

Stored Procedure Activity

A stored procedure is a set of Structured Query Language (SQL) statements with an assigned name, which are stored in a relational database management system (RDBMS) as a group, so it can be reused and shared by multiple programs.

Using Stored Procedure Activity you can execute a stored procedure inside your DB via ADF

The screenshot shows the Azure Data Studio interface. The main window displays a SQL query with the following code:

```
10 insert into dbo.dept(Dept_id, Dept_Name) Values (2,'HR');
11 insert into dbo.dept(Dept_id, Dept_Name) Values (3,'Payrole');
12
13 select * from dept;
14
15
16 select TABLE_SCHEMA, TABLE_NAME from Information
17 where TABLE_TYPE = 'BASE TABLE' and TABLE_SCHEMA = 'dbo'
18
19 Incorrect syntax: 'CREATE PROCEDURE' must be
20
21 CREATE PROCEDURE sp_delete_dept
22 @dept_name varchar(max)
23 AS
24 BEGIN
25     DELETE FROM dbo.dept
26     WHERE Dept_Name = @dept_name
27 END
```

A red box highlights the procedure definition code from line 21 to 28. A red arrow points to this box with the following text annotation:

here we are on AZURE data studio, so this is a sample store procedure with procedure name as sp_delete_dept

The Messages pane at the bottom shows the following output:

```
16:36:04 Started executing query at line 21
Commands completed successfully.
Total execution time: 00:00:00.344
```

lets run and see the sample we are u create

here we are on AZURE data studio. so this is a sample store procedure with procedure name as sp_delete_dept.

```
10 insert into dbo.dept(Dept_id, Dept_Name) Values (2,'HR');
11 insert into dbo.dept(Dept_id, Dept_Name) Values (3,'Payrole');
12
13 select * from dept;
14
15
16 select TABLE_SCHEMA, TABLE_NAME from information_sche
17 where TABLE_TYPE = 'BASE TABLE' and TABLE_SCHEM
18
19 Incorrect syntax: 'CREATE PROCEDURE' must be
20
21 CREATE PROCEDURE sp_delete_dept
22 @_dept_name varchar(max)
23 AS
24 BEGIN
25     DELETE FROM dbo.dept
26     WHERE Dept_Name = @_dept_name
27 END
```

Messages

16:36:04 Started executing query at line 21
Commands completed successfully.
Total execution time: 00:00:00.344

so here we have a department table with the inputs

```
7 )
8
9 insert into dbo.dept(Dept_id, Dept_Name) Values (1,'IT');
10 insert into dbo.dept(Dept_id, Dept_Name) Values (2,'HR');
11 insert into dbo.dept(Dept_id, Dept_Name) Values (3,'Payrole');
12
13 select * from dept;
14
15
16 select TABLE_SCHEMA, TABLE_NAME from information_sche
17 where TABLE_TYPE = 'BASE TABLE' and TABLE_SCHEM = 'dbo';
18
19
20
21 CREATE PROCEDURE sp_delete_dept
22 @_dept_name varchar(max)
23 AS
24 BEGIN
25     DELETE FROM dbo.dept
26     WHERE Dept_Name = @_dept_name
27 END
```

Results

Dept_id	Dept_Name
1	IT
2	HR
3	Payrole

so here we have a department table with the inputs. so we want to create a store procedure to delete a record on the table

```
7 )
8
9 insert into dbo.dept(Dept_id, Dept_Name) Values (1,'IT');
10 insert into dbo.dept(Dept_id, Dept_Name) Values (2,'HR');
11 insert into dbo.dept(Dept_id, Dept_Name) Values (3,'Payrole');
12
13 select * from dept;
14
15
16 select TABLE_SCHEMA, TABLE_NAME from information_schema.TABLES
17 where TABLE_TYPE = 'BASE TABLE' and TABLE_SCHEMA = 'dbo';
18
19
20
21 CREATE PROCEDURE sp_delete_dept
22 @p_dept_name varchar(max)
23 AS
24 BEGIN
25     DELETE FROM dbo.dept
26     WHERE Dept_Name = @p_dept_name
27 END
```

Dept_id	Dept_Name
1	IT
2	HR
3	Payrole

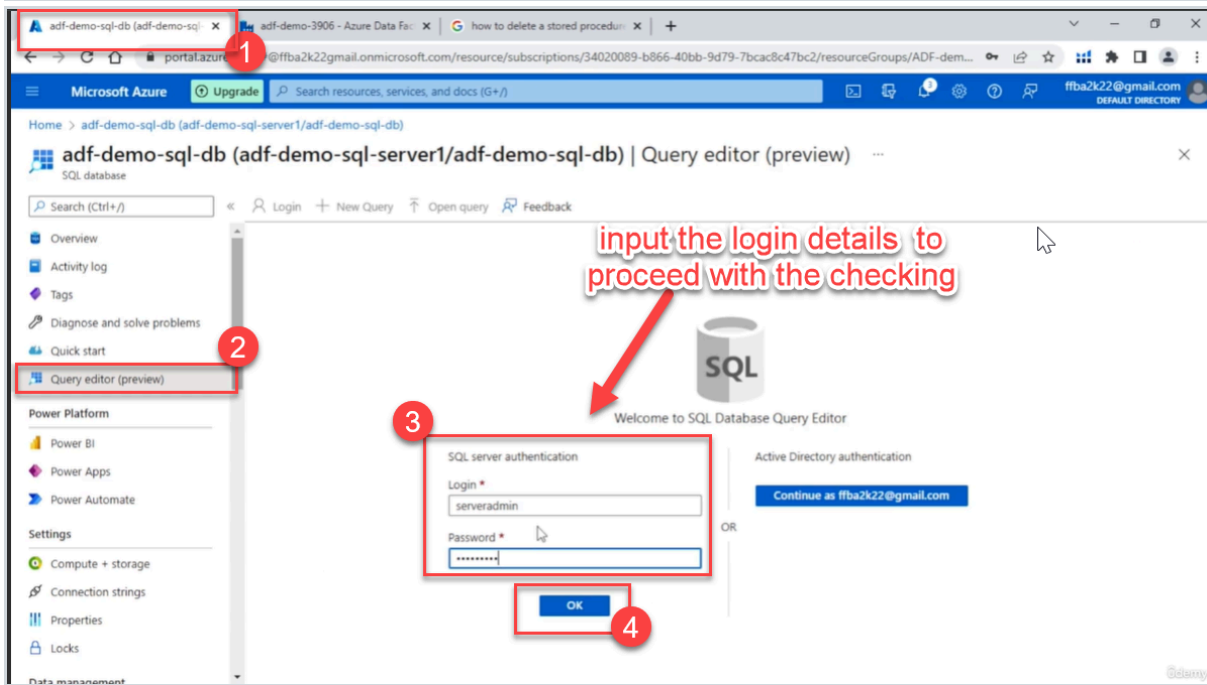
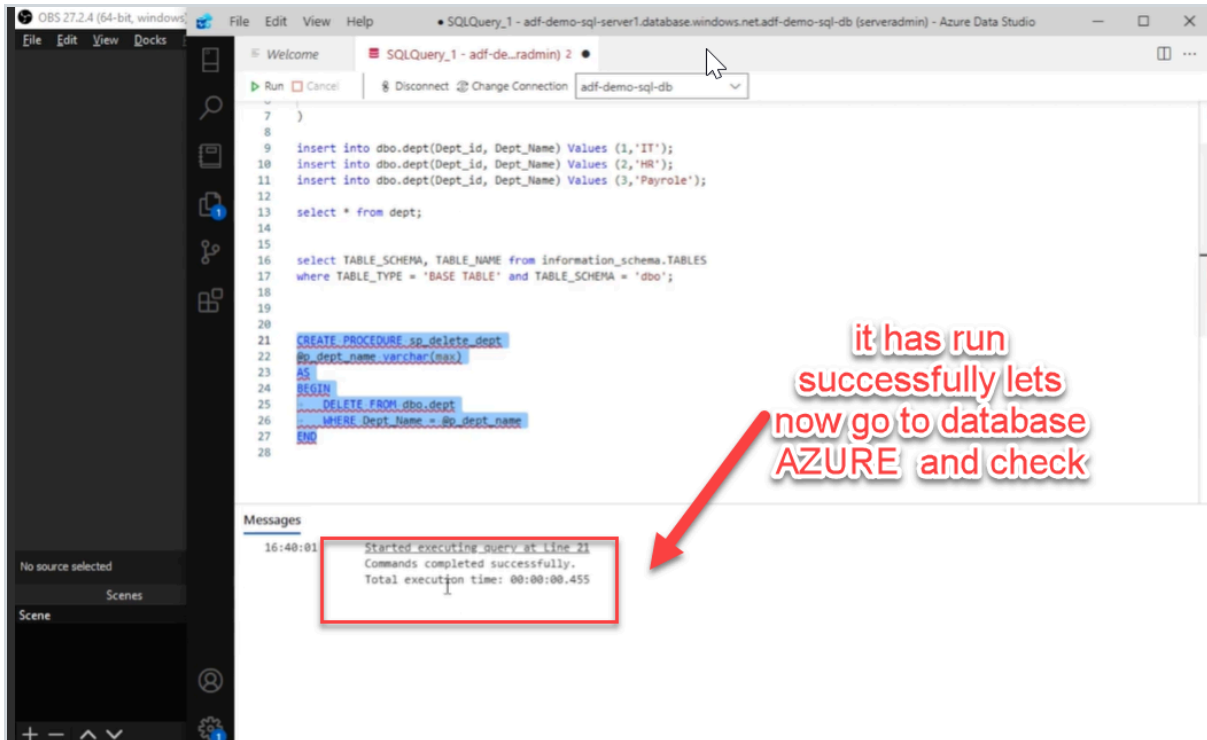
22 decembre vendredi 2023 à 08h

press to execute

lets execute the delete query

```
7 )
8
9 insert into dbo.dept(Dept_id, Dept_Name) Values (1,'IT');
10 insert into dbo.dept(Dept_id, Dept_Name) Values (2,'HR');
11 insert into dbo.dept(Dept_id, Dept_Name) Values (3,'Payrole');
12
13 select * from dept;
14
15
16 select TABLE_SCHEMA, TABLE_NAME from information_schema.TABLES
17 where TABLE_TYPE = 'BASE TABLE' and TABLE_SCHEMA = 'dbo';
18
19
20
21 CREATE PROCEDURE sp_delete_dept
22 @p_dept_name varchar(max)
23 AS
24 BEGIN
25     DELETE FROM dbo.dept
26     WHERE Dept_Name = @p_dept_name
27 END
```

Dept_id	Dept_Name
1	IT
2	HR
3	Payrole



adf-demo-sql-db (adf-demo-sql-server1/adf-demo-sql-db) | Query editor (preview)

from there u can see the definition .. and we shall use this procedure in AZURE data factory

as you can see in our store procedure u can see thestore procedure we just created

```
1 CREATE PROCEDURE sp_delete_dept
2 @p_dept_name varchar(max)
3 AS
4 BEGIN
5     DELETE FROM dbo.dept
6     WHERE Dept_Name = @p_dept_name
7 END
```

adf-demo-sql-db (adf-demo-sql-server1/adf-demo-sql-db) | Query editor (preview)

