

Email Notification - ADF

- Creating an Email notification using logic app. as the pipeline in ADF run successful.

Prerequisite :

-Need an Azure Subscription.

-Need a ADF resource .

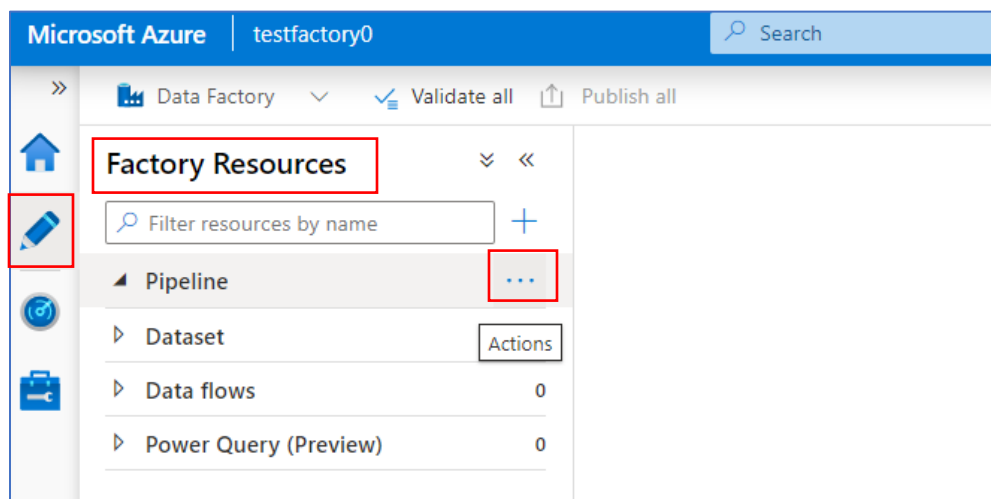
-Need a storage account .

- Create 2 container with name : -input
-output

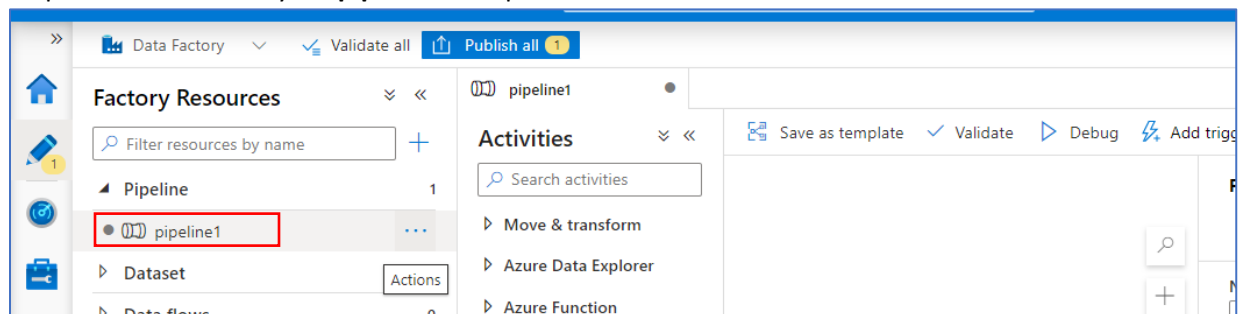
- For this I am creating a simple **copy activity** from data copy from **input container** to **output container** and add a **web activity** at the end of the flow

Following are the steps:

Step 1 Create a new pipeline in your **Factory Resource** With the name 'Pipeline1'

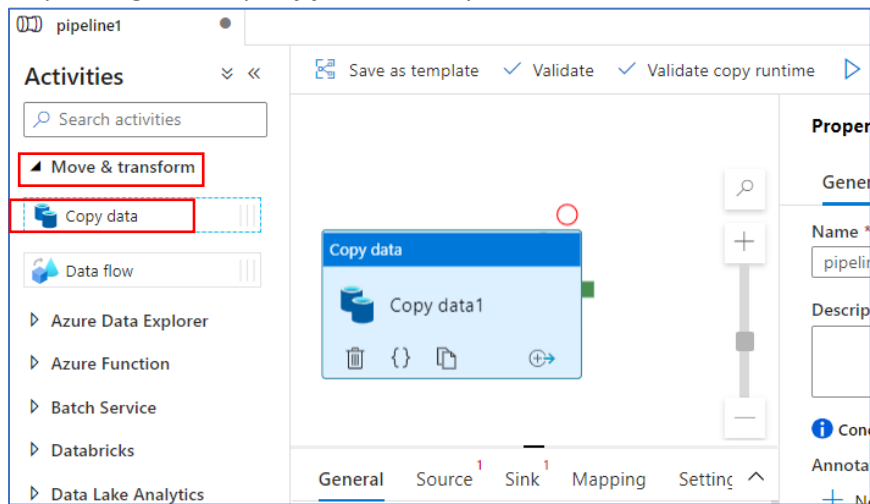


Step 2 Double click on your **pipeline1** to open it.

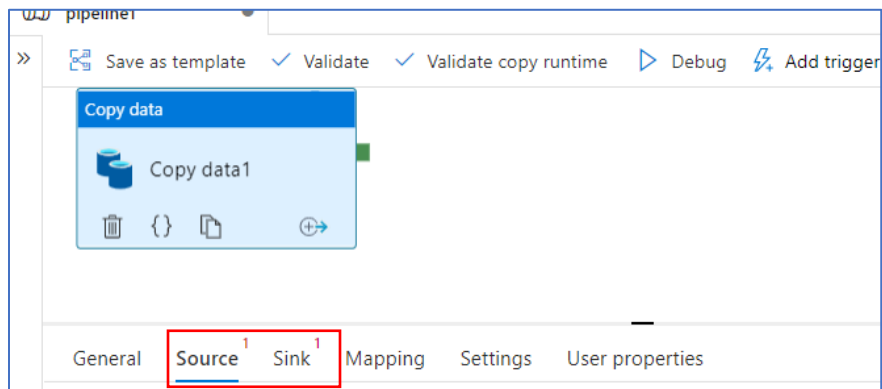


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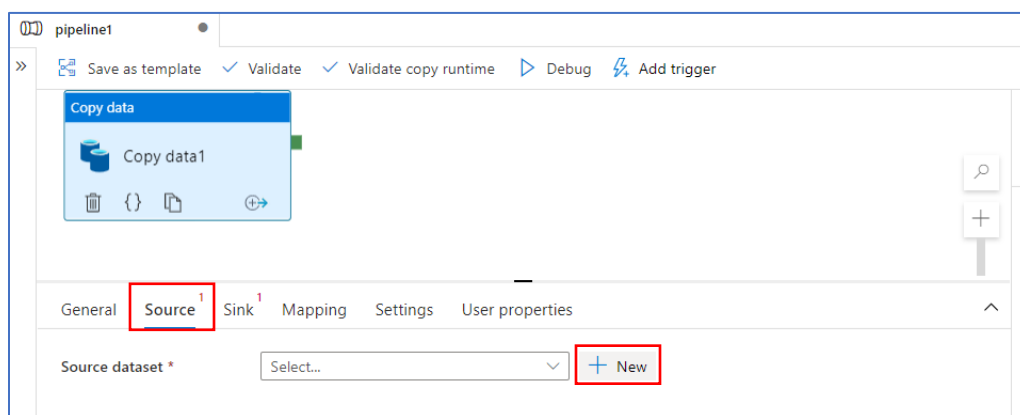
Step 3 Drag and drop **copy data** activity from the **Move & transform**.



