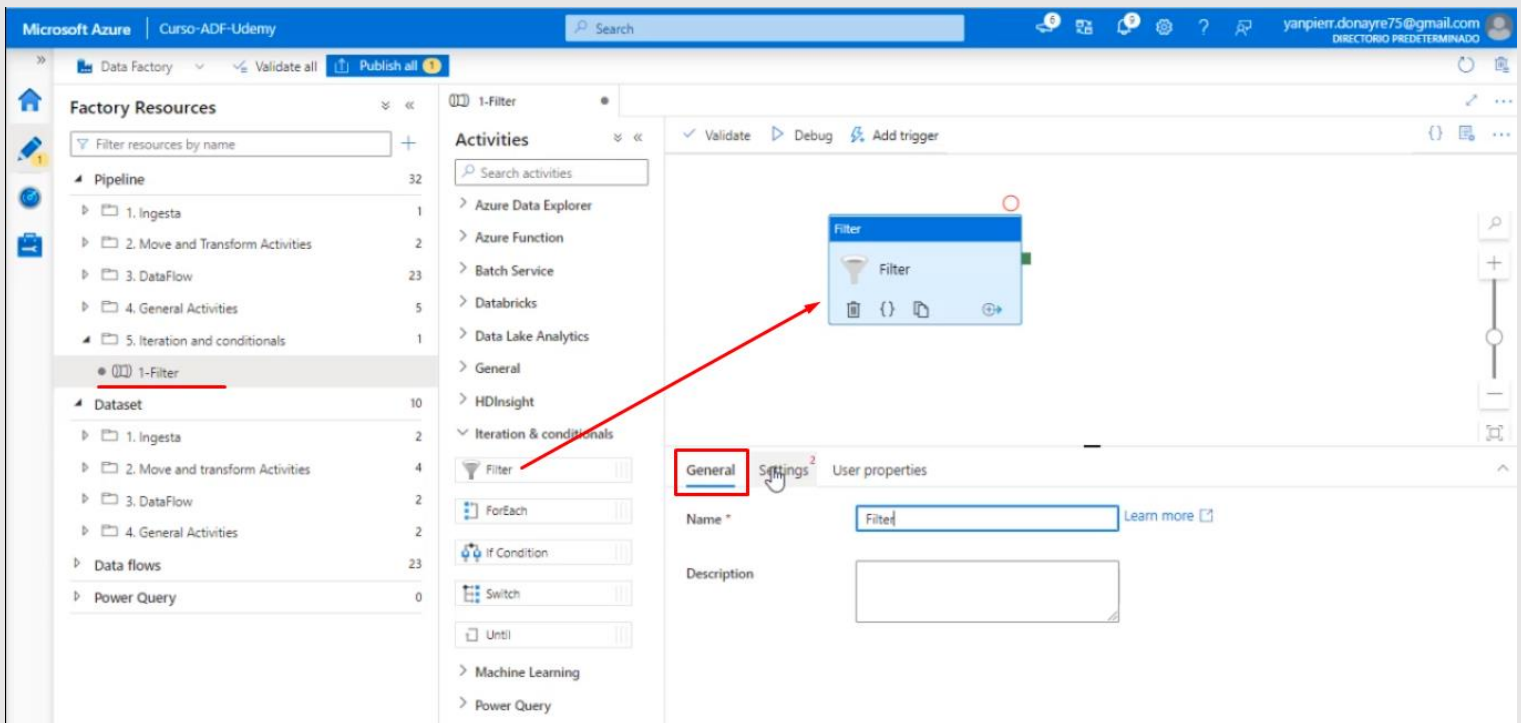
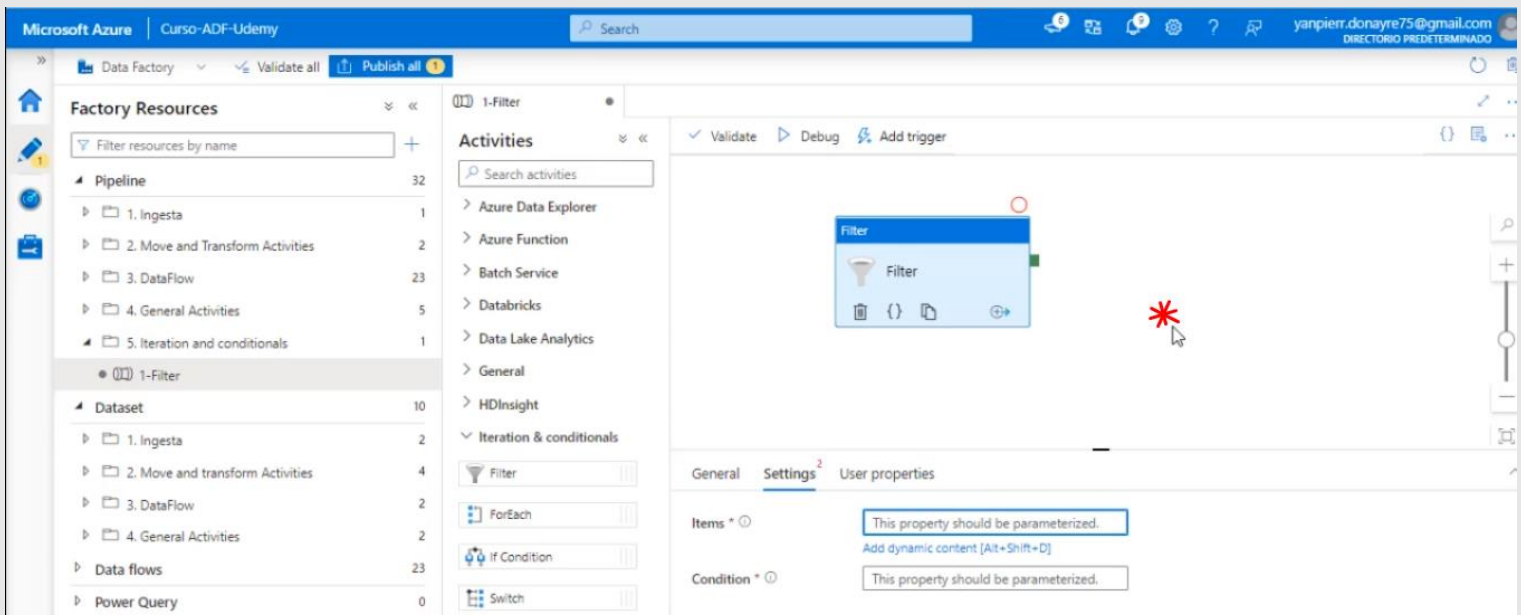


