

# Iteration and conditionals

## If conditional

Comenzaremos creando un Pipeline y agregaremos 4 **variables** a nivel de Pipeline

The screenshot shows the Microsoft Azure Data Factory portal interface. On the left, the 'Factory Resources' pane shows a pipeline named '4-If Conditional' selected. The 'Activities' pane on the right shows a list of activities, with '4-If Conditional' highlighted. The main canvas displays the 'Variables' tab for the selected pipeline. A red asterisk is visible in the center of the canvas. The 'Variables' tab contains a table with the following data:

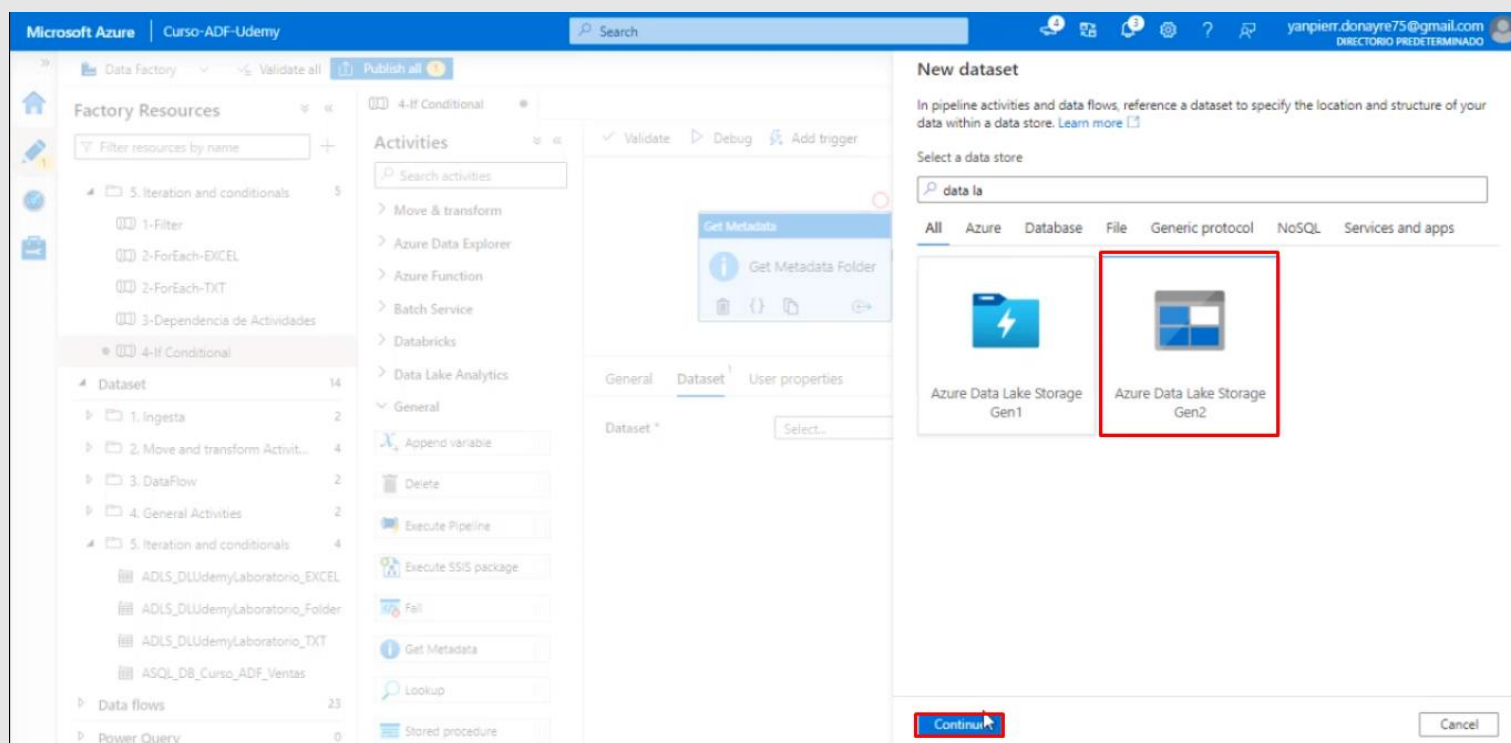
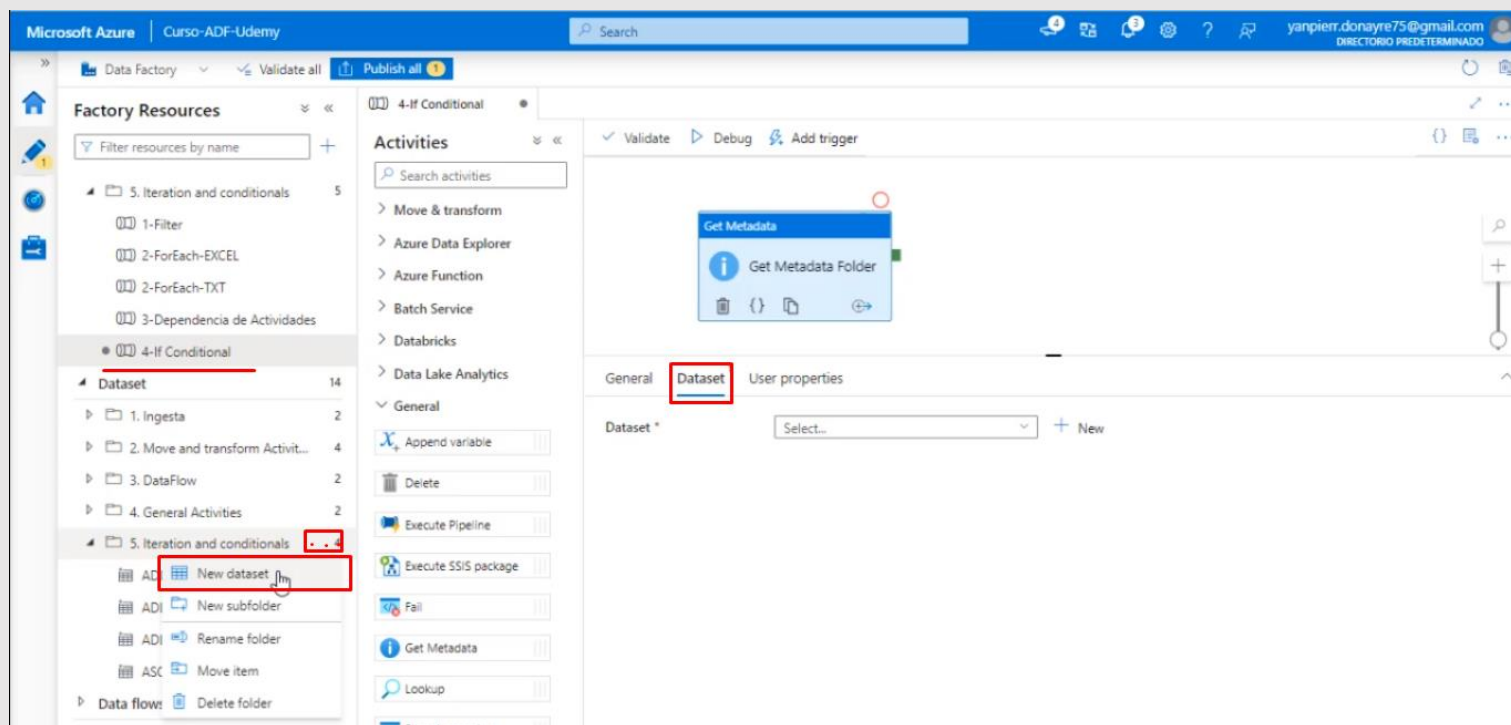
Name	Type	Default value
boolArchivo	Boolean	Value
CarpetaOrigen1	String	Origen1
CarpetaOrigen2	String	Origen2
FileExcel	String	Ventas.xlsx