Step 4 Configure the **copy data** activity with **Source** and **Sink**.

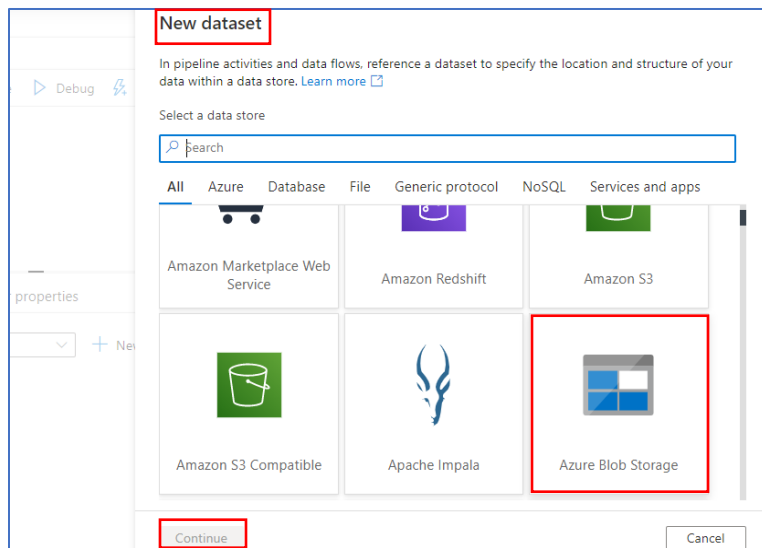


Step 5 Select the **Source** from the bottom Of the screen And click on **New** to add **Source dataset**.

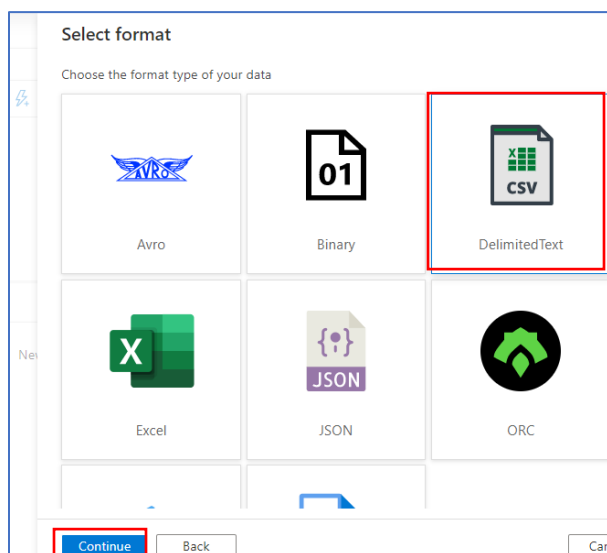


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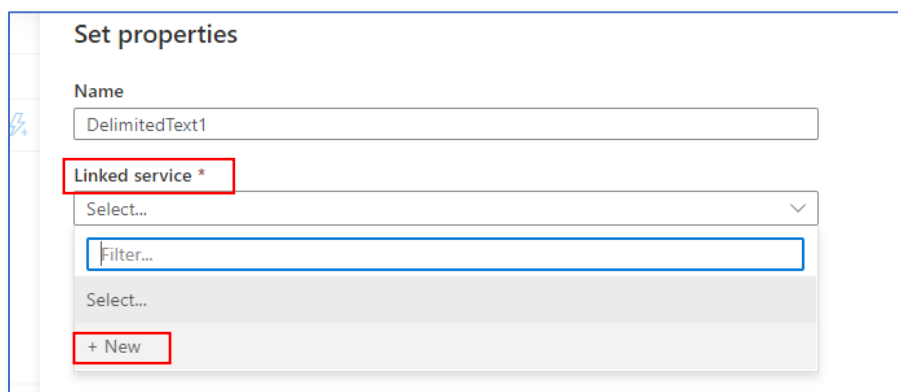
Step 6 Select and **Azure Blob Storage** from the **New dataset** Wizard and click on **continue** button.



Step 7 You will see a **Select format** wizard select **Delimited Text** and click on **Continue** button.



Step 8 Add **Linked Service** Click on **New** option to add .



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Step 9 Configure the **azure blob storage** connection Select **Azure subscription** from the dropdown and select the **storage account name** from the dropdown .

Click on **Test Connection** and then click on **Create** button

New linked service (Azure Blob Storage)

Connection string Azure Key Vault

Account selection method ⓘ

☒ From Azure subscription ☐ Enter manually

Azure subscription ⓘ

Data - Deepak & Ashfaq (8f6aa822-e567-4311-8197-ed01fe525a04) ▼

Storage account name ⓘ

taskstorage0 ▼ ↻

Additional connection properties

+ New

Test connection ⓘ

☒ To linked service ☐ To file path

Annotations

+ New

Create

✓ Connection successful

Test connection Cancel

Step 10 Select the **File path** select **input** container And click on **ok**.

Set properties

Name

DelimitedText1

Linked service *

AzureBlobStorage1 ▼ ✎

File path

input / Directory / File ▼

First row as header ☐

Import schema

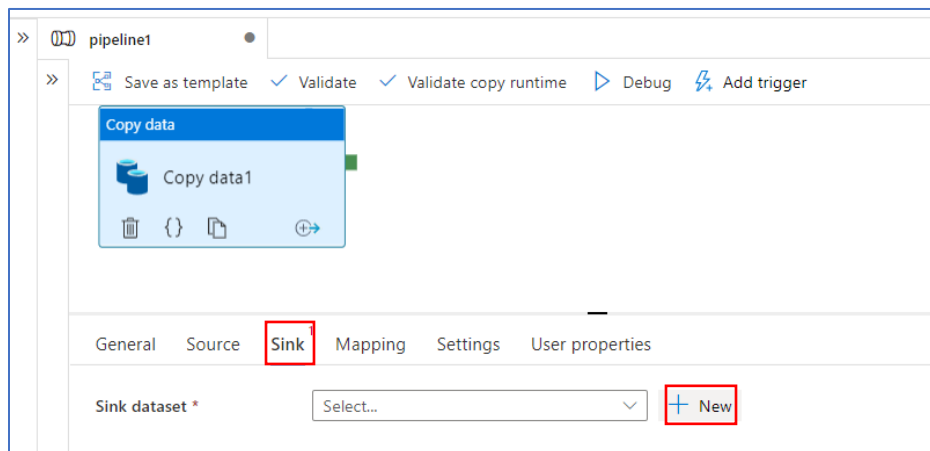
☒ From connection/store ☐ From sample file ☐ None