# Iteration and conditionals Filter

Creamos un Pipeline y arrastramos al lienzo la actividad de **Filter**



Vamos a crear una variable a nivel de Pipeline, para eso daremos un clic sobre el lienzo



**Default value:** "Employee.txt","Sales.txt","Employee.json","Employee.parquet","Customer.txt"

The screenshot shows the Microsoft Azure Data Factory interface. On the left, the 'Factory Resources' pane lists 'Pipeline' and 'Dataset'. The 'Activities' pane shows a 'Filter' activity. The main canvas displays the 'Filter' activity icon. The 'Variables' tab is selected, showing a table with columns 'Name', 'Type', and 'Default value'. A new variable is being added with the name 'FileName', type 'Array', and default value 'Employee.parquet','Customer.txt'.

Name	Type	Default value
FileName	Array	Employee.parquet','Customer.txt'

The screenshot shows the Microsoft Azure Data Factory interface. On the left, the 'Factory Resources' pane lists 'Pipeline' and 'Dataset'. The 'Activities' pane shows a 'Filter' activity. The main canvas displays the 'Filter' activity icon. The 'Settings' tab is selected, showing the 'Items' and 'Condition' properties. Both properties have a warning message: 'This property should be parameterized. Add dynamic content [Alt+Shift+D]'.

Items \* ⓘ This property should be parameterized. Add dynamic content [Alt+Shift+D]

Condition \* ⓘ This property should be parameterized.

Microsoft Azure | Curso-ADF-Udemy

Search

yanpierr.donayre75@gmail.com  
DIRECTORIO PREDETERMINADO

Data Factory | Validate all | Publish all

Factory Resources

- Pipeline 32
  - 1. Ingesta 1
  - 2. Move and Transform Activiti... 2
  - 3. DataFlow 23
  - 4. General Activities 5
  - 5. Iteration and conditionals 1
- 1-Filter
- Dataset 10
  - 1. Ingesta 2
  - 2. Move and transform Activiti... 4
  - 3. DataFlow 2
  - 4. General Activities 2
- Data flows 23
- Power Query 0

Activities

- Azure Data Explorer
- Azure Function
- Batch Service
- Databricks
- Data Lake Analytics
- General
- HDInsight
- Iteration & conditionals
  - Filter
  - ForEach
  - If Condition
  - Switch
  - Until
- Machine Learning
- Power Query

Filter

General Settings User properties

Items \* 0 This property should be parameterized.  
Add dynamic content

Condition \* 0 This property should be parameterized.  
Add dynamic content

Add dynamic content

@variables('FileName')

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...