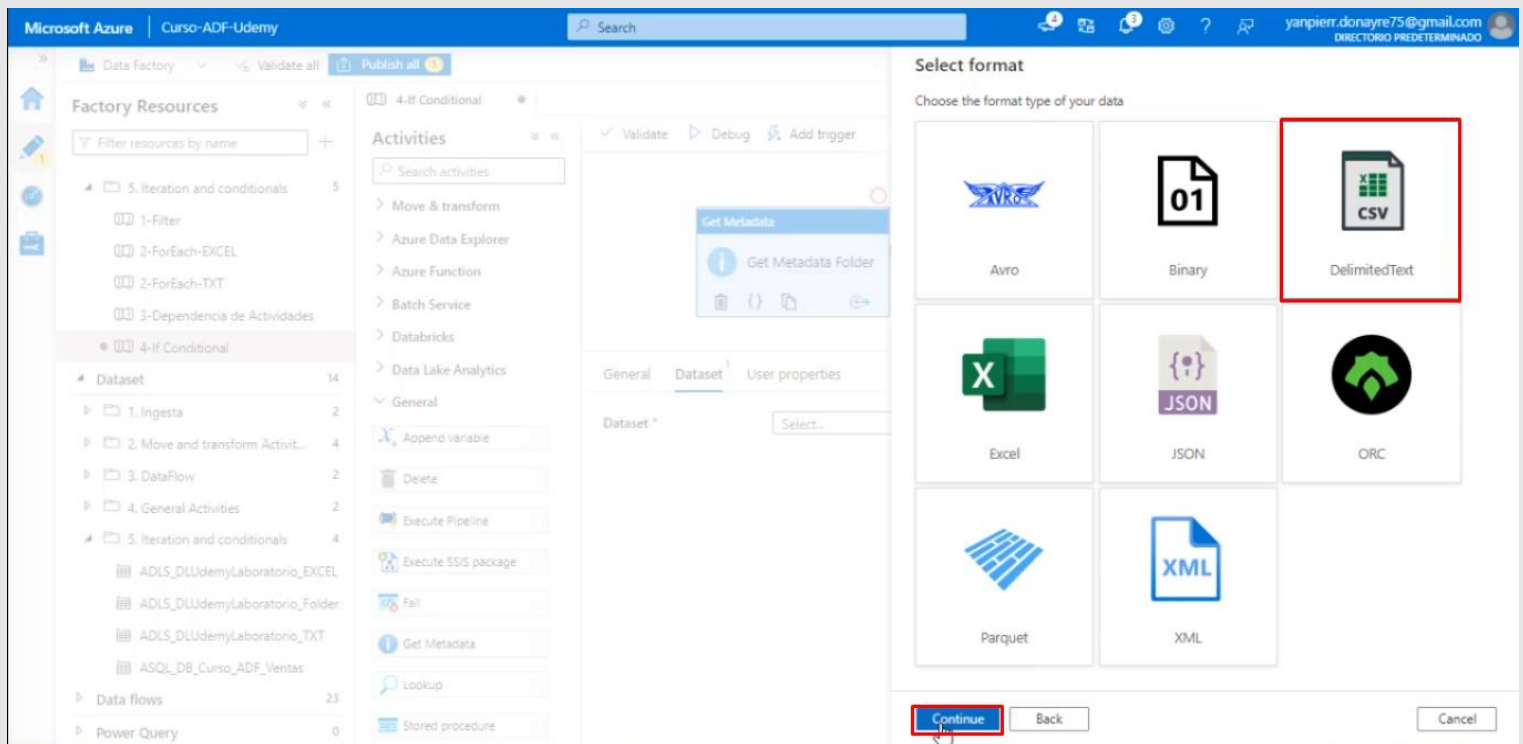
Agregaremos una actividad **Get Metadata**

The screenshot shows the Microsoft Azure Data Factory portal interface. On the left, the 'Factory Resources' pane shows a pipeline named '4-If Conditional' selected. The 'Activities' pane on the right shows a list of activities, with '4-If Conditional' highlighted. The main canvas displays the 'Get Metadata' activity added to the pipeline. The 'General' tab is selected, showing the following details:

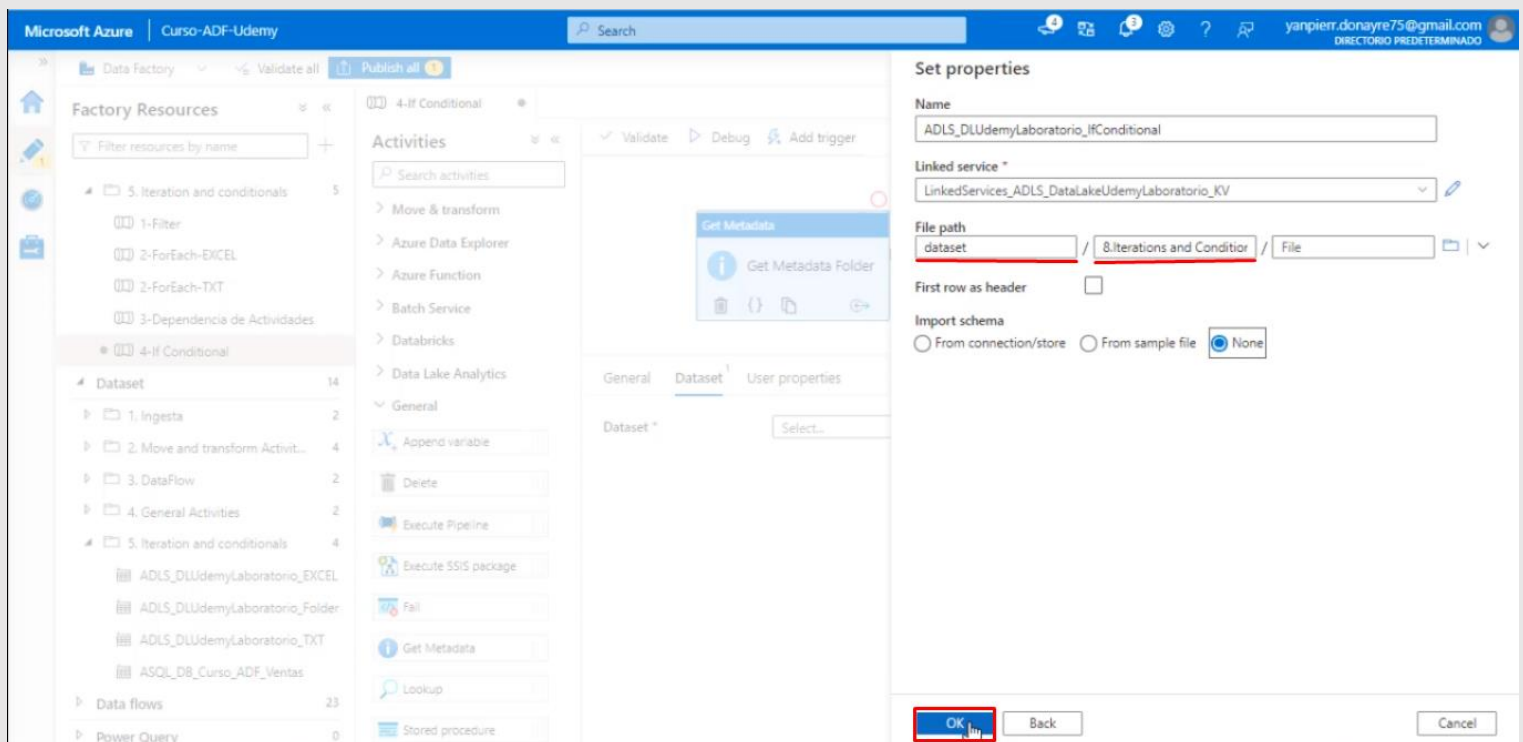
- Name: Get Metadata Folder
- Description: (empty)
- Timeout: 7.00:00:00
- Retry: 0

Crearemos un nuevo dataset





El **File path** apuntará al directorio **.../8.Iterations and Conditionals/3.If Conditional** (dentro de ella existen 3 carpetas: Destino (vacía), Origen1 (vacía) y Origen2 (contiene el archivo Ventas.xlsx), por tanto, **no se activará First row as header** y **no importaremos un schema**, dado que, eso lo podríamos hacer cuando se apunta a un archivo.



A nivel de este dataset creamos 2 parámetros

The screenshot shows the Microsoft Azure Data Factory interface. On the left, the 'Factory Resources' pane is visible, with the 'Dataset' section expanded. The dataset 'ADLS\_DLUdemyLaboratorio\_IFCo...' is selected. The main pane displays the 'Parameters' tab for this dataset. A red box highlights the '+ New' button. Below it, a table lists the parameters to be created:

Name	Type	Default value
FileExcel	String	Value
CarpetaOrigen	String	Value

The screenshot shows the Microsoft Azure Data Factory interface, focusing on the 'Connection' tab for the dataset 'ADLS\_DLUdemyLaboratorio\_IFCo...'. The 'File path' field is highlighted with a red box and contains the text 'dataset / Iterations and Condit / File'. A tooltip 'Add dynamic content (Alt+Shift+D)' is visible over the 'Iterations and Condit' part of the path. Other fields include 'Linked service' (set to 'LinkedServices\_ADLS\_DataLakeUde...'), 'Compression type' (set to 'None'), 'Column delimiter' (set to 'Comma (,)'), 'Row delimiter' (set to 'Default (\r\n or \n\r)'), and 'Encoding' (set to 'Default(UTF-8)').

