

Building Blocks of ADF

- Pipelines
- Activities
- Dataset
- Linked Services
- Triggers
- Interconnection of above components

Quelques blocks de ADF: Pipelines- activities - dataset - linked services- triggers- interconnection of above components.

16. PIPELINES

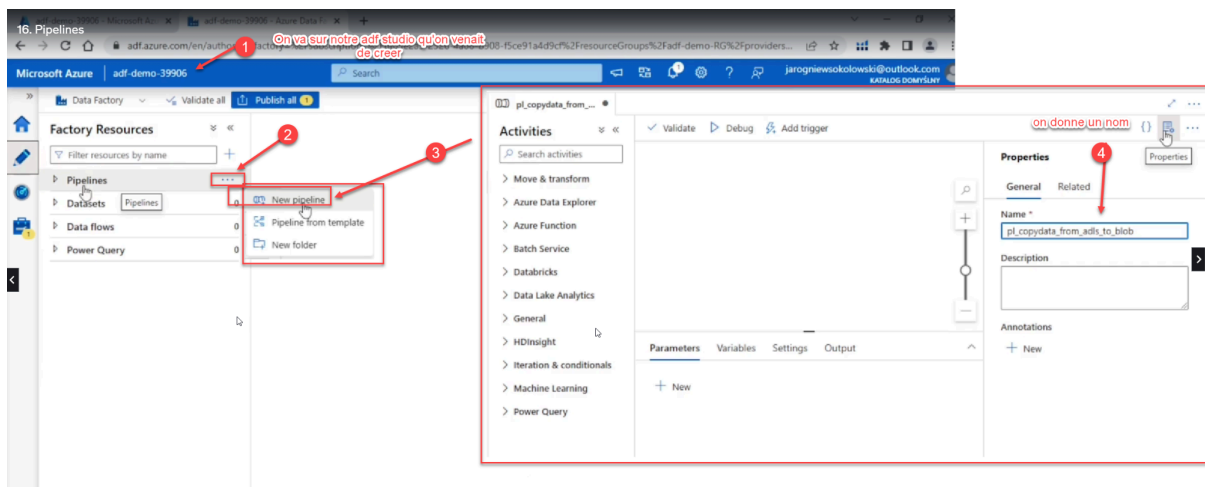
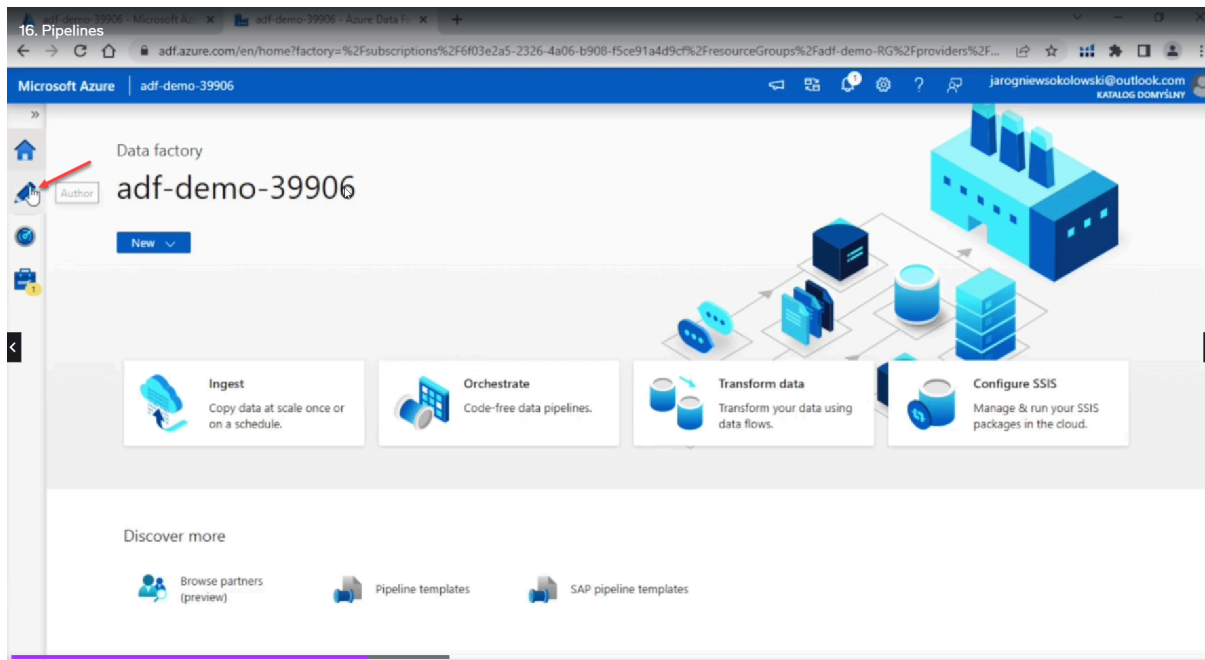
Pipelines

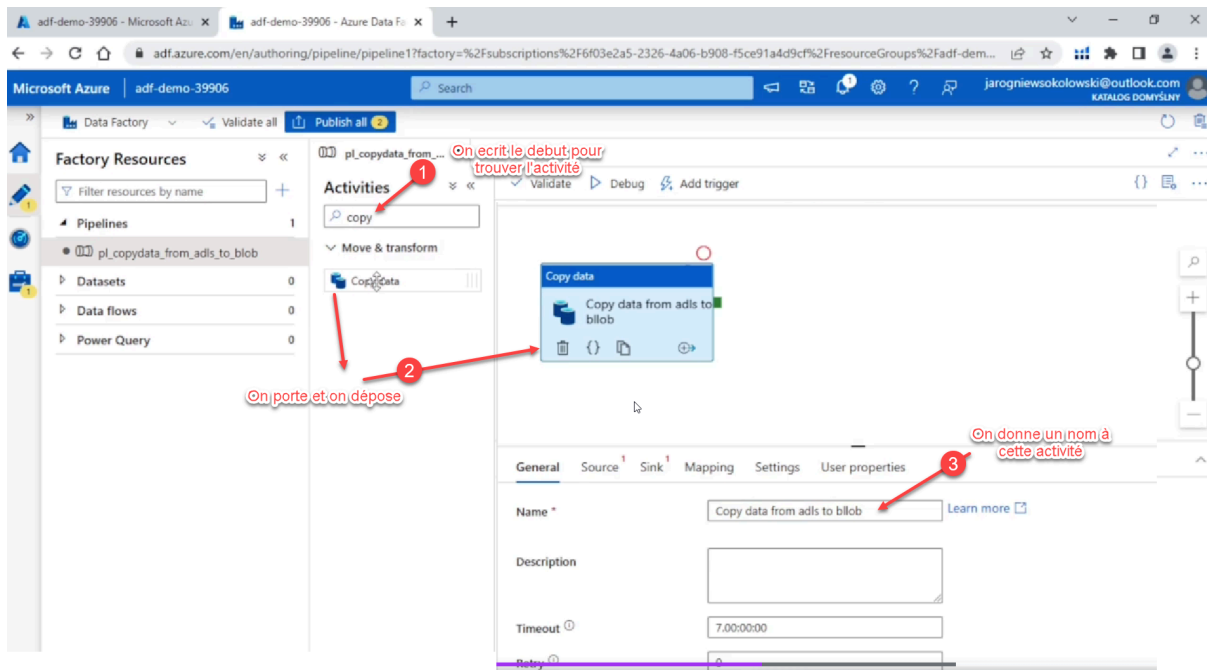
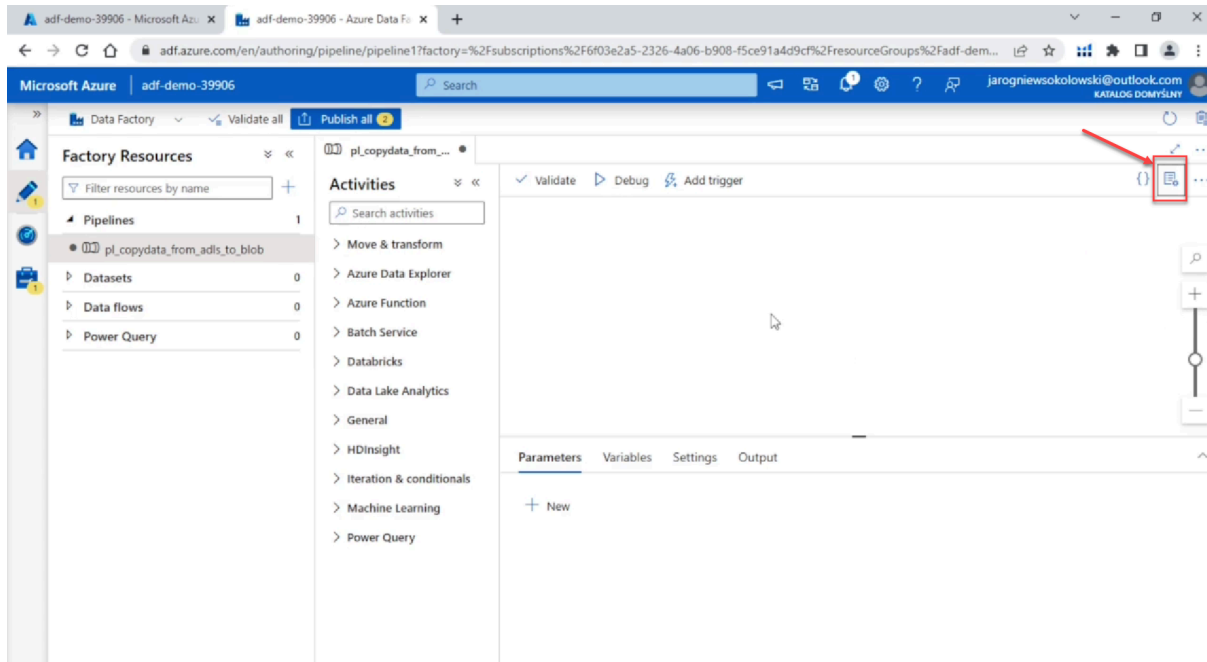
- A pipeline is a **logical grouping of activities** that performs a unit of work.
- Together, the activities in a pipeline perform a task.

