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August 26, 2020 Sudarshan Patwardhan

SAP

Mail Receiver Adapter in SAP CPI

This article is an end to end guide on using Mail Receiver Adapter in SAP CPI for Gmail account.

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2. Initial setups to Gmail account

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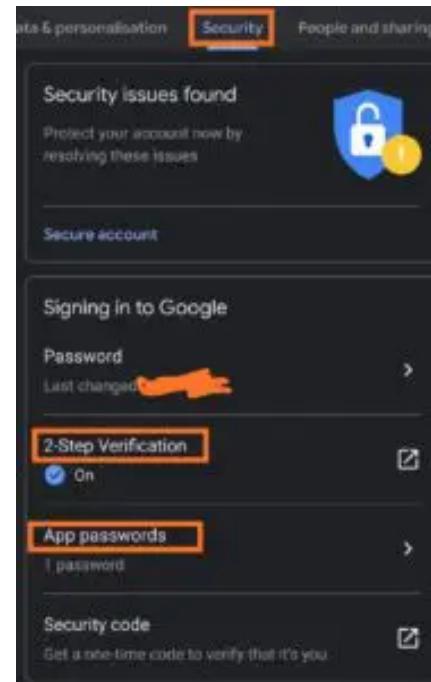
6. FINAL VERDICT :

Prerequisites

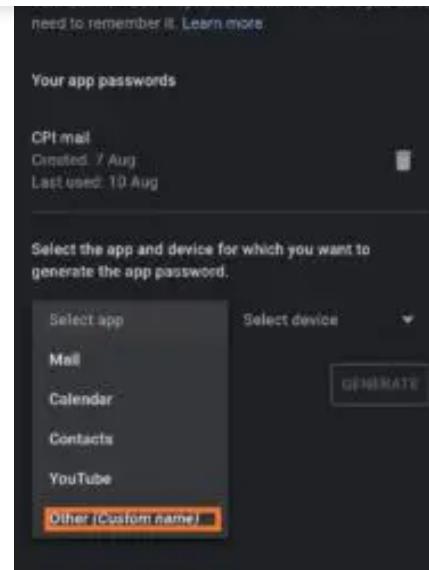
1. You have setup a *trial account*, created a *Tenant* and have assigned yourself all the required roles.
2. You have created Package.

Initial setups to Gmail account

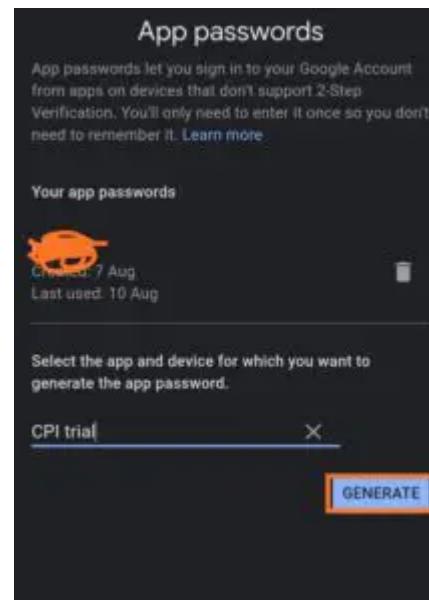
Step 1 : Go to your Gmail settings→ Under **Security** tab, **enable Two-Step verification**. After enabling, you will get an option to set up **app passwords**. Click on **App Passwords** as shown below.



Step 2 : In **select app** drop down, select **Other(Custom Name)**.

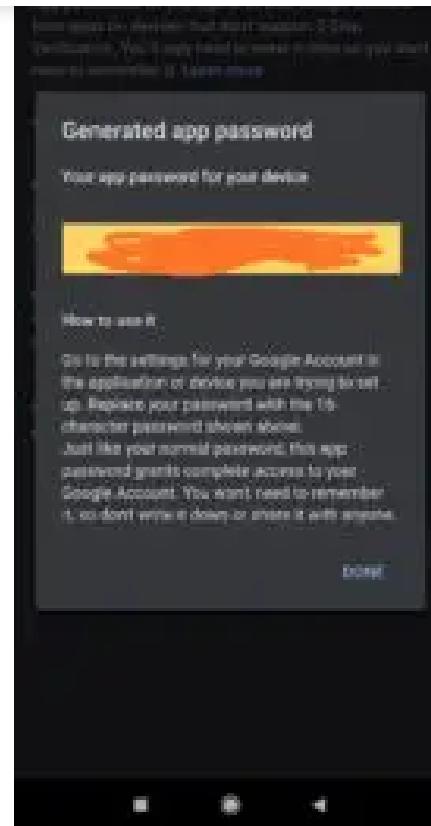
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Step 3 : Give Any name of your choice and Click on **Generate** .



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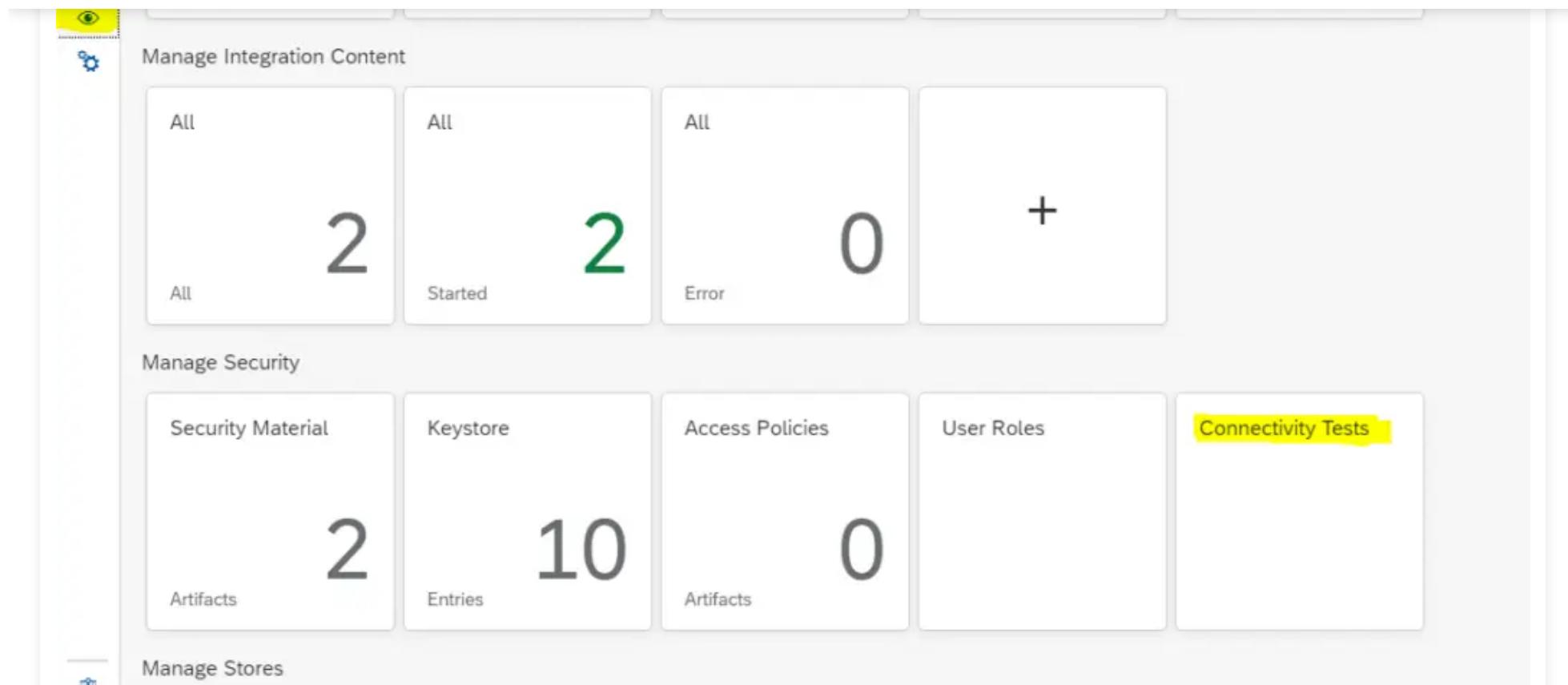
Step 4 : You will receive an 16 digit pass-code. Copy this to your clip board. You will require this for security set ups in your tenant.