create a new pipeline

1

2

3

Factory Resources

- Pipelines
- Datasets
- Data flows
- Power Query

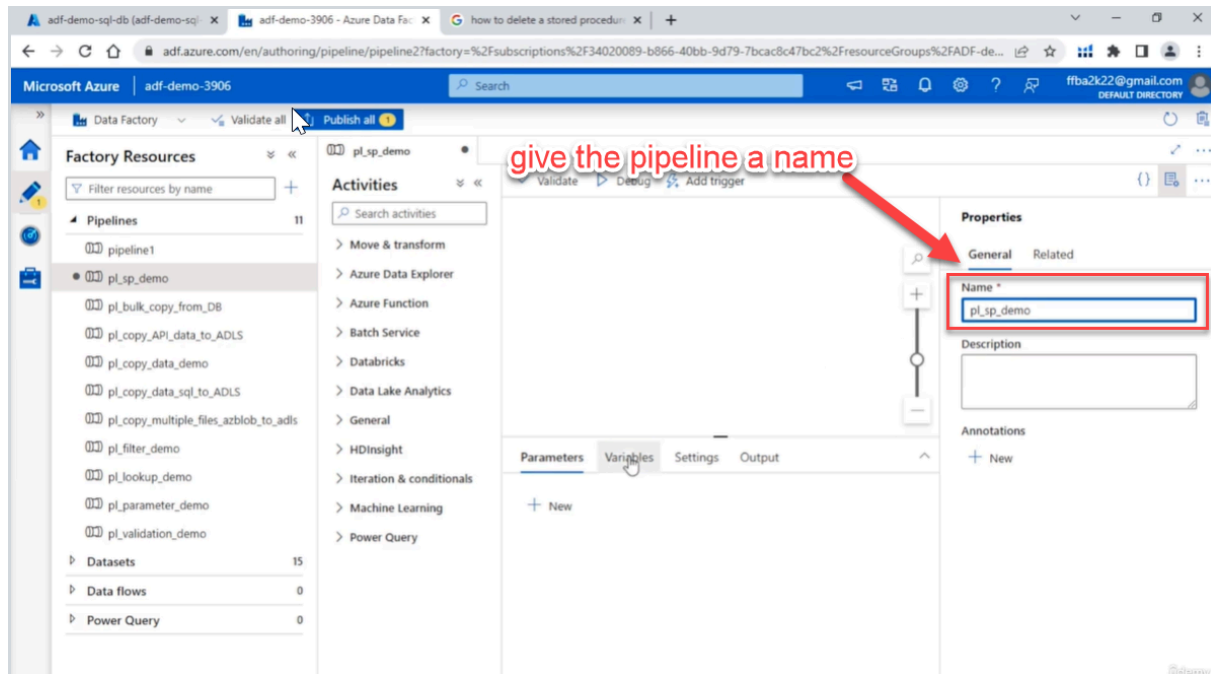
new pipeline

Pipeline from template

New folder

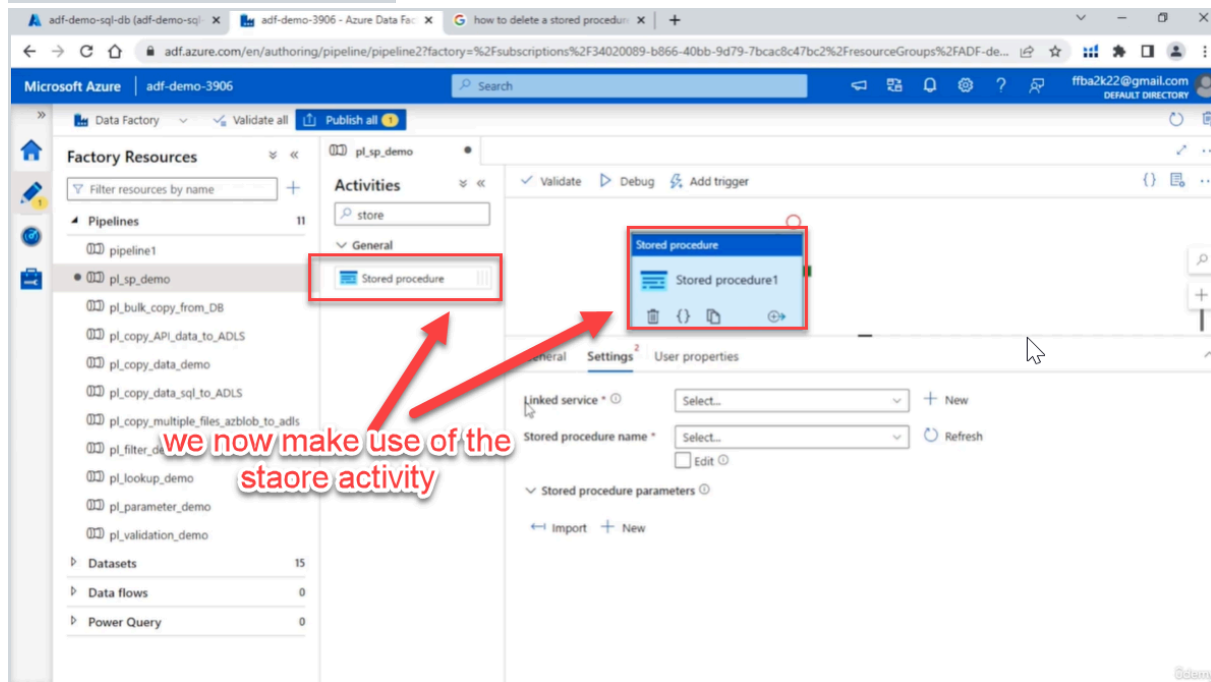
Select an item

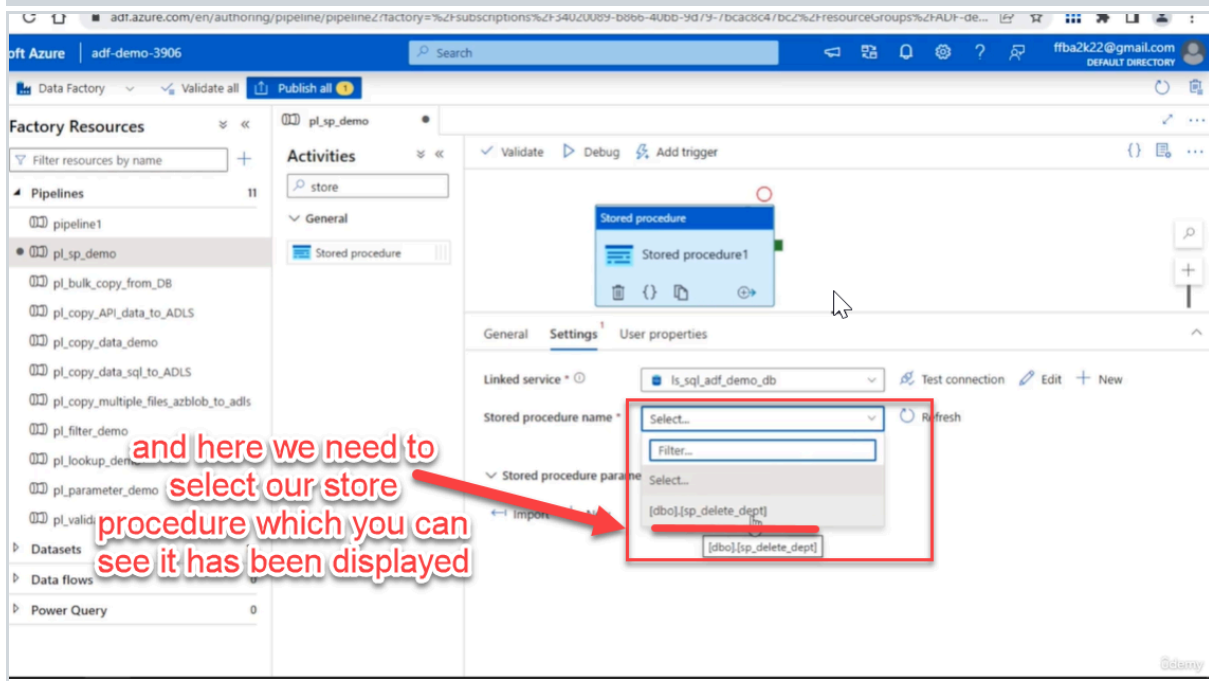
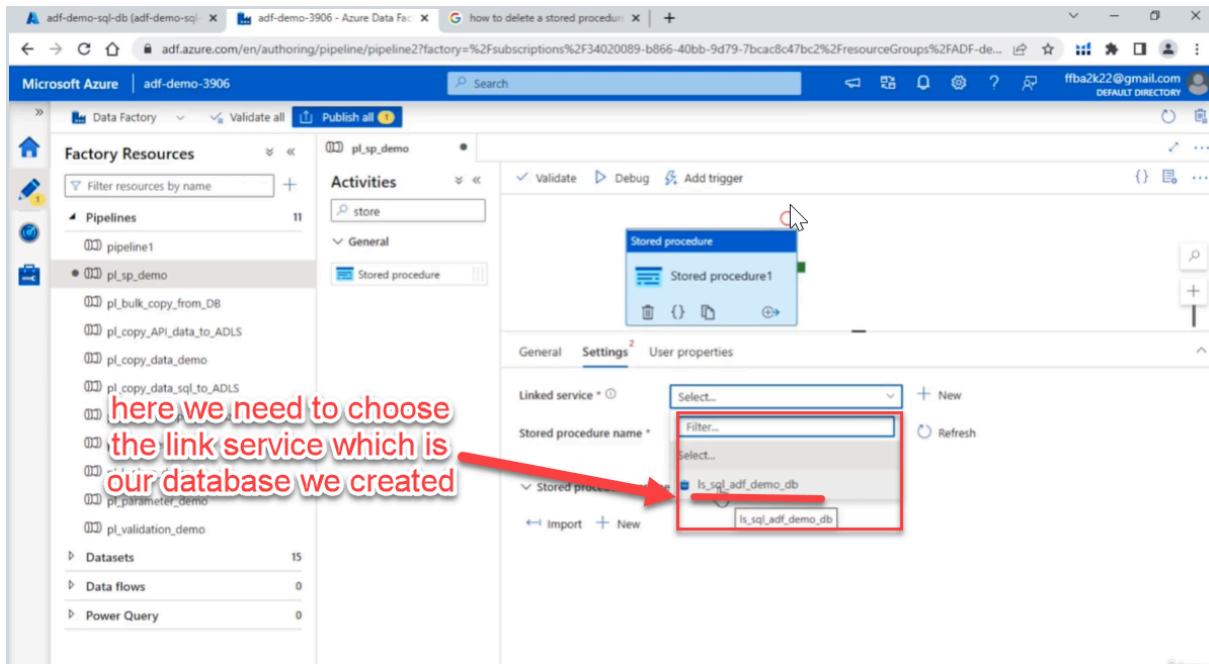
Use the resource explorer to select or create a new item



Samedi 23 décembre 2023 à 20h
(sunday)

Mardi 26 decembre 2023 à 19h





here you can pass the parameters when you click here

so lets say for the value we want to delete this payrole: so we pass it as a value

3

1

2

so before debugging this activity what we expect is that the payrole field should be deleted

```

7 )
8
9 insert into dbo.dept(Dept_id, Dept_Name) Values (1,'IT');
10 insert into dbo.dept(Dept_id, Dept_Name) Values (2,'HR');
11 insert into dbo.dept(Dept_id, Dept_Name) Values (3,'Payrole');
12
13 select * from dept;
14
15
16 select TABLE_SCHEMA, TABLE_NAME from information_schema.TABLES
17 where TABLE_TYPE = 'BASE TABLE' and TABLE_SCHEMA = 'dbo';
18
19
20
21 CREATE PROCEDURE sp_delete_dept
22 @p_dept_name varchar(max)
23 AS
24 BEGIN
25     DELETE FROM dbo.dept
26     WHERE Dept_Name = @p_dept_name
27 END
28

```

Dept_id	Dept_Name
1	IT
2	HR
3	Payrole

1

so it worked successfully

Name	Type	Run start	Duration	Stat
Stored procedure1	Stored procedure	2022-05-05T11:13:11.169Z	00:00:13	✓

1

run this query to check how many departments are there

here you can put any statement of your choice be it select, update, drop etc. the store activity will act according to the statement

so presently just 2 departments are there now

2

```

7 )
8
9 insert into dbo.dept(Dept_id, Dept_Name) Values (1, 'IT')
10 insert into dbo.dept(Dept_id, Dept_Name) Values (2, 'HR')
11 insert into dbo.dept(Dept_id, Dept_Name) Values (3, 'Finance')
12
13 select * from dept;
14
15
16 select TABLE_SCHEMA, TABLE_NAME from information schema TABLES
17 where TABLE_TYPE = 'BASE TABLE' and TABLE_NAME like '%dept%'
18
19
20
21 CREATE PROCEDURE sp_delete_dept
22 @p_dept_name varchar(max)
23 AS
24 BEGIN
25     DELETE FROM dbo.dept
26     WHERE Dept_Name = @p_dept_name
27 END
28

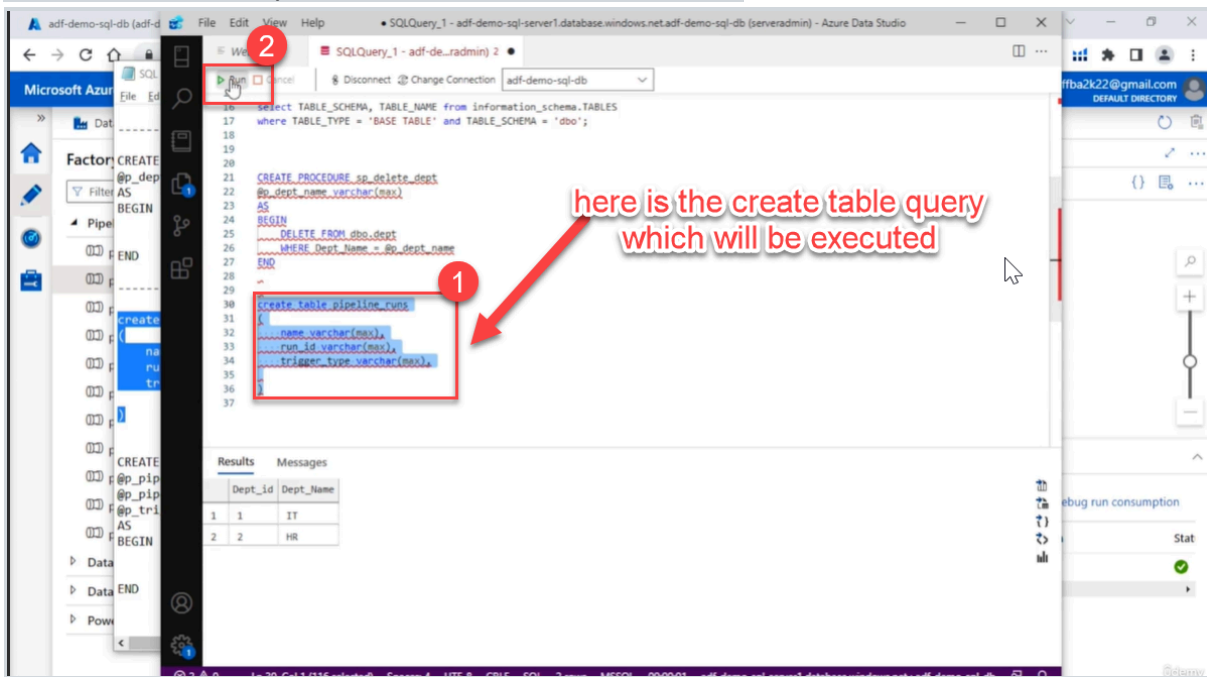
```

Dept_id	Dept_Name
1	IT
2	HR

Real World Scenario #4

Insert pipeline run details in a SQL DB for audit purpose.

here we need to create an sql table to hold and store the pipeline details and we can use store procedure to insert values n that table



12:19 AM
12/28/2023 laptop is low could not continue since there is no light

Mercredi 27 décembre 2023 à 14h28

Mercredi 27 décembre 2023 à 21h par andré

The screenshot shows the Azure Data Studio interface. The main editor displays a SQL script with the following content:

```
14  
15  
16 select TABLE_SCHEMA, TABLE_NAME from information_schema.TABLES  
17 where TABLE_TYPE = 'BASE TABLE' and TABLE_SCHEMA = 'dbo';  
18  
19  
20  
21  
22 create table pipeline_runs  
23 (  
24     name varchar(max),  
25     run_id varchar(max),  
26     trigger_type varchar(max),  
27  
28 )  
29  
30 select * from pipeline_runs;
```

Annotations in red text and arrows point to the `select * from pipeline_runs;` query and the `Results` pane below it. The `Results` pane shows a table with the following structure:

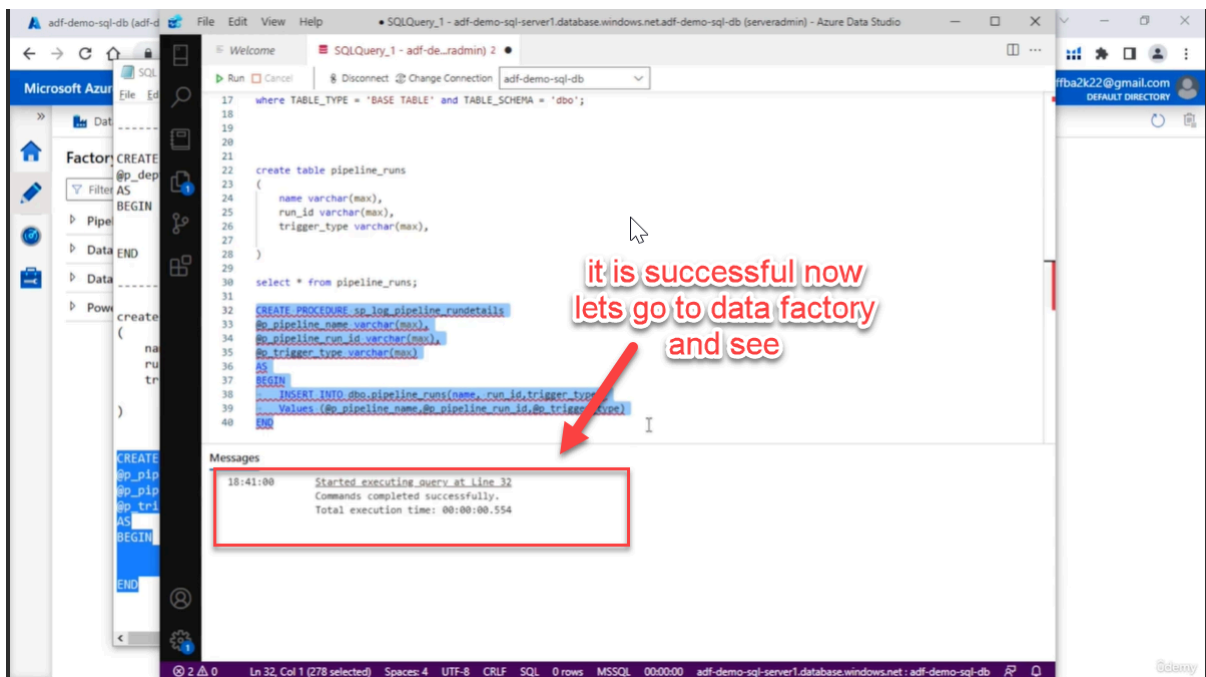
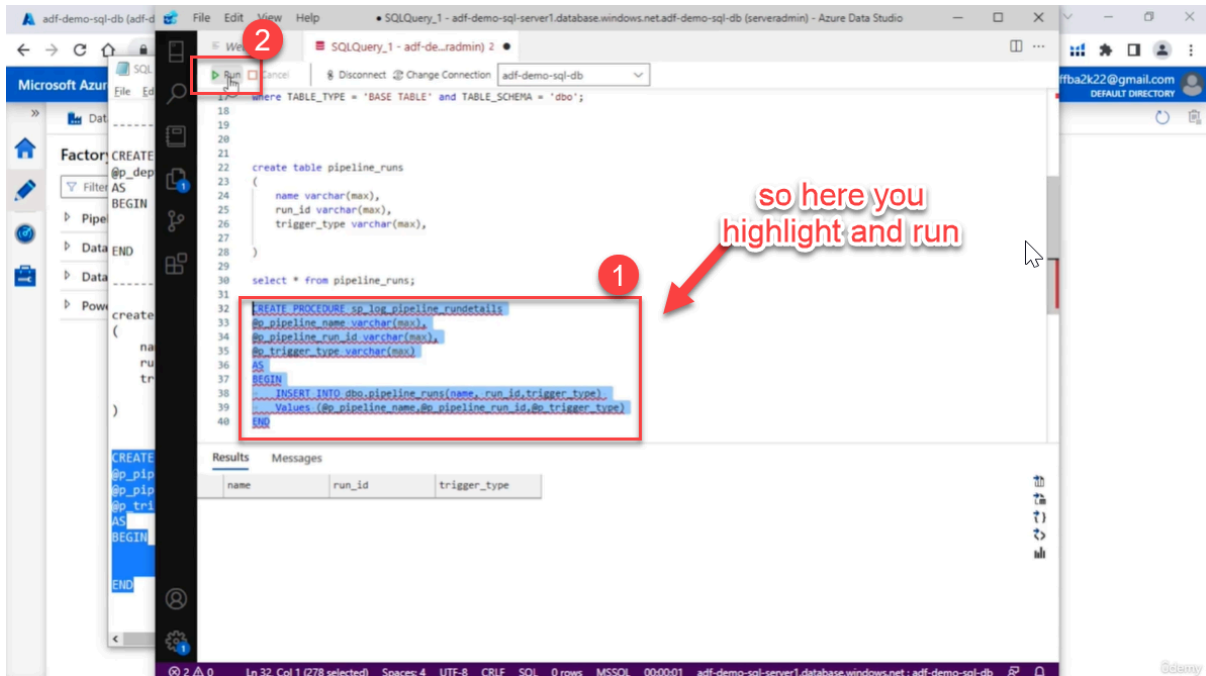
name	run_id	trigger_type
------	--------	--------------

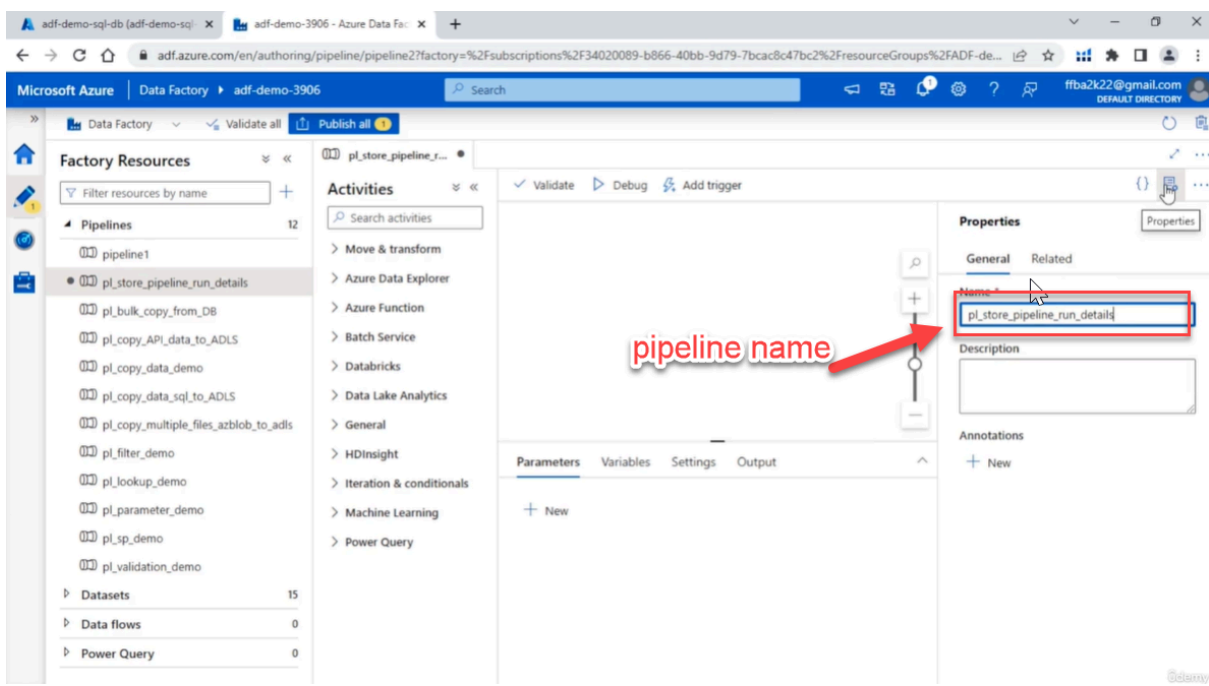
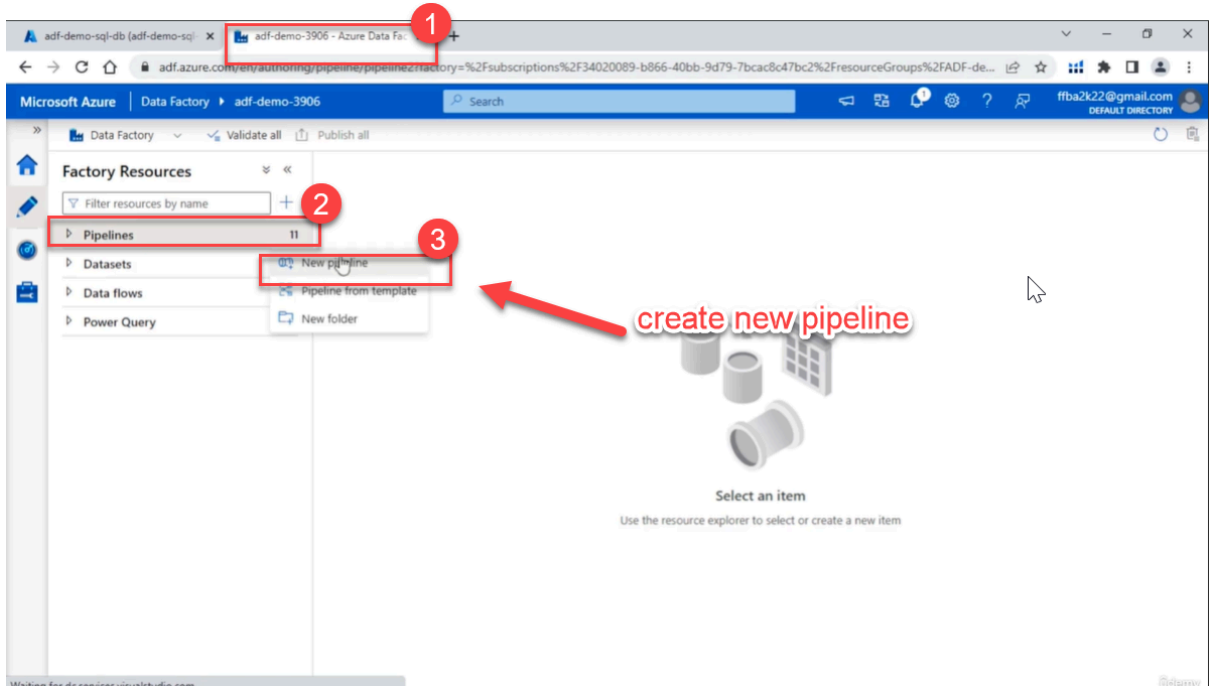
Additional annotations include "sql query to retrieve to the table created" pointing to the query and "here is the table" pointing to the results table.