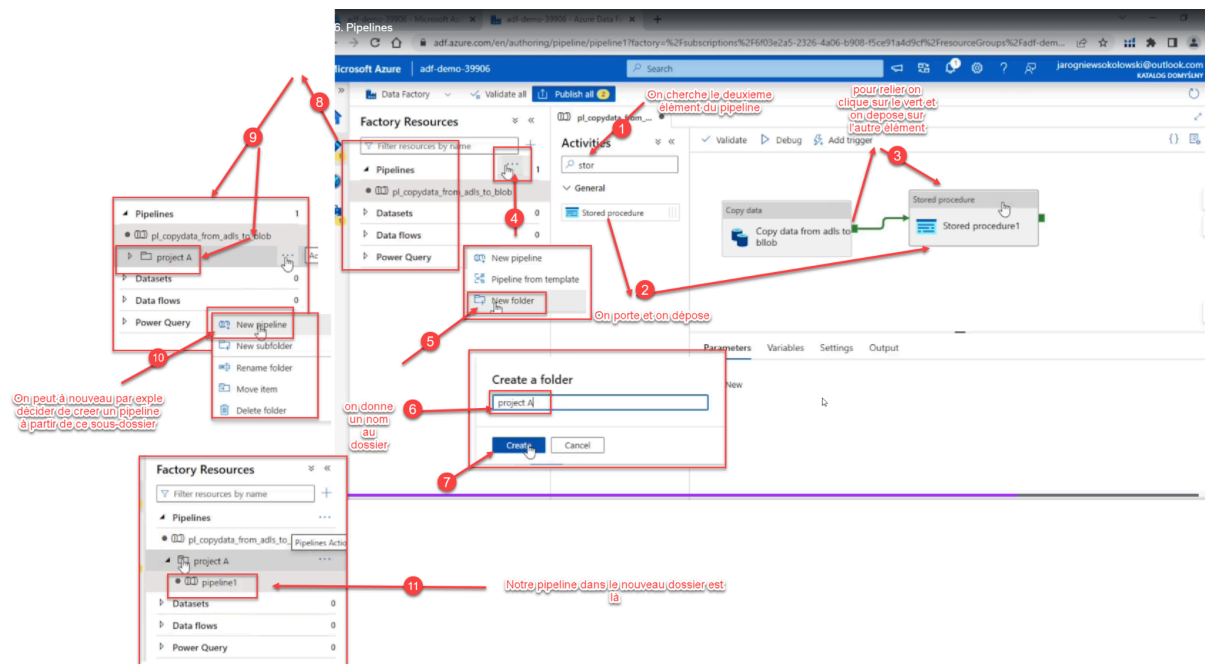
Example:

A pipeline can contain group of activities that ingest data from data lake storage to Azure Blob storage and then store the ingestion details inside a SQL DB.

<https://adf.azure.com/fr/home?factory=%2Fsubscriptions%2F2f2e491e-119e-4c0b-86bc-c71c2010e430%2FresourceGroups%2Frg-cari-dev%2Fproviders%2FMicrosoft.DataFactory%2Ffactories%2Fadf-cari-dev>







17-Activities

Activities

- An activity represent an elementary or atomic processing step in a pipeline.

Example:

Use a copy activity to copy data from one data store to another data store.

17. Activities

Microsoft Azure | adf-demo-3906

Factory Resources

- Pipelines: 29
- Datasets: 27
- Data flows: 1
- Power Query: 0

Activities

Search activities

On va commencer avec la première simple activité qui est 'move & transform'

On peut écrire ici le nom de l'activité qu'on veut (copy data par exemple) et puis faire un drag and drop