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Security Set Ups in Overview Window

Step 5 : Click on the **eye** symbol highlighted to reach Monitoring window.

Step 6 : Choose **Connectivity Tests** Tile .

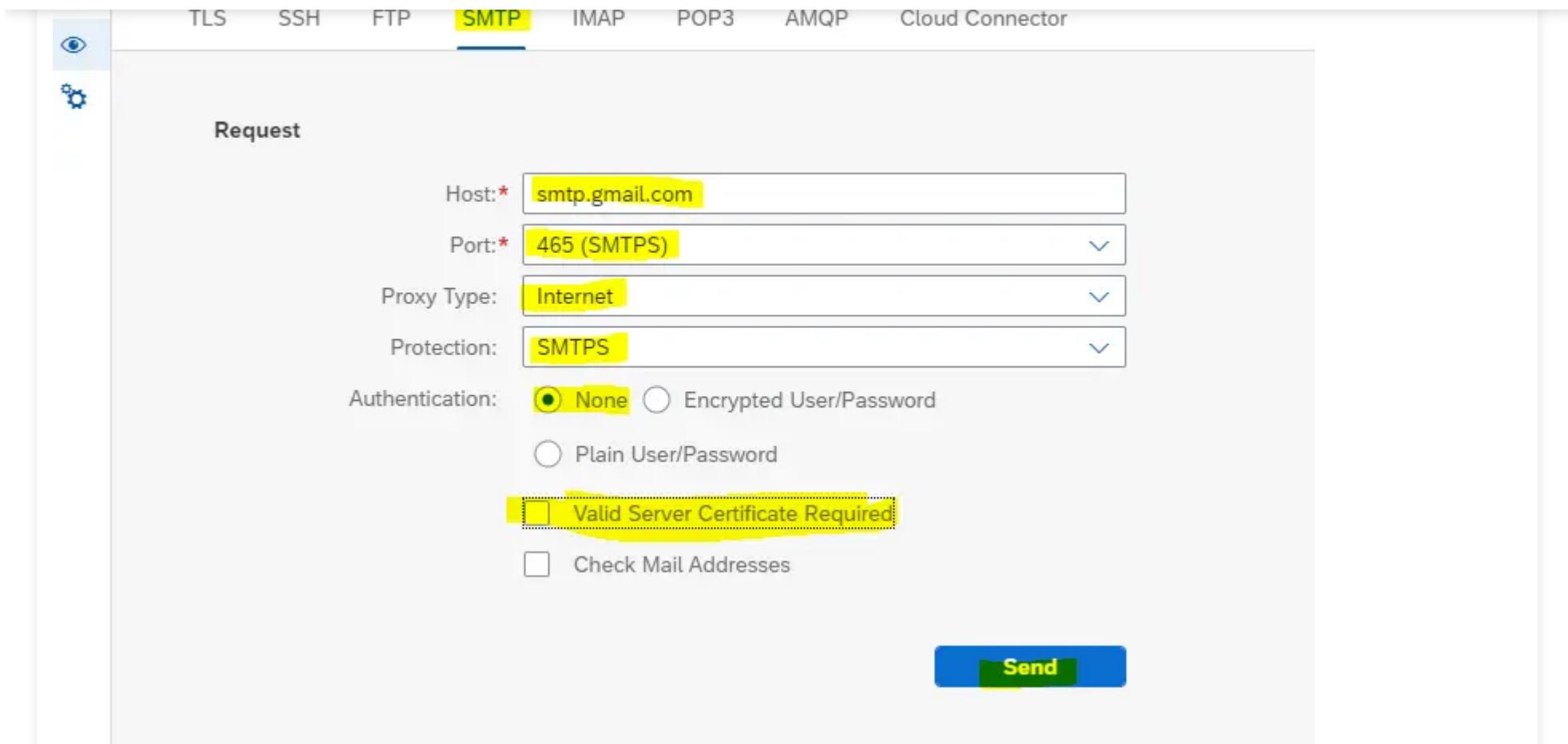
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Step 7 : Select **SMTP** and fill the details as below. Don't forget to **un check** the **Valid Server Certificate Required** button. Click on **Send**.

This is performed to check connectivity to the **SMTP** server of Gmail.



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The screenshot shows the configuration interface for the Mail Receiver Adapter in SAP CPI. The top navigation bar includes tabs for TLS, SSH, FTP, SMTP (which is highlighted in yellow), IMAP, POP3, AMQP, and Cloud Connector. Below the tabs, there are two icons: a blue eye icon and a blue gear icon. The main section is titled "Request" and contains the following fields:

- Host: *
- Port: *
- Proxy Type:
- Protection:

Authentication options include:

- None
- Encrypted User/Password
- Plain User/Password

Checkboxes at the bottom include:

- Valid Server Certificate Required (highlighted with a yellow border)
- Check Mail Addresses

A large blue "Send" button is located at the bottom right.

Step 8 : You will receive the required Server certificates. Click on **Download symbol** as highlighted below. This will give you a zip file with two certificates in it.

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Request

Host: *

Port: *

Proxy Type:

Protection:

Authentication:

None Encrypted User/Password

Plain User/Password

Valid Server Certificate Required

Check Mail Addresses

Response

Successfully reached host at smtp.gmail.com:465

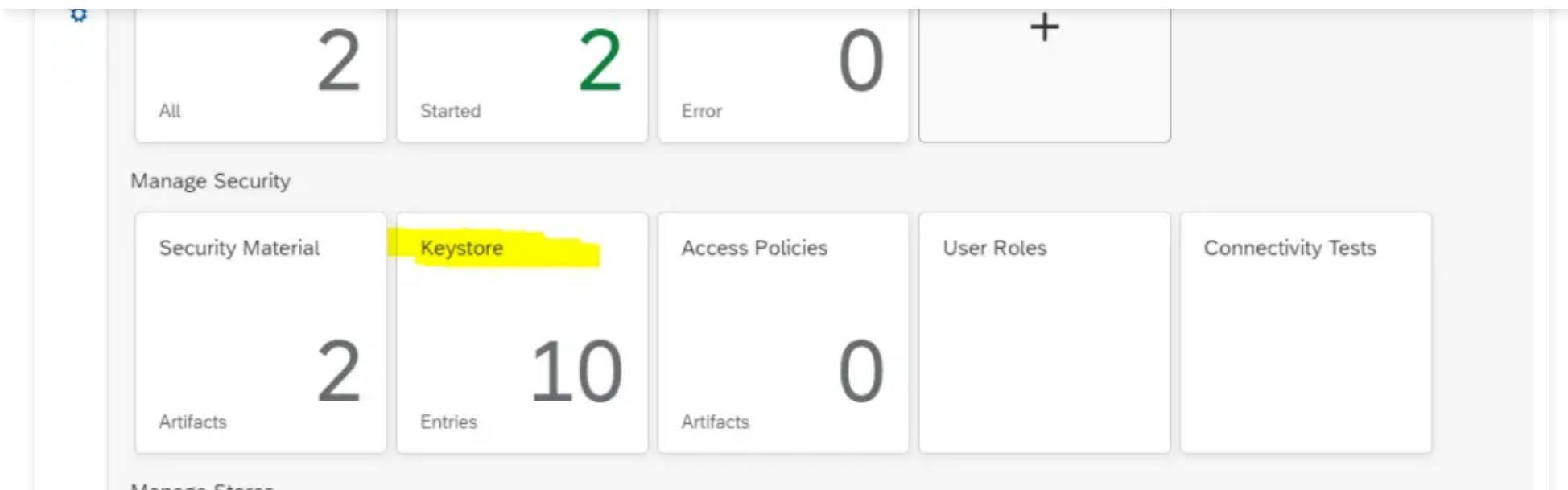
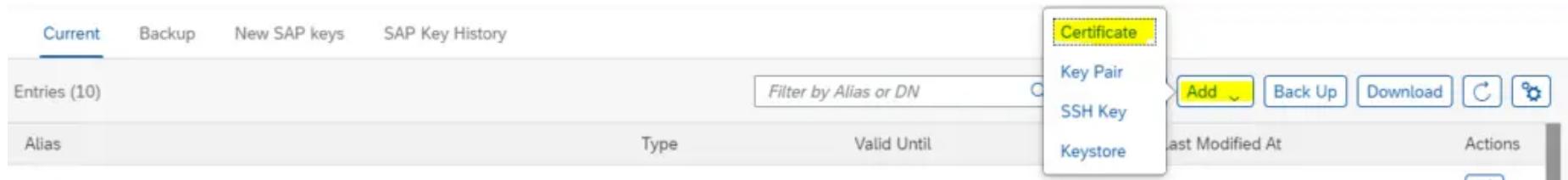
STARTTLS: Not Supported

Server Certificate: Valid

> Server Certificate Chain 

Send

Step 9 : Now Click on **Keystore** Tile.

 Menu**Step 10 : Click on ADD → Certificate**

The screenshot shows the SAP CPI interface with the following navigation and search fields:

- Current, Backup, New SAP keys, SAP Key History
- Entries (10)

The main table has columns: Alias, Type, Valid Until, Last Modified At, Actions.

A dropdown menu is open over the 'Actions' column, showing options: Certificate (highlighted), Key Pair, SSH Key, Keystore, and a gear icon.

Buttons at the bottom right of the dropdown: Add (highlighted), Back Up, Download, Refresh, and Settings.

Step 11 : Give any Alias name of your choice and Browse to the Certificate that you have downloaded and add it.

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Alias: * Mail certi1

File: * GTS CA 1O1.cer

Add Cancel

Step 12 : Repeat the same for another certificate too.



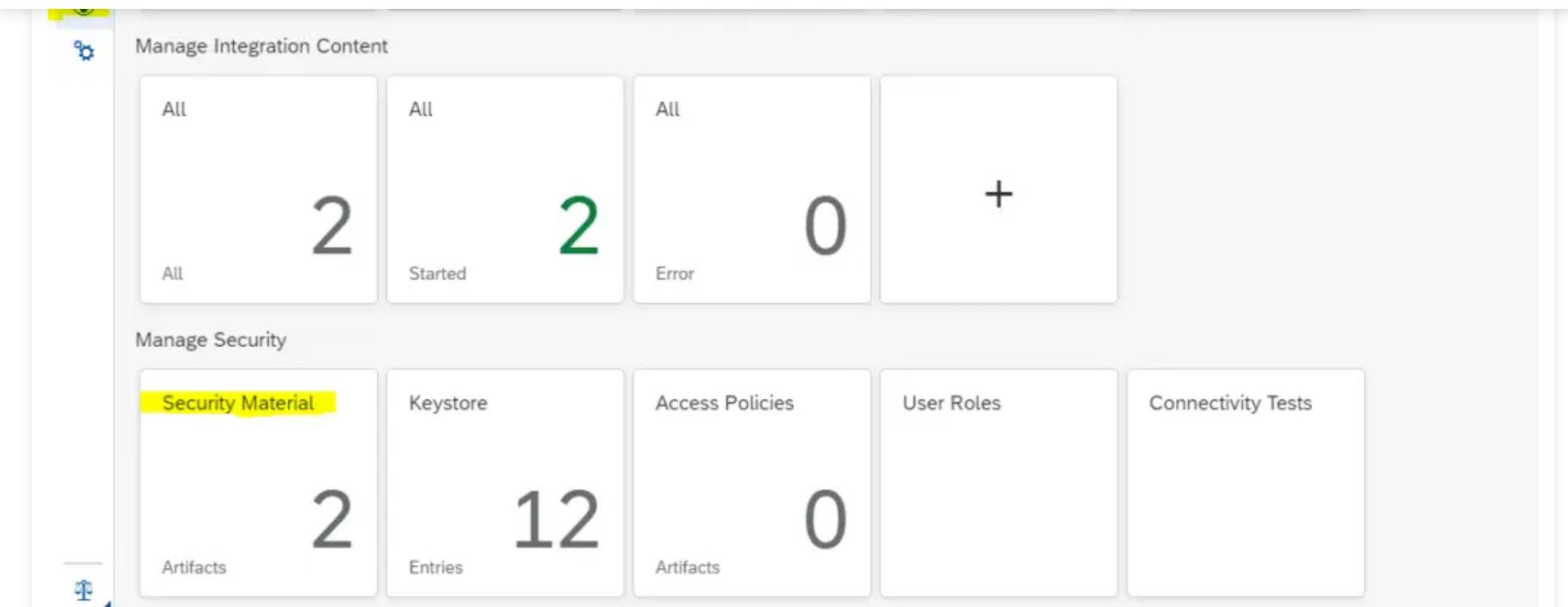
Add Certificate

Alias: * mail certi2

File: * smtp.gmail.com.cer

Add Cancel

Step 13 : Click on **Security Material** Tile.

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Step 14 : Click on **Add** → **User Credentials**

This screenshot shows the "Manage Security Material" page under the "Cloud Integration" tab. The "Known Hosts (SSH)" section is visible. In the top right, there are several buttons: "Add", "Download", "Edit", "Undeploy", and a gear icon. The "Add" button is highlighted with a yellow box. Below these buttons, there's a table with columns "By", "Deployed On", and some redacted information.

Step 15 : Name: Any name of your choice (*Remember this name*).

Type: User Credentials

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Password. The app password generated after two step verification in **Step 7**.

Once filled, **Deploy**.