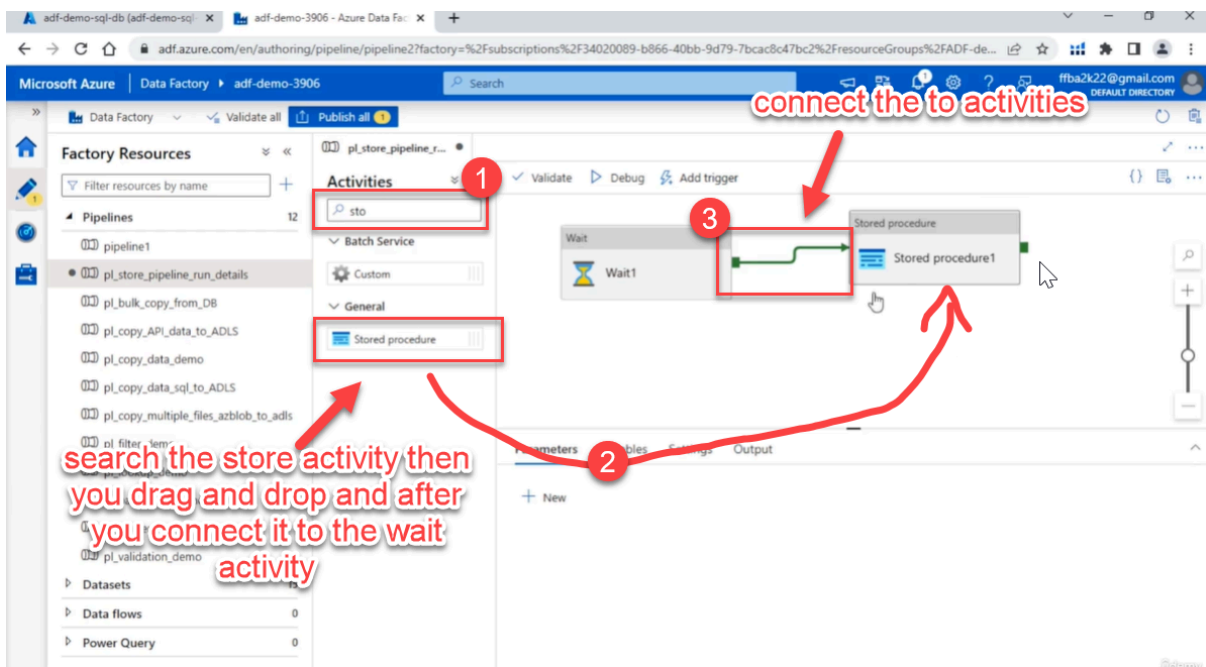
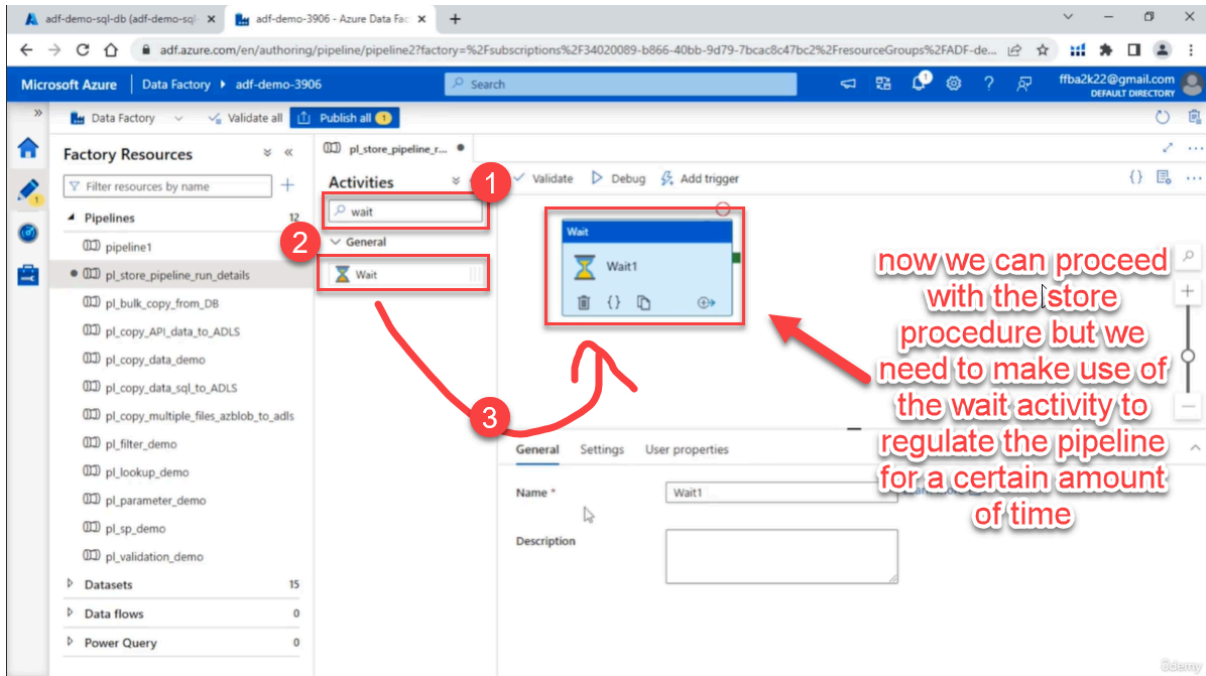
The screenshot shows a Notepad window with a SQL script. The script includes a `CREATE PROCEDURE` definition for `sp_log_pipeline_rundetails`. The procedure has three parameters: `@p_pipeline_name varchar(max)`, `@p_pipeline_run_id varchar(max)`, and `@p_trigger_type varchar(max)`. The procedure body contains an `INSERT INTO` statement that inserts data into the `pipeline_runs` table.

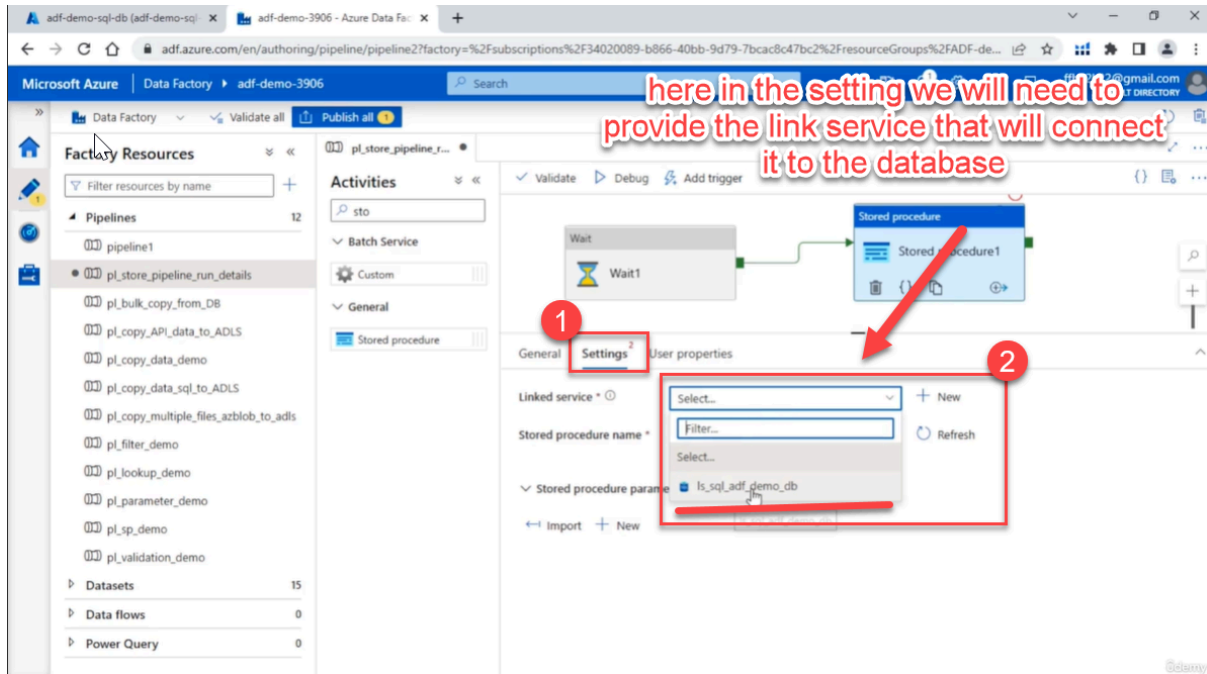
```
CREATE PROCEDURE sp_log_pipeline_rundetails  
@p_pipeline_name varchar(max),  
@p_pipeline_run_id varchar(max),  
@p_trigger_type varchar(max)  
AS  
BEGIN  
    INSERT INTO dbo.pipeline_runs(name, run_id, trigger_type)  
    Values (@p_pipeline_name, @p_pipeline_run_id, @p_trigger_type)  
END
```

Annotations in red text and arrows describe the procedure: "after creating the table we are to create the store procedure ; and the store procedure name is sp_log_pipeline with 3 parameters (pipeline name;run_id and type) and is an insert procedure".

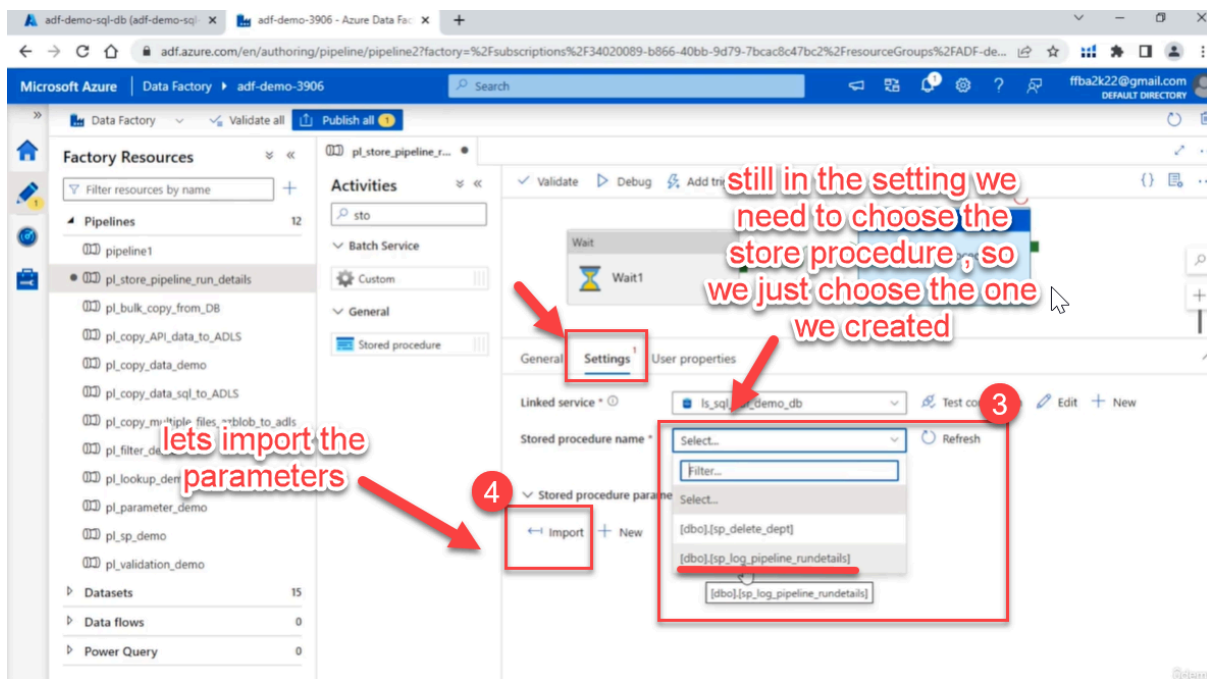








Vérifié le jeudi 28 Décembre 2023 à 20h39 par yvonne

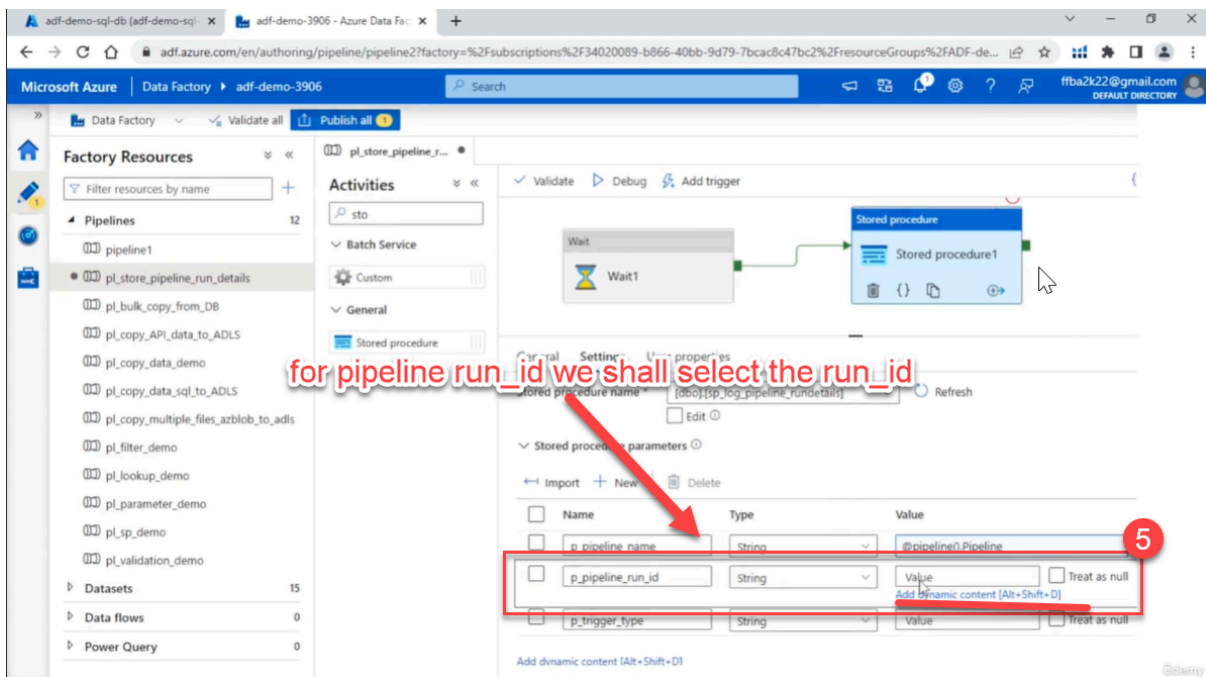
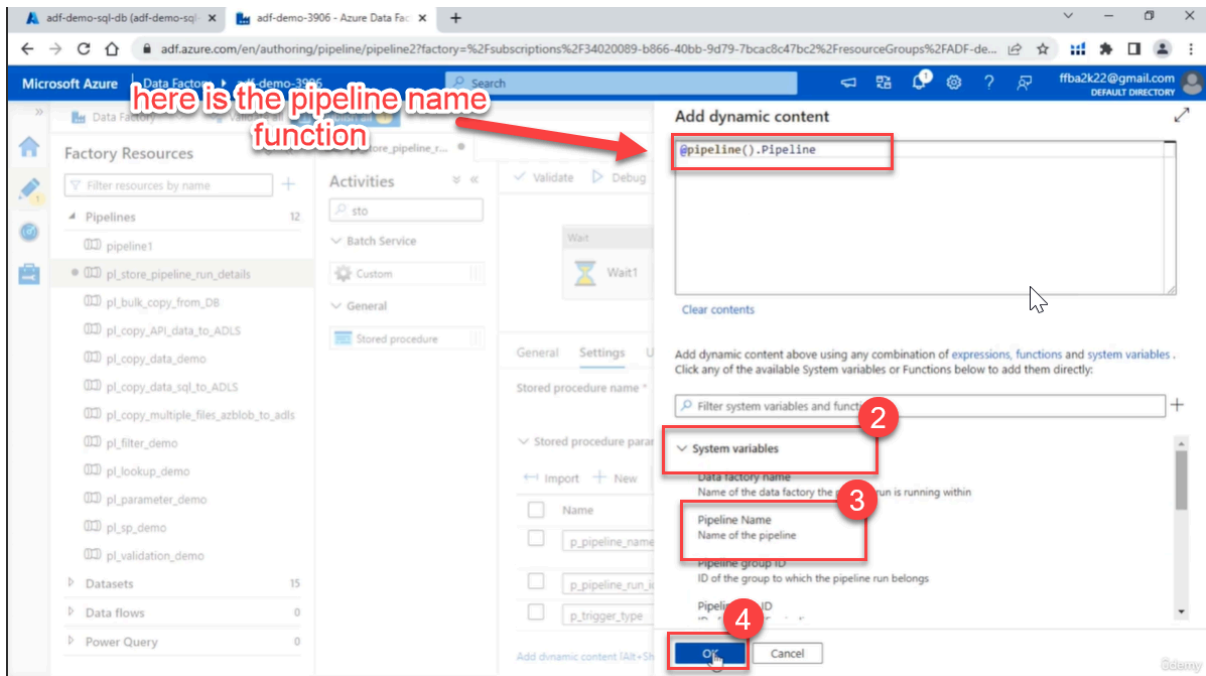