@concat('8.Iterations and Conditionals/3.If Conditional',dataset().CarpetaOrigen)

This screenshot shows the Microsoft Azure Data Factory portal interface. On the left, the 'Factory Resources' pane is visible, with 'Dataset' expanded and 'ADLS\_DLUdemyLaboratorio\_IfCo...' selected. The main workspace displays the '4-If Conditional' activity, with the 'Connection' tab active. The 'File path' field is set to 'dataset', and the 'Add dynamic content' button is highlighted. A dialog box titled 'Add dynamic content' is open on the right, showing the expression '@concat('8.Iterations and Conditionals/3.If Conditional/', dataset().CarpetaOrigen)'. The 'OK' button is highlighted with a red box.

This screenshot shows the Microsoft Azure Data Factory portal interface, focusing on the 'Connection' tab for the '4-If Conditional' activity. The 'File path' field is set to 'dataset', and the 'Add dynamic content' button is highlighted. The 'Add dynamic content' dialog box is open, showing the expression '@concat('8.Iterations and Conditionals/3.If Conditional/', dataset().CarpetaOrigen)'. The 'OK' button is highlighted with a red box.

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Data Factory | Validate all | Publish all

### Factory Resources

Filter resources by name

- 5. Iteration and conditionals
  - 1-Filter
  - 2-ForEach-EXCEL
  - 2-ForEach-TXT
  - 3-Dependencia de Actividades
  - 4-If Conditional
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  - 3. DataFlow
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4-If Conditional | ADLS\_DLUdemyLab...

DelimitedText  
ADLS\_DLUdemyLaboratorio\_IfConditional

Connection | Schema | Parameters

Linked service \* | LinkedServices\_ADLS\_DataLakeUde... | Test co

File path \* | dataset | @concat(8.Iterations and Con

Compression type | None

Column delimiter | Comma (,) | Edit

Row delimiter | Default (\r\n, or \n\r) | Edit

Encoding | Default(UTF-8)

Escape character | Backslash (\)

### Add dynamic content

@dataset().FileExcel

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:

Filter system variables and functions...

Functions

Parameters

- CarpetaOrigen
- FileExcel

OK | Cancel

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4-If Conditional | ADLS\_DLUdemyLab...

DelimitedText  
ADLS\_DLUdemyLaboratorio\_IfConditional

Connection | Schema | Parameters

Linked service \* | LinkedServices\_ADLS\_DataLakeUde... | Test connection | Edit | New | Learn more

File path \* | dataset | @concat(8.Iterations and Conditional... | @dataset().FileExcel | Browse | Preview data

Compression type | None

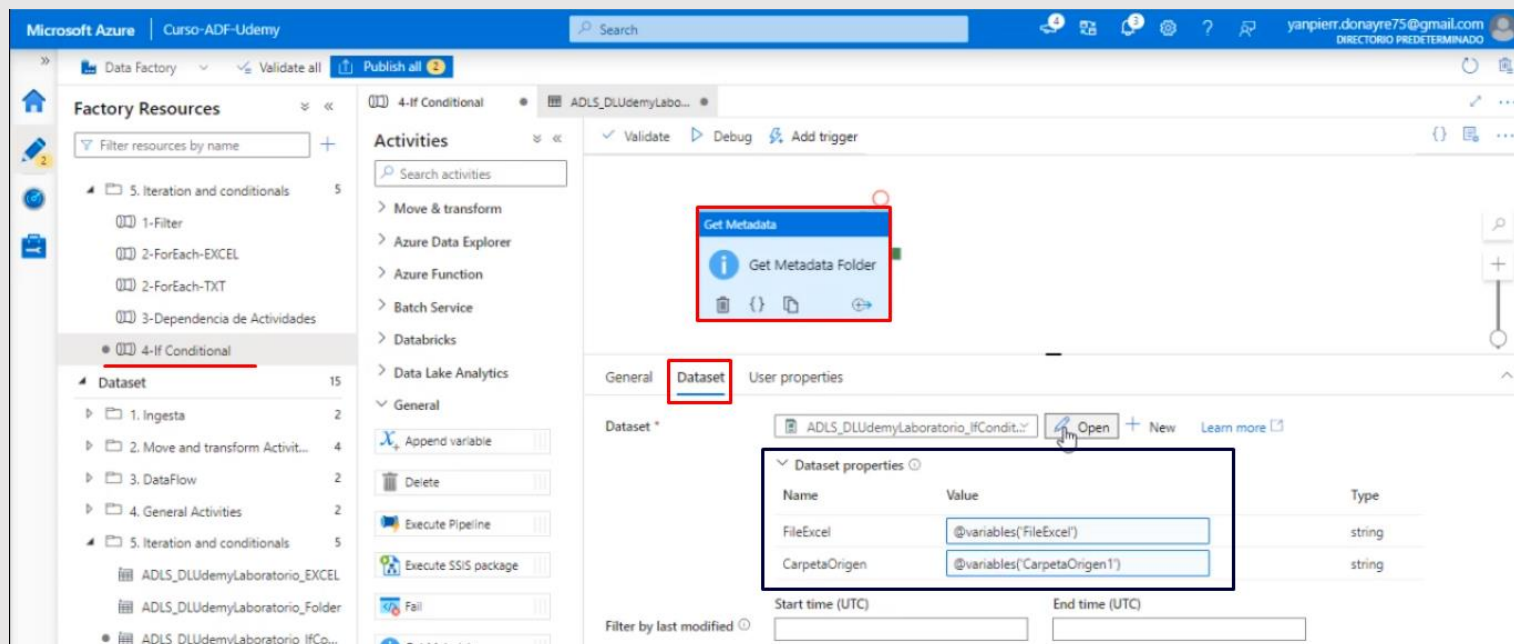
Column delimiter | Comma (,) | Edit

Row delimiter | Default (\r\n, or \n\r) | Edit

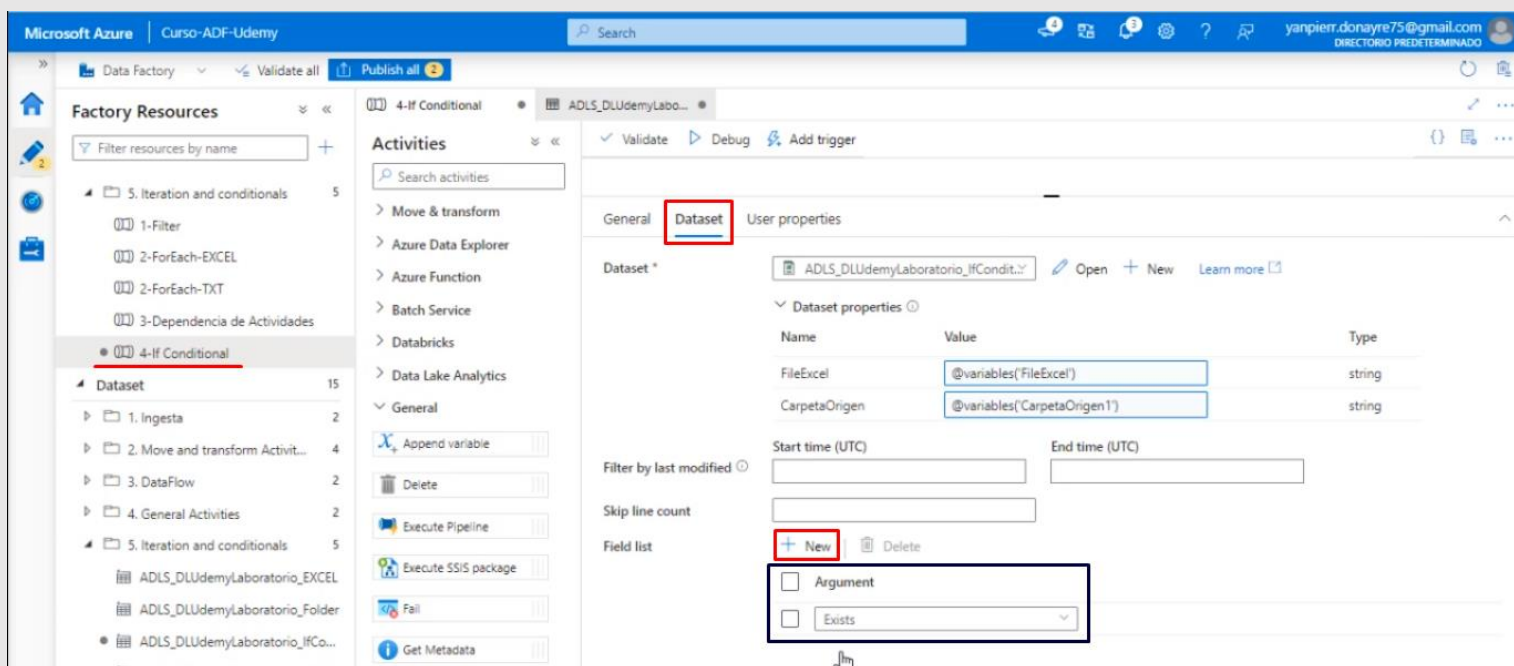
Encoding | Default(UTF-8)