Add User Credentials

Name: *	MyCred
Description:	My Gmail credentials
Type: *	User Credentials
User: *	[REDACTED]@gmail.com
Password:	[REDACTED]
Repeat Password:	[REDACTED]

Deploy **Cancel**

Creating Integration Flow in Design Window

Step 16 : Click on **Add → Integration Flow** under **Artifacts** tab of your Package.

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Header Overview **Artifacts (1)** Documents Tags

Add Delete Actions Filter Artifacts

	Name	Version	Actions
<input type="checkbox"/>	Mail_Trial	1.0.3	
<input type="checkbox"/>	A test mail flow Created		

Step 17 : Check **Create** radio button, Enter the mandatory fields. Press **OK**

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Create Upload

Name: *

ID: *

Product Profile:

Description:

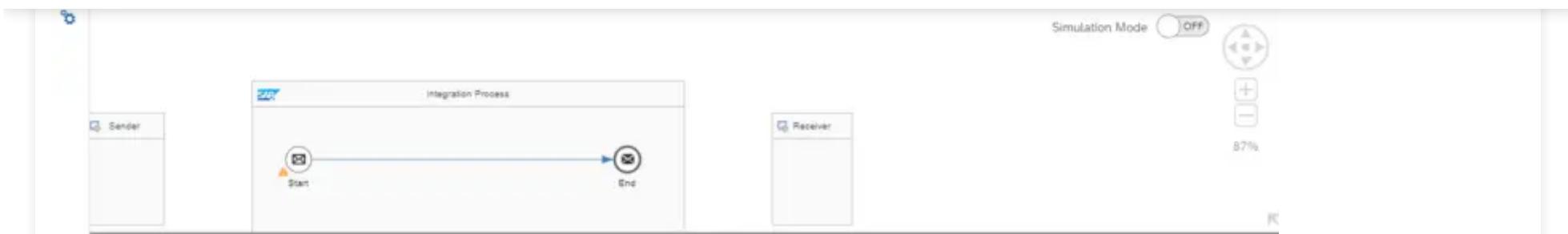
Sender: Receiver:

Step 18 : Click on the newly created Integration flow.

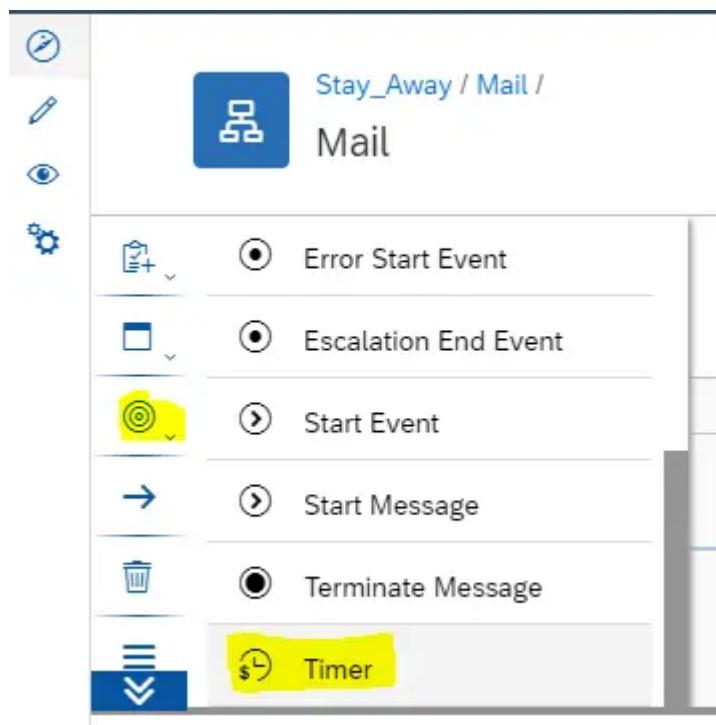
Header Overview Artifacts (2) Documents Tags

<input type="checkbox"/> Name	Type	Version	Actions
<input type="checkbox"/> Mail	Integration Flow	1.0.0	 
<input type="checkbox"/> To test working of mail adapter Created			

Step 19 : Click on **Edit**

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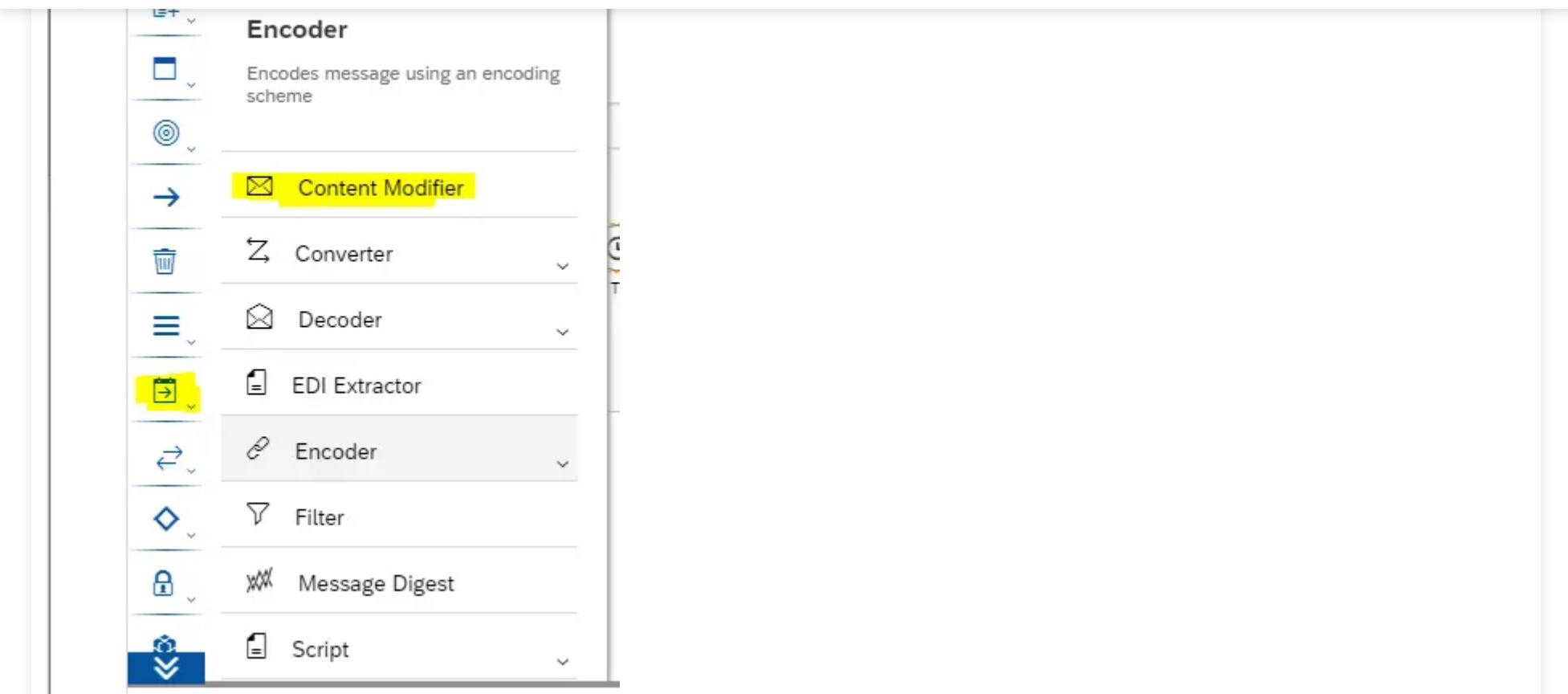
Step 20 : Select a **Timer** from Pallet to your left.