so here it displayed the 3 parameters

Name	Type	Value	Treat as null
<input type="checkbox"/> p_pipeline_name	String	Value	<input type="checkbox"/>
<input type="checkbox"/> p_pipeline_run_id	String	Value	<input type="checkbox"/>
<input type="checkbox"/> p_trigger_type	String	Value	<input type="checkbox"/>

for this pipeline value we are going to provide the pipeline system variables

Name	Type	Value	Treat as null
<input type="checkbox"/> p_pipeline_name	String	Value	<input type="checkbox"/>
<input type="checkbox"/> p_pipeline_run_id	String	Value	<input type="checkbox"/>
<input type="checkbox"/> p_trigger_type	String	Value	<input type="checkbox"/>



adf-demo-sql-db (adf-demo-sql) x adf-demo-3906 - Azure Data Fa: x

Microsoft Azure | Data Factory | adf-demo-3906

Factory Resources

- Pipelines
- pl_store_pipeline_run_details
- pl_bulk_copy_from_DB
- pl_copy_API_data_to_ADLS
- pl_copy_data_demo
- pl_copy_data_sql_to_ADLS
- pl_copy_multiple_files_azblob_to_adis
- pl_filter_demo
- pl_lookup_demo
- pl_parameter_demo
- pl_sp_demo
- pl_validation_demo

Activities

- Batch Service
- Custom
- General
- Stored procedure

Wait1

Add dynamic content

@pipeline().RunId

scroll down till you see

7

6

8

OK Cancel

adf-demo-sql-db (adf-demo-sql) x adf-demo-3906 - Azure Data Fa: x

Microsoft Azure | Data Factory | adf-demo-3906

Factory Resources

- Pipelines
- pl_store_pipeline_run_details
- pl_bulk_copy_from_DB
- pl_copy_API_data_to_ADLS
- pl_copy_data_demo
- pl_copy_data_sql_to_ADLS
- pl_copy_multiple_files_azblob_to_adis
- pl_filter_demo
- pl_lookup_demo
- pl_parameter_demo
- pl_sp_demo
- pl_validation_demo

Activities

- Batch Service
- Custom
- General
- Stored procedure

Wait1

Stored procedure

Stored procedure 1

General Settings User properties

Stored procedure name * [dbo].[sp_log_pipeline_rundetails] Refresh

Stored procedure parameters

Name	Type	Value
<input type="checkbox"/> p_pipeline_name	String	@pipeline().Pipeline
<input type="checkbox"/> p_pipeline_run_id	String	@pipeline().Runid
<input type="checkbox"/> p_trigger_type	String	Value <input type="checkbox"/> Treat as null

9

Add dynamic content

@pipeline().TriggerType

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...

Name of the trigger that invokes the pipeline

- Pipeline trigger time**
Time when the trigger that invoked the pipeline. The trigger time is the actual fired time, not the sc...
- Pipeline trigger type**
Type of the trigger that invoked the pipeline (Manual, Scheduler)
- Pipeline triggered by pipeline name
Name of the pipeline that triggered this pipeline. Applicable when a pipeline run is triggered by an...
- Pipeline triggered by pipeline run ID
Run ID of the pipeline that triggered this pipeline. Applicable when a pipeline run is triggered by a...

OK Cancel

now that our pipeline is ready lets validate it and publish

1 Validate

2 Publish all

Settings User properties

Stored procedure name [dbo].[sp_log_pipeline_run_details] Refresh

Stored procedure parameters

Name	Type	Value
p_pipeline_name	String	@pipeline().Pipeline
p_pipeline_run_id	String	@pipeline().Runid
p_trigger_type	String	@pipeline().TriggerType

now that our pipeline is ready lets validate it and publish the changes because we want run it through manual trigger due to the trigger type

Name	Type	Value
p_pipeline_name	String	@pipeline().Pipeline
p_pipeline_run_id	String	@pipeline().Runid
p_trigger_type	String	@pipeline().TriggerType

Publish all

You are about to publish all pending changes to the live environment. [Learn more](#)

Pending changes (1)

NAME	CHANGE	EXISTING
pl_store_pipeline_run_details... (New)	-	-

Publish Cancel

Microsoft Azure | Data Factory | adf-demo-3906

Factory Resources

- Pipelines (12)
- Datasets (15)
- Data flows (0)
- Power Query (0)

Activities

- Batch Service
- Custom
- General
- Stored procedure

pl_store_pipeline_r...

Add trigger

Trigger now

Trigger on-demand run of the last published pipeline

New/Edit

Stored procedure1

General Settings User properties

Stored procedure name * [dbo].[sp_log_pipeline_rundetails] Refresh

Stored procedure parameters

Name	Type	Value
p_pipeline_name	String	@pipeline().Pipeline
p_pipeline_run_id	String	@pipeline().Runid
p_trigger_type	String	@pipeline().TriggerType

Microsoft Azure | Data Factory | adf-demo-3906

Factory Resources

- Pipelines (12)
- Datasets (15)
- Data flows (0)
- Power Query (0)

Activities

- Batch Service
- Custom
- General
- Stored procedure

pl_store_pipeline_r...

Pipeline run

Trigger pipeline now using last published configuration.

Parameters

Name	Type	Value
No records found		

OK Cancel

adf-demo-sql-db [adf-demo-sq] x adf-demo-3906 - Azure Data Fac: x +

adf.azure.com/en/authoring/pipeline/pipeline?factory=%2Fsubscriptions%2F34020089-b866-40bb-9d79-7bcac8c47bc2%2FresourceGroups%2FADF-de... fba2k22@gmail.com

Microsoft Azure | Data Factory | adf-demo-3906

pipeline is running . click to have a clear view

6

Running
Successfully running pl_store_pipeline_run_details (Pipeline).
View pipeline run

Wait1

Stored procedure

Stored procedure1

General Settings User properties

Stored procedure name * [dbo].[sp_log_pipeline_rundetails] Refresh

Stored procedure parameters

Name	Type	Value
p_pipeline_name	String	@pipeline().Pipeline
p_pipeline_run_id	String	@pipeline().Runid
p_trigger_type	String	@pipeline().TriggerType

adf-demo-sql-db [adf-demo-sq] x adf-demo-3906 - Azure Data Fac: x +

adf.azure.com/en/monitoring/pipeline/runs/a918a434-80bc-4483-b7ee-ee19d631f30a?factory=%2Fsubscriptions%2F34020089-b866-40bb-9d79-7bcac8... fba2k22@gmail.com

Microsoft Azure | Data Factory | adf-demo-3906

All pipeline runs > pl_store_pipeline_run_details - Activity runs

pl_store_pipeline_run_details

List Gantt

Rerun Rerun from activity Rerun from failed activity Refresh Update pipeline

Wait1

Stored procedure

Stored procedure1

Activity runs

Pipeline run ID a918a434-80bc-4483-b7ee-ee19d631f30a

All status

Showing 1 - 1 of 1 items

Activity name	Activity type	Run start	Duration	Status	Error	Log	Integration run
Wait1	Wait	May 5, 2022, 6:45:1	00:00:09	In progress			

it has completed, so now lets go and retrieve the data once more

Activity name	Activity type	Run start	Duration	Status	Error	Log
Stored procedure1	Stored procedure	May 5, 2022, 6:45:26 pm	00:00:02	Succeeded		
Wait1	Wait	May 5, 2022, 6:45:16 pm	00:00:11	Succeeded		

select the query and click the run button

```
select * from pipeline_runs;
```

Results	Messages	
name	run_id	trigger_type
pl_store_pipeline_run_details	a918a434-80bc-4483-b7ee-ee19...	Manual

The screenshot shows the Azure Data Studio interface with a SQL query window. The query includes a table definition for 'pipeline_runs' and an insert statement. A red box highlights the results of a query, and a red arrow points from a text annotation to the 'trigger_type' column.

```
17 where TABLE_TYPE = 'BASE TABLE' and TABLE_SCHEMA = 'dbo';
18
19
20
21
22 create table pipeline_runs
23 (
24     name varchar(max),
25     run_id varchar(max),
26     trigger_type varchar(max),
27 )
28
29
30 select * from pipeline_runs
31
32 CREATE PROCEDURE sp_log_pipeline_run
33 @pipeline_name varchar(max),
34 @pipeline_run_id varchar(max),
35 @trigger_type varchar(max)
36 AS
37 BEGIN
38     INSERT INTO dbo.pipeline_runs (@name, @run_id, @trigger_type)
39     VALUES (@pipeline_name, @pipeline_run_id, @trigger_type);
40 END
```

name	run_id	trigger_type
pl_store_pipeline_run_details	a918a434-88bc-4483-b7ee-ee190631f30a	Manual

so you can see the pipeline name and the run_id and the trigger_type is manual because we ran the pipeline manually

The screenshot shows the Azure Data Factory 'Activities' pane. A red box highlights a pipeline activity diagram, and a red arrow points from a text annotation to the diagram.

so like this we can use the store procedure to store our pipeline run details

```
graph LR
    Wait1[Wait1] --> StoredProcedure1[Stored procedure1]
```

Delete Activity

You can use the Delete Activity in Azure Data Factory to delete files or folders from on-premises storage stores or cloud storage stores. Use this activity to clean up or archive files when they are no longer needed.

Vérifié le Vendredi 29 décembre 2023 à 20h25 par yvonne

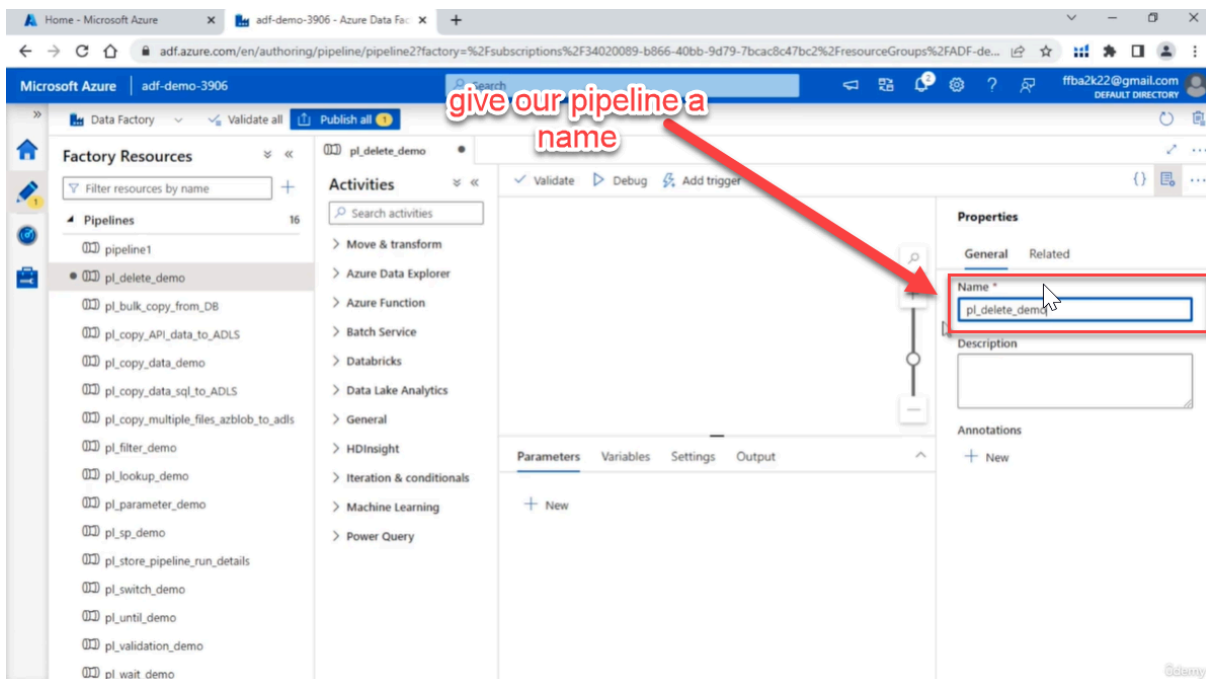
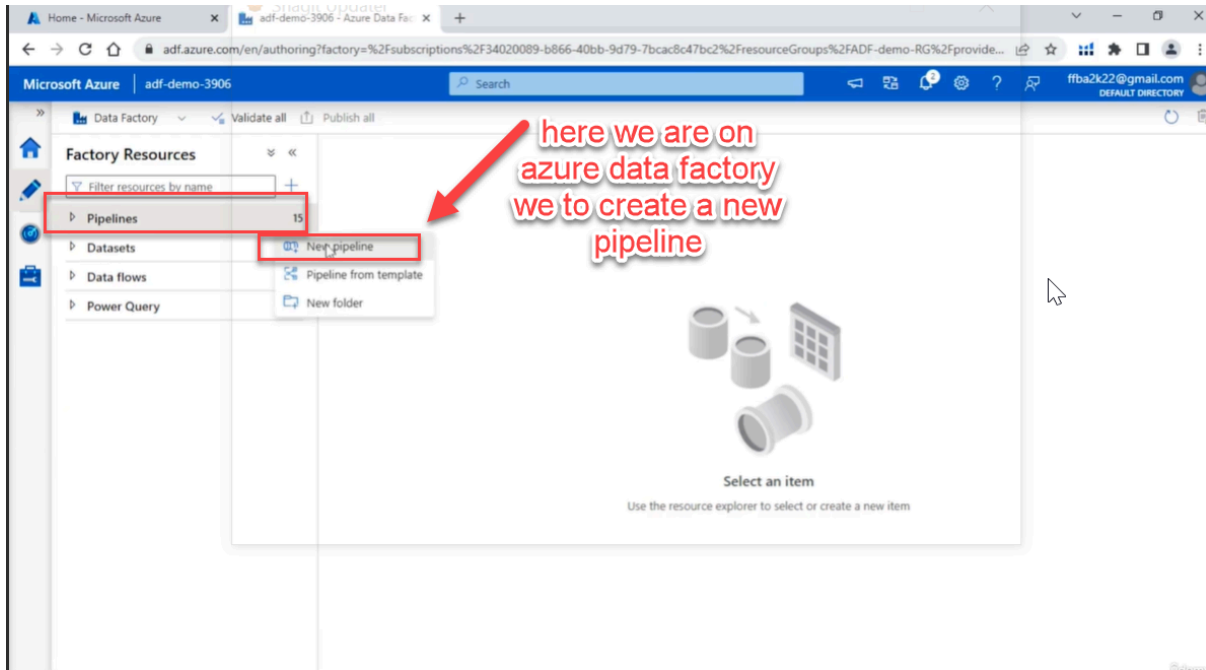
Vérifié le 30 décembre 2023 par André à 18h