Escape character | Backslash (\)

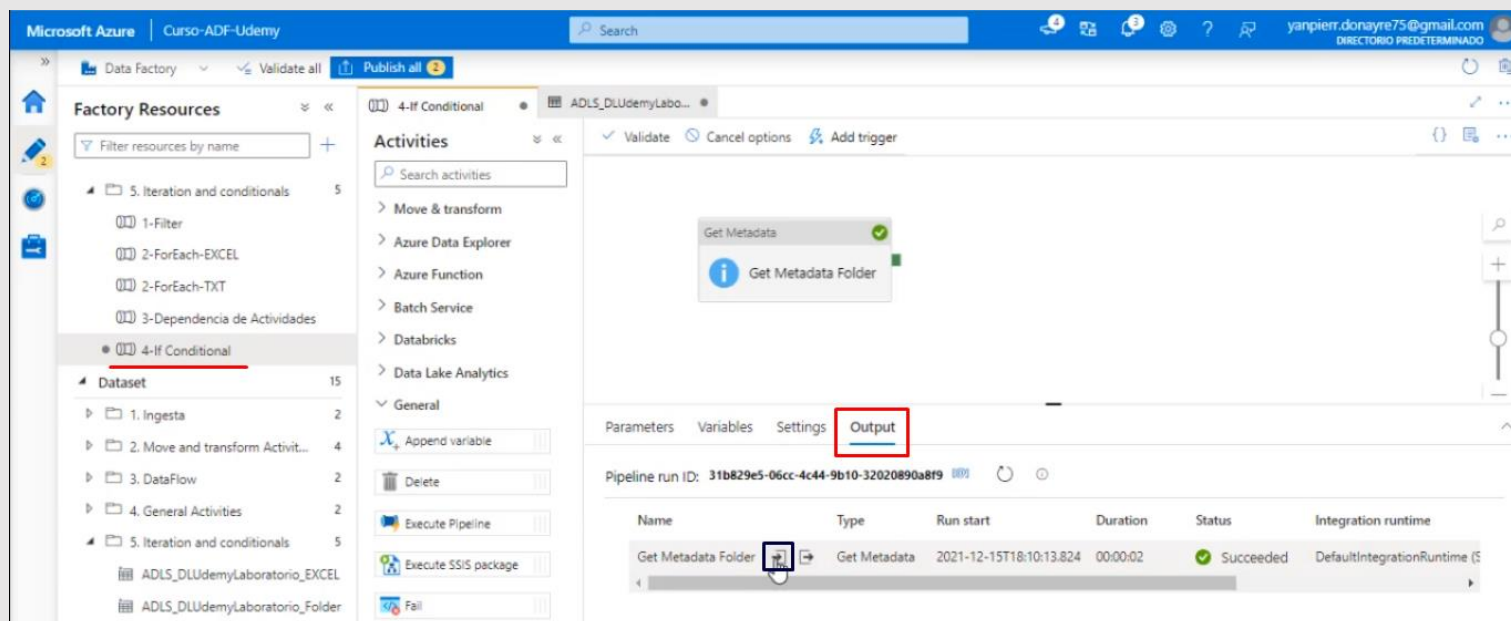




Para validar si existe un archivo en el directorio **8.Iterations and Conditionals/3.If Conditional/CarpetaOrigen1**. El parámetro a nivel de este dataset **CarpetaOrigen** apunta a dicho directorio.



Vamos a **Validar** y luego ejecutar este Pipeline utilizando **Debug**



The screenshot shows the Microsoft Azure Data Factory portal. On the left, the 'Factory Resources' pane shows the '4-If Conditional' pipeline selected. The main area displays the 'Activities' pane with 'Get Metadata' selected. The 'Output' tab is active, showing a table of pipeline runs. The first run, 'Get Metadata Folder', is highlighted, showing it succeeded.

Name	Type	Run start	Duration	Status	Integration runtime
Get Metadata Folder	Get Metadata	2021-12-15T18:10:13.824	00:00:02	Succeeded	DefaultIntegrationRuntime (S


Veamos que nos arroja el **Input**

```
Input
{
  "dataset": {
    "referenceName":
"ADLS_DLUdemyLaboratorio_IfConditional",
    "type": "DatasetReference",
    "parameters": {
      "FileExcel": "Ventas.xlsx",
      "CarpetaOrigen": "Origen1"
    }
  },
  "fieldList": [
    "exists"
  ]
}
```

```
Input
{
  "fieldList": [
    "exists"
  ],
  "storeSettings": {
    "type": "AzureBlobFSReadSettings",
    "enablePartitionDiscovery": false
  },
  "formatSettings": {
    "type": "DelimitedTextReadSettings"
  }
}
```



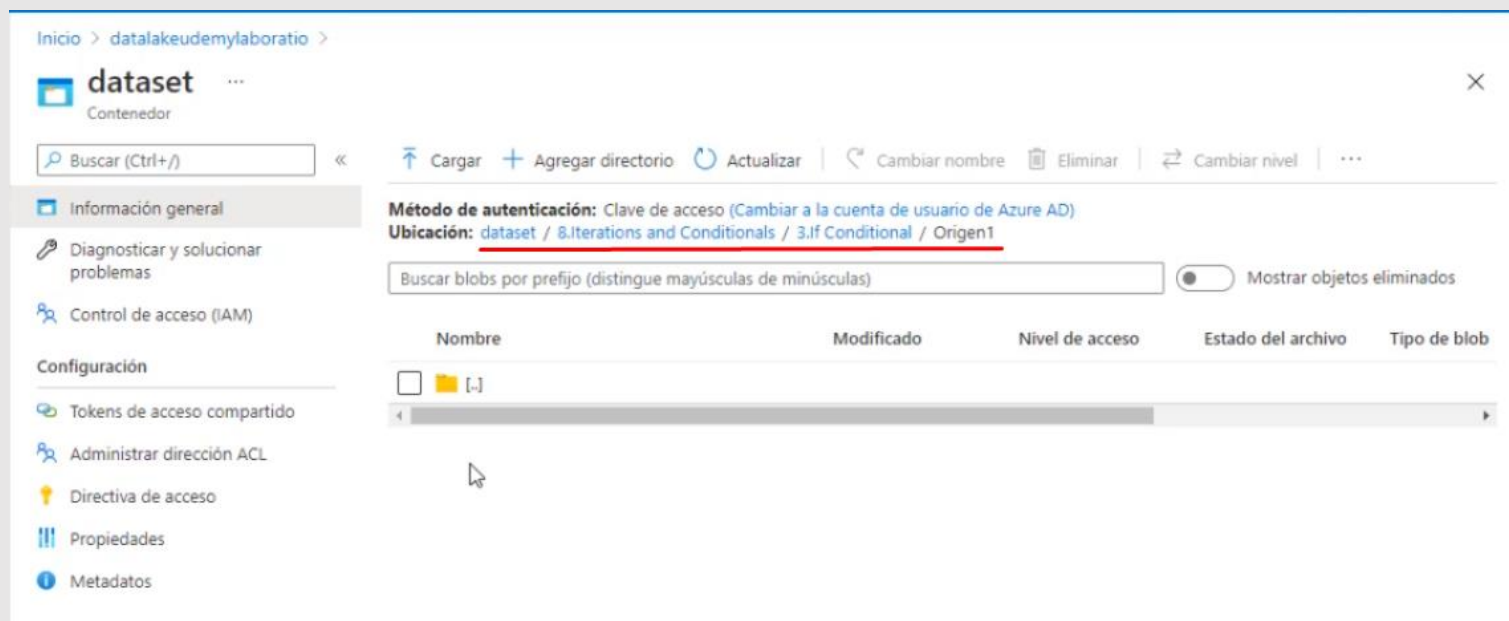
Y veamos que nos arroja el **Output**



```
{
  "exists": false,
  "effectiveIntegrationRuntime": "DefaultIntegrationRuntime (South Central US)",
  "executionDuration": 0,
  "durationInQueue": {
    "integrationRuntimeQueue": 0
  },
  "billingReference": {
    "activityType": "PipelineActivity",
    "billableDuration": {

```

Nos devuelve **false** dado que en el directorio **.../Origen1** no existe ningún archivo



Agregaremos al Pipeline la actividad de **Set variable**

This screenshot shows the Microsoft Azure Data Factory portal interface. On the left, the 'Factory Resources' pane is visible, with the '4-If Conditional' activity selected under the 'Dataset' section. The main workspace displays a pipeline diagram with two activities: 'Get Metadata' (labeled 'Get Metadata Folder') and 'Set variable'. The 'Set variable' activity is highlighted with a red box. Below the diagram, the 'General' tab is selected, showing the 'Name' field set to 'Set variable' and an empty 'Description' field. The 'Variables' tab is also visible, showing a list of variables.