On fait un drag and drop

Copy data

Copy data1

Source dataset *

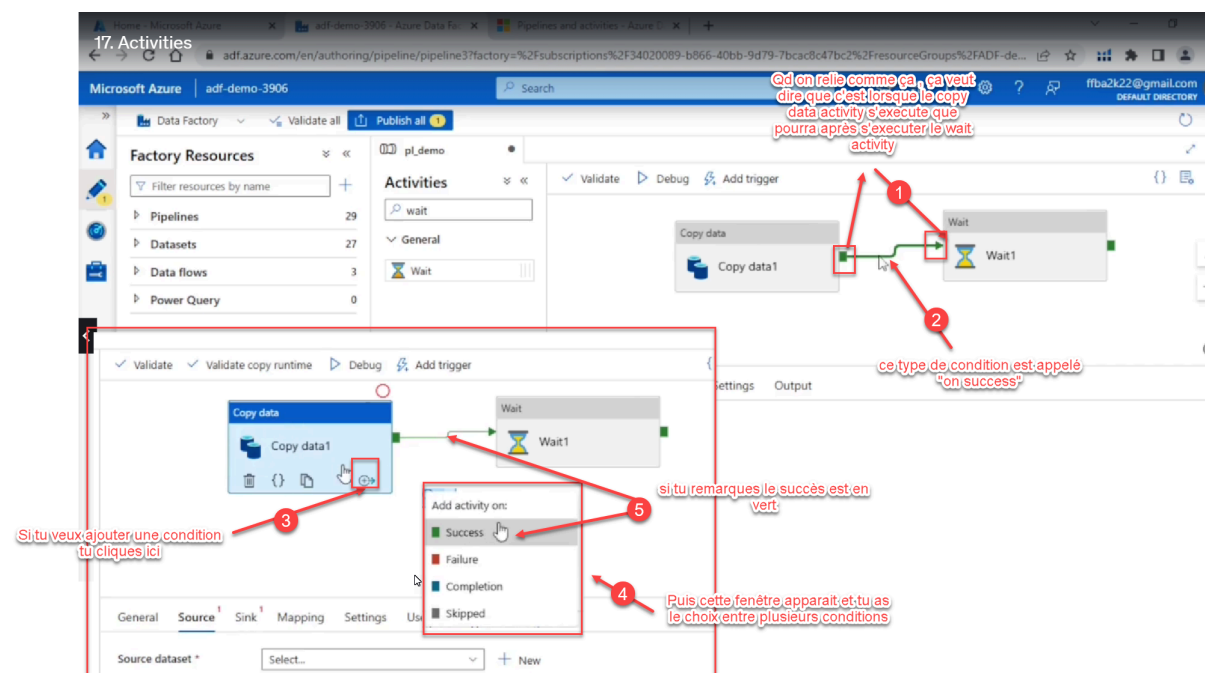
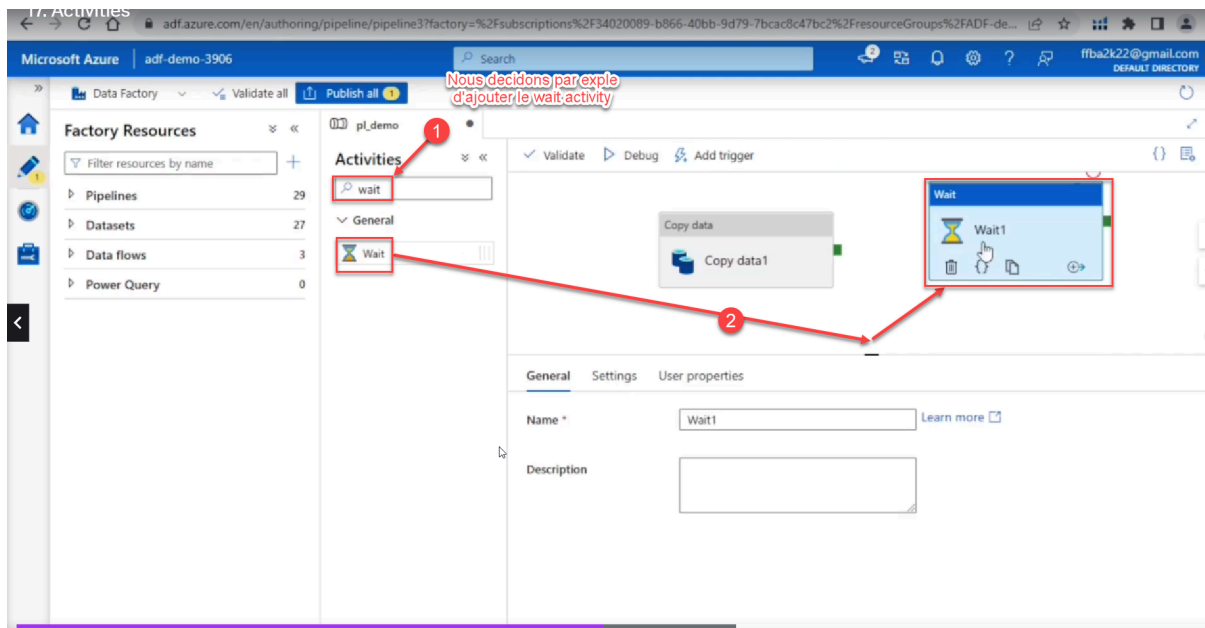
General Source Sink Mapping Settings User properties

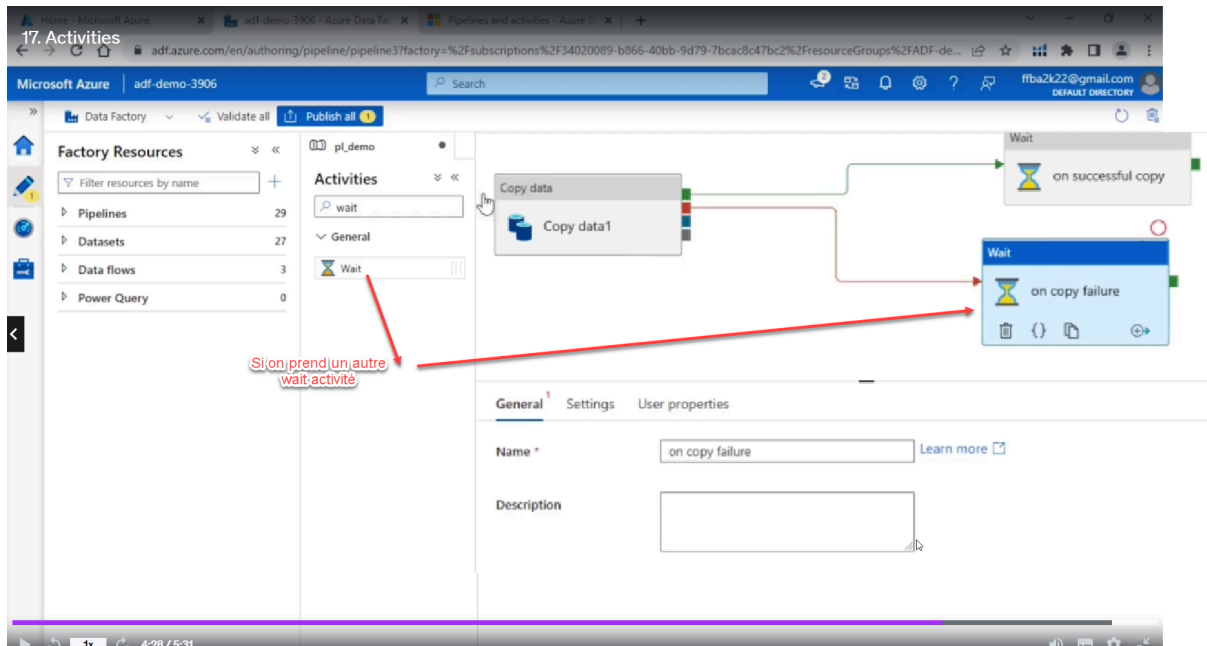
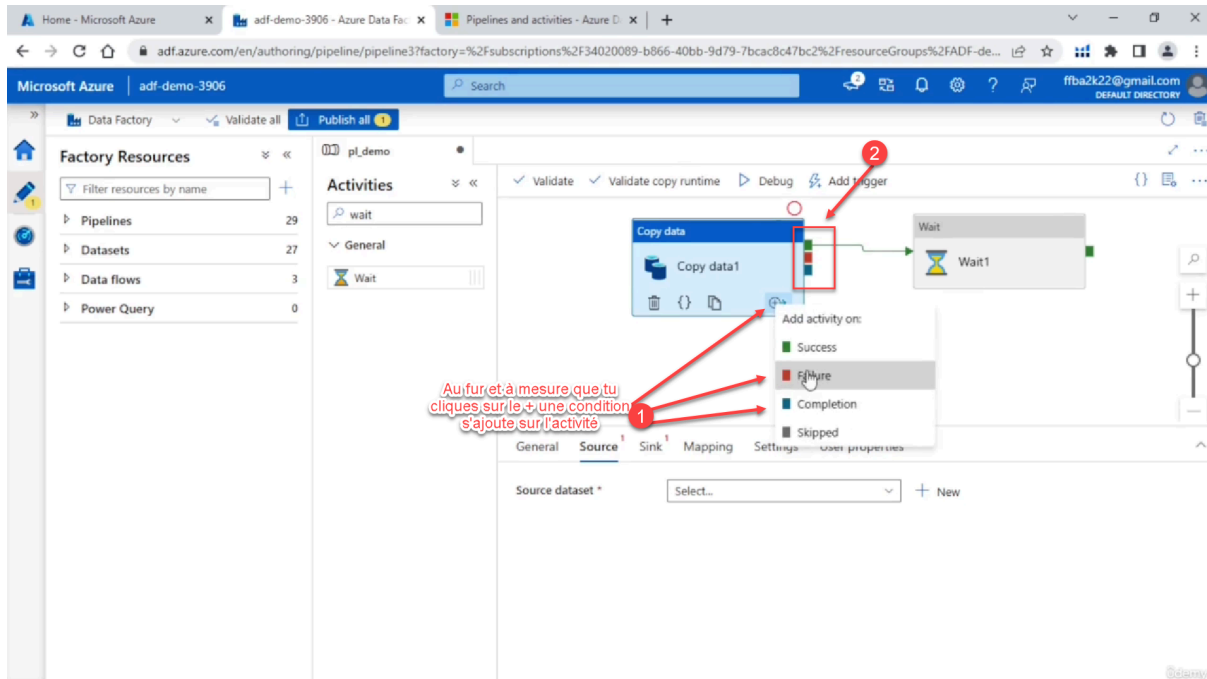
Si on clique ici