Advanced

OK Back Cancel

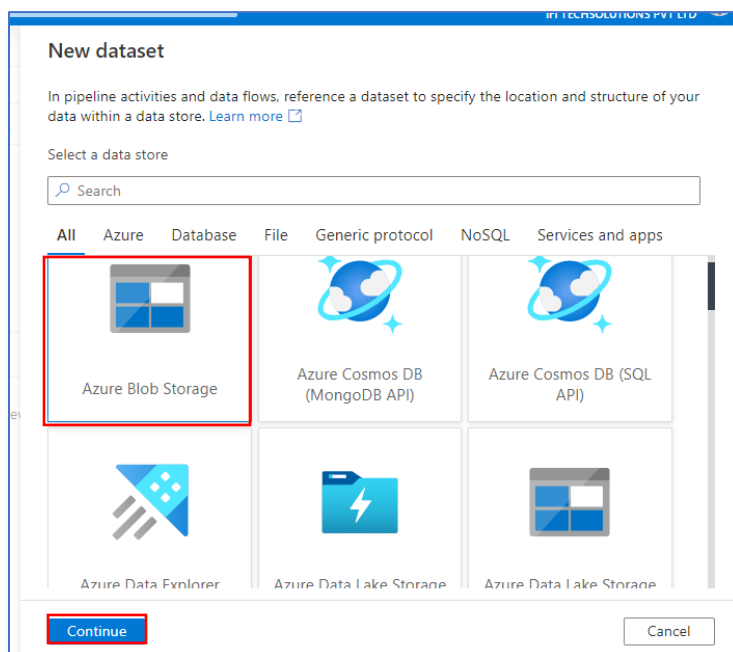
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Step 11 Select **Sink** from the bottom of the screen and add a new **Sink dataset** .



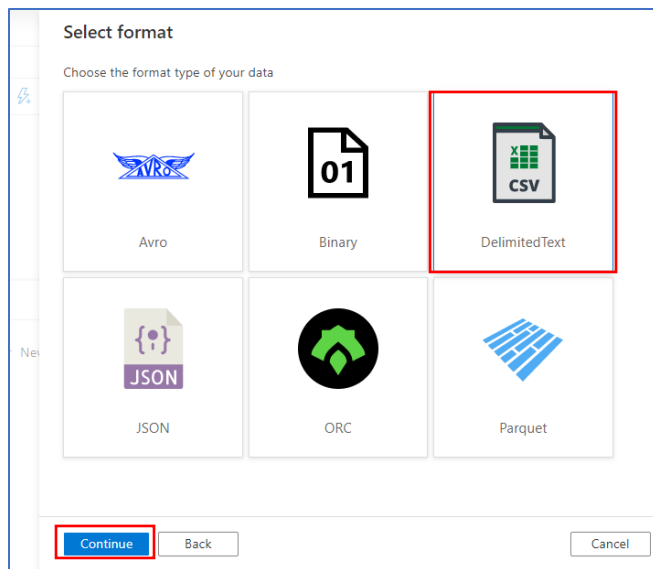
Step 12 Select the azure blob storage from the **New dataset** screen

And click **continue** button.

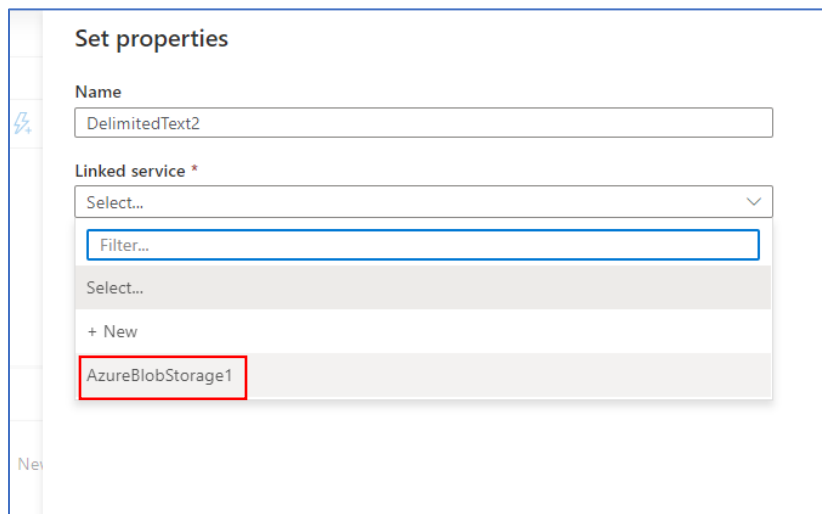


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Step 13 You will see a **Select format** wizard select **Delimited Text** and click on **Continue** button.



Type 14 In **set property** configure the **linked service** As we are using the same **blob storage** for the **Output** container so we will be using the same linked service As we have configured earlier for source so select from the dropdown.

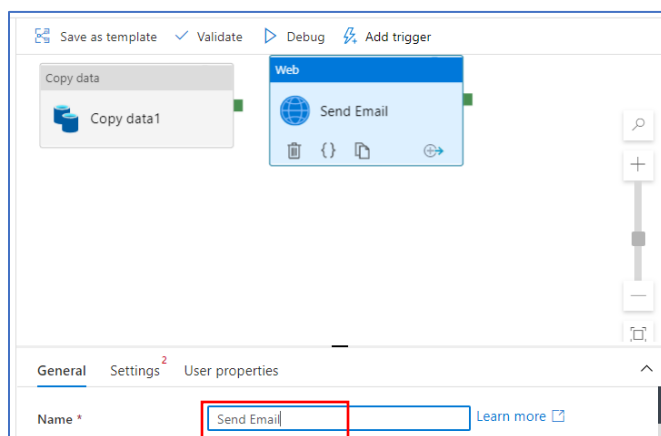
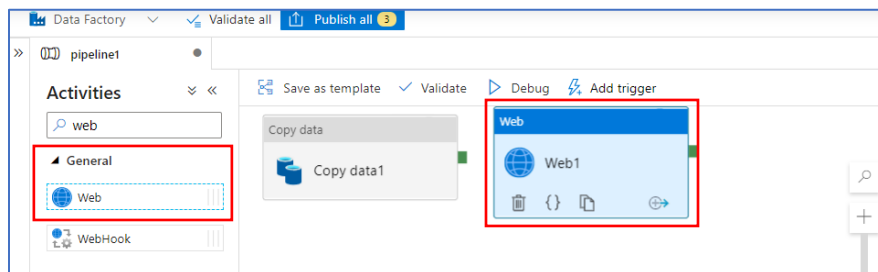


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15 Select **output** container in the **File path** in **Set properties** and click on **ok** button .