This screenshot shows the same Microsoft Azure Data Factory portal interface, but with the 'Set variable' activity configuration expanded. The 'Variables' tab is selected, showing the 'Name' field set to 'boolArchivo' and the 'Value' field set to an empty text box. A red box highlights the 'Variables' tab. Below the 'Value' field, there is a link that says 'Add dynamic content (Alt+Shift+D)'.

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Search activities

- Databricks
- Data Lake Analytics
- General
  - Append variable
  - Delete
  - Execute Pipeline
  - Execute SSIS package
  - Fail
  - Get Metadata
  - Lookup
  - Stored procedure
  - Set variable
  - Validation
  - Web

4-If Conditional

ADLS\_DLUdemyLabo...

Validate Debug Add trigger

Get Metadata

Get Metadata Folder

General Variables User properties

Name \*

Value \*

Add dynamic content

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.

Filter system variables and functions...

Variables

- CarpetaOrigen1
- CarpetaOrigen2
- FileExcel
- boolArchivo

Activity outputs

- Get Metadata Folder

OK Cancel

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Factory Resources

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  - Fail
  - Get Metadata
  - Lookup
  - Stored procedure
  - Set variable
  - Validation
  - Web

4-If Conditional

ADLS\_DLUdemyLabo...

Validate Debug Add trigger

Trigger debug run of the current pipeline

Get Metadata

Get Metadata Folder

Set variable

(X) Set variable

General Variables User properties

Name \*

Value

@activity('Get Metadata Folder').outp...

Vamos a **Validar** y luego ejecutar este Pipeline utilizando **Debug**

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Factory Resources

Filter resources by name

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  - Stored procedure
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  - Validation
  - Web

4-If Conditional

ADLS\_DLUdemyLabo...

Validate Debug Add trigger

Get Metadata

Get Metadata Folder

Set variable

(X) Set variable

Parameters Variables Settings Output

Pipeline run ID: c41bc9a4-95df-4647-ad8a-ff6d80967874

View debug run consumption

Name	Type	Run start	Duration	Status	Integration runtime
Set variable	Set variable	2021-12-15T18:12:00.050	00:00:01	Succeeded	
Get Metadata Folder	Get Metadata	2021-12-15T18:11:57.076	00:00:02	Succeeded	DefaultIntegrationRuntime (S

Veamos que nos arroja el **Input** y **Output**

### Input

```
{  "variableName": "boolArchivo",  "value": false}
```

### Output

```
{  "name": "boolArchivo",  "value": false}
```

Agregaremos una actividad **If Conditional**

The screenshot displays the Microsoft Azure Data Factory portal interface. On the left, the 'Factory Resources' pane shows a tree view with '5. Iteration and conditionals' expanded, and '4-If Conditional' selected. The 'Activities' pane on the right lists various activities, with 'If Condition' highlighted. The main canvas shows a workflow with three activities: 'Get Metadata Folder', 'Set variable', and 'If Condition'. The 'If Condition' activity is highlighted with a red box. Below the canvas, the 'General' tab is active, showing the 'Name' field set to 'If Condition' and the 'Description' field empty. The 'Activities (0)' tab is also visible.

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Activities

Search activities

- Validation
- Web
- WebHook
- Wait
- HDInsight
- Iteration & conditionals
  - Filter
  - ForEach
  - If Condition
  - Switch
  - Until
- Machine Learning

4-If Conditional

Validate Debug Add trigger

Get Metadata

Get Metadata Folder

Set variable

(x) Set variable

If Condition

True

No activities

False

No activities

General Activities (0) User properties

Expression \*

This property should be parameterized.

Add dynamic content (Alt+Shift+D)

Case Activity

True No activities

False No activities

Si el valor entregado por la variable **boolArchivo** es **False** realizará una actividad determinada, pero si es **True** hará otra tarea determinada.

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Activities

Search activities

- Validation
- Web
- WebHook
- Wait
- HDInsight
- Iteration & conditionals
  - Filter
  - ForEach
  - If Condition
  - Switch
  - Until
- Machine Learning

4-If Conditional

Validate Debug Add trigger

Get Metadata

Get Metadata Folder

Set variable

(x) Set variable

If Condition

True

No activities

False

No activities

General Activities (0) User properties

Expression

@variables('boolArchivo')

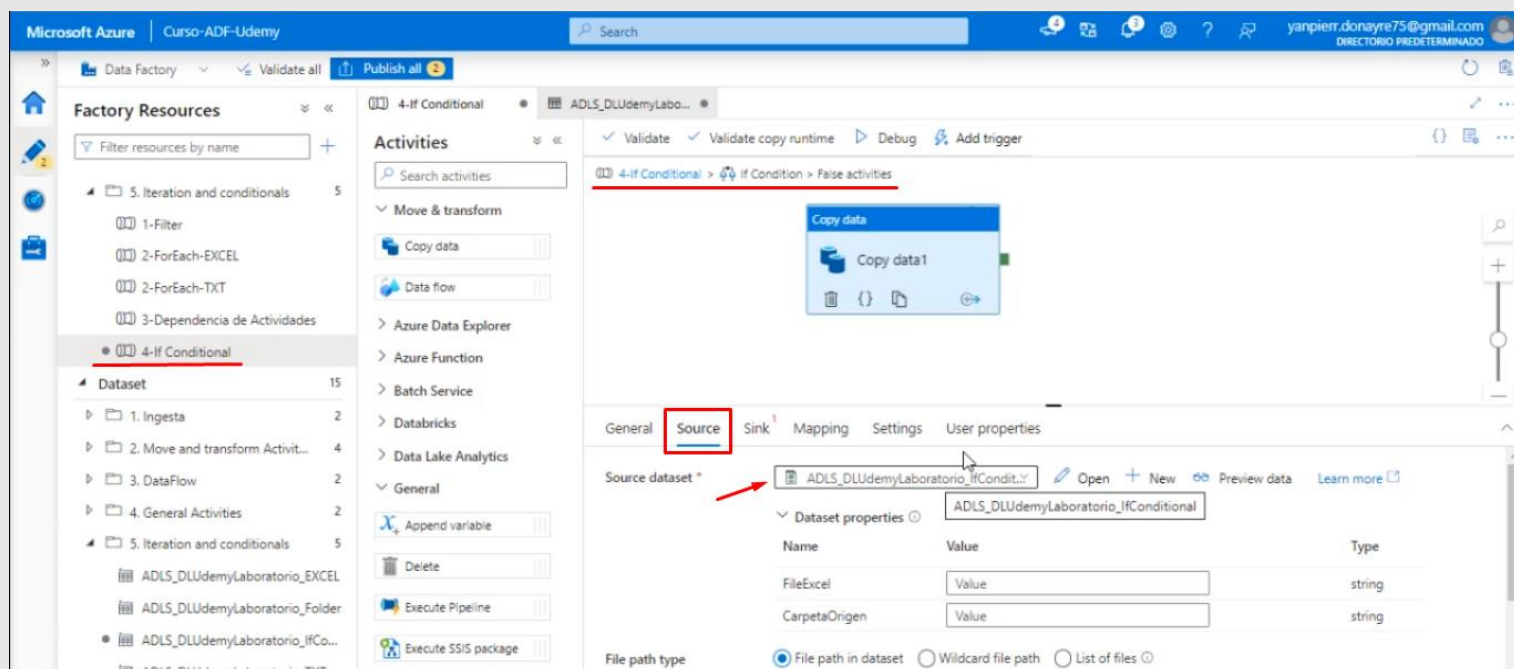
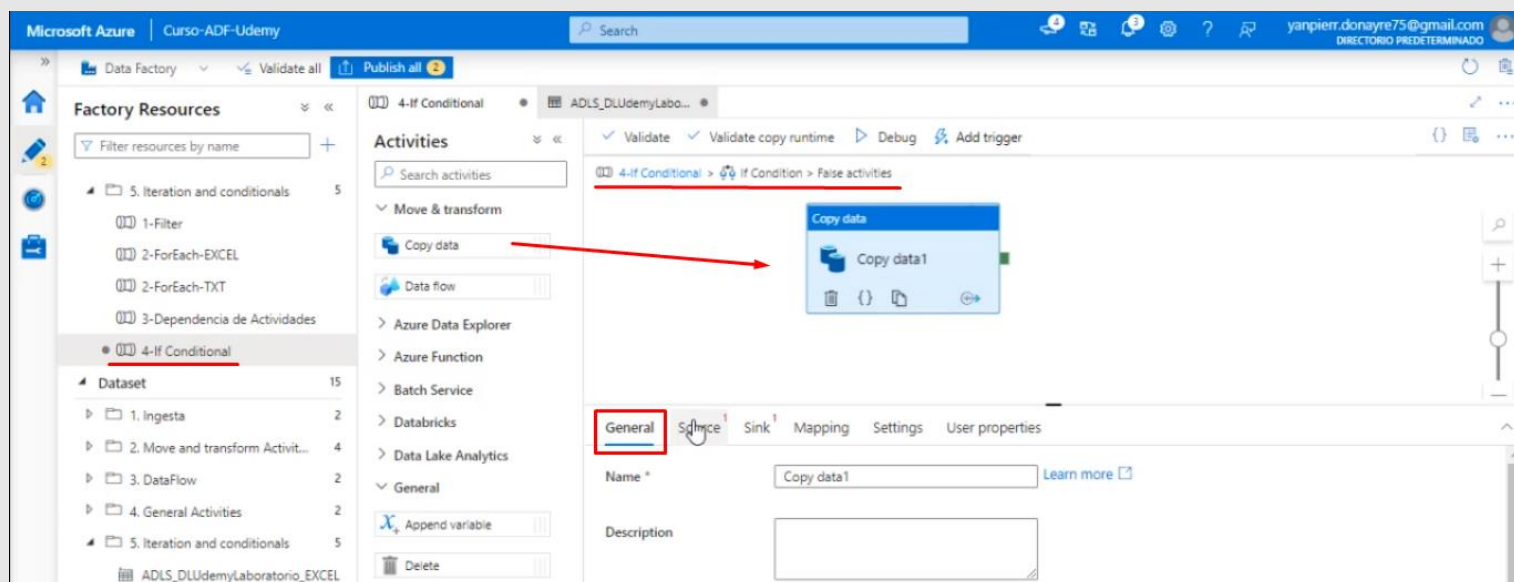
Case Activity

