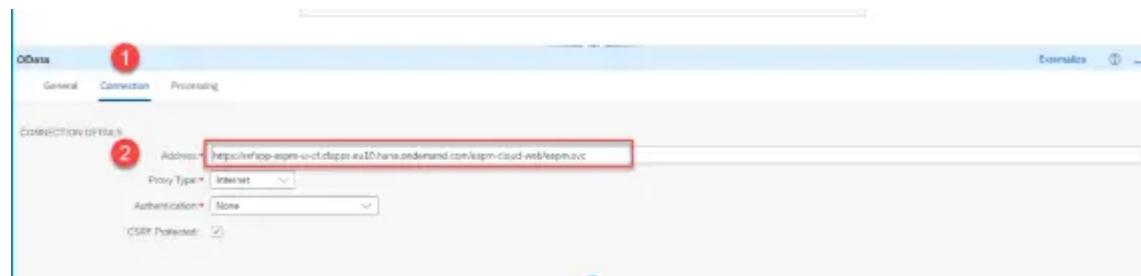
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Request Reply 1

Step 20: If you are using ODATA similar to the connection we specified for HTTP we need to specify in connection tab.

`https://refapp-espm-ui-cf.cfapps.eu10.hana.ondemand.com/espm-cloud-web/espm.svc`



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Step 21: In the **ODATA connection** settings you have to specify these things as per the requirement. Just a reminder this post aims to give some idea about the things that get done in CPI, not an end-to-end application tutorial.

Model Operation

The screenshot shows the "Model Operation" section with two steps:

- Step 1: Connect to System** (highlighted with a blue circle and "1")
- Step 2: Select Entity & Define Operation** (highlighted with a blue circle and "2")