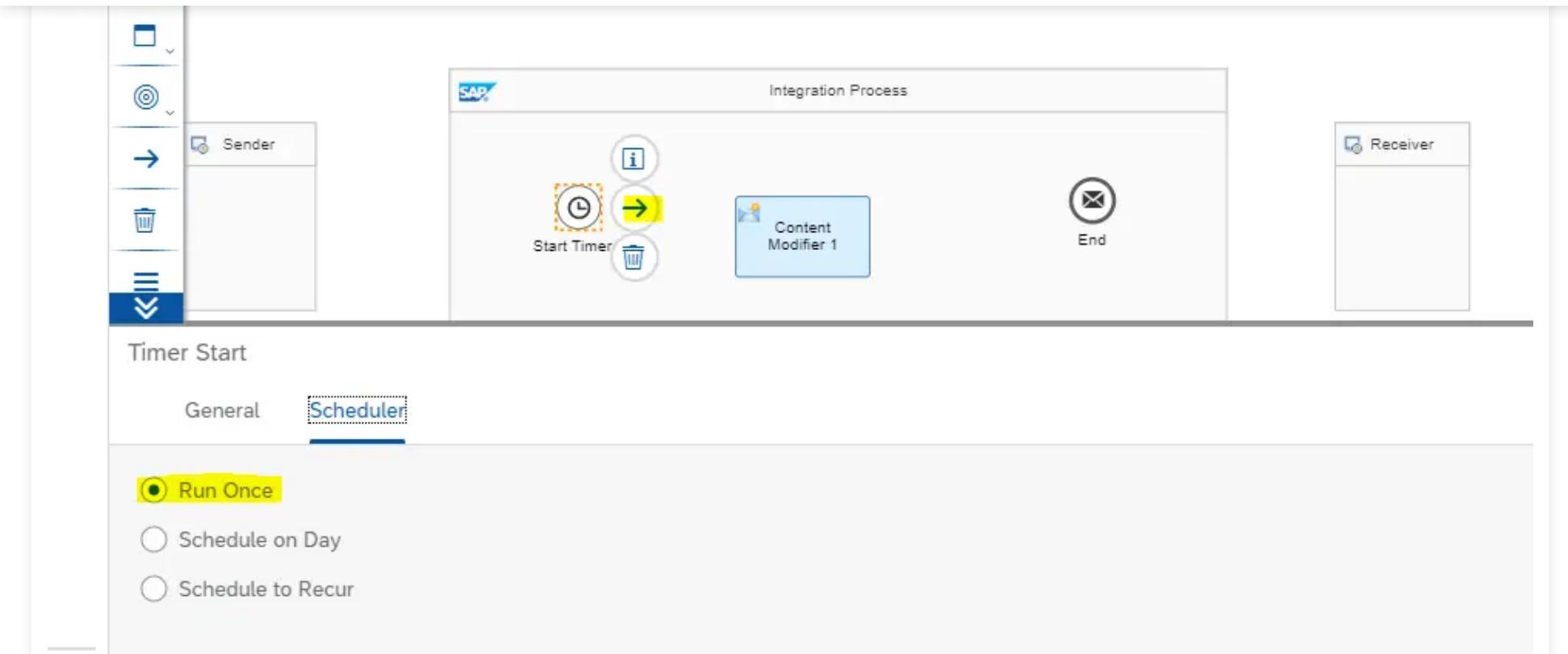
Step 21 : Delete the Start Event and replace it with **Timer**.

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Step 22 : Select **Content Modifier** from the Pallet and place to the right of **Timer**.

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Step 23 : Click on **Timer**. In **Scheduler** tab, Choose **Run Once** radio button

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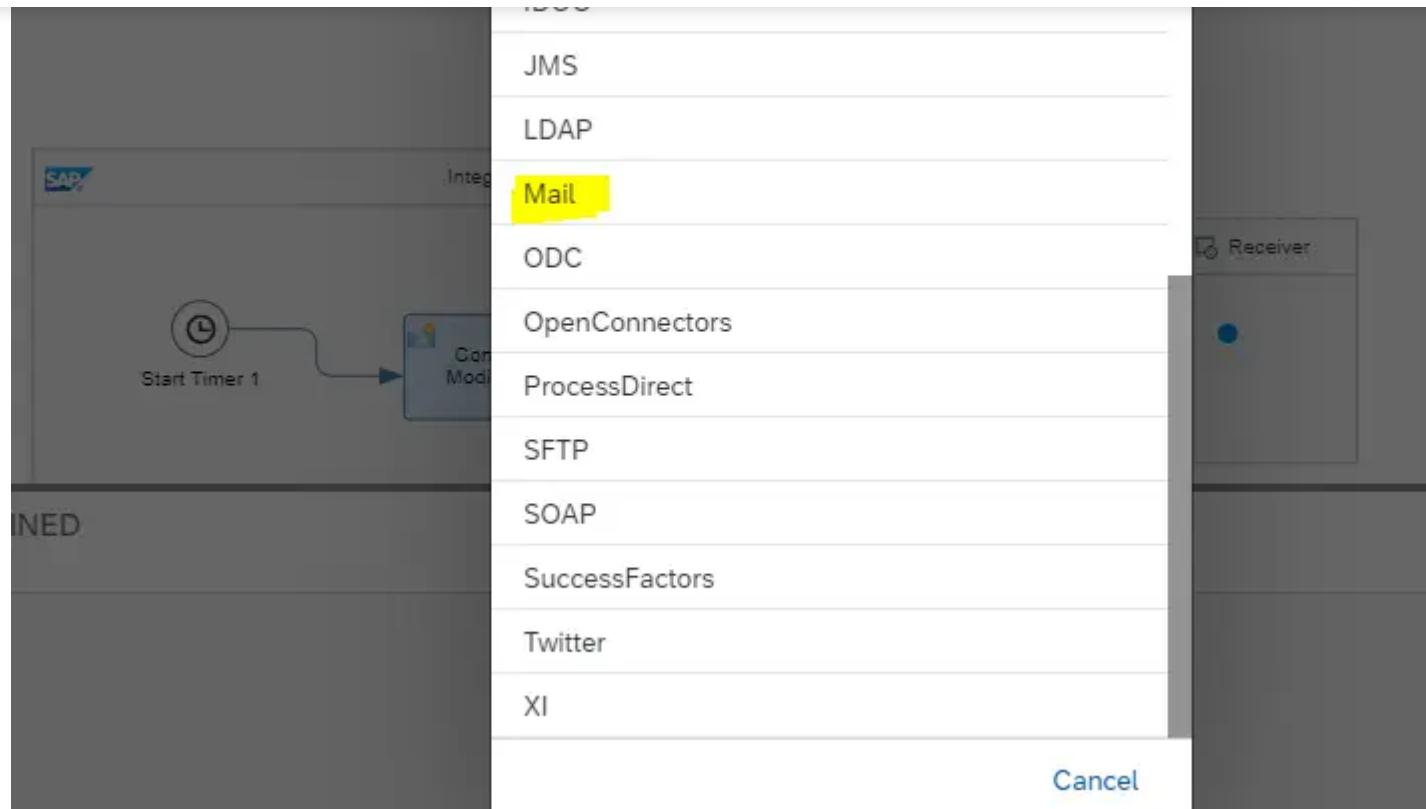
Step 24 : Click on **Content Modifier**. In **Message Body** tab, Choose **Type = Constant**. and in Body type any Message as shown below.