True No activities

False No activities



Vamos a configurar la tarea en el caso de que la variable **boolArchivo** sea **False**



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- Search activities
- Move & transform
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- Data flow
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- Data Lake Analytics
- General
- Append variable
- Delete
- Execute Pipeline
- Execute SSIS package

4-If Conditional

ADLS\_DLUdemyLabo...

Copy data

Copy data1

General Source Sink Mapping Settings User properties

Source dataset \*

ADLS\_DLUdemyLaboratorio\_IfCondit...

Open + New Preview data Learn more

Dataset properties

Name	Value	Type
FileExcel	@variables('FileExcel')	string
CarpetaOrigen	@variables('CarpetaOrigen2')	string

File path type

File path in dataset Wildcard file path List of files

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- Delete
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- Execute SSIS package
- Fail

4-If Conditional

ADLS\_DLUdemyLabo...

Copy data

Copy data1

General Source Sink Mapping Settings User properties

Sink dataset \*

Select... + New

New dataset

New subfolder

Rename folder

Move item

Delete folder

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Data Factory | Validate all | Publish all

Factory Resources

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- Fail
- Get Metadata

4-If Conditional

ADLS\_DLIdemLabo...

Copy data

Copy

General Source Sink Mapping Set

Sink dataset \*

Select...

New dataset

In pipeline activities and data flows, reference a dataset to specify the location and structure of your data within a data store. [Learn more](#)

Select a data store

data lake

All Azure Database File Generic protocol NoSQL Services and apps

Azure Data Lake Storage Gen1

Azure Data Lake Storage Gen2

Continue

Cancel

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Data Factory | Validate all | Publish all

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- Fail
- Get Metadata

4-If Conditional

ADLS\_DLIdemLabo...

Copy data

Copy

General Source Sink Mapping Set

Sink dataset \*

Select...

Select format

Choose the format type of your data

Avro

Binary

DelimitedText

Excel

JSON

ORC

Parquet

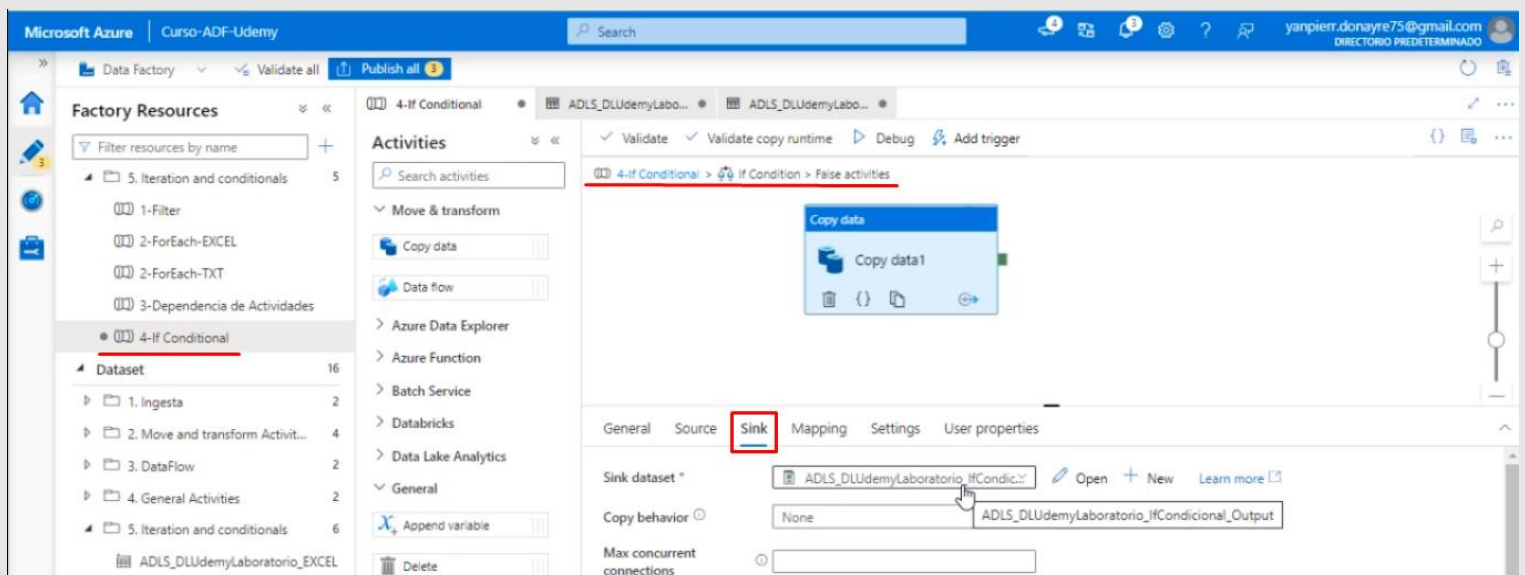
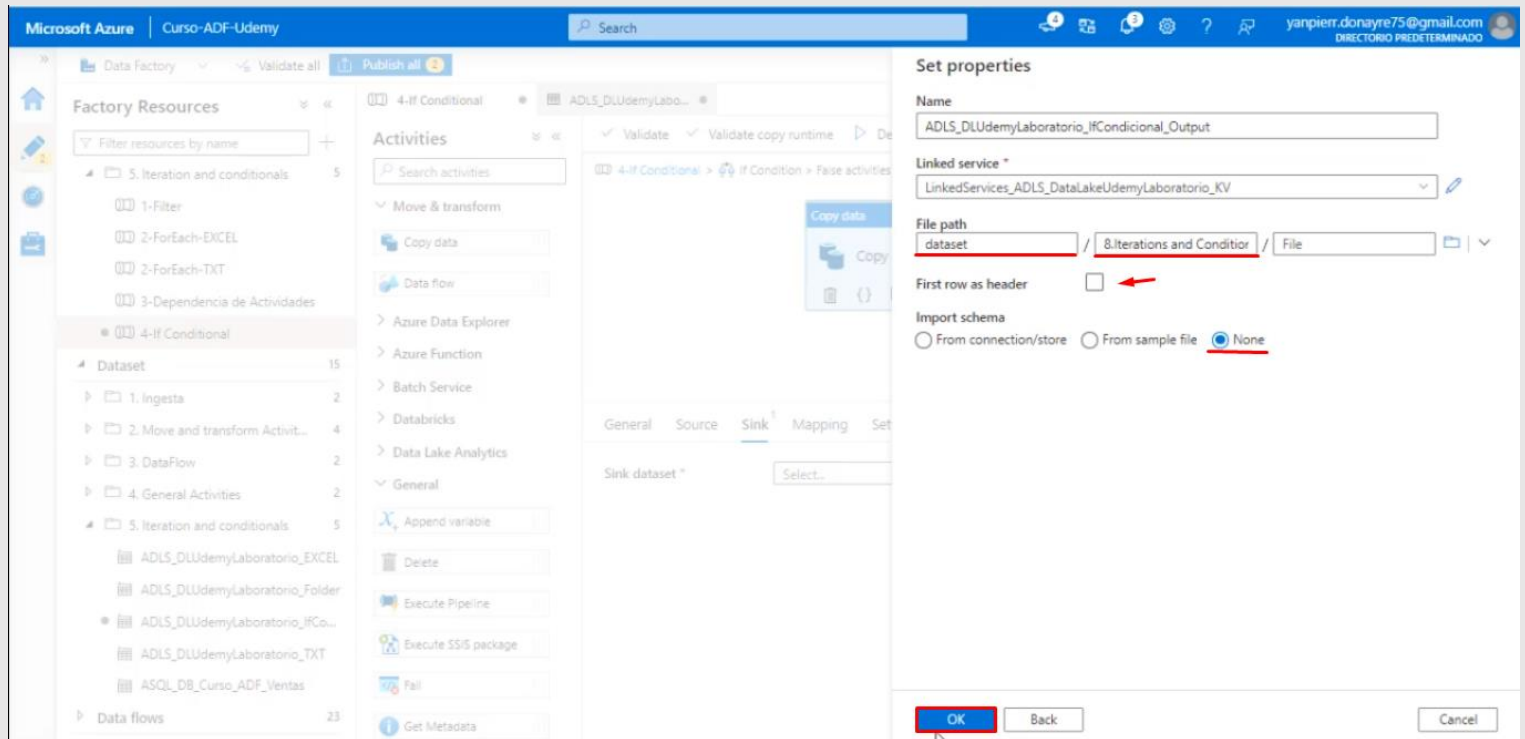
XML