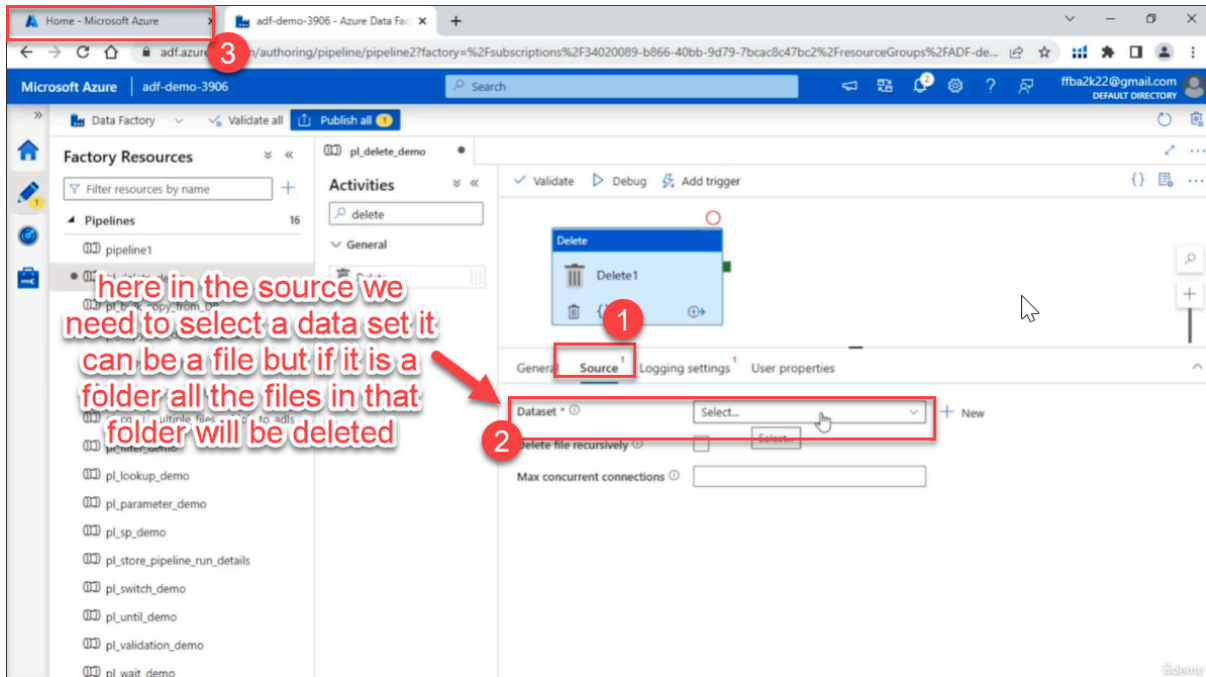
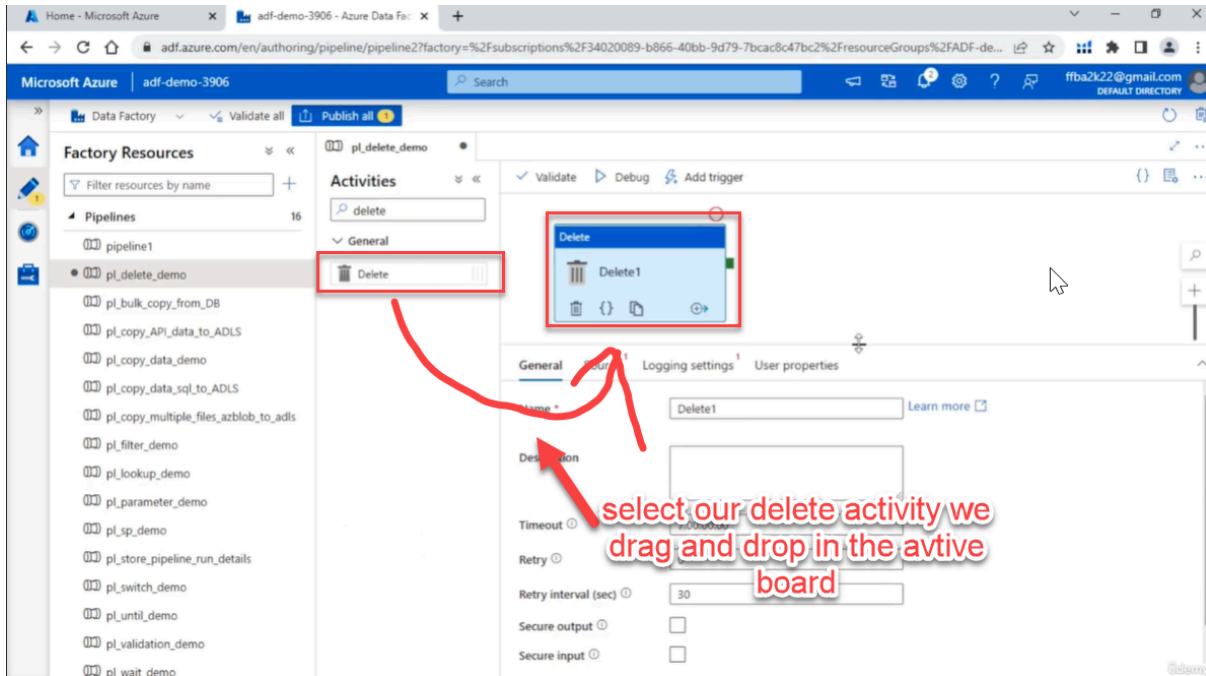
Vérifié le 31 décembre 2023 par André à 18h

Vérifié le 01 Janvier 2023 par André à 10H lundi

vérifié mercredi 03 janvier 2024 à 09H par andré

Vérifié jeudi 04 janvier 2024 à 22h43 par Yvonne





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portal.azure.com/#home

Microsoft Azure Search resources, services, and docs (G+)

ffba2k22@gmail.com

Azure services

- Create a resource
- Resource groups
- Subscriptions
- Cost Management
- Virtual machines
- Key vaults
- Function App
- Quickstart Center
- App Services
- More services

Recent resources

Name	Type	Last Viewed
adfdemosa12	Storage account	a few seconds ago
adfdemodl12	Storage account	2 minutes ago
adf-demo-3906	Data factory (V2)	19 minutes ago
adf-demo-sql-db	SQL database	7 hours ago
EDW	SQL database	7 hours ago
adf-dw-sql-server	SQL server	7 hours ago
ADF-demo-RG	Resource group	7 days ago
adfdwdatalake	Storage account	7 days ago
Free Trial	Subscription	7 days ago
adf-dw-workshop	Data factory (V2)	a week ago
ADF-DW	Resource group	3 weeks ago

we want to delete a particular folder in our ADF

4

adfdemodl12 - Microsoft Azure

portal.azure.com/#@ffba2k22gmail.onmicrosoft.com/resource/subscriptions/34020089-b866-40bb-9d79-7bcac8c47bc2/resourceGroups/ADF-demo-RG...

Microsoft Azure Search resources, services, and docs (G+)

ffba2k22@gmail.com

Home > adfdemodl12

adfdemodl12 | Containers

Storage account

Search (Ctrl+/)

Container Change access level Restore containers

Search containers by prefix

Show deleted containers

Name	Last modified	Public access level	Lease state
<input type="checkbox"/> \$logs	4/29/2022, 1:32:29 AM	Private	Available
<input type="checkbox"/> input	5/5/2022, 11:43:17 PM	Private	Available
<input type="checkbox"/> output	5/2/2022, 10:15:39 PM	Private	Available

for example we want to delete this input folder

6

5

Containers

File shares

Queues

Tables

Security + networking

Networking

Waiting for management.azure.com...

input - Microsoft Azure

adf-demo-3906 - Azure Data Fa: x +

portal.azure.com/#blade/Microsoft_Azure_Storage/ContainerMenuBlade/overview/storageAccountId/%2Fsubscriptions%2F34020089-b866-40bb-9d79-...

Microsoft Azure Search resources, services, and docs (G+)

Home > adfdemod12 >

input Container

Search (Ctrl+/)

Upload Add Directory Refresh Break lease

Authentication method: Access key (Switch to Azure AD User Account)

Location: input

Search blobs by prefix (case-sensitive) Show deleted objects

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
emp_details.csv	5/5/2022, 11:43:40 PM	Hot (inferred)		Block blob	106 B	Available

so lets just create a folder here as well

as you can see the folder has only one file

Add Directory - Microsoft Azure

adf-demo-3906 - Azure Data Fa: x +

portal.azure.com/#blade/Microsoft_Azure_Storage/ContainerMenuBlade/overview/storageAccountId/%2Fsubscriptions%2F34020089-b866-40bb-9d79-...

Microsoft Azure Search resources, services, and docs (G+)

Home > adfdemod12 >

input Container

Search (Ctrl+/)

Upload Add Directory Refresh Rename Delete Change tier Acquire lease Break lease

Authentication method: Access key (Switch to Azure AD User Account)

Location: input

Search blobs by prefix (case-sensitive) Show deleted objects

Name	Modified	Access tier	Archive status	Blob type	Size
emp_details.csv	5/5/2022, 11:43:40 PM	Hot (inferred)		Block blob	106 B

Add Directory

Name *

childitem

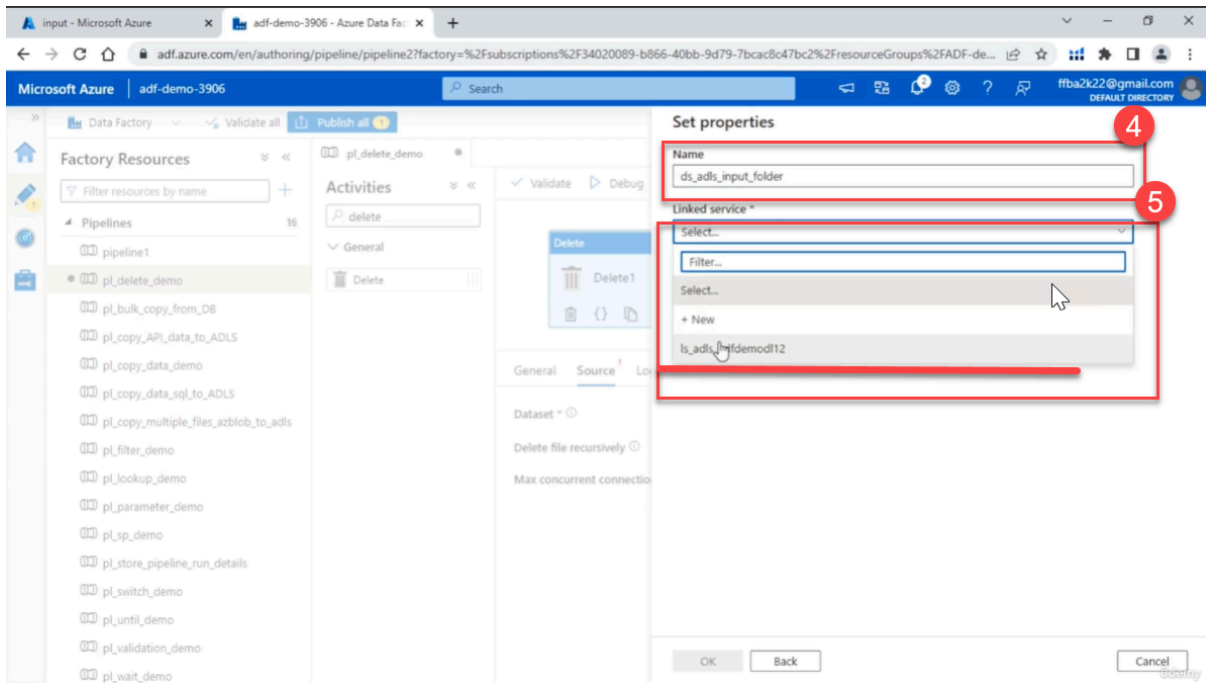
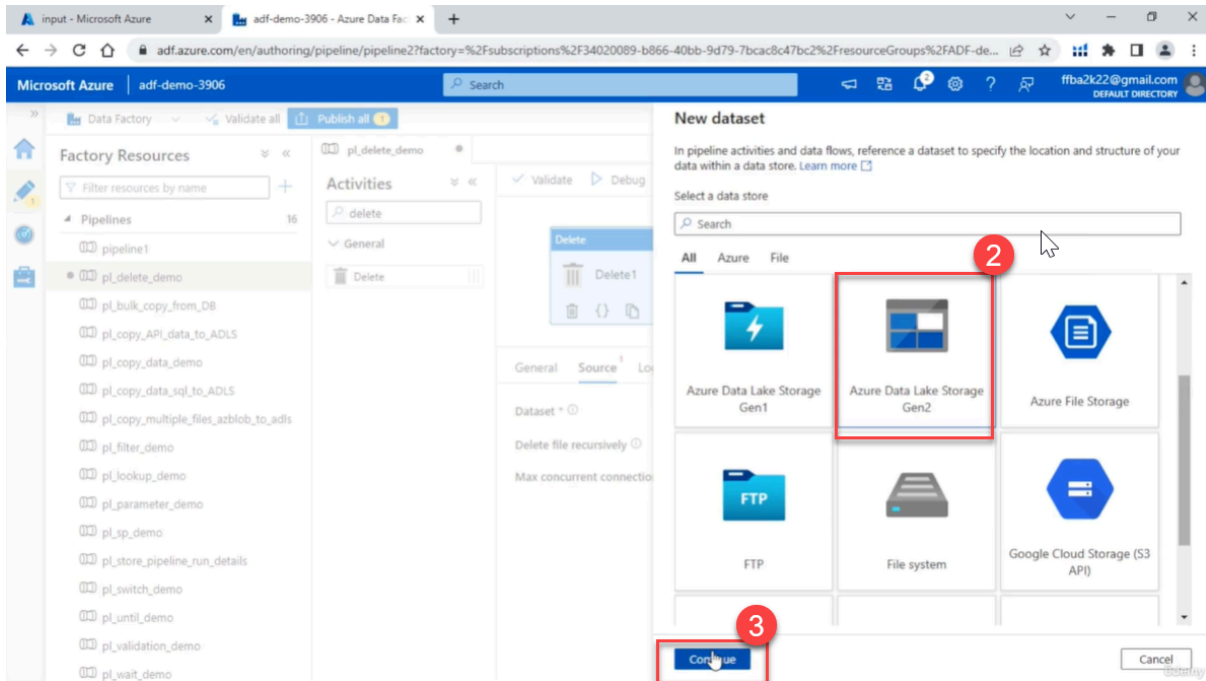
Save Cancel

the folder name we just created

Microsoft Azure Storage Explorer interface showing a container named "input". A folder named "childitem" is highlighted with a red box and a red circle with the number "1". A red arrow points from the text "here the folder has been created, we now create a dataset" to the "childitem" folder. A notification at the top right says "Successfully added directory".

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
childitem						
emp_details.csv	5/5/2022 11:43:40 PM	Hot (inferred)		Block blob	106 B	Available

Microsoft Azure Data Factory interface showing a pipeline named "pl_delete_demo". The "Delete" activity is selected, and the "Dataset" dropdown menu is open, showing a "+ New" button highlighted with a red box and a red circle with the number "1". A red arrow points from the text "we now create a dataset" to the "+ New" button.



Microsoft Azure | adf-demo-3906

Set properties

Name: ds_ads_input_folder

Linked service: ls_ads_adfdemod12

File path: File system / Directory / File

Browse

after selecting the service we now select the path

Microsoft Azure | adf-demo-3906

Browse

Select a file or folder.

Root folder

- input
- output

Showing 1 - 2 of 2 items

the path is input folder

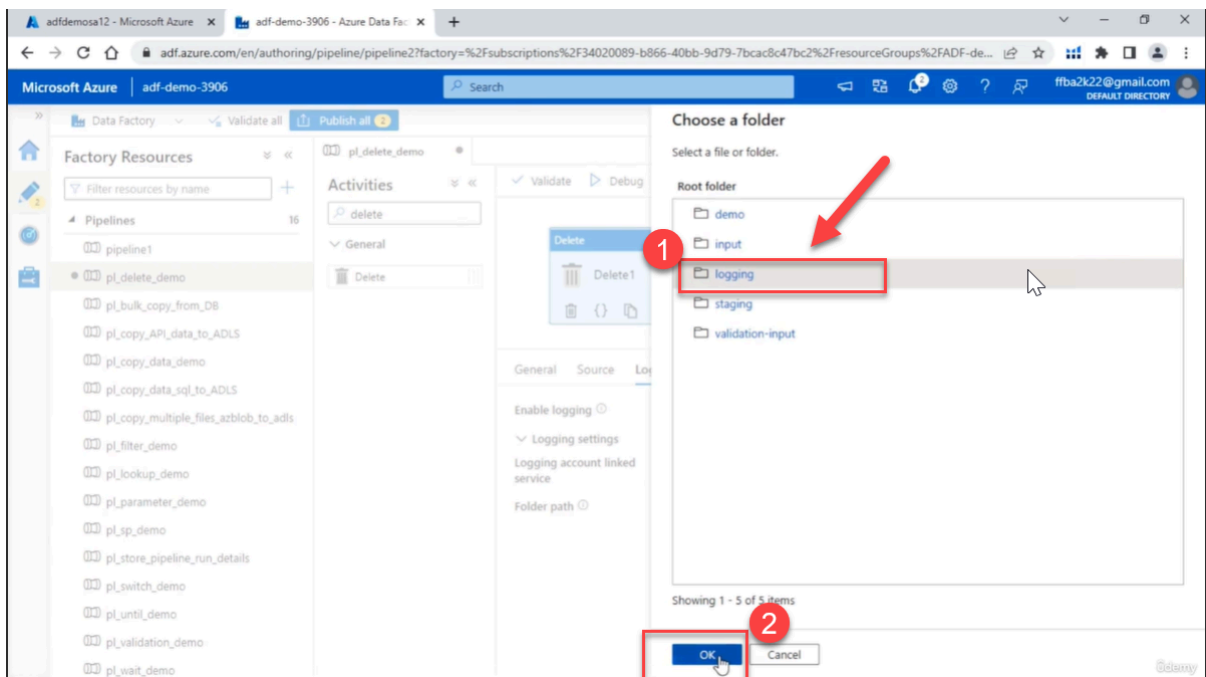
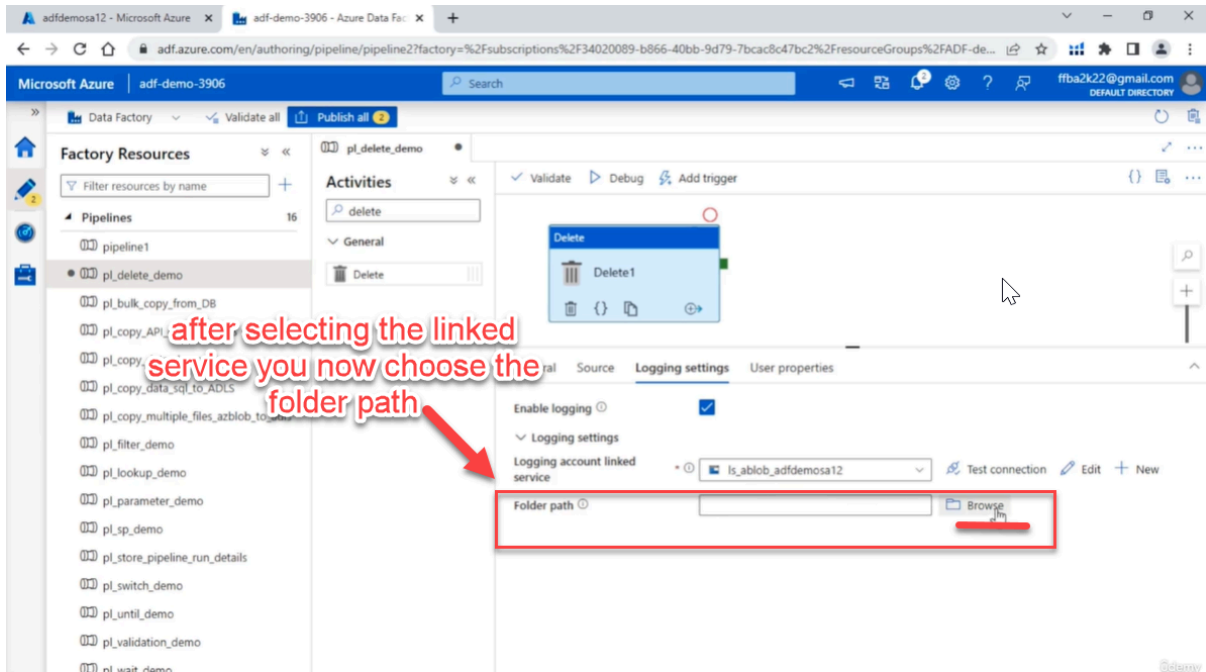
for file type we choose file path in dataset

here you can specify which dataset you want to delete

you check this to delete any folder in the targeted folder

this helps to log any file or folder we are deleting

- 1
- 2
- 3



Microsoft Azure | adf-demo-3906

Factory Resources

- Pipelines
- pl_delete_demo

Activities

- delete

General

- Delete

Logging settings

- Enable logging:
- Logging settings
- Logging account linked service: ls_ablob_adfdemosa12
- Folder path: logging

once everything is set we now run the debug

Microsoft Azure | adf-demo-3906

Factory Resources

- Pipelines
- pl_delete_demo

Activities

- delete

General

- Delete

Output

Pipeline run ID: 263a9c0f-5f97-458d-acfd-2e9352078888

Duration	Status	Integration runtime	Run ID
19:00:32990	00:00:03	Succeeded	AutoResolveIntegrationRun
			b5def63c-d53b-4290-ba...

so as you can see it ran successfully and we can actually see our Run ID

adfdemosa12 - Microsoft Azure | Containers

Storage account

Search (Ctrl+/)

Search containers by prefix

lets go to our logging once again and check

Name	Last modified	Public access level	Lease state
<input type="checkbox"/> \$logs		Private	Available
<input type="checkbox"/> demo	4/29/2022, 12:49:06 AM	Private	Available
<input type="checkbox"/> input	5/2/2022, 12:55:16 AM	Private	Available
<input type="checkbox"/> logging	5/2/2022, 1:39:18 AM	Private	Available
<input type="checkbox"/> staging	5/2/2022, 10:14:21 PM	Private	Available
<input type="checkbox"/> validation-input	5/5/2022, 12:11:44 AM	Private	Available

1

2

3

logging - Microsoft Azure | Container

Authentication method: Access key (Switch to Azure AD User Account)

Location: logging

Search blobs by prefix (case-sensitive)

so here is the folder with our run ID

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
<input type="checkbox"/> 96703266-68c1-4125...						...
<input type="checkbox"/> b5def69c-d53b-4290...						...
<input type="checkbox"/> copyactivity-logs						...
<input type="checkbox"/> dd28266f-06f5-4047...						...