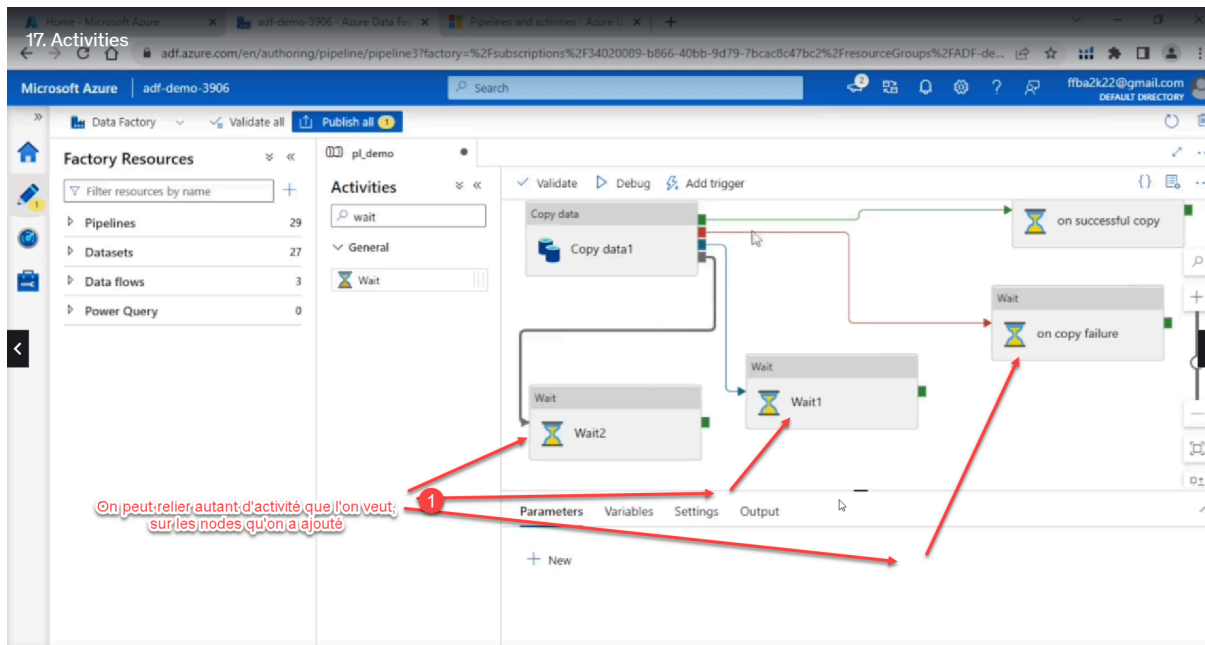
On voit le code JSON pour cette activité

Cette fenêtre ci apparaît

```
1 {
2   "name": "Copy data1",
3   "type": "Copy",
4   "dependsOn": [],
5   "policy": {
6     "timeout": "7.00:00:00",
7     "retry": 0,
8     "retryIntervalInSeconds": 30,
9     "secureOutput": false,
10    "secureInput": false
11  },
12  "userProperties": [],
13  "typeProperties": {
14    "enableStaging": false
15  }
16 }
```







18- Linked Service

18. Linked Services

Linked Service

- Linked Services are much like connection strings, which define the connection information that's needed for Data Factory to connect to external resources.

Example:

An Azure Datalake Gen2 linked service specifies a connection string to connect to the Datalake Gen2 storage account.

18. Linked Services

Microsoft Azure | adf-demo-3906

Connections

Linked services

Integration runtimes

Azure Purview

Source control

Git configuration

ARM template

Author

Triggers

Global parameters

Credentials

Customer managed key

Managed private endpoints

Linked services

Linked service defines the connection information to a data store or compute. [Learn more](#)

+ New

Filter by name

Annotations: Any

Showing 0 - 0 of 0 items

Name Type Related Annotations

No linked service to show

If you expected to see results, try changing your filters or creating a new linked service.

Create linked service

New linked service

Data store Compute

Search

All Azure Database File Generic protocol NoSQL Services and apps

Amazon Marketplace Web Service

Amazon Marketplace Web Service

Amazon RDS for SQL Server

Amazon Redshift

Amazon S3

Amazon S3 Compatible

Amazon RDS for Oracle

Amazon RDS for SQL Server

Amazon Redshift

Apache Impala

Azure SQL Database Managed Instance

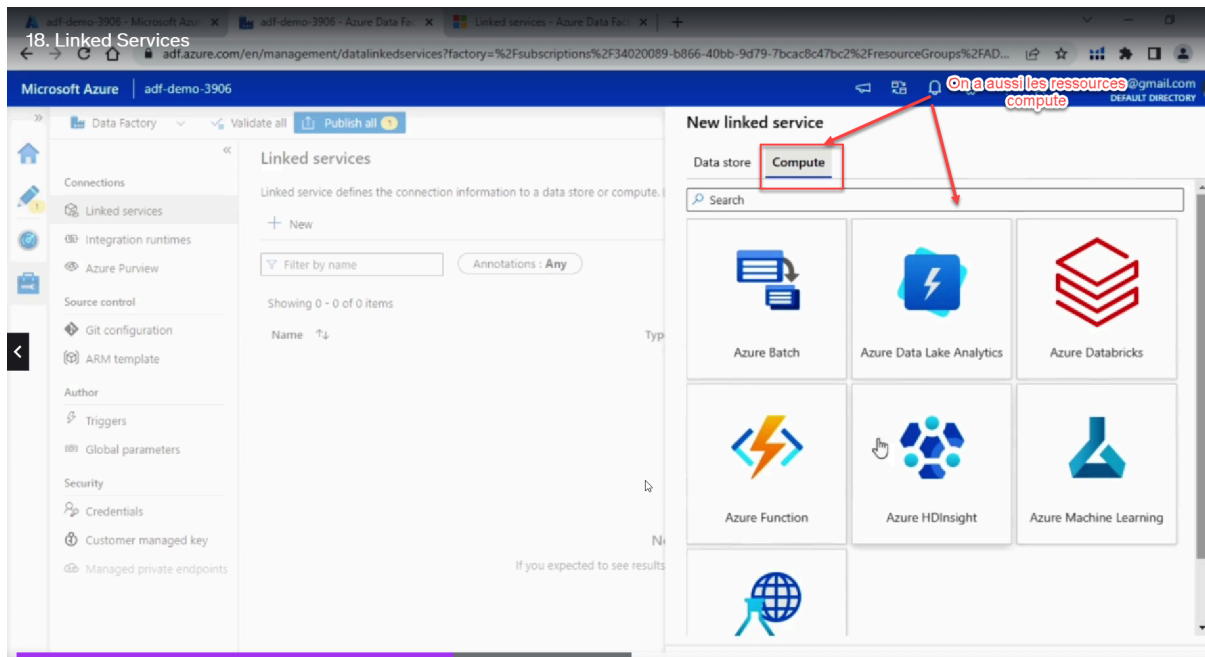
Azure SQL Database Managed Instance

DB2

On peut voir un gros panneau de linked services au choix

Pour créer les linked services on va ici

On a des linked services de databases



Pour le moment on va créer une connexion avec le service de datalake

adf-demo-3906 - Microsoft Azure | adf-demo-3906 - Azure Data Factory | Linked services - Azure Data Factory

adf.azure.com/en/management/datalinkedservices?factory=%2Fsubscriptions%2F34020089-b866-40bb-9d79-7bcac8c47bc2%2FresourceGroups%2FADF... fba2922@gmail.com

Microsoft Azure | adf-demo-3906

Validating all | Publish all

Connections

Linked services

Integration runtimes

Azure Purview

Source control

Git configuration

Linked service defines the connection information to a data store or compute.