Continue

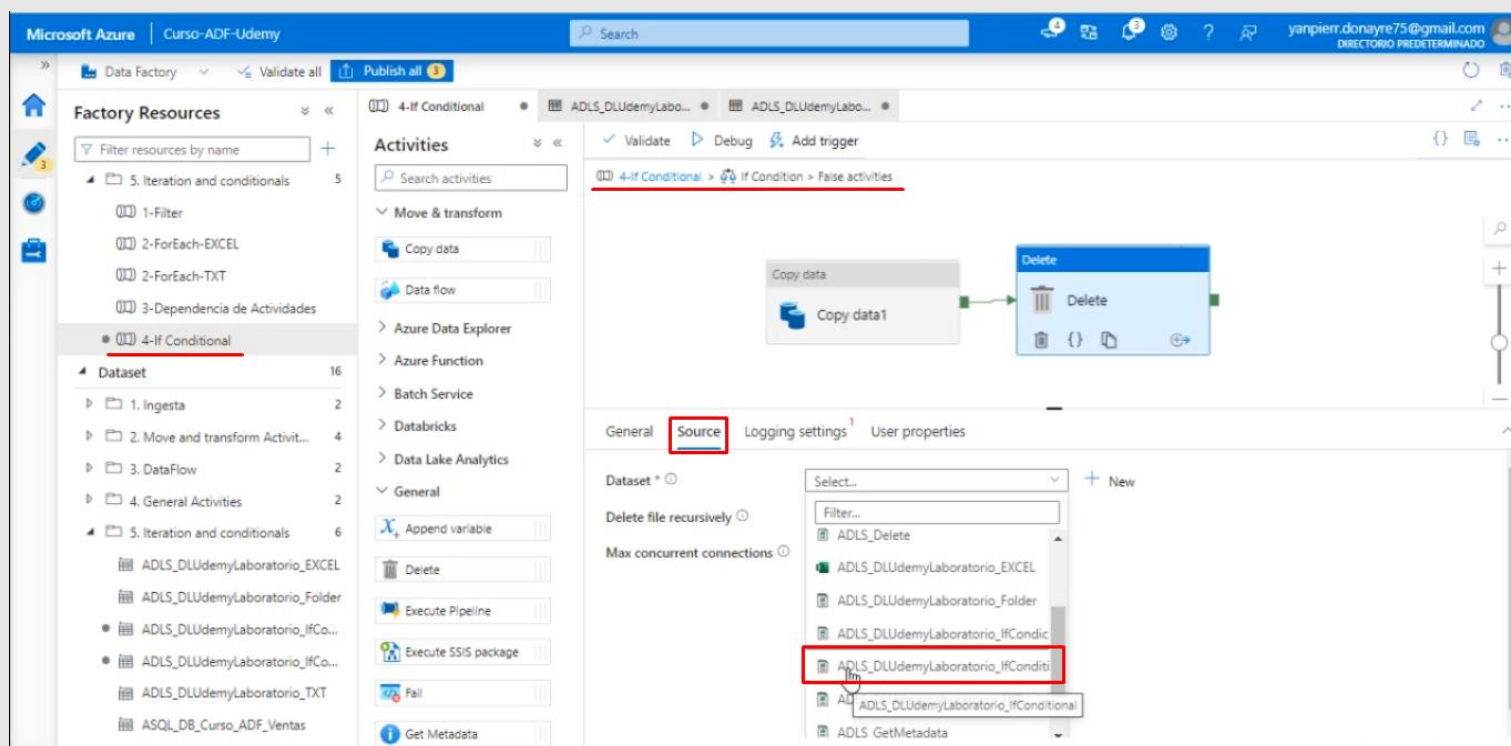
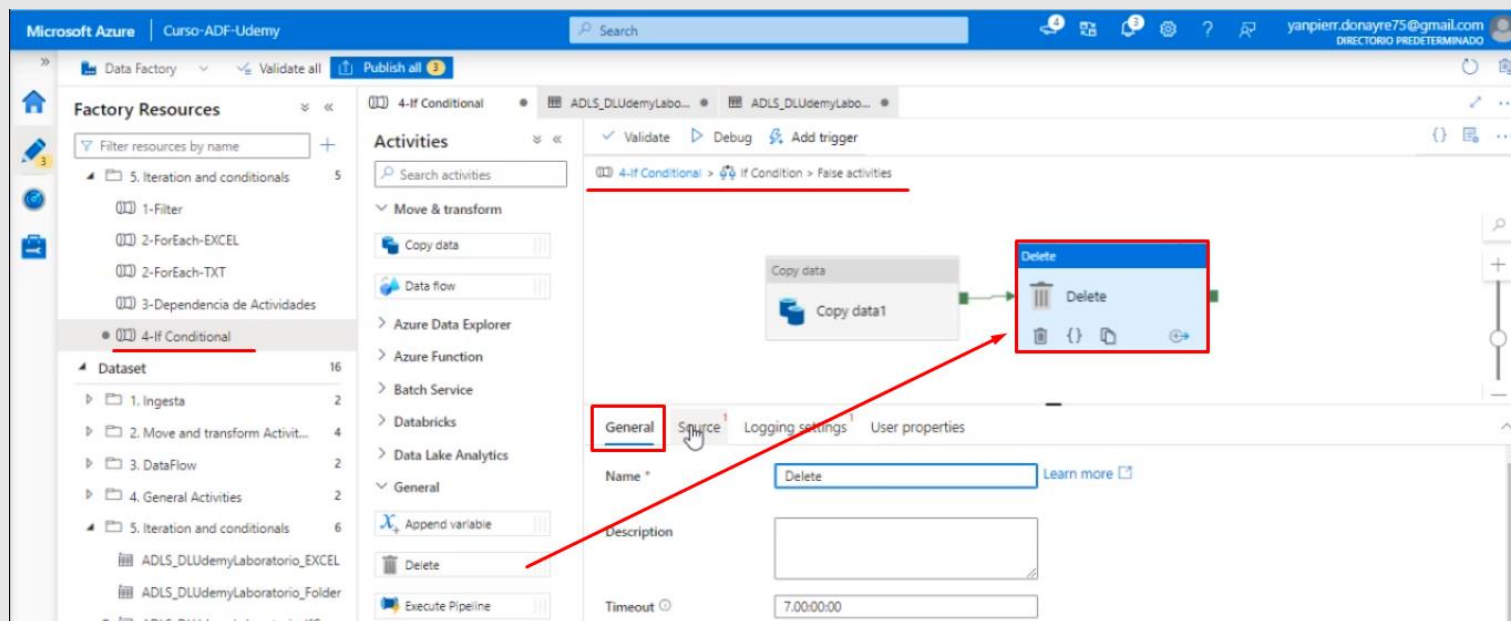
Back

Cancel

El **File path** apuntará al directorio **.../8.Iterations and Conditionals/3.If Conditional/Destino** (este directorio está vacío), por tanto, **no se activará First row as header** y **no importaremos un schema**, dado que, eso lo podríamos hacer cuando se apunta a un archivo.