Microsoft Azure portal showing the 'logging' container overview. The authentication method is 'Access key' and the location is 'logging / b5def63c-d53b-4290-bafd-a53a3db319d9'. A table lists blobs, with one highlighted in red:

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
123f6eb1-46c0-4d4d...	5/5/2022, 11:49:01 PM	Hot (Inferred)		Block blob	49 B	Available

so here is the logging dataset

Microsoft Azure portal showing the 'logging' container overview. The authentication method is 'Access key' and the location is 'logging / b5def63c-d53b-4290-bafd-a53a3db319d9'. A table lists blobs, with one highlighted in red:

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
123f6eb1-46c0-4d4d-91c9-02...						

as you can see the input file has been deleted

1/4/2024 jeudi

adfdemod12 | Containers

Storage account

Search containers by prefix

Name	Last modified	Public access level	Lease state
<input type="checkbox"/> Slogs	4/29/2022, 1:32:29 AM	Private	Available
<input type="checkbox"/> output	5/2/2022, 10:15:39 PM	Private	Available

so as you can see here there is no input storage here which means it has been deleted

adf-demo-3906

Factory Resources

- 1. swit
- 2. pl_switch_demo
- 3. pl_switch_demo

Activities

Switch

Switch1

- Default 1 activities
- IND 1 activities
- USA 1 activities

Parameters

Name	Type	Default value
<input type="checkbox"/> country_name	String	Value

in order to proceed with the fail activity we shall be using a previous pipeline which is the switch activity

so here imagine we want to get either IND or USA but we dont want any default responds but instead make te pipeline to fail automatically . so we start by editing the default

1

Name	Type	Default value
country_name	String	Value

next you delete the wait activity and search for fail activity and you replace it

2

Name: Default case activity

Description:

Microsoft Azure | adf-demo-3906

Factory Resources

- Pipelines
- pl_switch_demo
- Datasets
- Data flows
- Power Query

Activities

- fail
- Fail

Fail

Fail1

General Settings User properties

Fail message *

Error code *

in the settings here you can include the message to be displayed after the process fails

here you can attribute an error code for error that may occur in any process

3

Microsoft Azure | adf-demo-3906

Factory Resources

- Pipelines
- pl_switch_demo
- Datasets
- Data flows
- Power Query

Activities

- fail
- Fail

Fail

Fail1

General Settings User properties

Fail message *

Error code *

here is how you can represent the data

Microsoft Azure | adf-demo-3906

Factory Resources

- Pipelines: 1
 - pl_switch_demo
- Datasets: 0
- Data flows: 0
- Power Query: 0

Activities

- fail

General

- Fail

Switch

- Switch1
 - Default: 1 activities
 - IND: 1 activities
 - USA: 1 activities

General | Activities (3) | User properties

Name * [Learn more](#)

Description

Trigger debug run of the current pipeline

once everything is set we can now debug it

Microsoft Azure | adf-demo-3906

Factory Resources

- Pipelines: 1
 - pl_switch_demo
- Datasets: 0
- Data flows: 0
- Power Query: 0

Activities

- fail

General

- Fail

Pipeline run

Parameters

Name	Type	Value
country_name	string	<input type="text" value="FR"/>

1

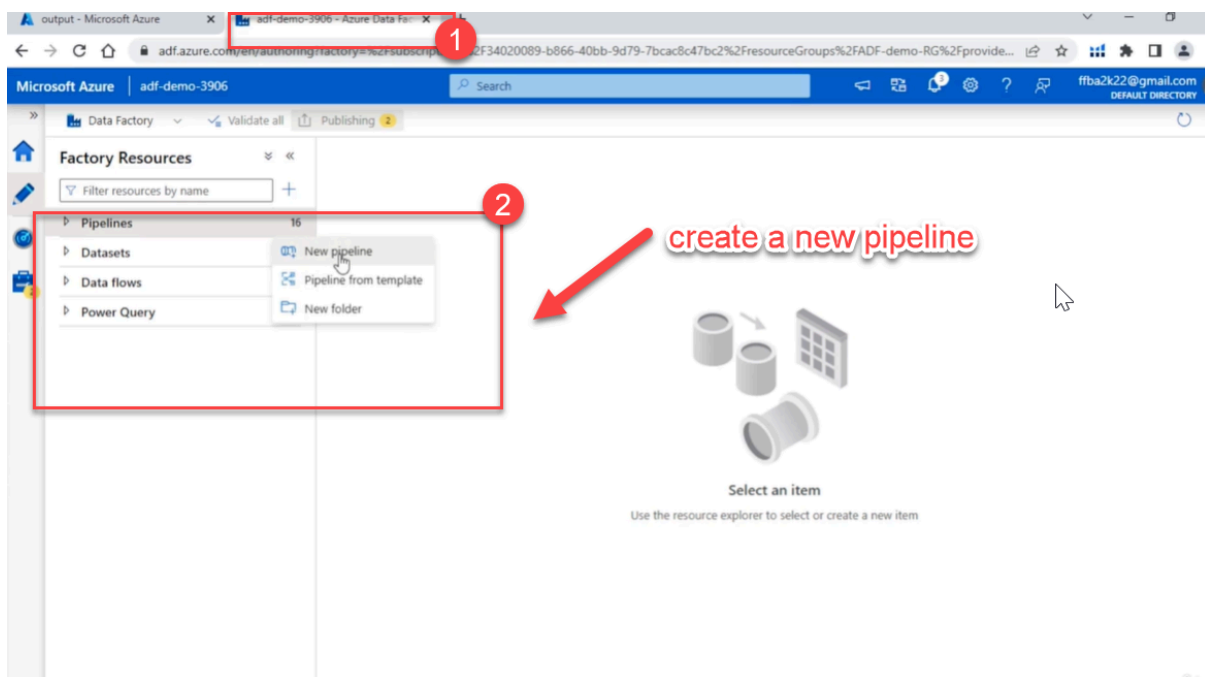
so here lets test the activity and input a wrong country value . lets use france 'FR'

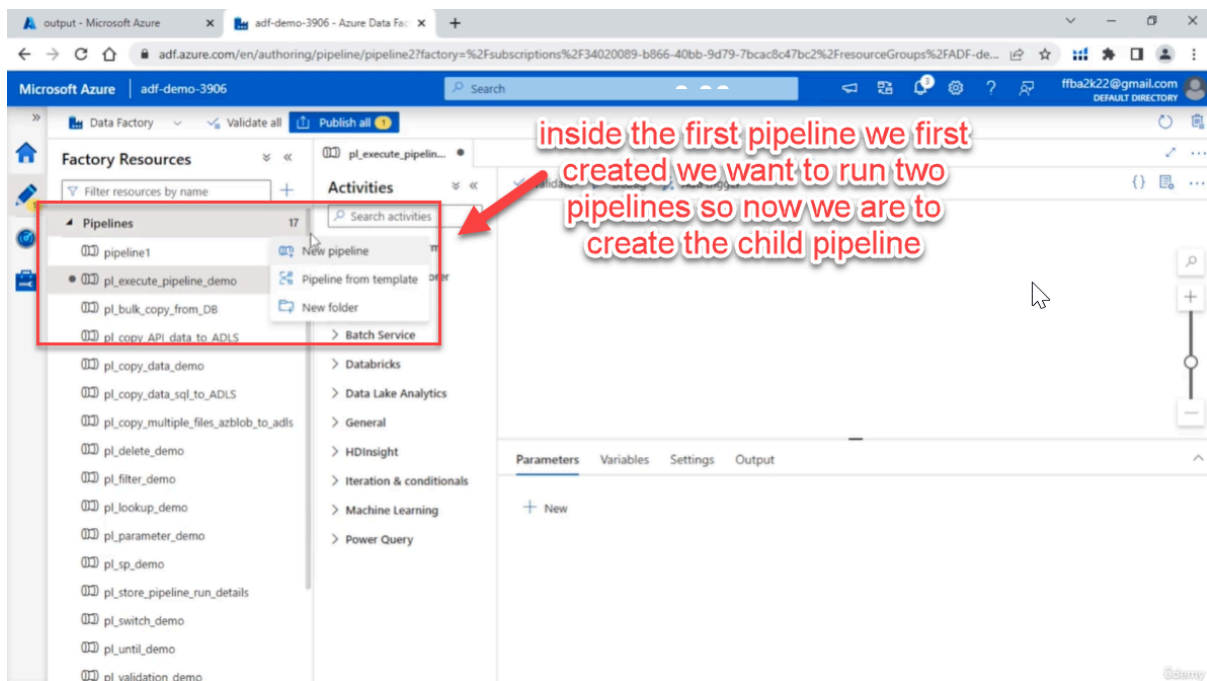
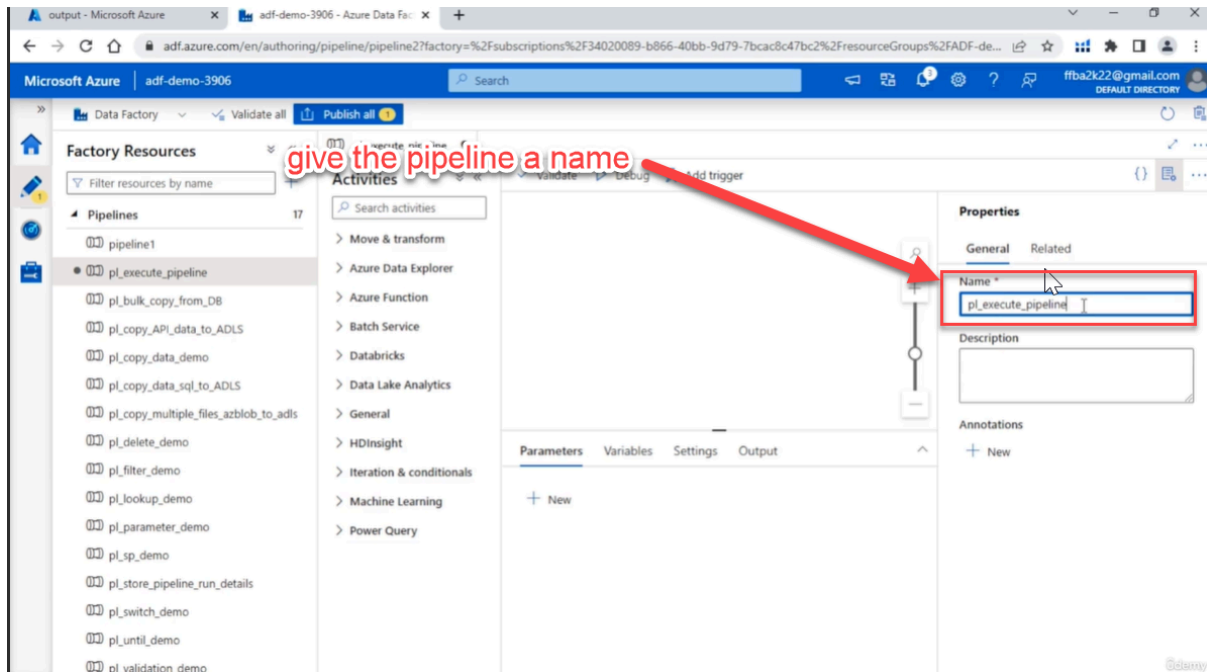
2

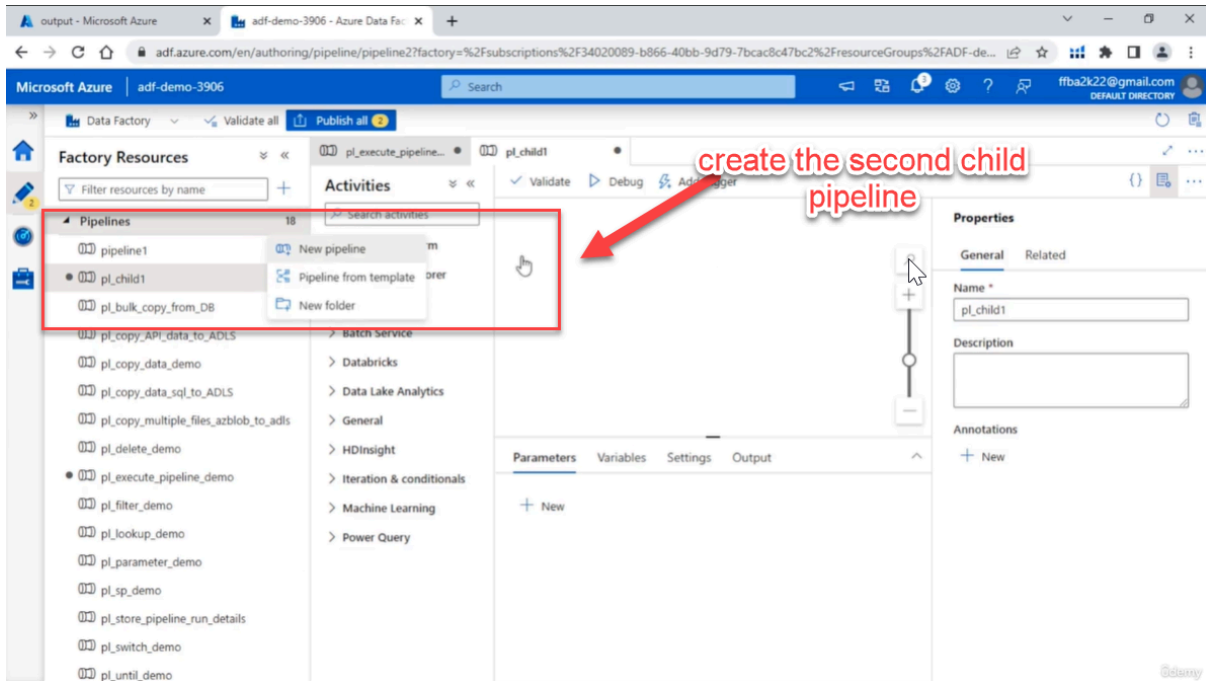
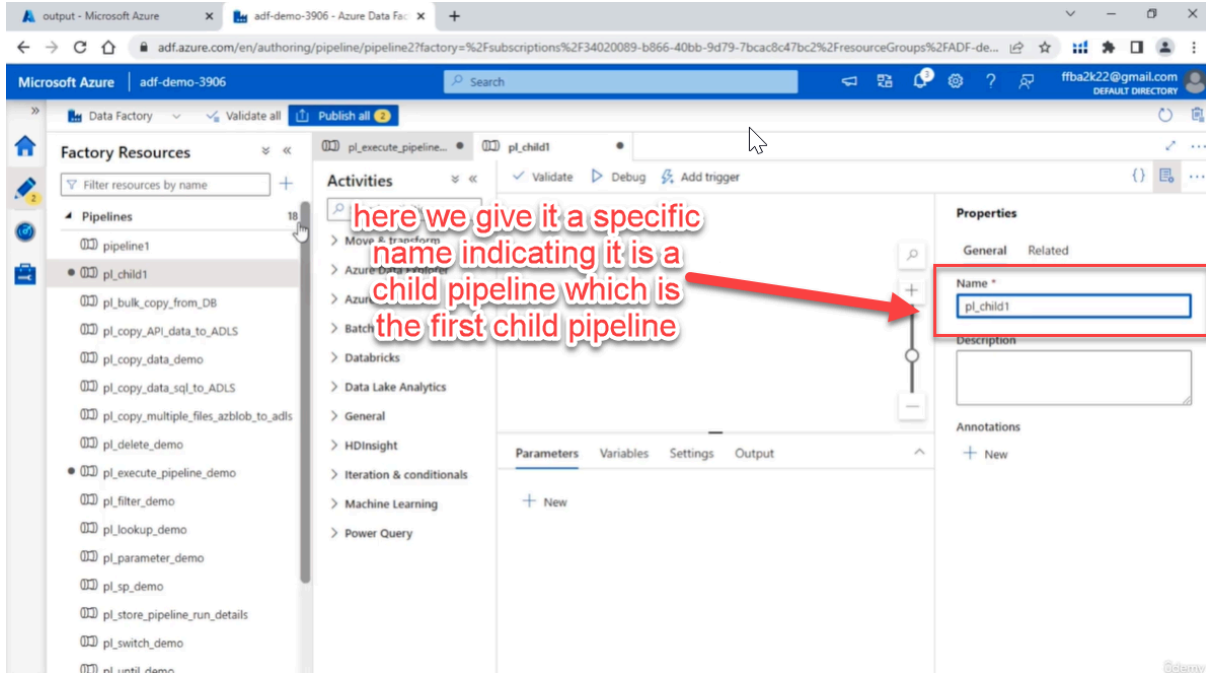
OK Cancel