+ New

Filter by name

Annotations: Any

Showing 0 - 0 of 0 items

Name

New linked service

Data store | Compute

Search

All | Azure | Database | File | Generic protocol | NoSQL | Services and apps

Azure Cosmos DB (SQL API)

Azure Data Explorer (Kusto)

Azure Data Lake Storage Gen1

Azure Data Lake Storage Gen2

Azure Database for MariaDB

Azure Database for MySQL

Continue

Cancel

Puis, on clique sur continue

New linked service

Azure Data Lake Storage Gen2

Name *

AzureDataLakeStorage1

Description

Connect via integration runtime *

AutoResolveIntegrationRuntime

Advanced

Test connection

Cancel

New linked service

Azure Data Lake Storage Gen2

Connect via integration runtime *

AutoResolveIntegrationRuntime

Authentication type

Account key

Account selection method

From Azure subscription

Enter manually

Azure subscription

Free Trial (34020089-b866-40bb-9d79-7bcac8c47bc2)

Storage account name *

adfmod12

Test connection

To linked service

To file path

Annotations

New

Parameters

Advanced

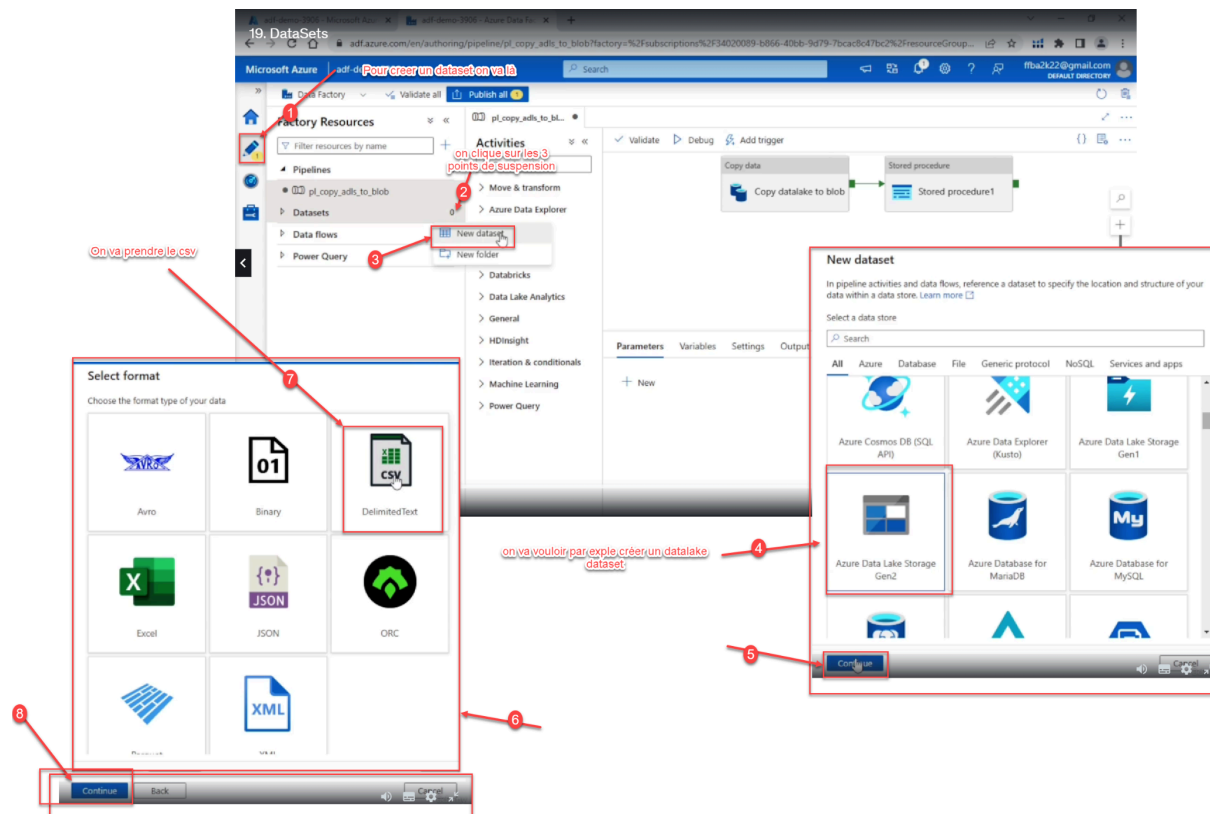
Connection successful

Create

Back

Test connection

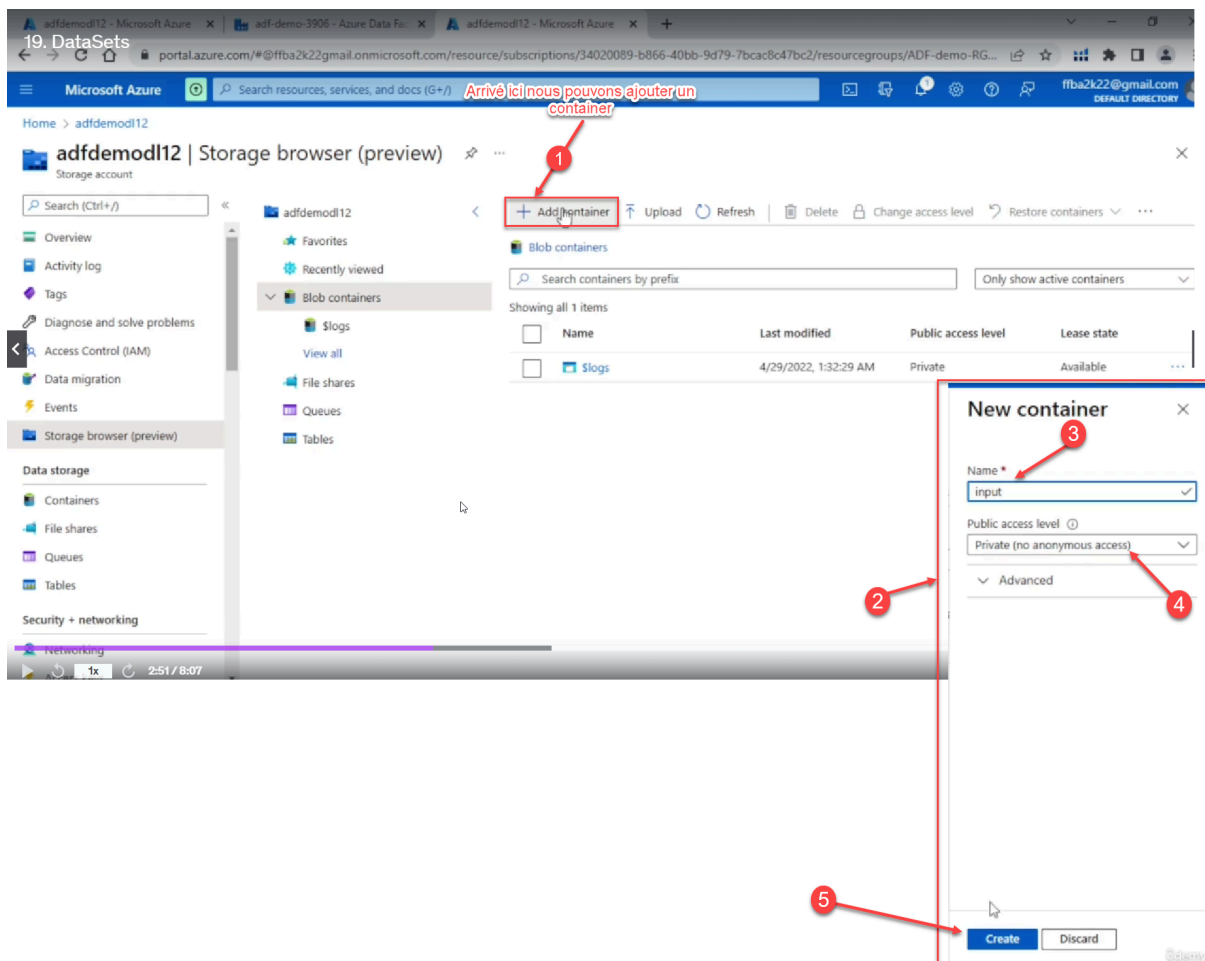
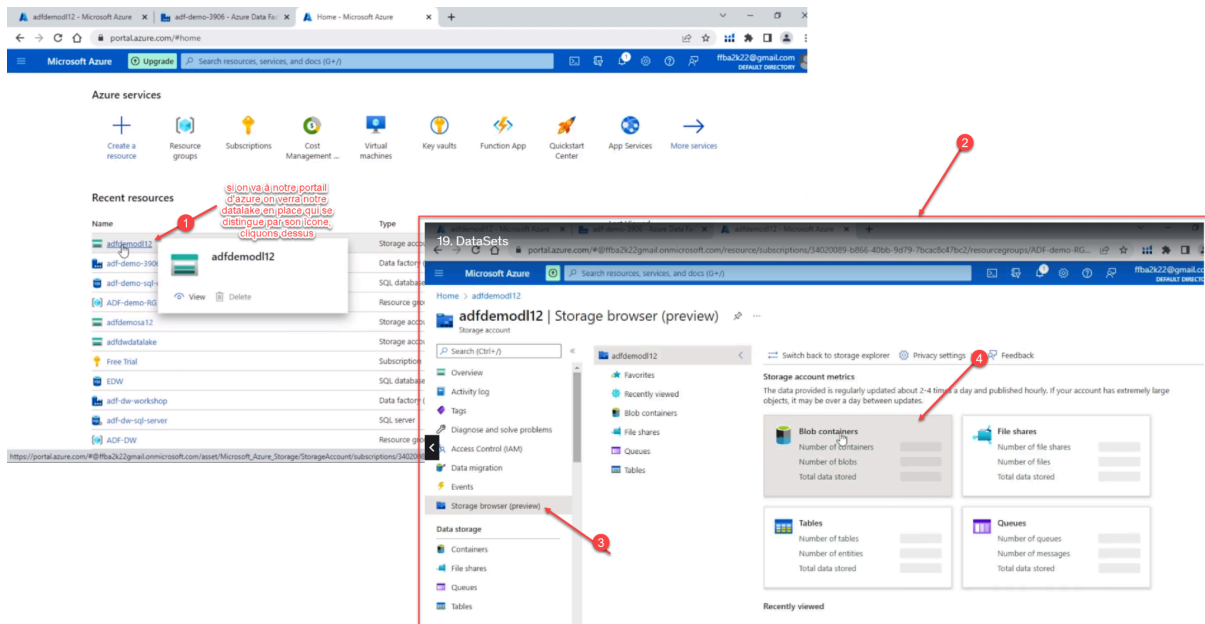
Cancel



et si on repart à notre portail d'azure