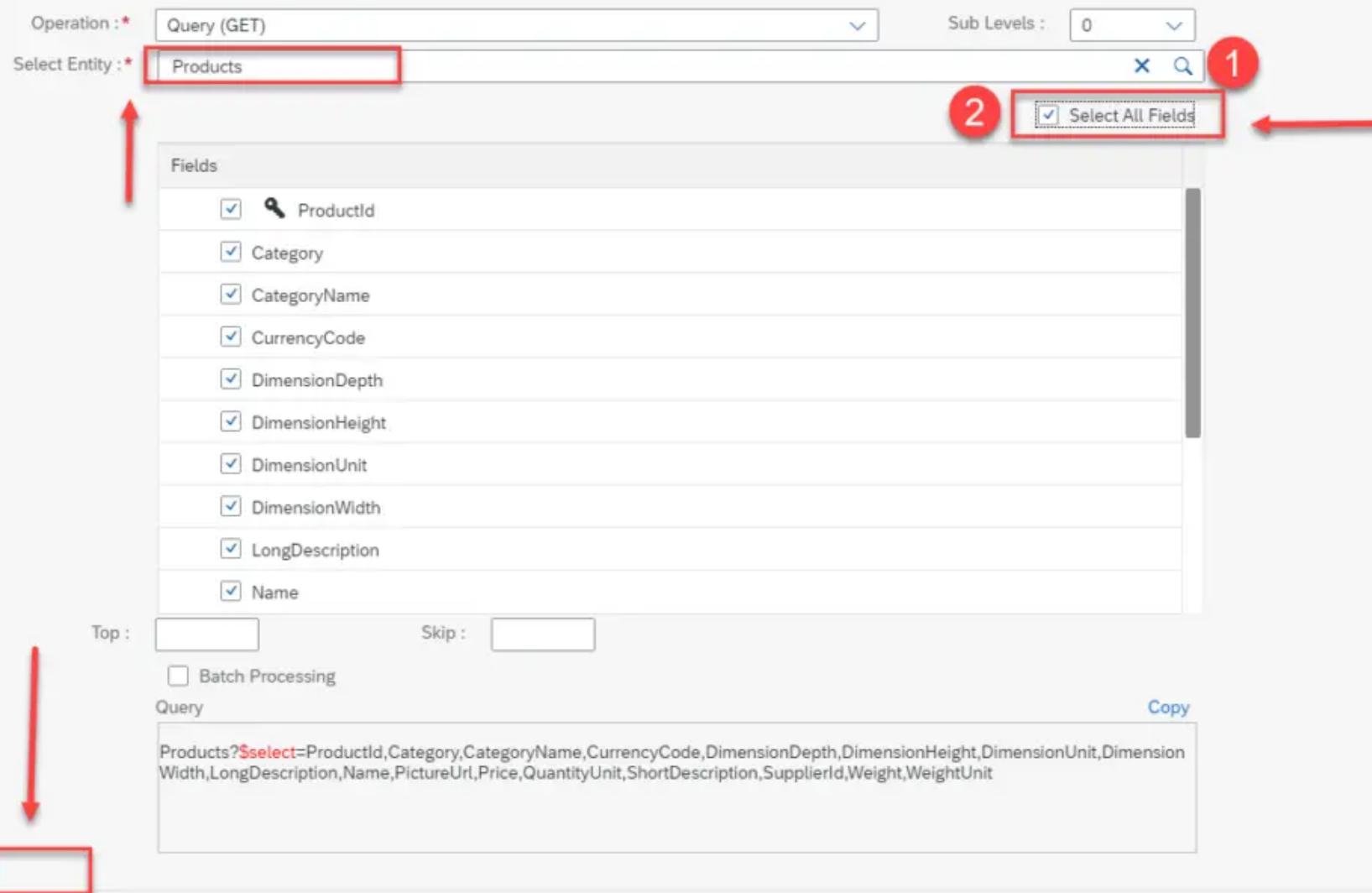
1. Connect to System

Connection Source :* Remote
Address :* <https://refapp-espm-ui-cf.cfapps.eu10.hana.ondemand.com/espm-cloud-w...>
Proxy Type :* Internet
Authentication :* None

A red box highlights the "Step 2" button, and a red arrow points from the text above to this button.

 Menu

2. Select Entity & Define Operation



Operation : * Query (GET) Sub Levels : 0

Select Entity : * Products

Fields

- ProductId
- Category
- CategoryName
- CurrencyCode
- DimensionDepth
- DimensionHeight
- DimensionUnit
- DimensionWidth
- LongDescription
- Name

Top : Skip :

Batch Processing

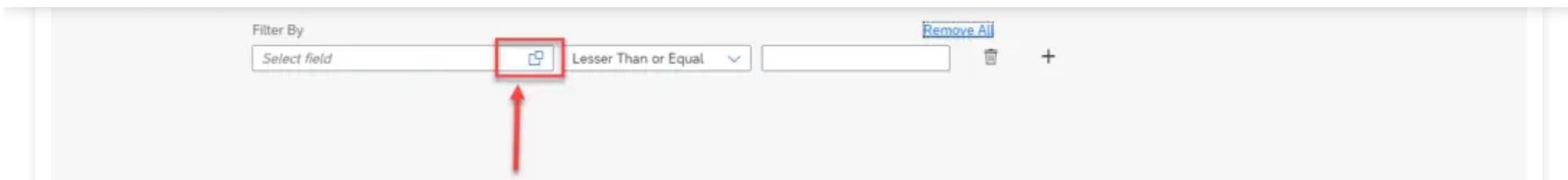
Query

```
Products?$select=ProductId,Category,Cat
```

Copy

Step 3

Step 22: In the third tab configure Filter & sorting click on filter by and select the Product ID which we specified in the content modifier. Then click on okay.