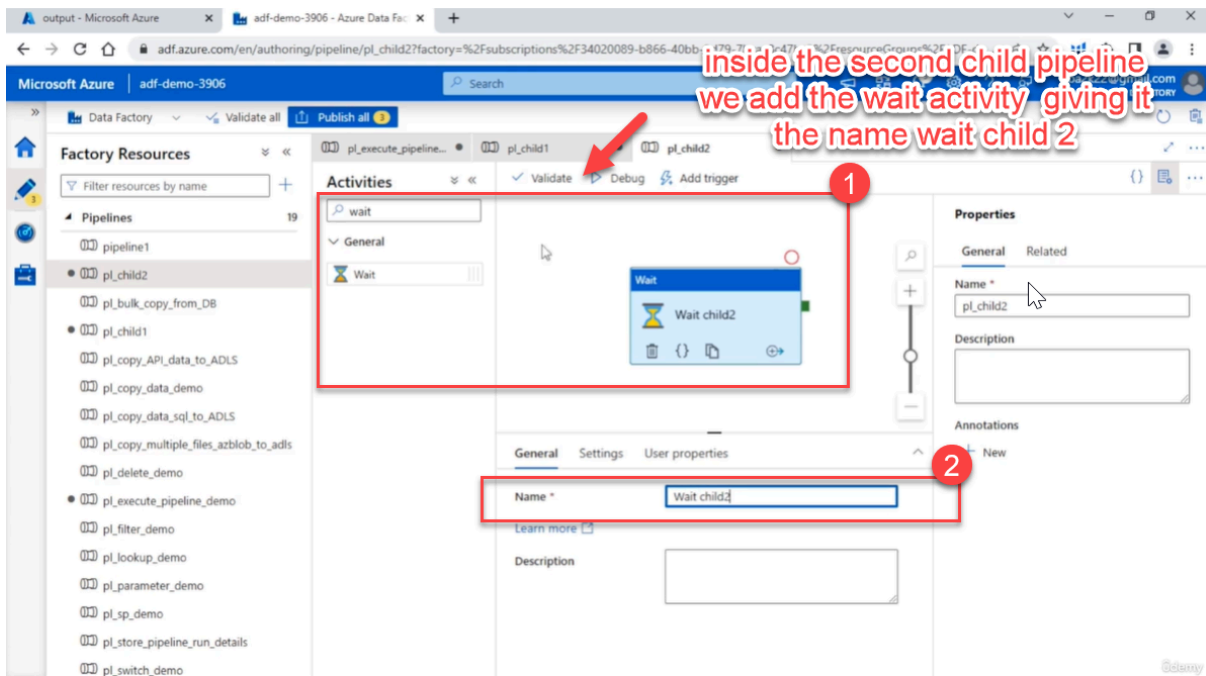
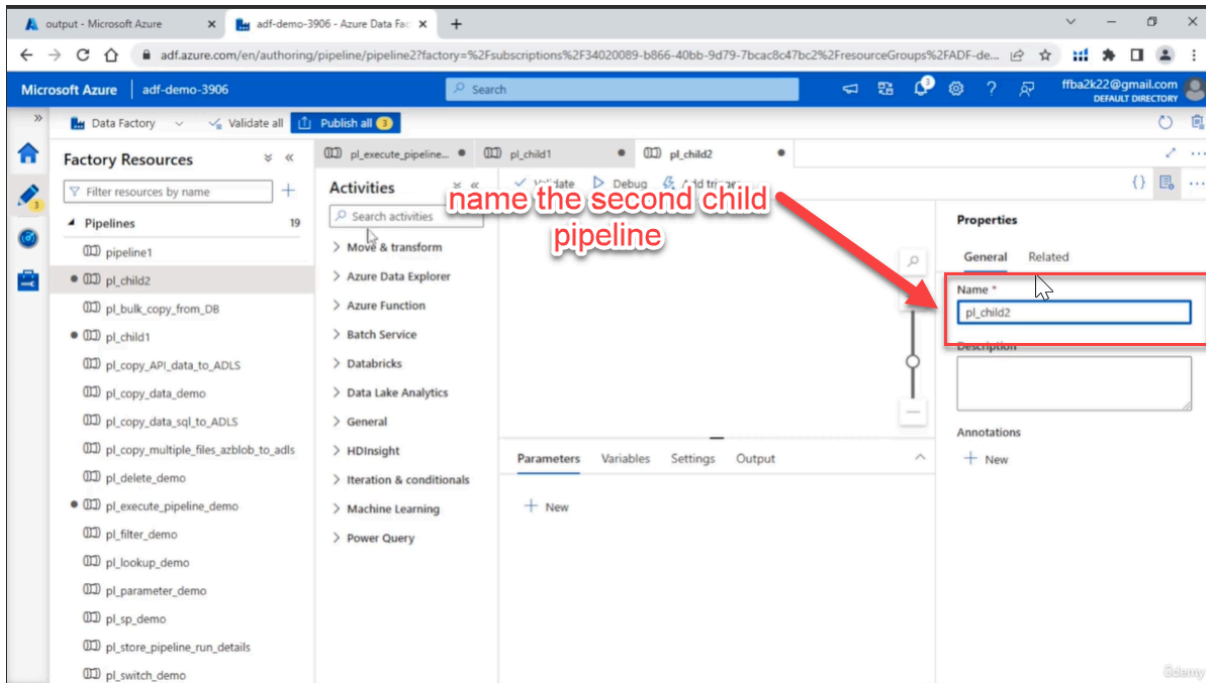
Execute Pipeline

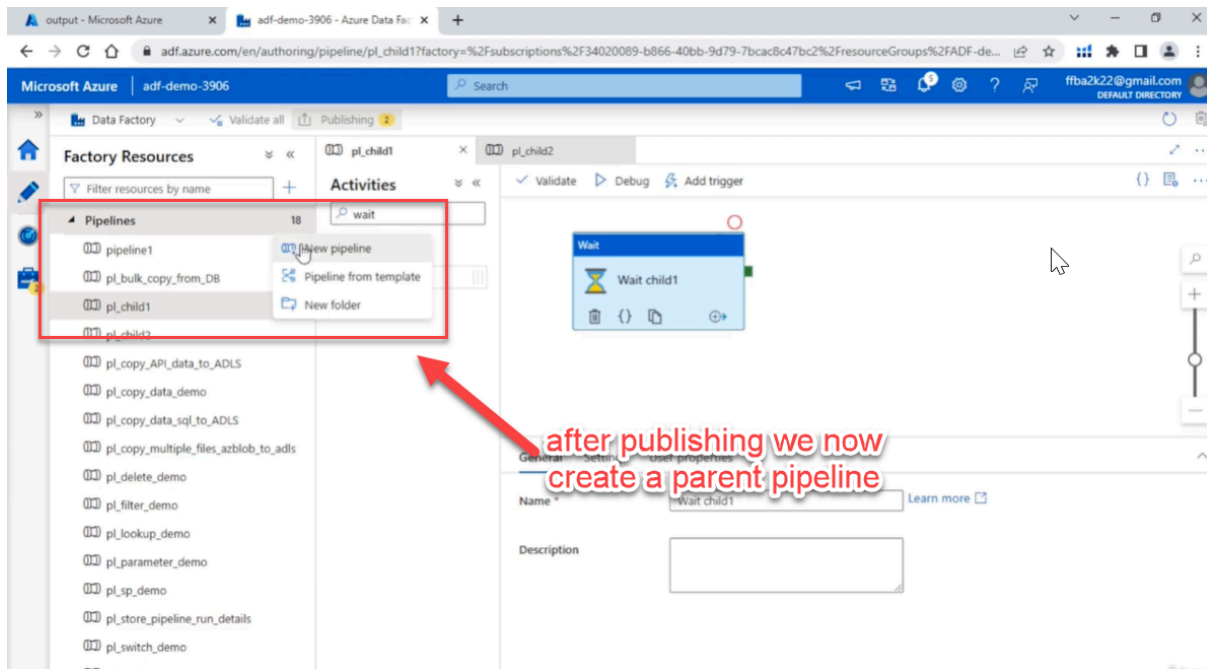
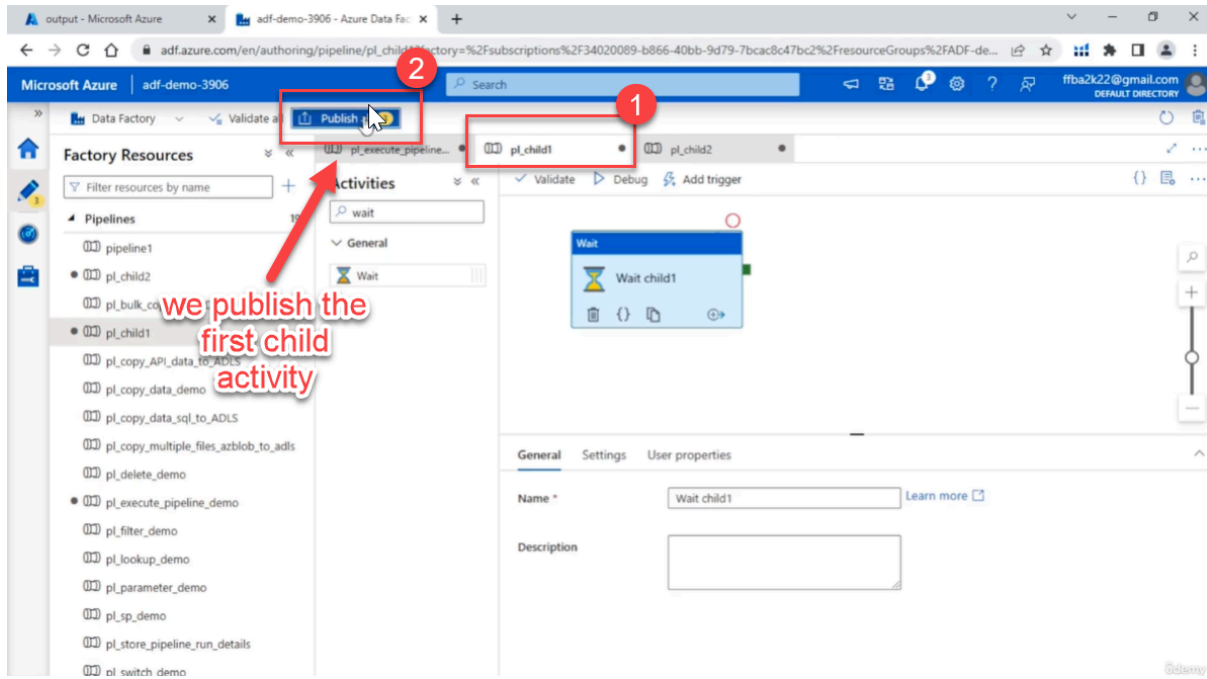
The Execute Pipeline activity allows a Data Factory pipeline to invoke another pipeline.



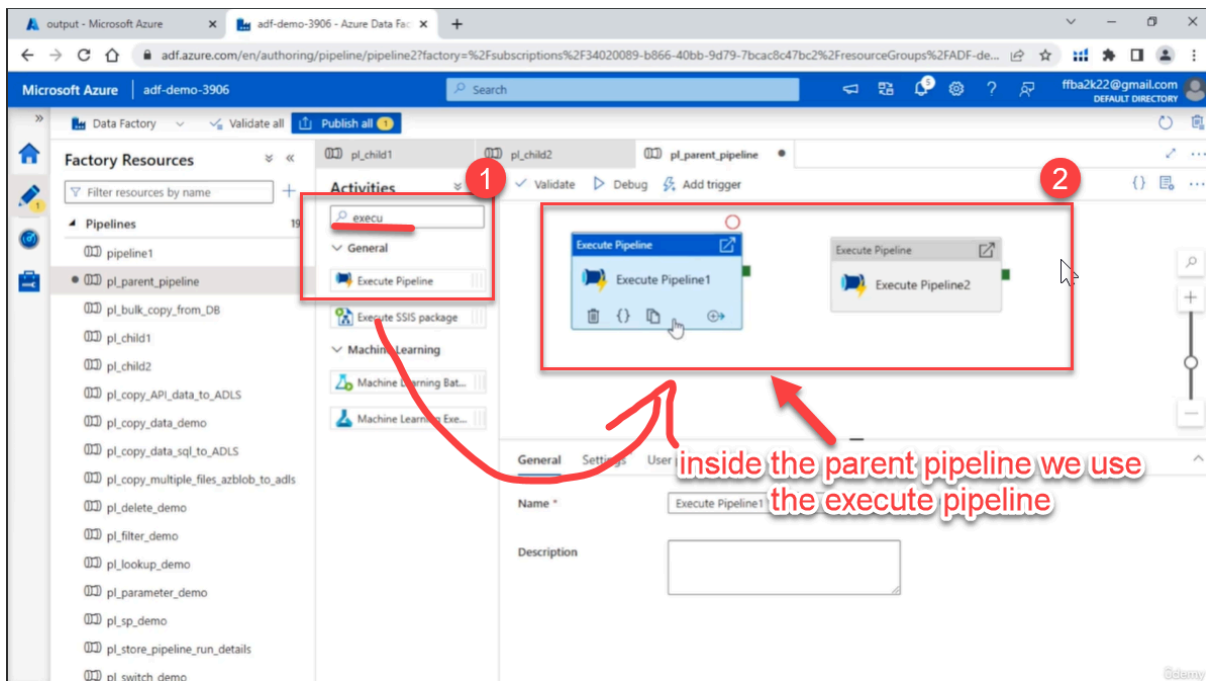
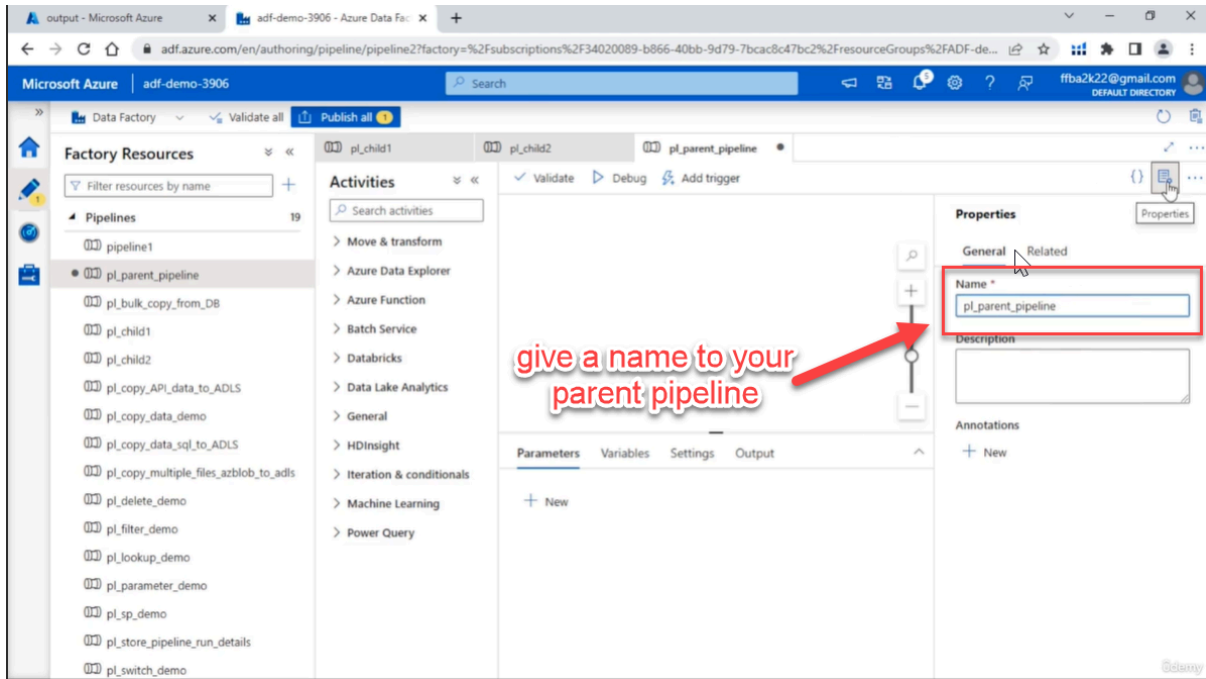








Vérifié le Samedi 6 janvier 2024 à 20h06 par yvonne



Microsoft Azure | adf-demo-3906

Factory Resources

- Pipelines
- pl_parent_pipeline
- pl_bulk_copy_from_DB
- pl_child1
- pl_child2
- pl_copy_API_data_to_ADLS
- pl_copy_data_demo
- pl_copy_data_sql_to_ADLS
- pl_copy_multiple_files_azblob_to_ads
- pl_delete_demo
- pl_filter_demo
- pl_lookup_demo
- pl_parameter_demo
- pl_sp_demo
- pl_store_pipeline_run_details
- pl_switch_demo

Activities

- General
- Execute Pipeline
- Execute SSIS package
- Machine Learning
- Machine Learning Bat...
- Machine Learning Exe...