<https://portal.azure.com/#home>

on verra que notre datalake est présent parmi les ressources



19. DataSets

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

adfdemod12 | Storage browser (preview)

Storage account

Overview

Activity log

Tags

Diagnose and solve problems

Access Control (IAM)

Data migration

Events

Storage browser (preview)

Data storage

Containers

File shares

Queues

Tables

Security + networking

adfdemod12

Favorites

Recently viewed

Blob containers

Slogs

View all

File shares

Queues

Tables

Search (Ctrl+/)

adfdemod12

Upload

Refresh

Delete

Change access level

Restore containers

Blob containers

Search containers by prefix

Only show active containers

Showing all 1 items

Name	Last modified	Public access level	Lease state
Slogs	4/29/2022, 1:32:29 AM	Private	Available
input	4/30/2022, 2:26:36 AM	Private	

The container will be successfully created, cliquons dessus

New container

Name *

input

Public access level

Private (no anonymous access)

Advanced

Create

Discard

Upload blob

Drag and drop files here

Browse for files

Overwrite if files already exist

Advanced

Upload

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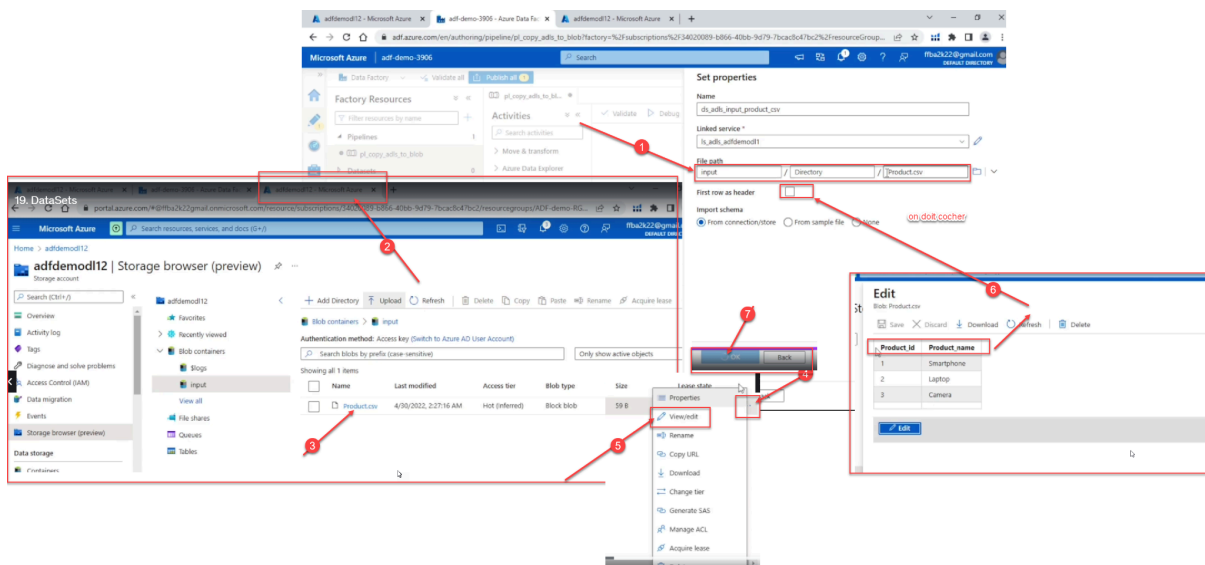
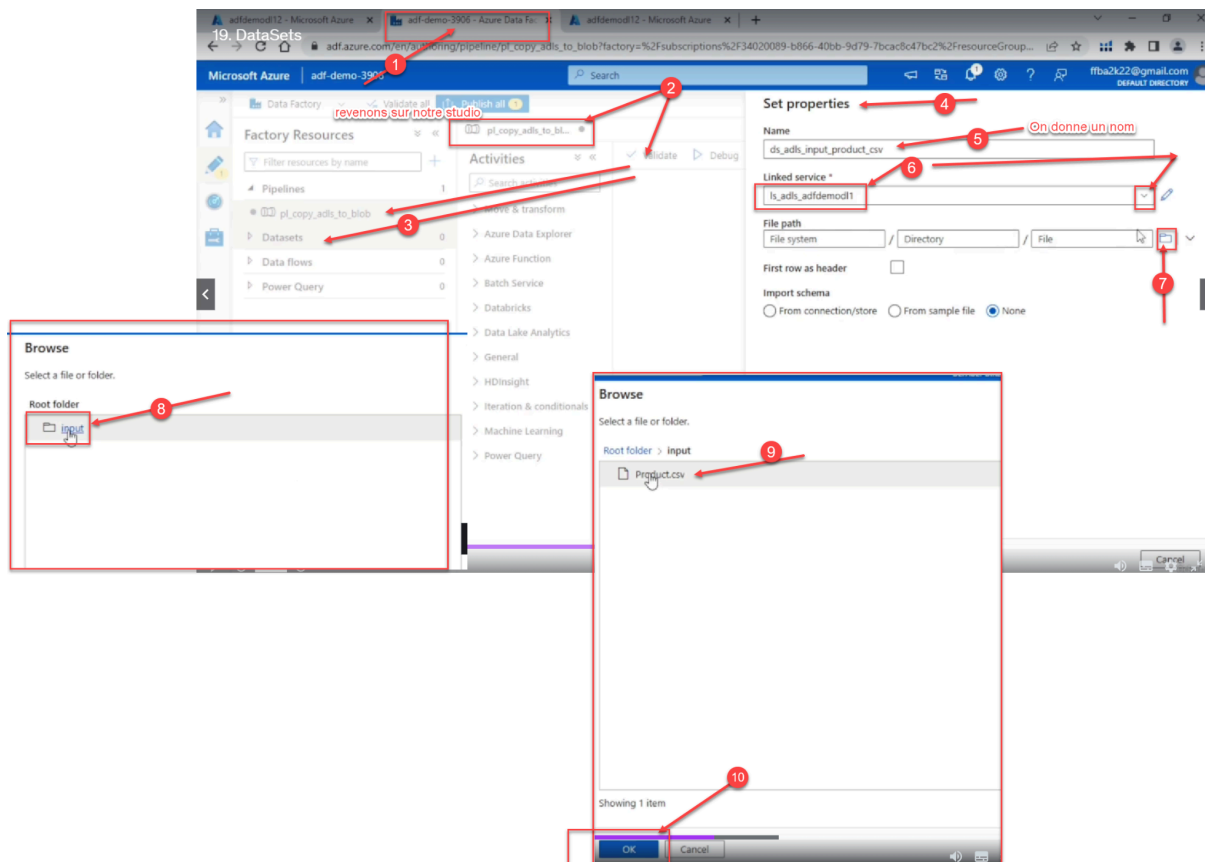
996