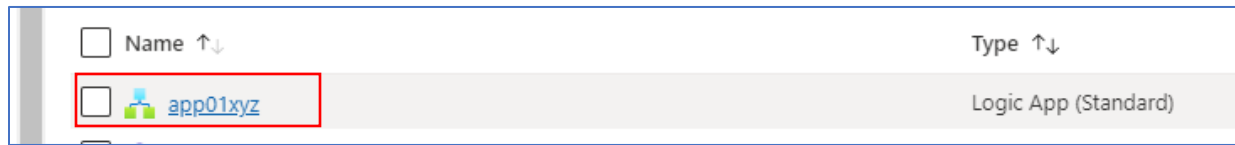
The screenshot shows the 'Set properties' dialog box for a DelimitedText2 activity. The 'File path' field is highlighted with a red box, showing 'output' selected under the 'Directory' tab. The 'OK' button is also highlighted with a red box.

16 Add web activity from the **activity** panel drag and drop **web** activity from **General** Configure the email activity rename the web activity to 'send email'.

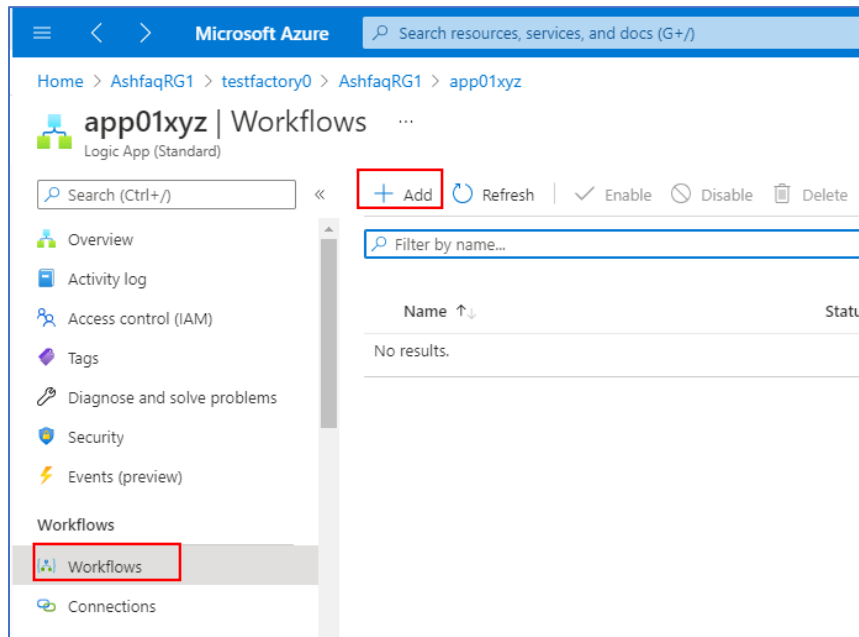


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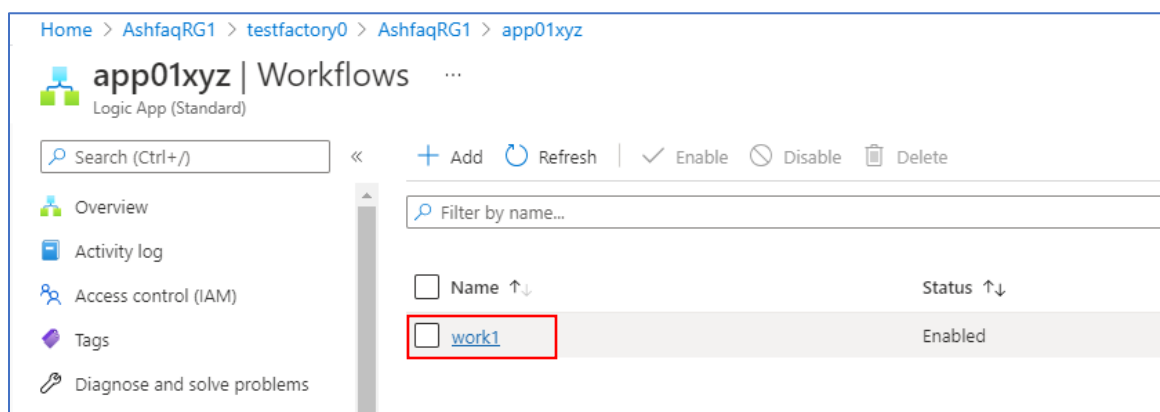
Step 17 Open your logic app from azure portal