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```
sds ${header.productIdentifier}
```

Model Operation



3. Configure Filter & Sorting



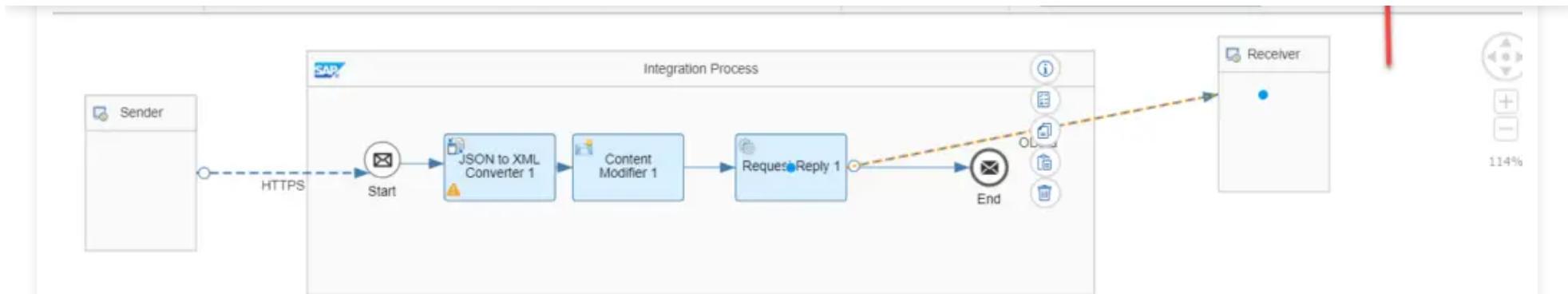
Filter By
ProductId Equal \${header.productIdentifier} Remove All +

1

2

3
Finish

Step 23: save and **deploy** the integration flow.

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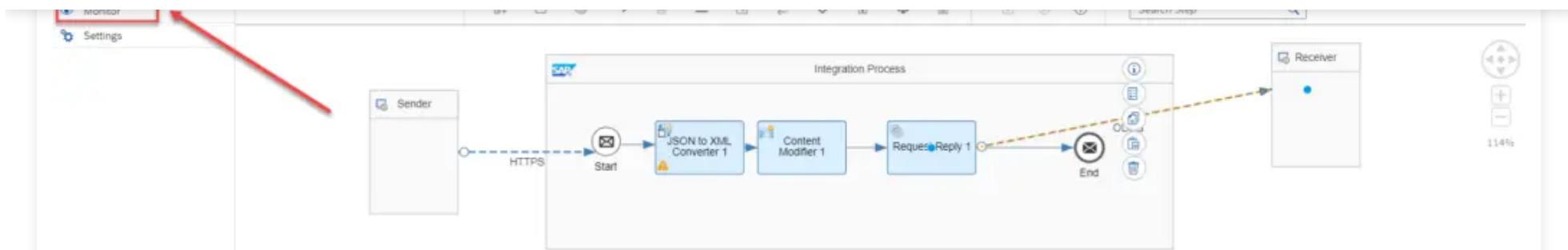
Step 24: Once you deploy the application you can go to monitor and see the Message processing whether its in queue, Error or processed.

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PESU, Bangalore**

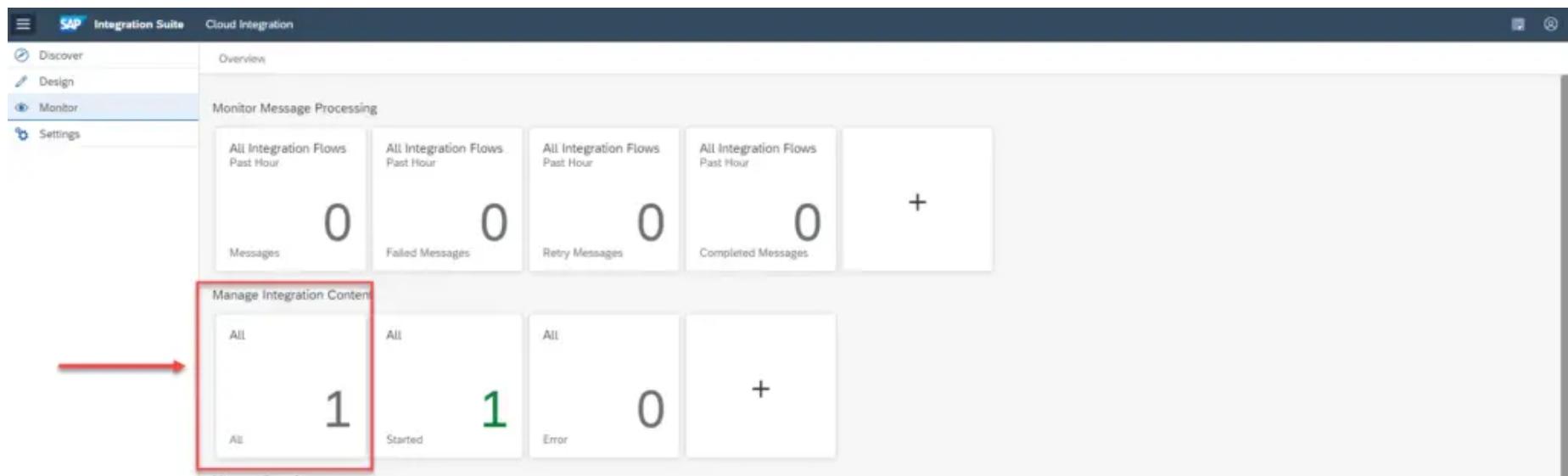
PES University