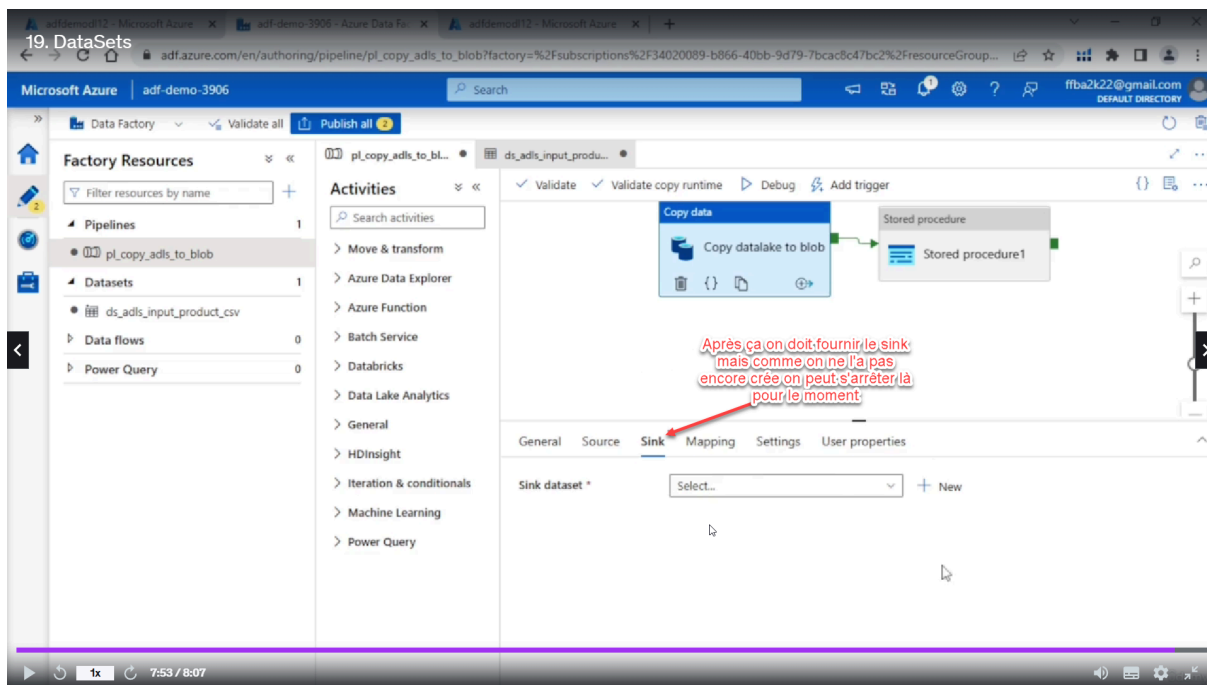
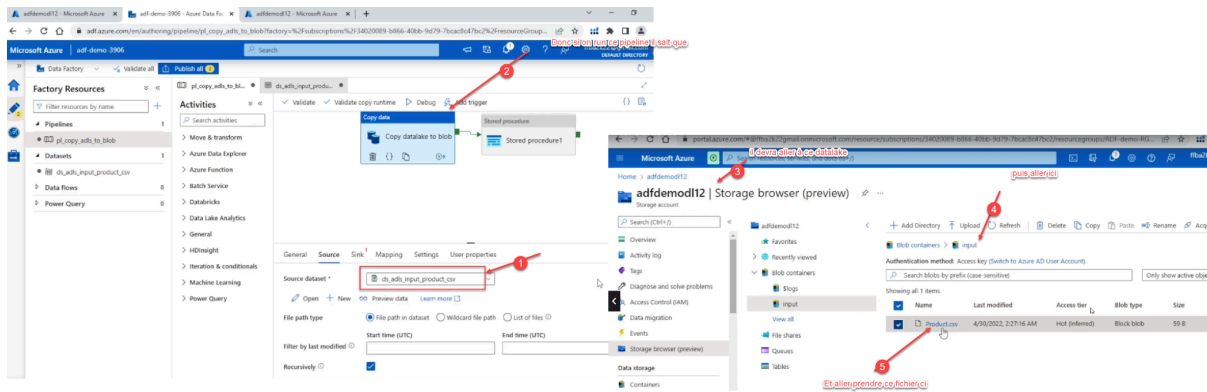
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20- Supported File formats

Supported File Formats

Azure Data Factory supports the following file formats –

- Avro format
- Binary format
- Delimited text format
- Excel format
- JSON format
- ORC format
- Parquet format
- XML format

<https://docs.microsoft.com/en-us/azure/data-factory/supported-file-formats-and-compression-codecs>