Vamos a agregar la actividad de **Delete** para que después de copiar el archivo al directorio de destino, lo elimine del directorio de origen





The screenshot shows the Microsoft Azure Data Factory portal interface. On the left, the 'Factory Resources' pane is visible, showing a hierarchy of resources including '4-If Conditional'. The main workspace displays the configuration for an activity named 'Copy data1' (labeled 'Copy data'). The 'Source' tab is selected, showing the 'Dataset \*' dropdown set to 'ADLS\_DLUdemyLaboratorio\_IfCondit...'. Below this, the 'Dataset properties' table is visible:

Name	Value	Type
FileExcel	@variables('FileExcel')	string
CarpetaOrigen	@variables('CarpetaOrigen2')	string

The 'File path type' section at the bottom shows 'File path in dataset' selected.

Desactivamos el Logging

The screenshot shows the Microsoft Azure Data Factory portal interface. The 'Logging settings' tab is selected for the 'Copy data1' activity. The 'Enable logging' checkbox is unchecked, and a red box highlights this checkbox. A blue arrow points to the checkbox with the text 'Add dynamic content (Alt+Shift+D)'.

Vamos a configurar la tarea en el caso de que la variable **boolArchivo** sea **True**

The screenshot shows the Microsoft Azure Data Factory portal interface. The main workspace displays the configuration for an 'If Condition' activity. The activity is named 'If Condition' and has two branches: 'True' (No activities) and 'False' (2 activities). The 'True' branch is highlighted with a red box. The 'False' branch contains two activities: 'Get Metadata Folder' and 'Set variable'.

Copiamos las actividades que realizamos para False y las pegamos dentro de la configuración de True.

The screenshot shows the Microsoft Azure Data Factory portal interface. On the left, the 'Factory Resources' pane is open, showing a tree view of datasets. The '4-If Conditional' dataset is selected. The main canvas displays a workflow with a 'Copy data' activity named 'Copy data1\_copy1' and a 'Delete' activity named 'Delete\_copy1'. The 'Copy data' activity is highlighted with a red box. Below the canvas, the 'Source' tab is selected, showing the 'Source dataset' as 'ADLS\_DLUDemyLaboratorio\_IfCondi...' and a table of dataset properties.

Name	Value	Type
FileExcel	@variables('FileExcel')	string
CarpetaOrigen	@variables('CarpetaOrigen1')	string

The screenshot shows the Microsoft Azure Data Factory portal interface, similar to the previous one, but with the 'Sink' tab selected. The 'Copy data' activity is still highlighted with a red box. The 'Sink dataset' is set to 'ADLS\_DLUDemyLaboratorio\_IfCondi...', and the 'Copy behavior' is set to 'None'. The 'Max concurrent connections' is set to 1.

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Factory Resources

- 5. Iteration and conditionals
- 1-Filter
- 2-ForEach-EXCEL
- 2-ForEach-TXT
- 3-Dependencia de Actividades
- 4-If Conditional

Dataset

- 1. Ingesta
- 2. Move and transform Activit...
- 3. DataFlow
- 4. General Activities
- 5. Iteration and conditionals
- ADLS\_DLUDemyLaboratorio\_EXCEL
- ADLS\_DLUDemyLaboratorio\_Folder
- ADLS\_DLUDemyLaboratorio\_IFCo...
- ADLS\_DLUDemyLaboratorio\_IFCo...

Activities

- Move & transform
- Copy data
- Data flow
- Azure Data Explorer
- Azure Function
- Batch Service
- Databricks
- Data Lake Analytics
- General
- Append variable
- Delete
- Execute Pipeline
- Execute SSIS package

4-If Conditional

Validate

Debug

Add trigger

4-If Conditional > If Condition > True activities

Copy data

Copy data1\_copy1

Delete

Delete\_copy1

General

Source

Logging settings

User properties

Dataset \* 0

ADLS\_DLUDemyLaboratorio\_IFCondi...

Open

New

Preview data

Learn more

Dataset properties

Name	Value	Type
FileExcel	@variables('FileExcel')	string
CarpetaOrigen	@variables('CarpetaOrigen1')	string

File path type

File path in dataset

Wildcard file path

List of files

Vamos a **Validar** y luego ejecutar este Pipeline utilizando **Debug**

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Factory Resources

- 5. Iteration and conditionals
- 1-Filter
- 2-ForEach-EXCEL
- 2-ForEach-TXT
- 3-Dependencia de Actividades
- 4-If Conditional

Dataset

- 1. Ingesta
- 2. Move and transform Activit...
- 3. DataFlow
- 4. General Activities
- 5. Iteration and conditionals
- ADLS\_DLUDemyLaboratorio\_EXCEL
- ADLS\_DLUDemyLaboratorio\_Folder
- ADLS\_DLUDemyLaboratorio\_IFCo...
- ADLS\_DLUDemyLaboratorio\_IFCo...
- ADLS\_DLUDemyLaboratorio\_TXT
- ASQL\_DB\_Curso\_ADF\_Ventas

Activities

- Move & transform
- Copy data
- Data flow
- Azure Data Explorer
- Azure Function
- Batch Service
- Databricks
- Data Lake Analytics
- General
- Append variable
- Delete
- Execute Pipeline
- Execute SSIS package
- Fail
- Get Metadata

4-If Conditional

Validate

Debug

Add trigger

Get Metadata

Get Metadata Folder

Set variable

Set variable

If Condition

If Condition

True

2 activities

False

2 activities

Parameters

Variables

Settings

Output

Pipeline run ID: 77dd9a20-9cc4-43ea-b71b-f4d220a567a3

View debug run consumption

Name	Type	Run start	Duration	Status	Integration runtime
Delete	Delete	2021-12-15T18:22:02.317	00:00:03	Succeeded	DefaultIntegrationRuntim
Copy data1	Copy data	2021-12-15T18:21:53.146	00:00:08	Succeeded	DefaultIntegrationRuntim
If Condition	If Condition	2021-12-15T18:21:51.971	00:00:15	Succeeded	
Set variable	Set variable	2021-12-15T18:21:51.591	00:00:01	Succeeded	
Get Metadata Folder	Get Metadata	2021-12-15T18:21:39.282	00:00:12	Succeeded	DefaultIntegrationRuntim

Ahora si verificamos nuestro Azure Data Lake Storage, podemos ver que el archivo que se encontraba dentro de **Origen2** fue eliminado y este fue copiado en la carpeta **Destino**

Inicio > datalakeudemylaboratio >

**dataset** ...

Contenedor

Buscar (Ctrl+/) <<

Cargar + Agregar directorio Actualizar Cambiar nombre Eliminar Cambiar nivel ...

**Método de autenticación:** Clave de acceso (Cambiar a la cuenta de usuario de Azure AD)

**Ubicación:** dataset / 8.Iterations and Conditionals / 3.If Conditional / Origen2

Buscar blobs por prefijo (distingue mayúsculas de minúsculas) ☐ Mostrar objetos eliminados

Nombre	Modificado	Nivel de acceso	Estado del archivo	Tipo de blob
<input type="checkbox"/> [..]				

Inicio > datalakeudemylaboratio >

**dataset** ...

Contenedor

Buscar (Ctrl+/) <<

Cargar + Agregar directorio Actualizar Cambiar nombre Eliminar Cambiar nivel ...

**Método de autenticación:** Clave de acceso (Cambiar a la cuenta de usuario de Azure AD)

**Ubicación:** dataset / 8.Iterations and Conditionals / 3.If Conditional / Destino

Buscar blobs por prefijo (distingue mayúsculas de minúsculas) ☐ Mostrar objetos eliminados

Nombre	Modificado	Nivel de acceso	Estado del archivo	Tipo de blob
<input type="checkbox"/> [..]				
<input type="checkbox"/> Ventas.xlsx	15/12/2021 13:21:59	Frecuente (inferido)		Blob en bloqu