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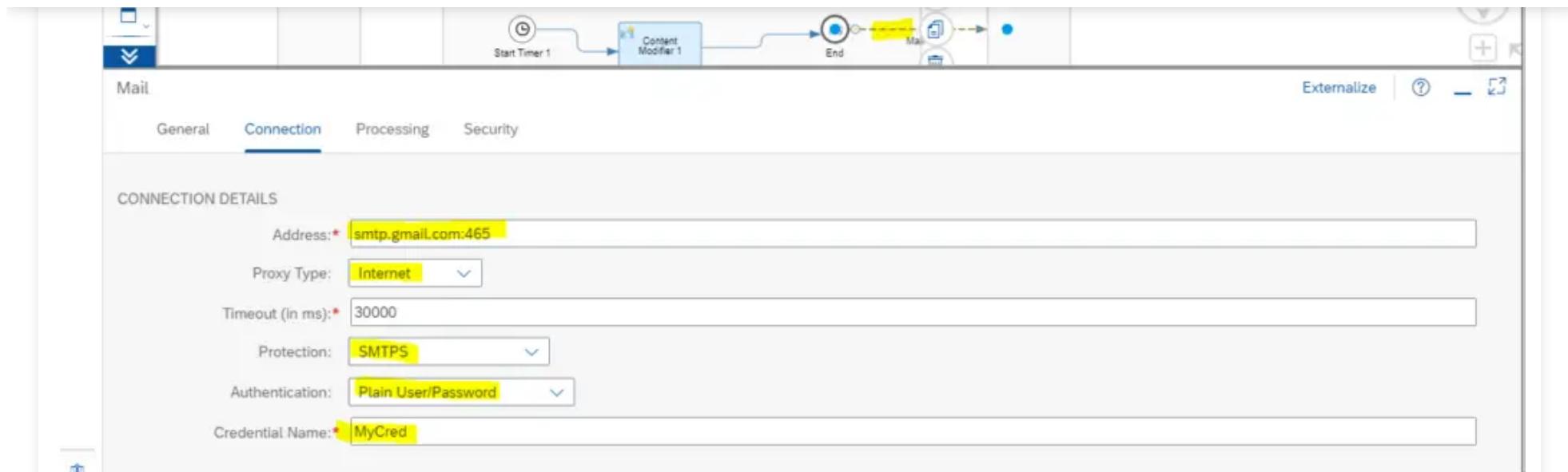
Step 25 : Drag the arrow on **End** Event towards the **Receiver**.



Step 26 : From the pop up appearing, Choose **Mail** adapter.

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Step 27 : In **Connection** tab, Fill the details as shown below. **Credential Name** will be the **Name** you gave in last step of setup.

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Address: * smtp.gmail.com:465