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JSON

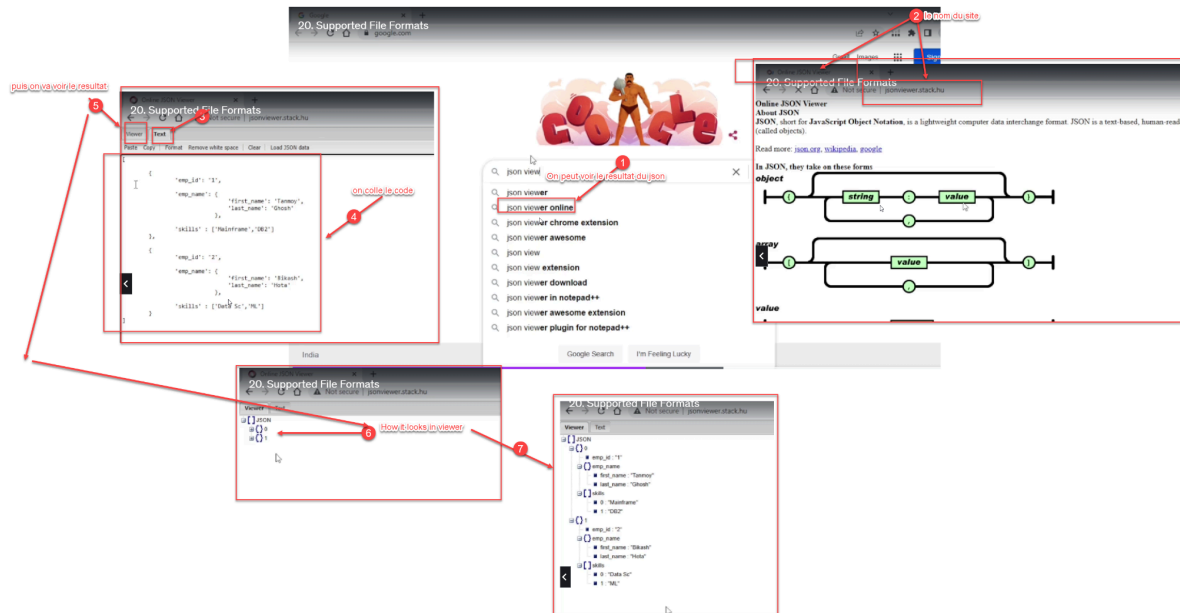
```
data = [{"Key1":"Value1",  
        "Key2":"Value2"}]  
  
myObj = {"name":"John", "age":30, "car":null};
```

Supported File Formats

```
{  
  'emp_id': '1',  
  'emp_name': {  
    'first_name': 'Tanmay',  
    'last_name': 'Ghosh'  
  },  
  'skills': ['Mainframe','DB2']  
},  
  
{  
  'emp_id': '2',  
  'emp_name': {  
    'first_name': 'Bikash',  
    'last_name': 'Maha'  
  },  
  'skills': ['Data Sc','ML']  
}
```

First json object

2nd json object



Format Avro/ ORC/ Parquet

Avro / ORC / Parquet

- All three of the formats are optimized for storage on Hadoop, and provide some degree of compression.
- Files stored in ORC, Parquet, and Avro formats can be split across multiple disks, which lends themselves to scalability and parallel processing.
- All three formats carry the data schema in the files themselves, which is to say they're self-described.
- The biggest difference between ORC, Avro, and Parquet is how they store the data. Parquet and ORC both store data in columns, while Avro stores data in a row-based format. By their very nature, column-oriented data stores are optimized for read-heavy analytical workloads, while row-based databases are best for write-heavy transactional workloads.

21-Triggers

Triggers

- Triggers Determines when a pipeline execution needs to be kicked off.
- There are different kind of triggers –
 - Schedule Trigger
 - Tumbling Window Trigger
 - Storage Event Based Trigger
 - Custom Event Base Trigger

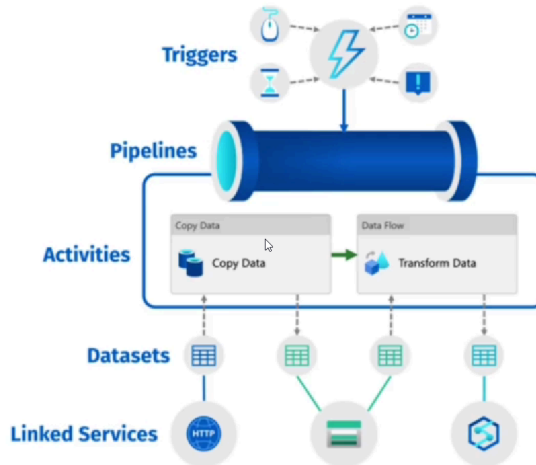
Microsoft Azure | adf-demo-3906

Trigger name: tr_schedule

```
1 {
2   "name": "tr_schedule",
3   "properties": {
4     "description": "daily trigger at 6AM",
5     "annotations": [],
6     "runtimeOrigin": "Started",
7     "pipelines": [],
8     "type": "ScheduleTrigger",
9     "typeProperties": {
10      "recurrence": {
11        "frequency": "Day",
12        "interval": 1,
13        "startTime": "2022-04-30T06:00:00Z",
14        "endTime": "2022-04-30T06:00:00Z",
15        "timezone": "UTC",
16        "schedule": {
17          "minutes": {
18            "0": 0,
19            "1": 0,
20            "2": 0,
21            "3": 0,
22            "4": 0,
23            "5": 0,
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25            "7": 0,
26            "8": 0,
27            "9": 0,
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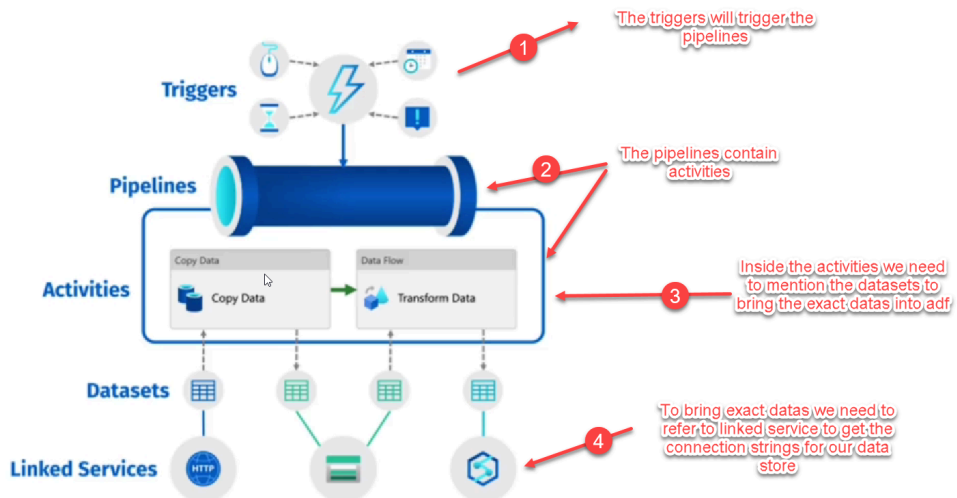
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Interconnection of components



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Interconnection of components



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22. Interaction between different components

Microsoft Azure | adf-demo-3906

Triggers

To execute a pipeline set the trigger. Triggers represent a unit of processing that determines when a pipeline execution needs to be kicked off.

+ New

Filter by name Annotations: Any

Showing 1 - 1 of 1 items

Name	Type	Status	Related	Annotations
tr_schedule	Schedule	Started	1	

1

2

3

The hierarchy starts here with a triggers

22. Interaction between different components

Microsoft Azure | adf-demo-3906

Factory Resources

Filter resources by name

- Pipelines
 - pl_copy_adls_to_blob
- Datasets
 - ds_adls_input_product_csv
- Data flows
- Power Query

Activities

Search activities

- Move & transform
 - Azure Data Explorer
 - Azure Function
 - Batch Service
 - Databricks
 - Data Lake Analytics
 - General
 - HDInsight
 - Iteration & conditionals
 - Machine Learning
 - Power Query

Next, after triggering the pipeline, activities inside the pipeline will run

Copy data

Copy data lake to blob

Stored procedure

Stored procedure1

Parameters Variables Settings Output

+ New

22. Interaction between different components