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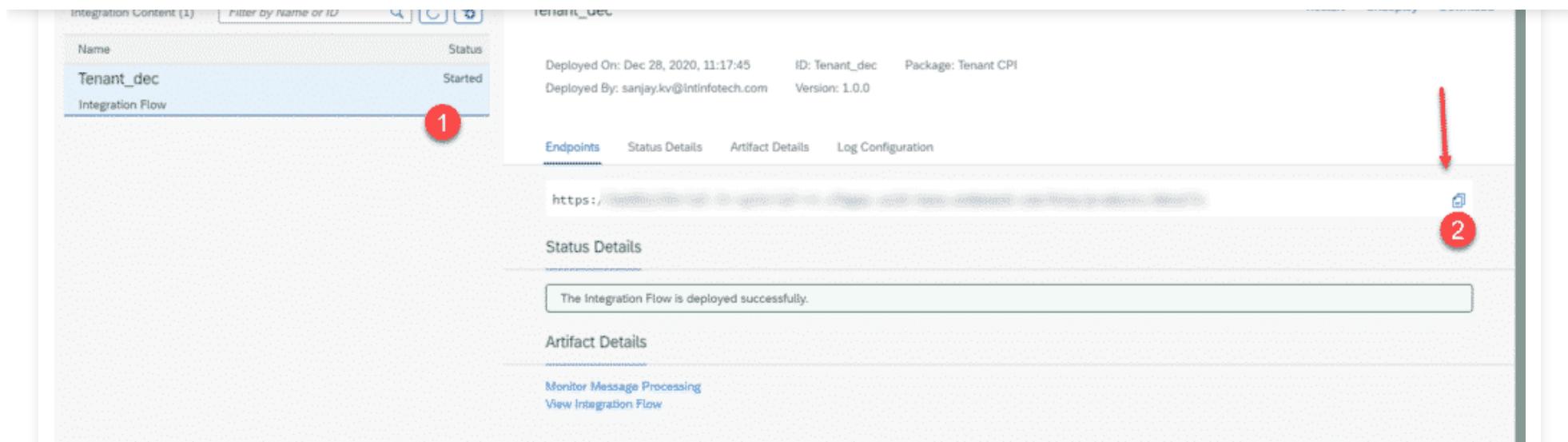
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Step 25: Click on the cell i Highlighted. This will give us the end points of this map.



Step 26: Copy this end point URL and in Testing using any webservice this might needed.

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The screenshot shows the SAP CPI Integration Flow deployment details for 'Tenant_dec'. The deployment was successful, started on Dec 28, 2020, at 11:17:45, by sanjay.kvi@intinfotech.com, with ID: Tenant_dec, Package: Tenant CPI, and Version: 1.0.0. The status is 'Started'. A red arrow points down to the 'Status Details' section, which contains a message: 'The Integration Flow