17.1 Select and workflow from the left panel Add a new workflow.

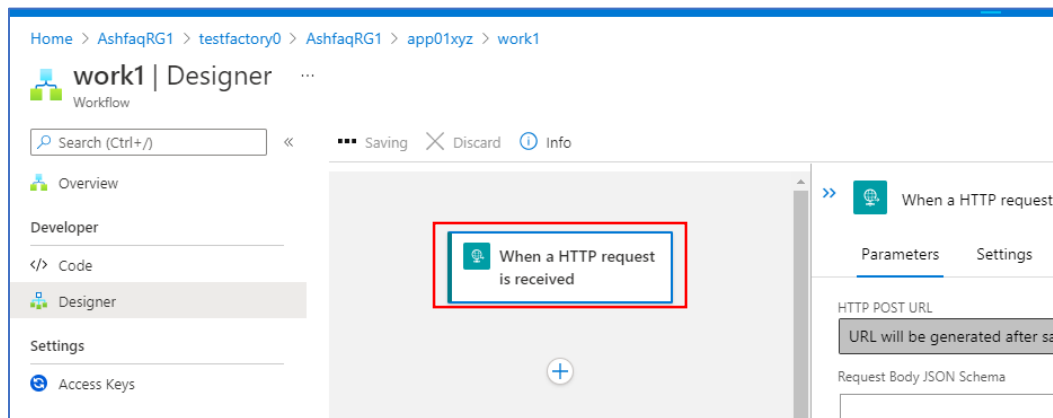


17.2 Add a new workflow name it 'work1'.

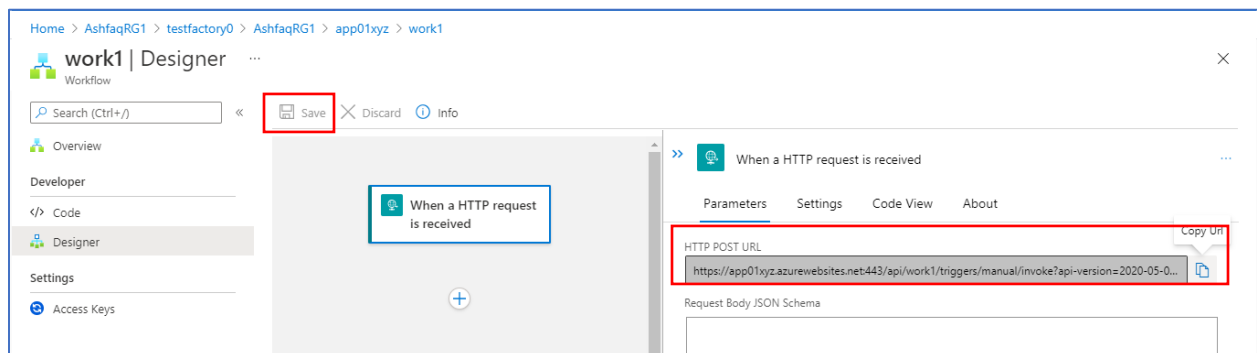


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Step 18 Open the workflow and Add a **'when an HTTP request is received'** activity from the right search bar

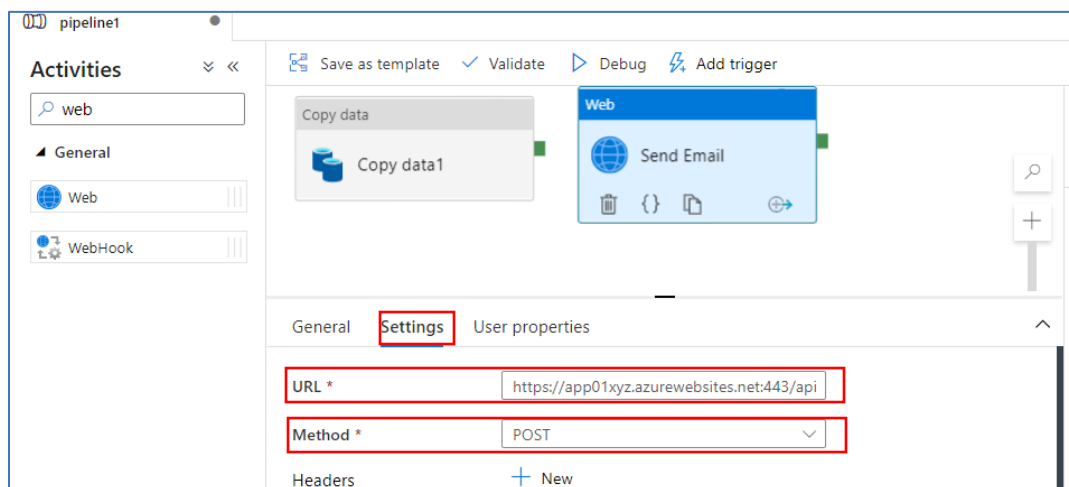


Step 19 Click on the activity And click on save button then you will get an HTTP post URL copy that URL.



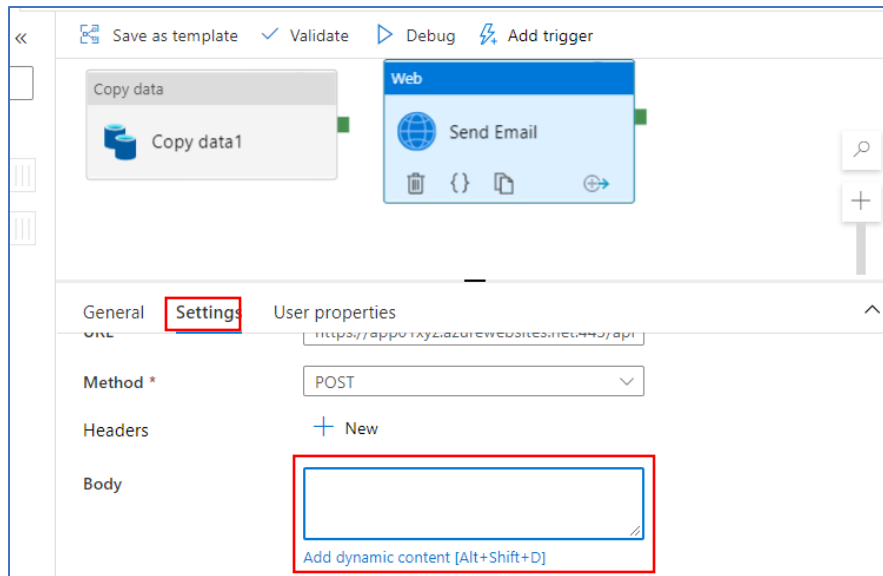
Step 20 Copy URL from logic app **http post** and paste that link in **Send Email > Settings > URL**.

And set **POST** in **Method**. Below URL.

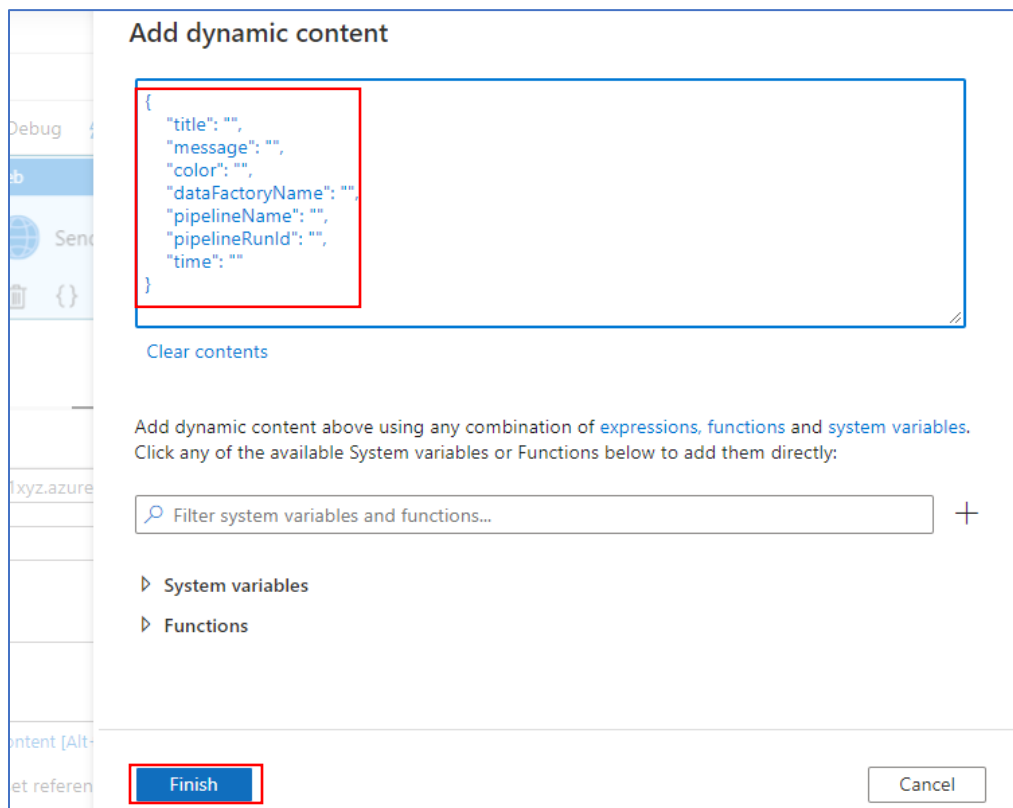


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Step 21 Click on the Body and **Add dynamic content**



21.1 Type the below JSON code in a dynamic content Text area Click on finish .



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Step 22 Go and save your logic app from your azure portal and click on **Refresh** button.