System variables

Functions

Variables

FileName

OK Cancel

Microsoft Azure | Curso-ADF-Udemy

Search

yanpierr.donayre75@gmail.com  
DIRECTORIO PREDETERMINADO

Data Factory | Validate all | Publish all

Factory Resources

- Pipeline 32
  - 1. Ingesta 1
  - 2. Move and Transform Activiti... 2
  - 3. DataFlow 23
  - 4. General Activities 5
  - 5. Iteration and conditionals 1
- 1-Filter
- Dataset 10
  - 1. Ingesta 2
  - 2. Move and transform Activiti... 4
  - 3. DataFlow 2
  - 4. General Activities 2
- Data flows 23
- Power Query 0

Activities

- Azure Data Explorer
- Azure Function
- Batch Service
- Databricks
- Data Lake Analytics
- General
- HDInsight
- Iteration & conditionals
  - Filter
  - ForEach
  - If Condition
  - Switch
  - Until
- Machine Learning
- Power Query

Filter

General Settings User properties

Items @variables('FileName')

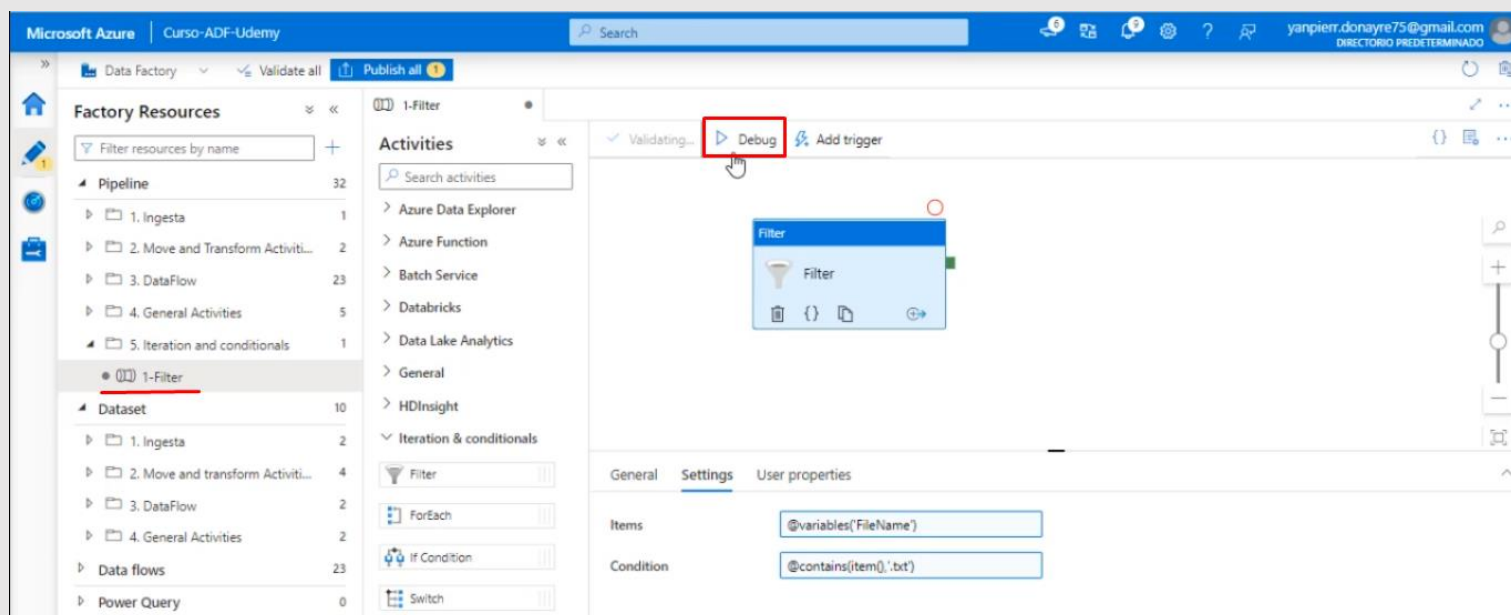
Condition \* 0 This property should be parameterized.  
Add dynamic content (Alt+Shift+D)