Proxy Type: Internet

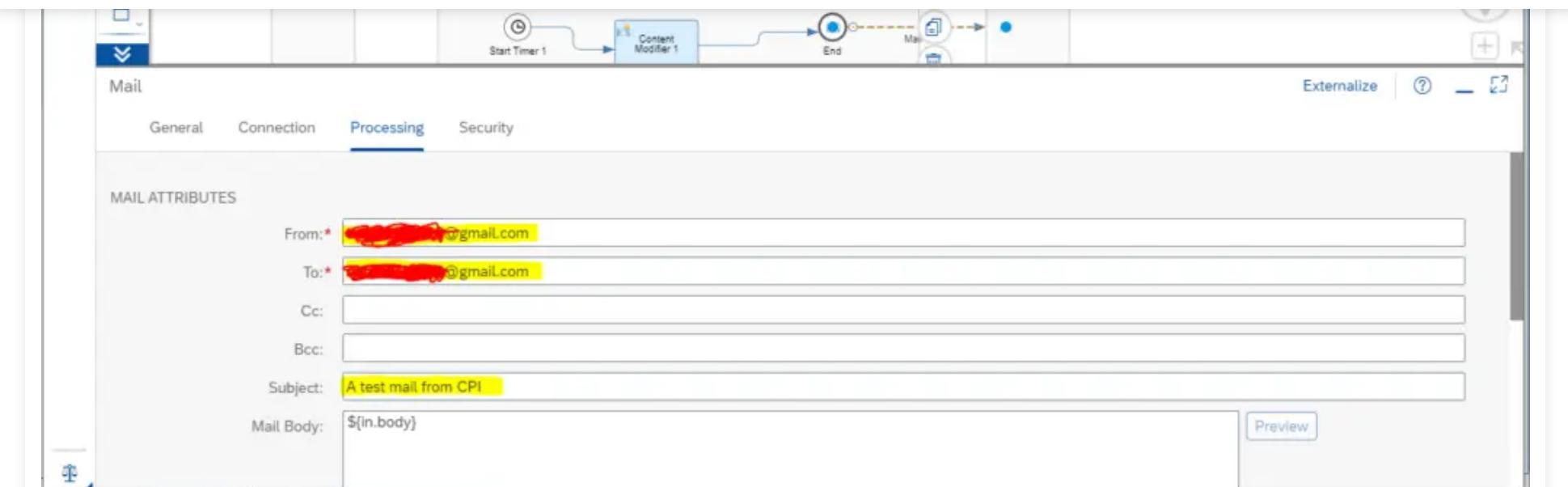
Timeout (in ms): * 30000

Protection: SMTSP

Authentication: Plain User/Password

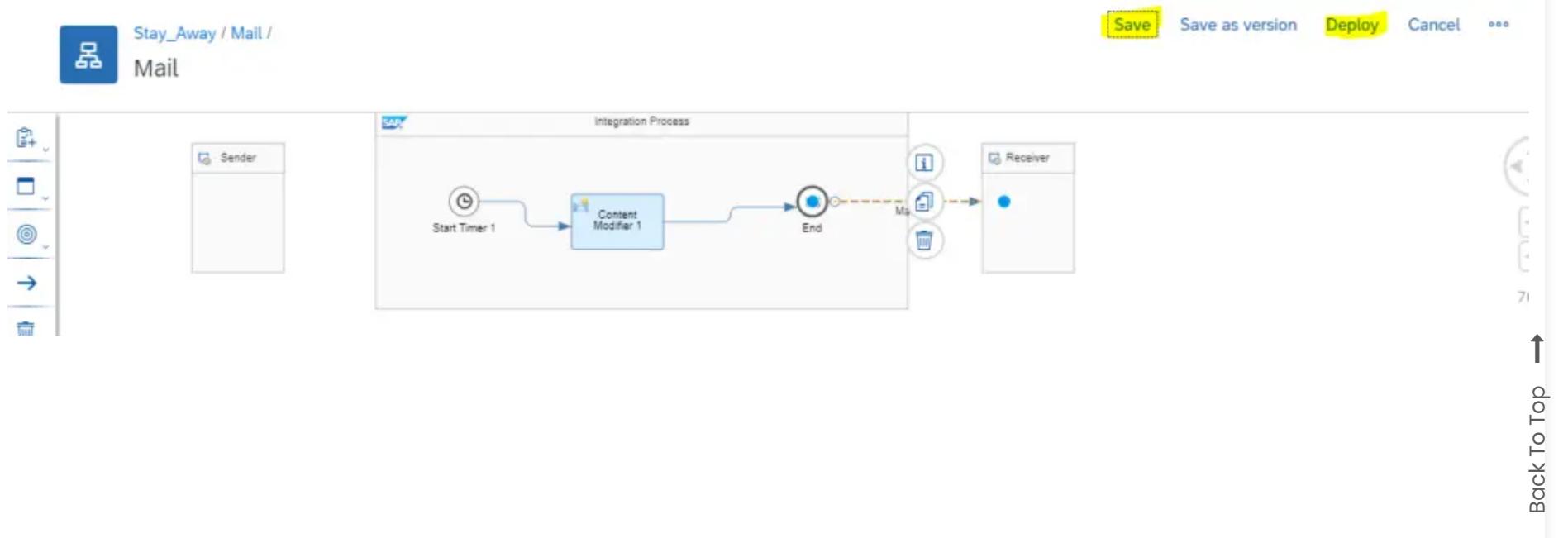
Credential Name: * MyCred

Step 28 : In the processing tab Fill the **From, To, Subject** tabs. Keep the rest as it is.

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The screenshot shows the SAP CPI Mail configuration interface. At the top, there is a process flow diagram with nodes: Start Timer 1, Content Modifier 1, End, and Mail. Below the diagram, the 'Processing' tab is selected in the navigation bar. The 'MAIL ATTRIBUTES' section contains fields for 'From', 'To', 'Cc', 'Bcc', 'Subject', and 'Mail Body'. The 'Mail Body' field contains the expression `\${in.body}`. A 'Preview' button is located next to the Mail Body field.

Step 29 : Click on **Save** and then **Deploy**.

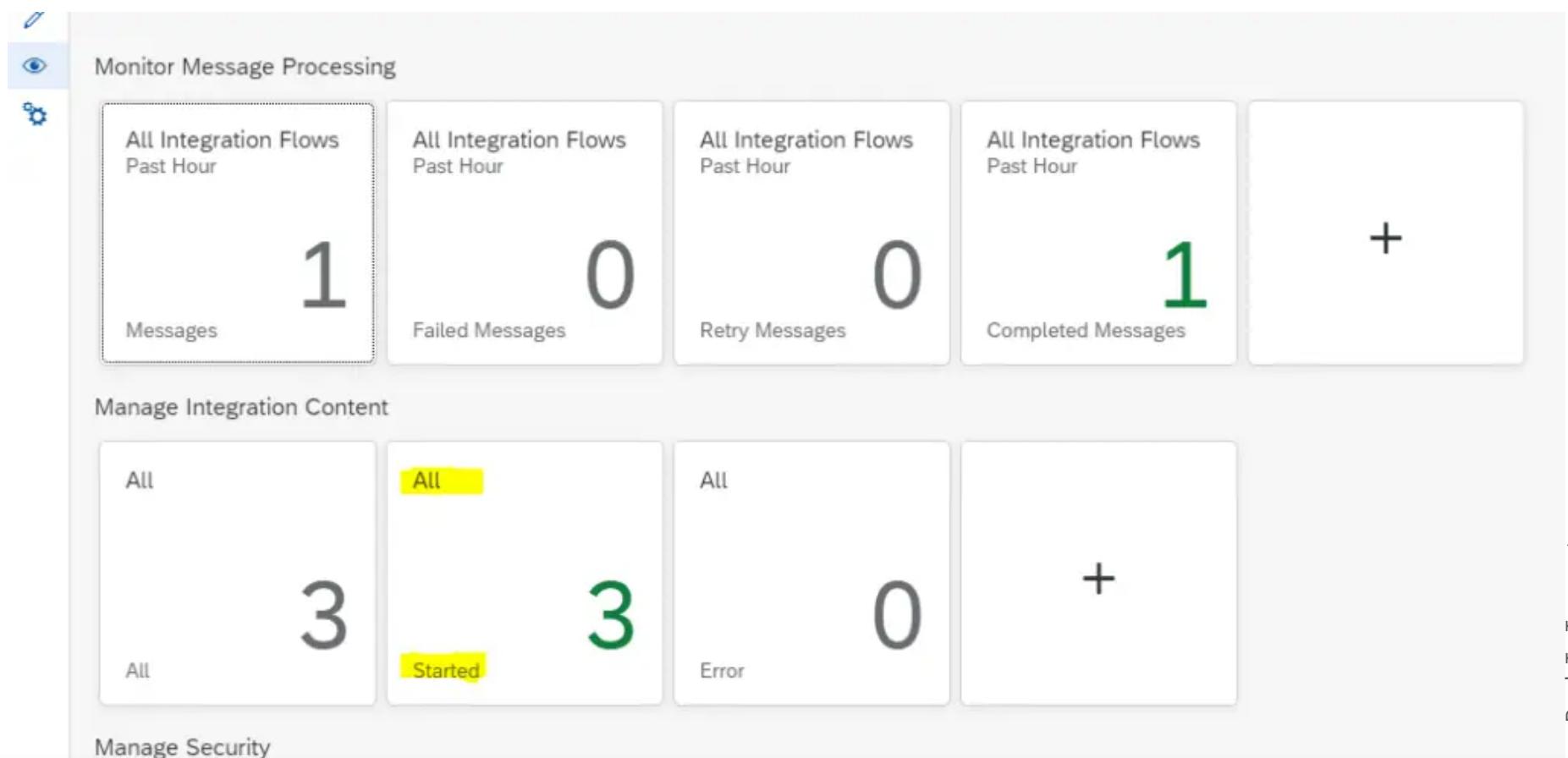


The screenshot shows the SAP CPI Integration Process configuration interface. The process is titled 'Integration Process' and includes nodes: Start Timer 1, Content Modifier 1, End, and a Mail node. The Mail node is connected to a 'Receiver' component. On the left, there is a sidebar with icons for Sender, Receiver, and other process components. On the right, there are buttons for 'Save', 'Save as version', 'Deploy', 'Cancel', and '...'. A vertical toolbar on the far right includes icons for Back To Top, Back, Forward, and Help.

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Monitoring the Deployed Integration Flow

Step 30 : Go to the **monitoring** tab and click on **All started**.



The screenshot shows the SAP CPI Monitoring interface with three main sections: **Monitor Message Processing**, **Manage Integration Content**, and **Manage Security**.