The screenshot shows the Azure portal interface for a Logic App named 'work1'. The breadcrumb navigation at the top reads: Home > AshfaqRG1 > testfactory0 > AshfaqRG1 > app01xyz >. Below the breadcrumb, the Logic App icon and name 'work1' are displayed, followed by 'Workflow'. A search bar with the placeholder 'Search (Ctrl+ /)' is on the left. To the right of the search bar are several action buttons: 'Run Trigger' (a play icon), 'Refresh' (a circular arrow icon, highlighted with a red box), 'Enable' (a checkmark icon), 'Disable' (a circle with a slash icon), 'Delete' (a trash can icon), and 'Feedback' (a heart icon). Below these buttons, the 'Overview' tab is selected. The 'Essentials' section shows the Logic app as 'app01xyz', Status as 'Enabled', and State type as 'Stateful'. On the right side, there are links for 'Trigger Type', 'Application Insights', and 'Health Status'.

22.1 You will see a JSON format loaded in the '**Request Body JSON Schema**' Automatic .

The screenshot shows the configuration page for the 'When a HTTP request is received' trigger in the Azure Logic App designer. The left pane shows the trigger icon and name. The right pane has tabs for 'Parameters', 'Settings', 'Code View', and 'About'. The 'Parameters' tab is active, showing the 'HTTP POST URL' as 'https://app01xyz.azurewebsites.net:443/api/work1/triggers/man...'. Below this, the 'Request Body JSON Schema' field is highlighted with a red box. It contains a JSON schema definition:

```
{
  "type": "object",
  "properties": {
    "title": {
      "type": "string"
    },
    "message": {
      "type": "string"
    }
  }
}
```

. Below the schema field is a link that says 'Use sample payload to generate schema'. At the bottom, there is a 'Relative path' field.

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Step 24 Open **Data factory** go to '**Send Email**' > **Settings** > **Body** click on **Dynamic content** edit the below JSON code click on **Finish** button

Add dynamic content

```
{
  "title": "Pipeline Run Finished!",
  "message": "Demo Pipeline Finished successfully!",
  "color": "Green",
  "dataFactoryName": "@{pipeline().DataFactory}",
  "pipelineName": "@{pipeline().Pipeline}",
  "pipelineRunId": "@{pipeline().RunId}",
  "time": "@{utcnow()}"
}
```

Clear contents

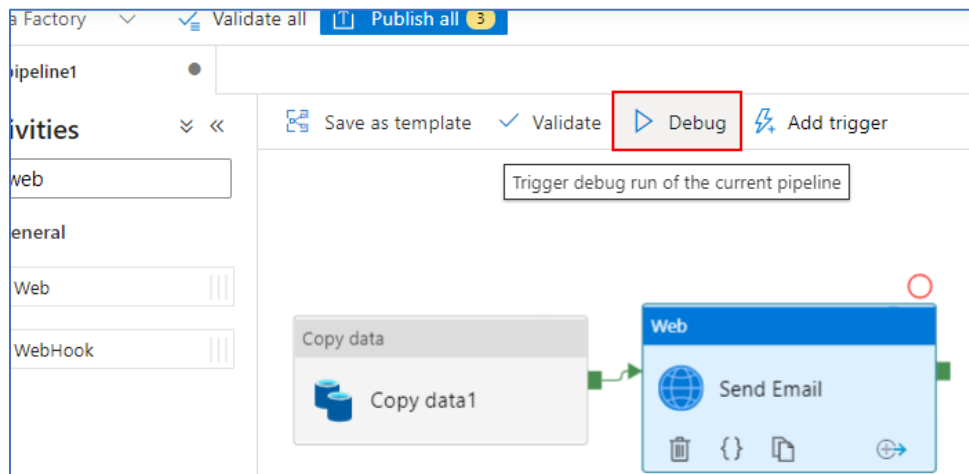
Add dynamic content above using any combination of [expressions](#), [functions](#) and [system variables](#).
Click any of the available System variables or Functions below to add them directly:

Search: +

- convertToUtc
Convert a timestamp from the source time zone to Universal Time Coordinated (UTC). For exam...
- utcnow
Returns the current timestamp as a string.

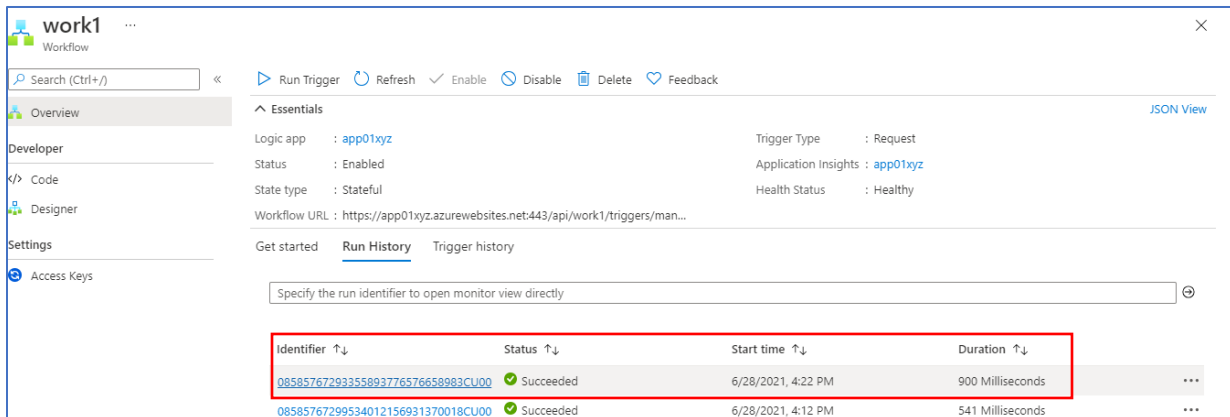
Finish Cancel

Step 25 Open ADF and click on Debug button.