Execute Pipeline

Execute Pipeline 1

Execute Pipeline 2

Settings

Invoked pipeline * pl_child1

Wait on completion

check this to permit this pipeline to terminate before the other pipeline starts

Microsoft Azure | adf-demo-3906

Factory Resources

- Pipelines
- pl_parent_pipeline
- pl_bulk_copy_from_DB
- pl_child1
- pl_child2
- pl_copy_API_data_to_ADLS
- pl_copy_data_demo
- pl_copy_data_sql_to_ADLS
- pl_copy_multiple_files_azblob_to_ads
- pl_delete_demo
- pl_filter_demo
- pl_lookup_demo
- pl_parameter_demo
- pl_sp_demo
- pl_store_pipeline_run_details
- pl_switch_demo

Activities

- General
- Execute Pipeline
- Execute SSIS package
- Machine Learning
- Machine Learning Bat...
- Machine Learning Exe...

Execute Pipeline

Execute Pipeline 1

Execute Pipeline 2

Settings

Invoked pipeline * pl_child2

Wait on completion

connect the two pipelines and configure the setting

Microsoft Azure | adf-demo-3906

Factory Resources

- Pipelines
- pl_parent_pipeline
- pl_bulk_copy_from_DB
- pl_child1
- pl_child2
- pl_copy_API_data_to_ADLS
- pl_copy_data_demo
- pl_copy_data_sql_to_ADLS
- pl_copy_multiple_files_azblob_to_adls
- pl_delete_demo
- pl_filter_demo
- pl_lookup_demo
- pl_parameter_demo
- pl_sp_demo
- pl_store_pipeline_run_details
- pl_switch_demo

Activities

- General
- Execute Pipeline
- Execute SSIS package
- Machine Learning
- Machine Learning Bat...
- Machine Learning Exe...

Execute Pipeline1 → Execute Pipeline2

Debug

Pipeline run ID: 954c783d-3ed2-4399-876d-1fdac12c2233

Name	Type	Run start	Duration	Status
Execute Pipeline2	Execute Pipeline	2022-05-05T18:27:07.5	00:00:04	Succeeded
Execute Pipeline1	Execute Pipeline	2022-05-05T18:27:04.1	00:00:04	Succeeded

successful debug

Microsoft Azure | adf-demo-3906

Factory Resources

- Pipelines
- pl_parent_pipeline
- pl_bulk_copy_from_DB
- pl_child1
- pl_child2
- pl_copy_API_data_to_ADLS
- pl_copy_data_demo
- pl_copy_data_sql_to_ADLS
- pl_copy_multiple_files_azblob_to_adls
- pl_delete_demo
- pl_filter_demo
- pl_lookup_demo
- pl_parameter_demo
- pl_sp_demo
- pl_store_pipeline_run_details
- pl_switch_demo

Activities

- General
- Execute Pipeline
- Execute SSIS package
- Machine Learning
- Machine Learning Exe...

Execute Pipeline1 → Execute Pipeline2

click here to view the output

Pipeline run ID: 954c783d-3ed2-4399-876d-1fdac12c2233

Name	Type	Run start	Duration	Status
Execute Pipeline2	Execute Pipeline	2022-05-05T18:27:07.5	00:00:04	Succeeded
Execute Pipeline1	Execute Pipeline	2022-05-05T18:27:04.1	00:00:04	Succeeded

the pipeline name and the pipeline ID are different which is a good news

Name	Value
pipelineRunId	937c4950-87a5-441e-bac3...
pipelineName	pl_child2

Activity	Start	Duration	Status
Execute Pipeline2	2022-05-05T18:27:07.5	00:00:04	Succeeded
Execute Pipeline1	2022-05-05T18:27:04.1	00:00:04	Succeeded

DataFlow activity

Use the Data Flow activity to transform and move data via mapping data flows.

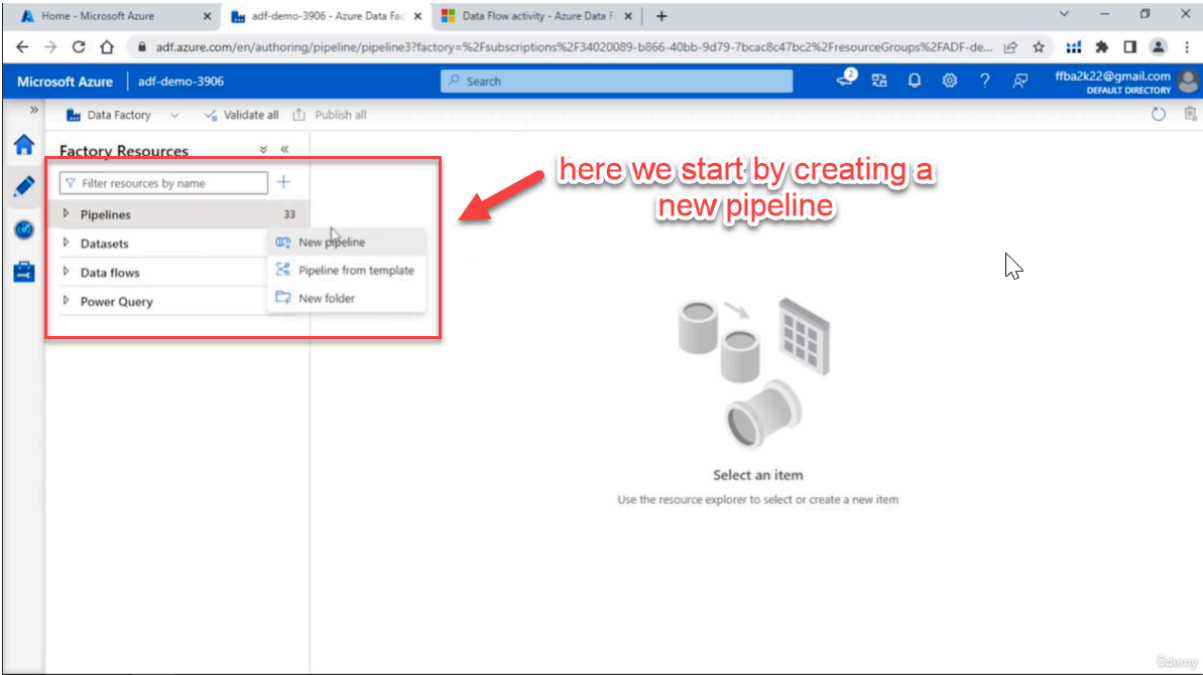
<https://docs.microsoft.com/en-us/azure/data-factory/control-flow-execute-data-flow-activity>

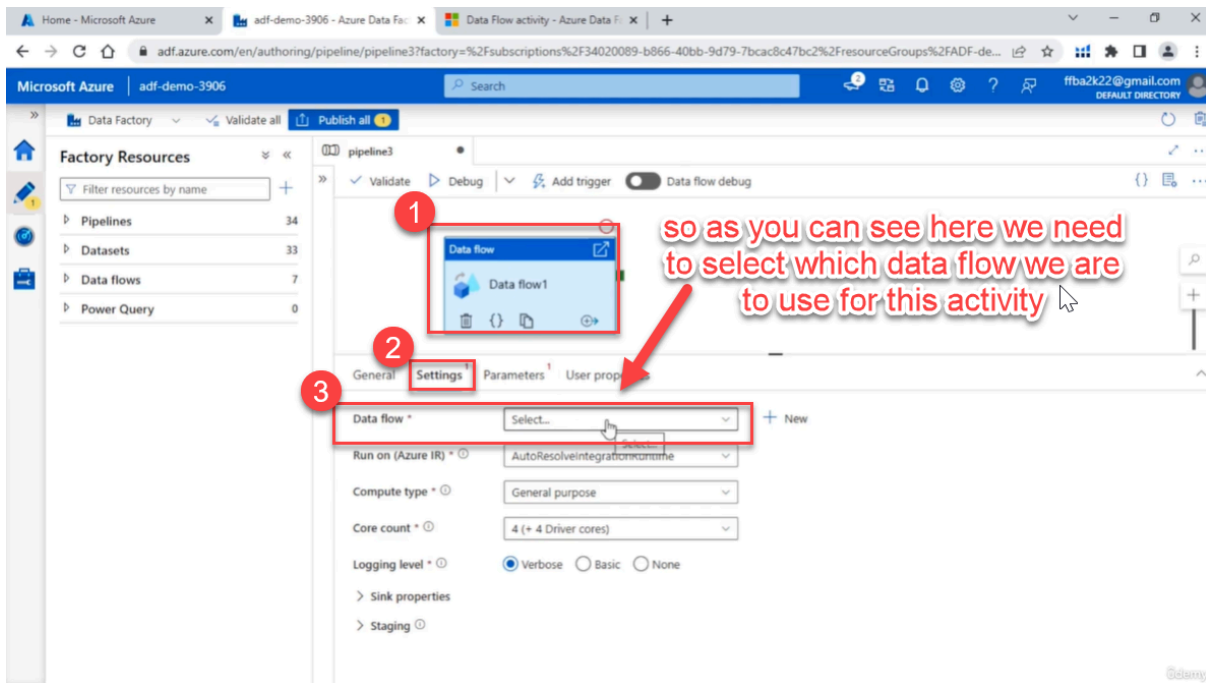
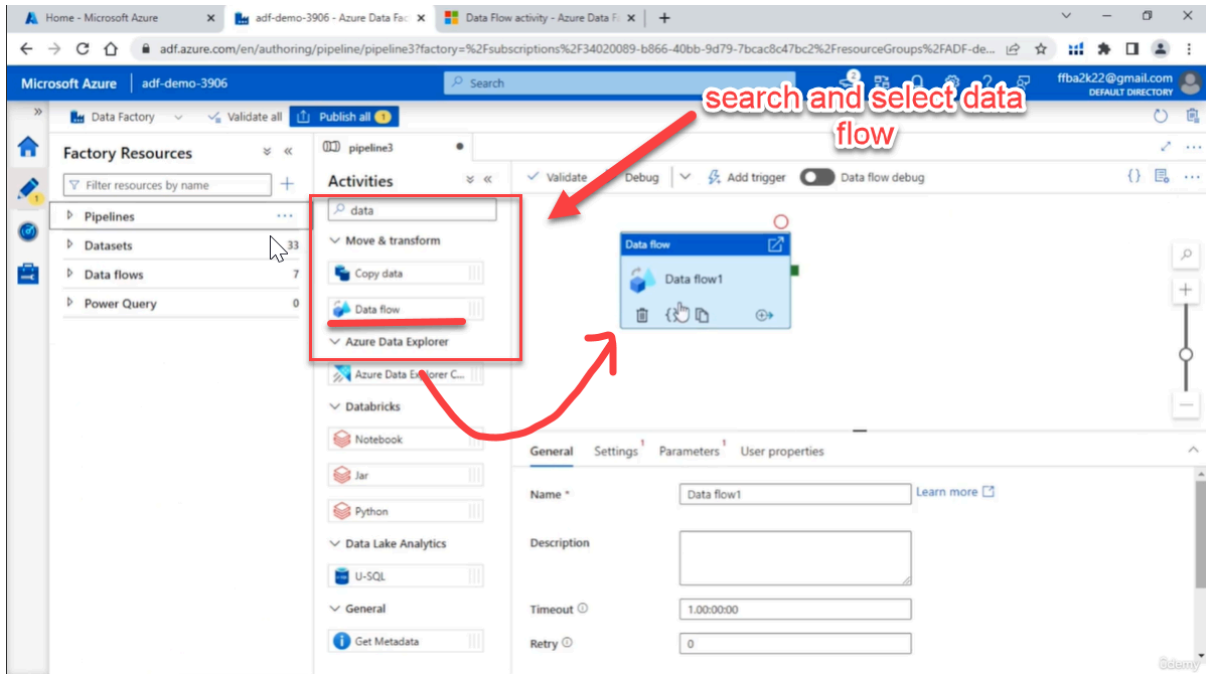
Use the Data Flow activity to transform and move data via mapping data flows.

this is just a way to transform
your data



<https://docs.microsoft.com/en-us/azure/data-factory/control-flow-execute-data-flow-activity>





so here we just select an existing data flow we had created

Factory Resources

- Pipelines
- Datasets
- Data flows
- Power Query

Data flow activity: Data flow1

Settings

Run on (Azure IR) * [Select...]

Compute type * [Filter...]

Core count * [Select...]

Logging level * [Select...]

Sink properties

Staging

df_demo

df_2

df_3

df_1

scd2_insert_current_data

here we can set the integration run time and we can create a new one too

Factory Resources

- Pipelines 34
- Datasets 33
- Data flows 7
- Power Query 0

Data flow activity: Data flow1

Settings

Run on (Azure IR) * [AutoResolveIntegrationRuntime]

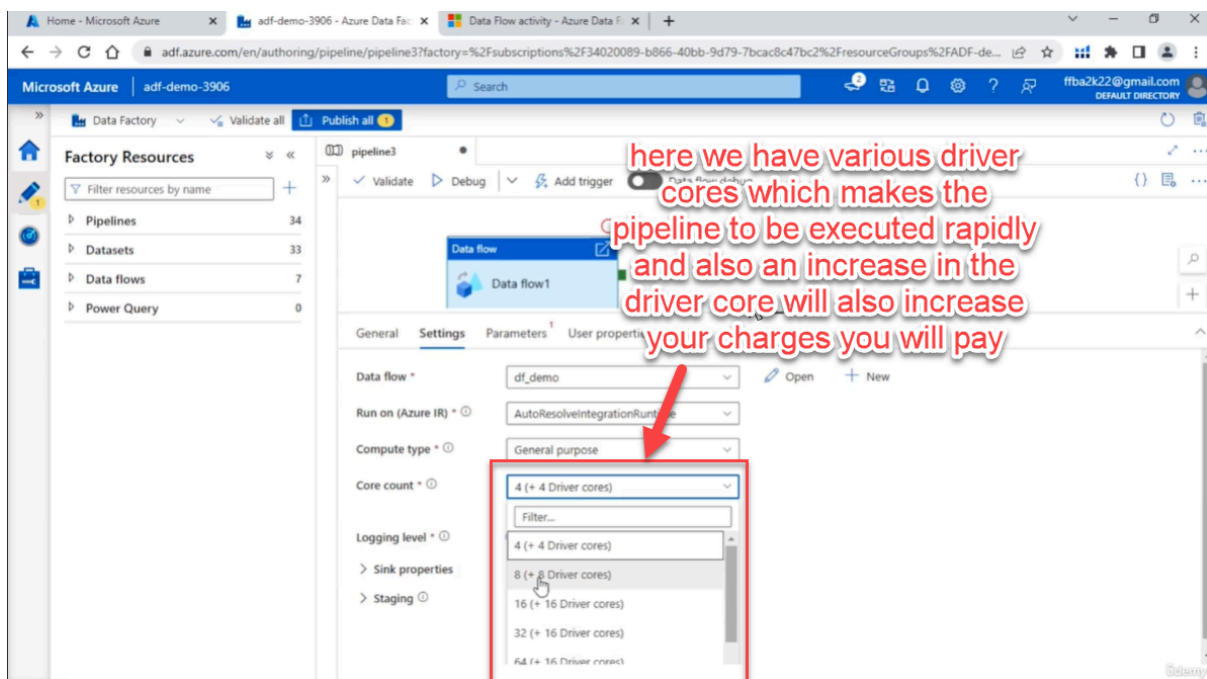
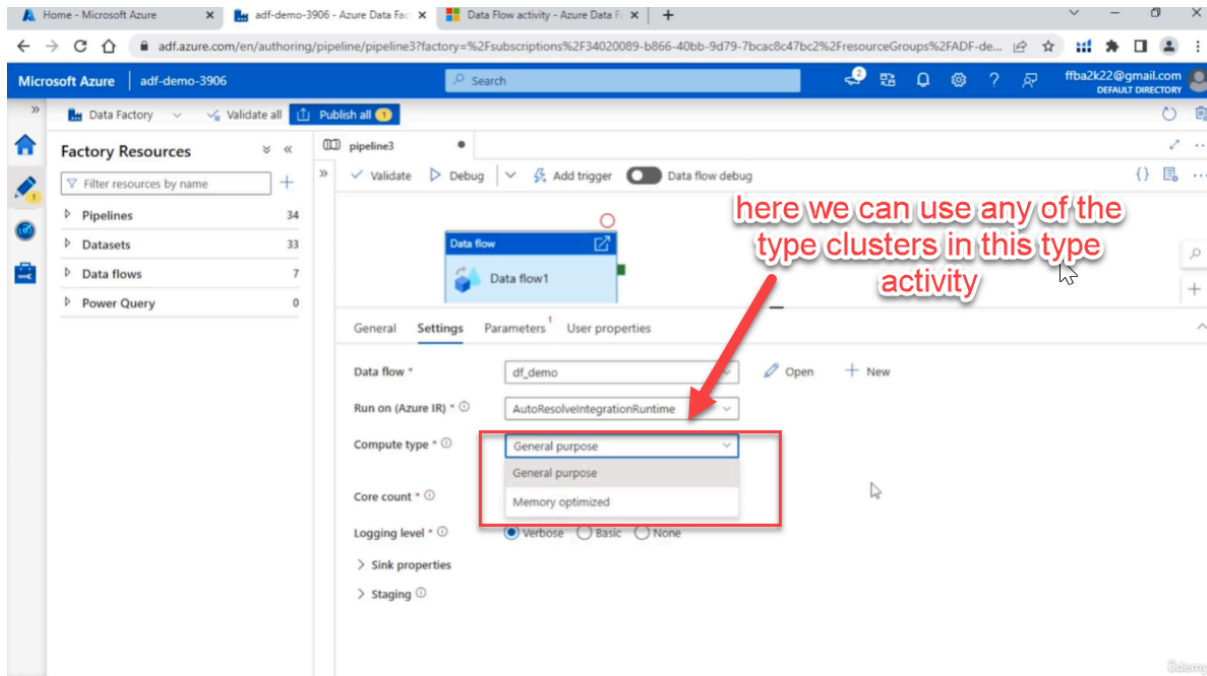
Compute type * [+ New]

Core count * [AutoResolveIntegrationRuntime (+ 4 Umrver cores)]

Logging level * [Verbose] [Basic] [None]

Sink properties

Staging



here is the login-level and verbose means it has already been elaborated

here is you wish to run it parallel you click here

here the demo file we choose is not having any parameter so any parameter that is created externally can be thrown here and we can pass the values from here

here we saw user properties in copy activities in the our previous note which can be seen as user defined properties which we can use to monitor our runs