`@contains(item(),'.txt')` : `item()` esta referenciando a "Items" de Settings

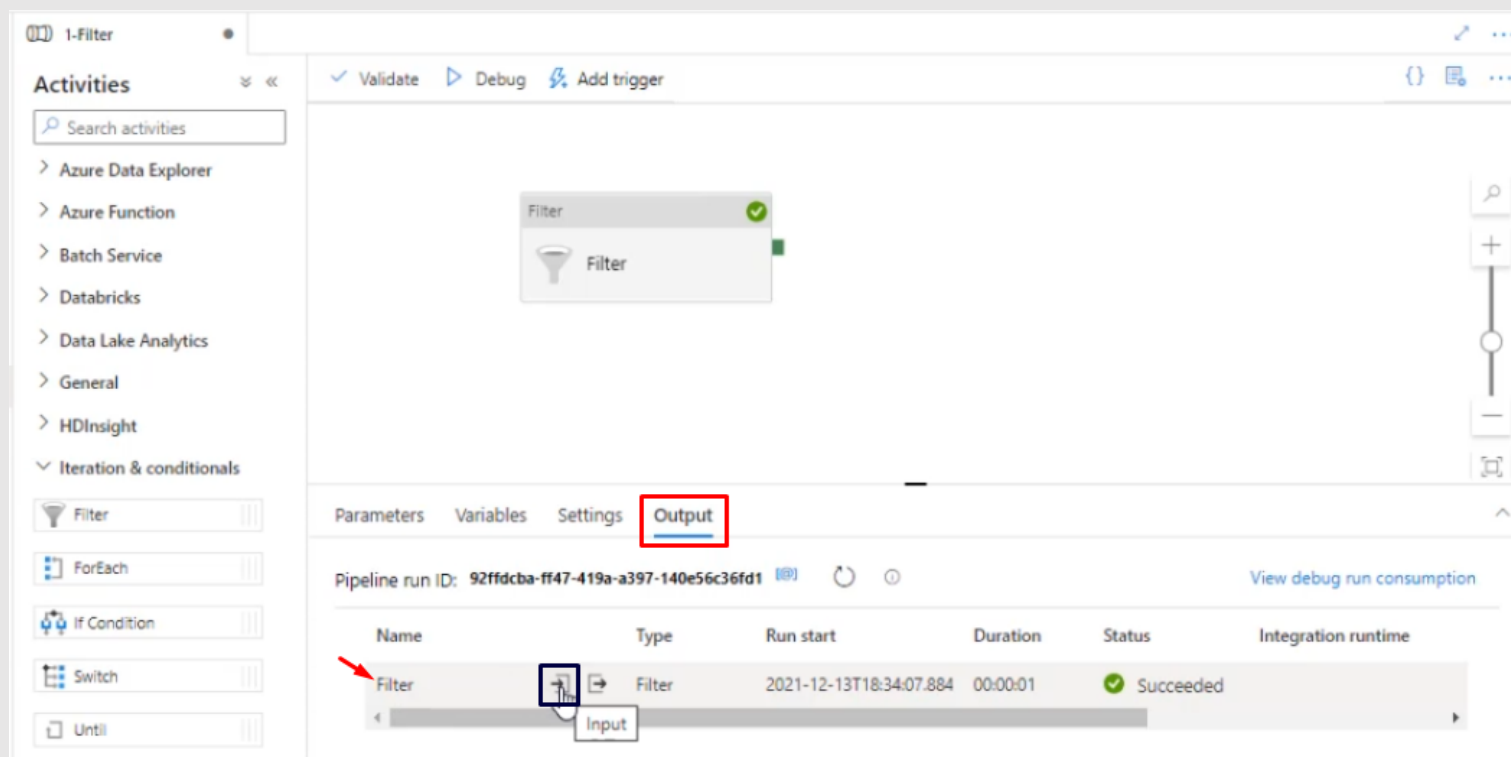
This screenshot shows the Microsoft Azure portal interface for an Azure Data Factory pipeline. The 'Factory Resources' pane on the left shows a pipeline with several activities. The 'Activities' pane in the center shows a 'Filter' activity selected. The 'Settings' tab for the 'Filter' activity is active, showing the 'Items' property set to '@variables('FileName')' and the 'Condition' property set to '@contains(item(),'.txt')'. The 'Add dynamic content' dialog is open on the right, showing the expression '@contains(item(),'.txt')' in the text area. The dialog also includes a search bar, a list of functions (Collection Functions and Logical Functions), and 'OK' and 'Cancel' buttons.

This screenshot shows the Microsoft Azure portal interface for the same Azure Data Factory pipeline. The 'Factory Resources' pane on the left is the same. The 'Activities' pane in the center shows the 'Filter' activity selected. The 'Settings' tab for the 'Filter' activity is active, showing the 'Items' property set to '@variables('FileName')' and the 'Condition' property set to '@contains(item(),'.txt')'. The 'Add dynamic content' dialog is no longer open.

Ejecutamos el Pipeline utilizando **Debug**



Veamos cual es el **Input** de la actividad **Filter**



```
Input
{
  "items": "@variables('FileName')",
  "condition": "@contains(item(),'.txt')"
```

Veamos que obtenemos en el **Output**

Parameters Variables Settings <b>Output</b>						
Pipeline run ID: 92ffdcba-ff47-419a-a397-140e56c36fd1 <a href="#">View debug run consumption</a>						
Name	Type	Run start	Duration	Status	Integration runtime	
Filter	Filter	2021-12-13T18:34:07.884	00:00:01	Succeeded		

Del valor de la variable que creamos, de los 5 elementos que contiene el Array, nos devuelve 3 elementos, solo aquellos que contengan la cadena ".txt".

```
Output
{
  "ItemsCount": 5,
  "FilteredItemsCount": 3,
  "Value": [
    "Employee.txt",
    "Sales.txt",
    "Customer.txt"
  ]
}
```