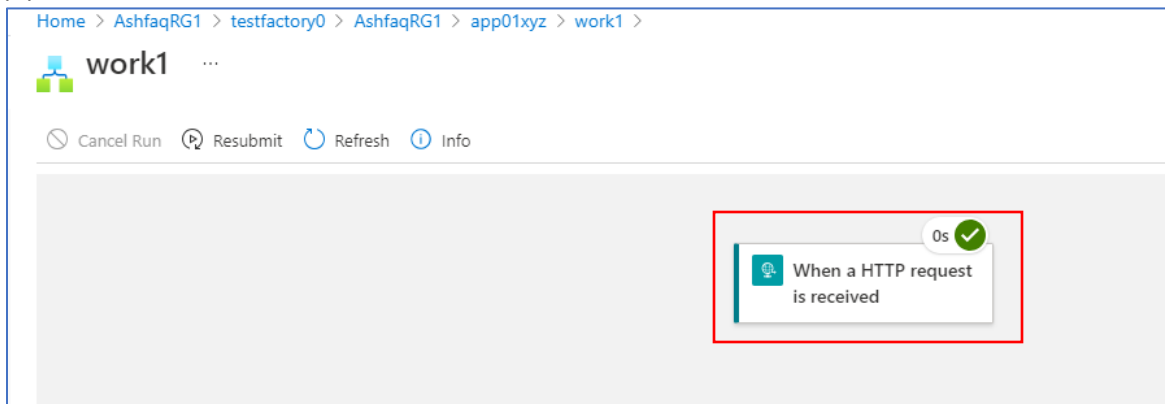
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step 26 As you click on debug in ADF you will see a link in logic app overview Click on this link.

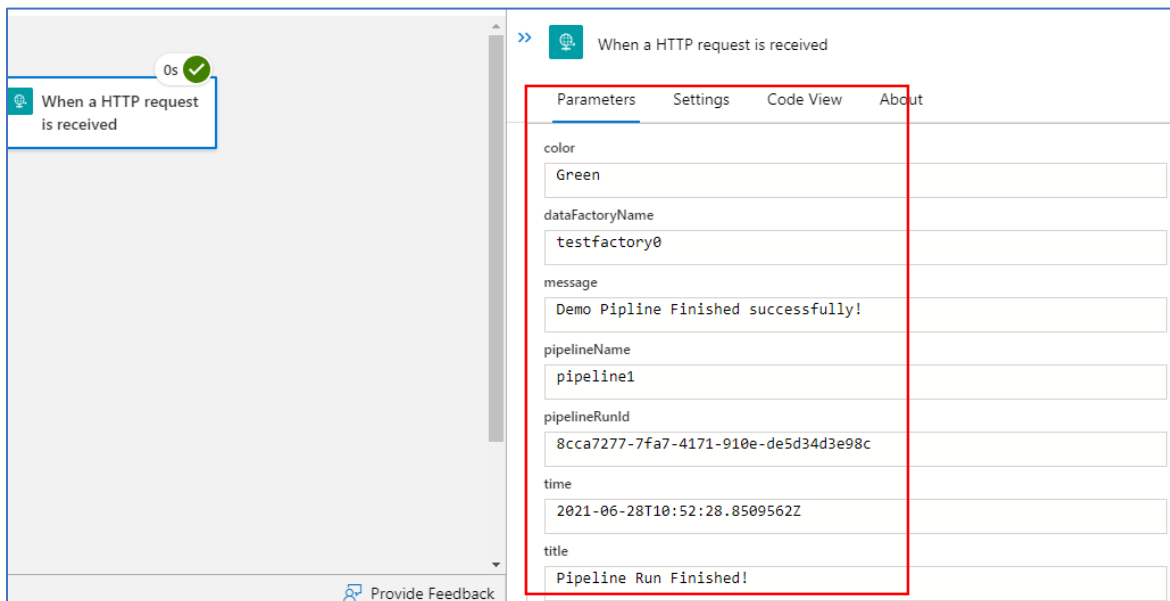


Identifier ↑↓	Status ↑↓	Start time ↑↓	Duration ↑↓
08585767293355893776576658983CU00	Succeeded	6/28/2021, 4:22 PM	900 Milliseconds
08585767299534012156931370018CU00	Succeeded	6/28/2021, 4:12 PM	541 Milliseconds

26.1 You will see a green tick that means we have received a post request to this logic app from ADF pipeline



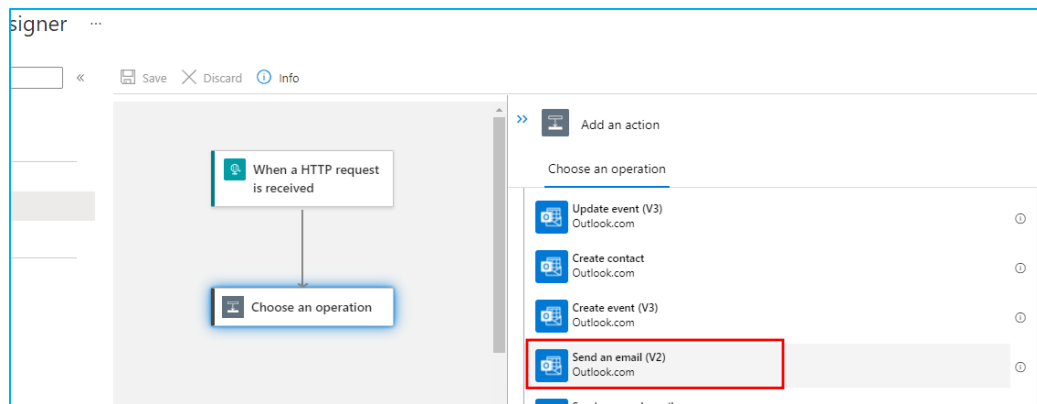
26.2 You can check the post data by double click on the activity.



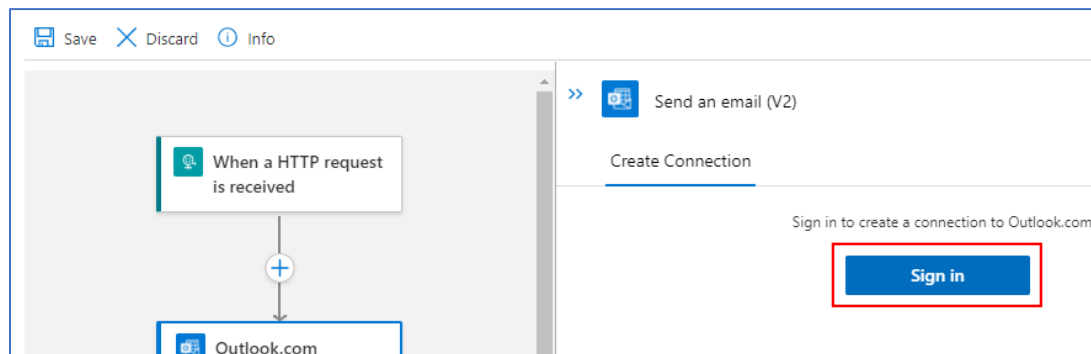
Parameter	Value
color	Green
dataFactoryName	testfactory0
message	Demo Pipeline Finished successfully!
pipelineName	pipeline1
pipelineRunId	8cca7277-7fa7-4171-910e-de5d34d3e98c
time	2021-06-28T10:52:28.850956Z
title	Pipeline Run Finished!