is deployed successfully.' A red circle with the number '1' is on the left side of the status bar, and another red circle with the number '2' is on the right side of the status bar.

Final Verdict :

In conclusion, I hope you enjoyed reading this article on "**Start with SAP CPI Integration Flow: Beginner Tutorial**", Thanks for reading the blog. Signing off sanjay@recodehive.com

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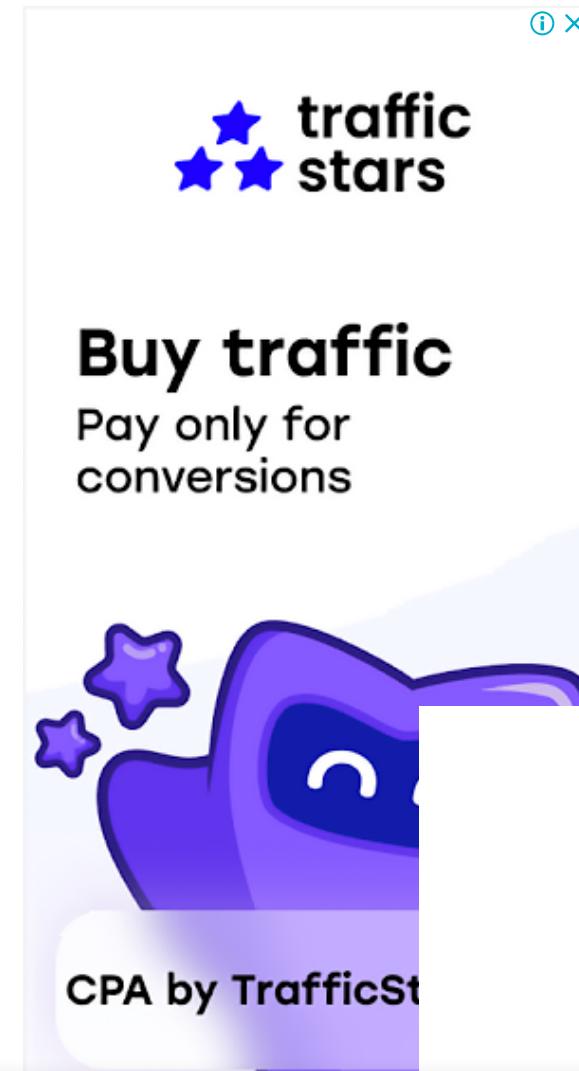
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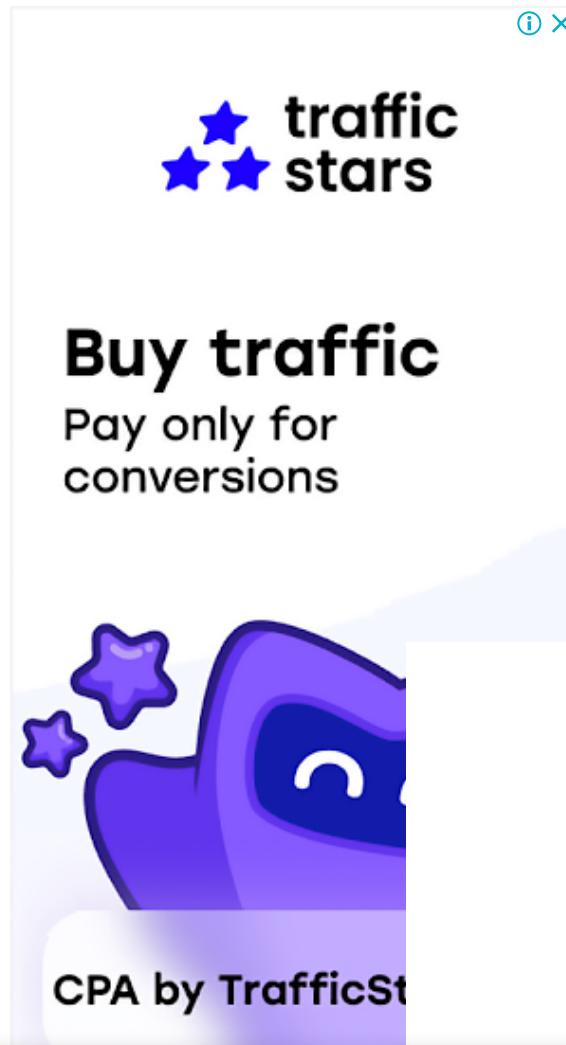
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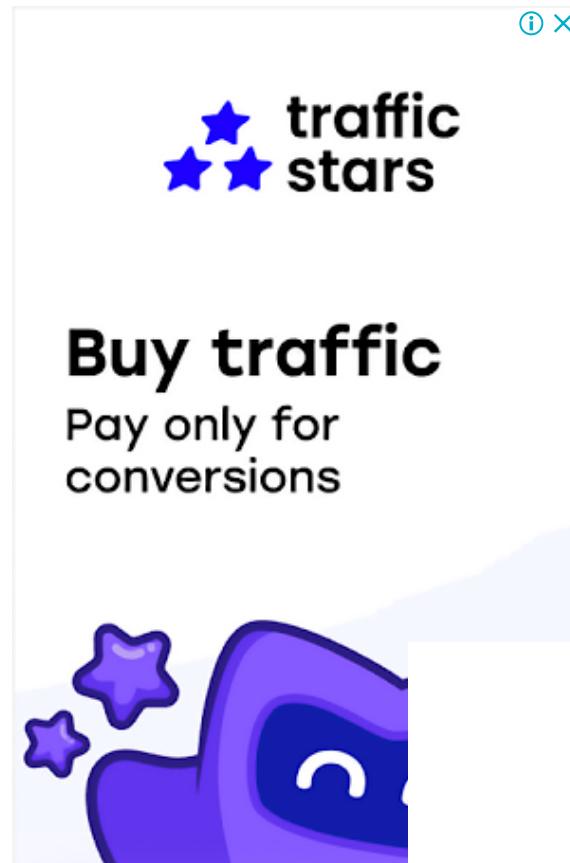
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