Monitor Message Processing:

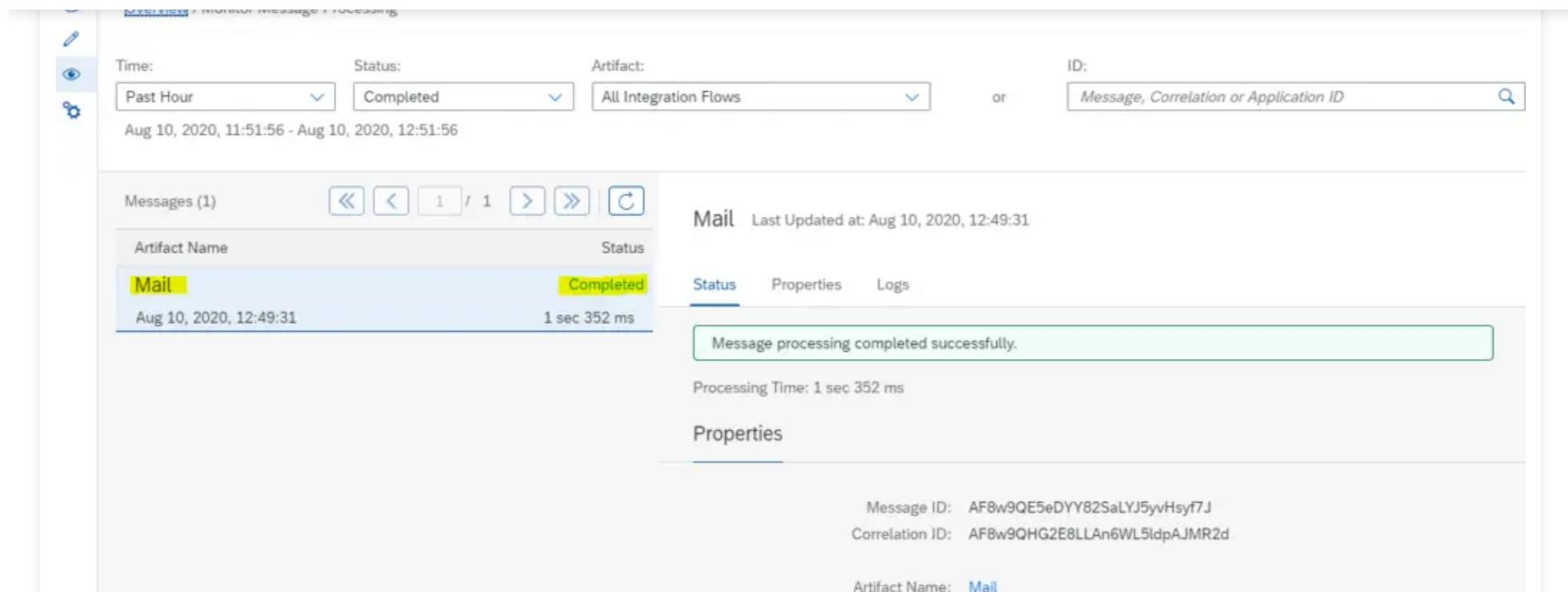
- All Integration Flows Past Hour: 1 Messages
- All Integration Flows Past Hour: 0 Failed Messages
- All Integration Flows Past Hour: 0 Retry Messages
- All Integration Flows Past Hour: 1 Completed Messages
- + (button)

Manage Integration Content:

- All: 3 All
- All: 3 Started
- All: 0 Error
- + (button)

Manage Security:

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The screenshot shows the SAP CPI Mail Receiver Adapter interface. At the top, there are filters for Time (Past Hour), Status (Completed), Artifact (All Integration Flows), and ID. Below the filters, a message log is displayed with one entry:

Artifact Name	Status
Mail	Completed

Details for the 'Mail' entry:

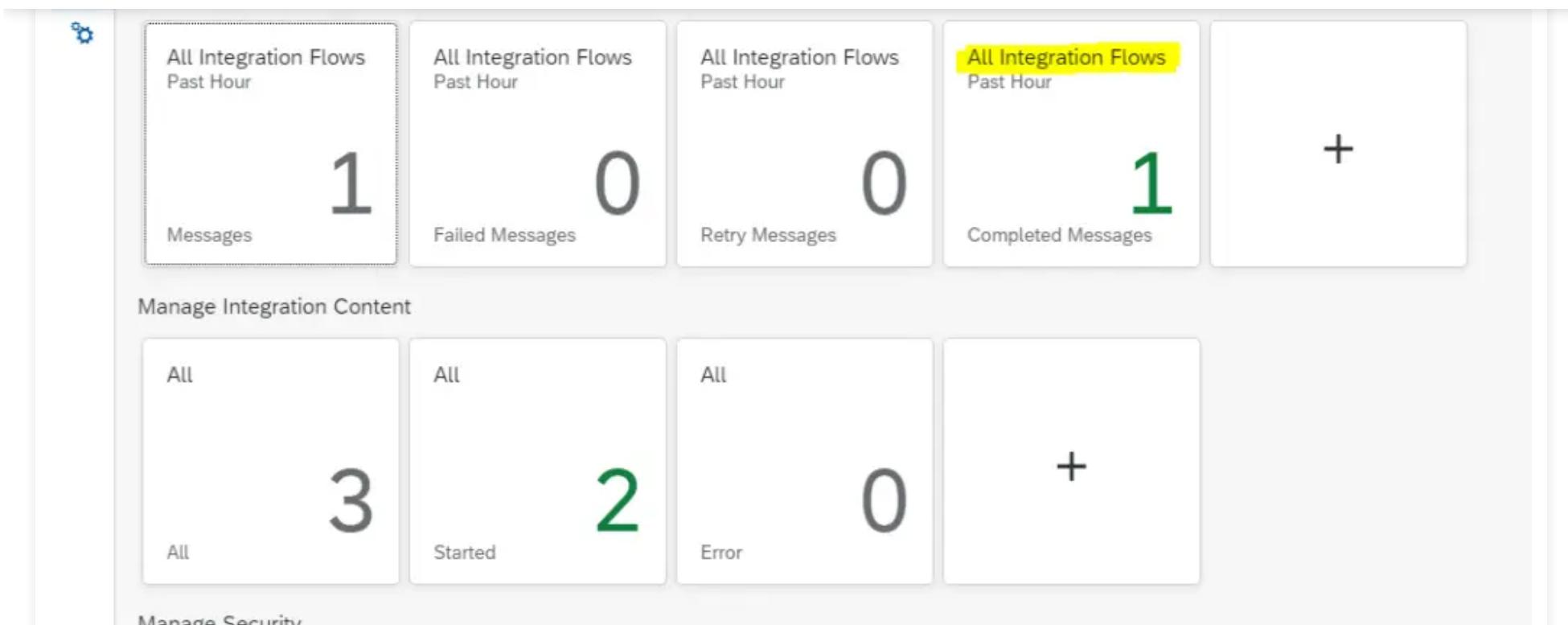
- Last Updated at: Aug 10, 2020, 12:49:31
- Status: Completed
- Processing Time: 1 sec 352 ms

A success message is shown in a green box: "Message processing completed successfully."

Properties section details:

- Message ID: AF8w9QE5eDYY82SaLYJ5yvHsyf7J
- Correlation ID: AF8w9QHG2E8LLAn6WL5ldpAJMR2d

Step 32 : If its Success as shown below, You will receive the mail to the Gmail address specified in **To** field with the Subject that you gave.

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In case of any error, Check your Gmail account if the access to low security apps is enabled. It needs to be enabled. Feel free to comment your queries.

FINAL VERDICT :

In conclusion, I hope you enjoyed reading this article on "**Mail Receiver Adapter in SAP – CPI : A step by step Guide!**", If yes, then don't forget to spread a word about it. Do send the feedback and to know more about it. Signing off sudarshan@recodehive.com



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