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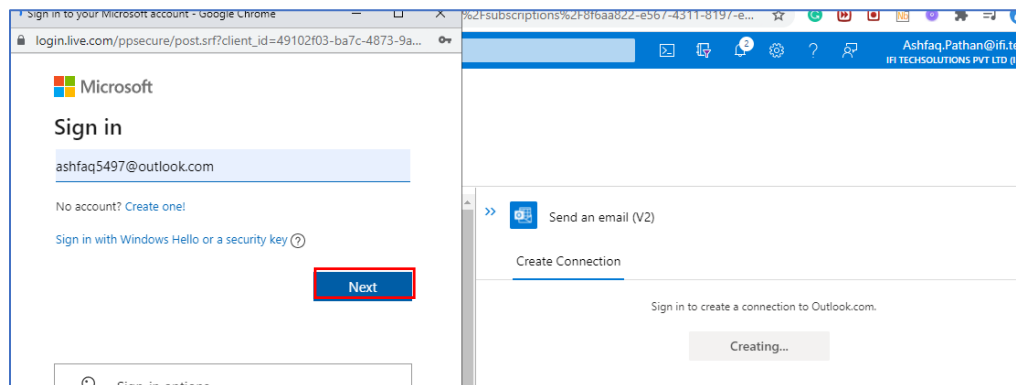
Step 27 Add a new action **outlook.com** for email we need to add 'send an email (v2)'



27.1 Click on outlook action it will ask for **sign in** with your outlook email.

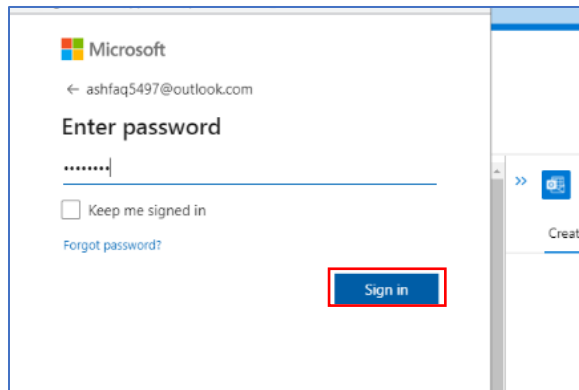


27.2 A new window will appear add login detail email click on **Next** button.

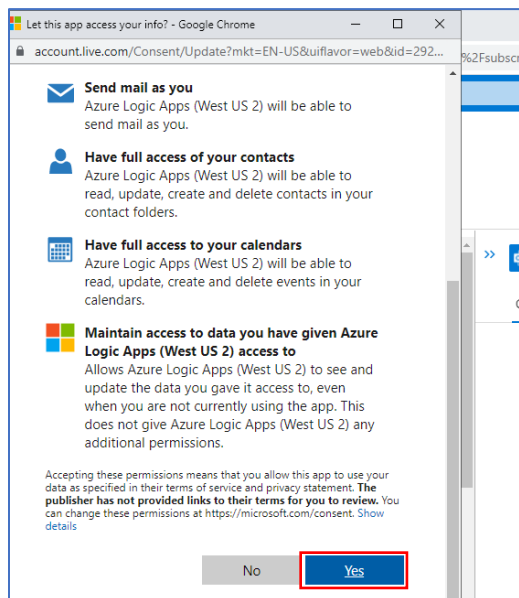


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27.3 Add password and click on sign in button.



27.4 Click on **yes** button.



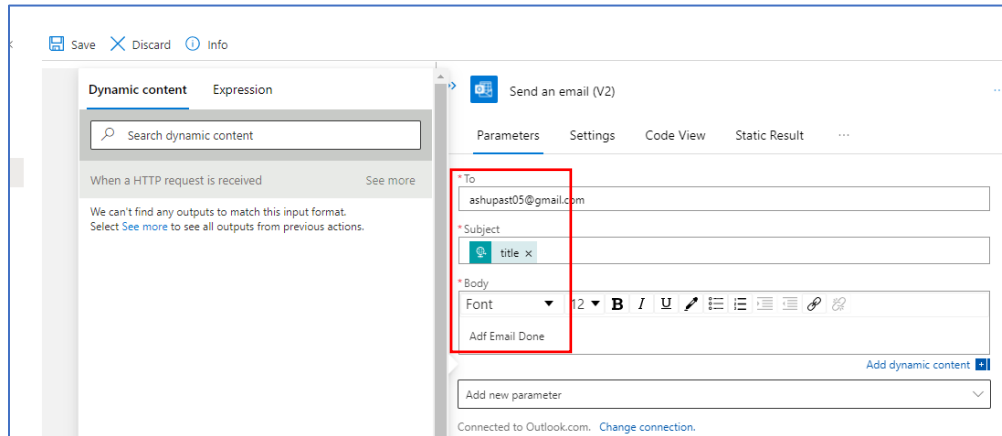
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Step 28 Add email details in parameters

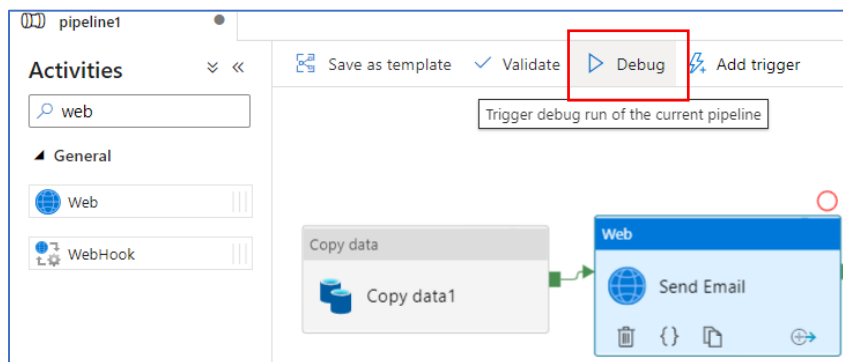
To* [put any valid email]

Subject* [Title] Note (we have created a title value in Jason so we can take that as a value in the subject text area)

Body* email body



Step 29 Open ADF Pipeline1 and click on Debug button



Step 30 As the pipeline complete you will get an email.

