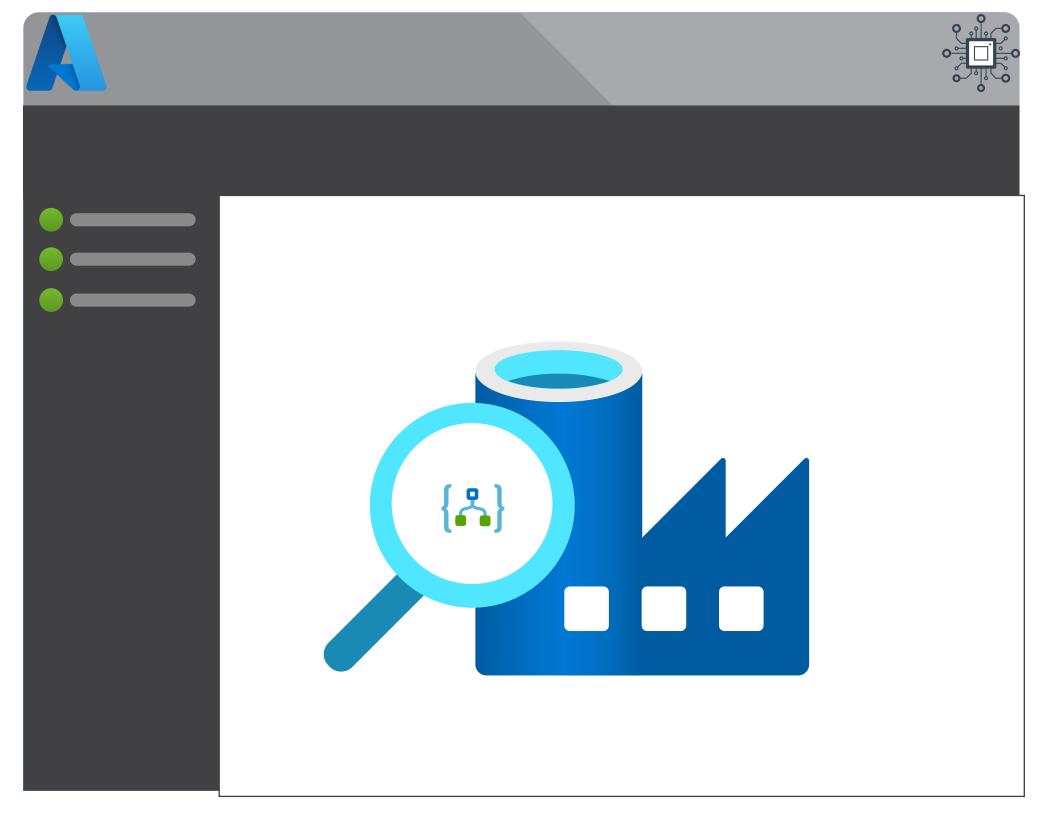


- The History of Azure Orchestration
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- Integration Components
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- Execution Dependencies



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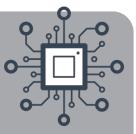
SQL Server

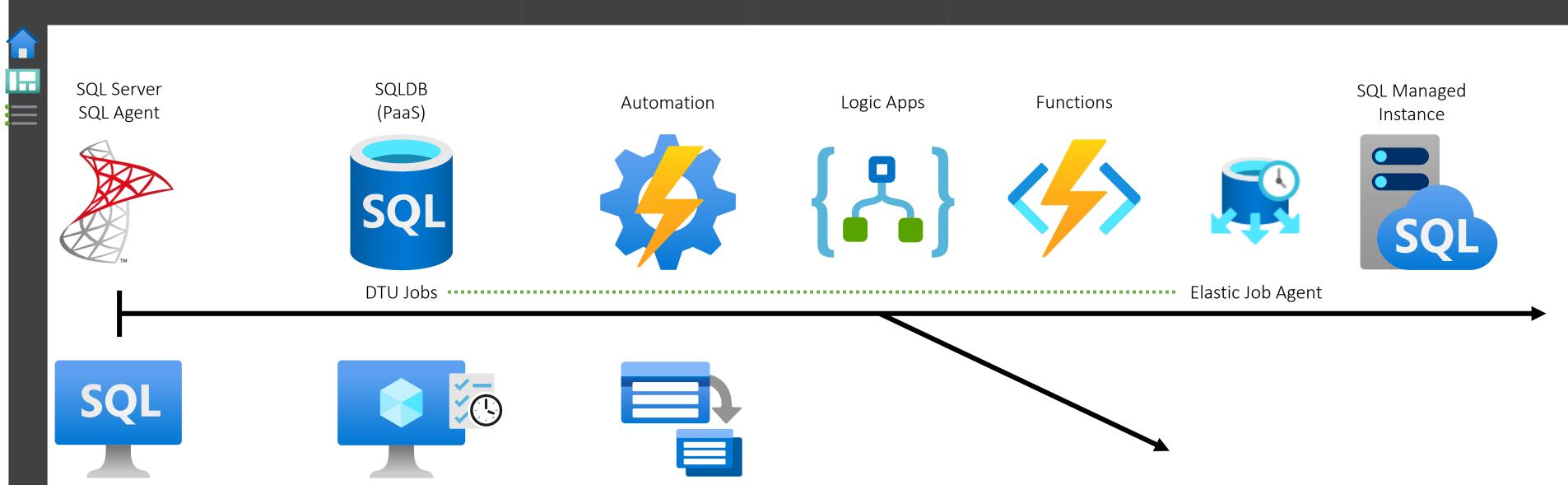
Virtual Machine

A Quick History Lesson

Virtual Machine

Job Schedule

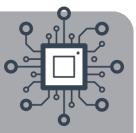


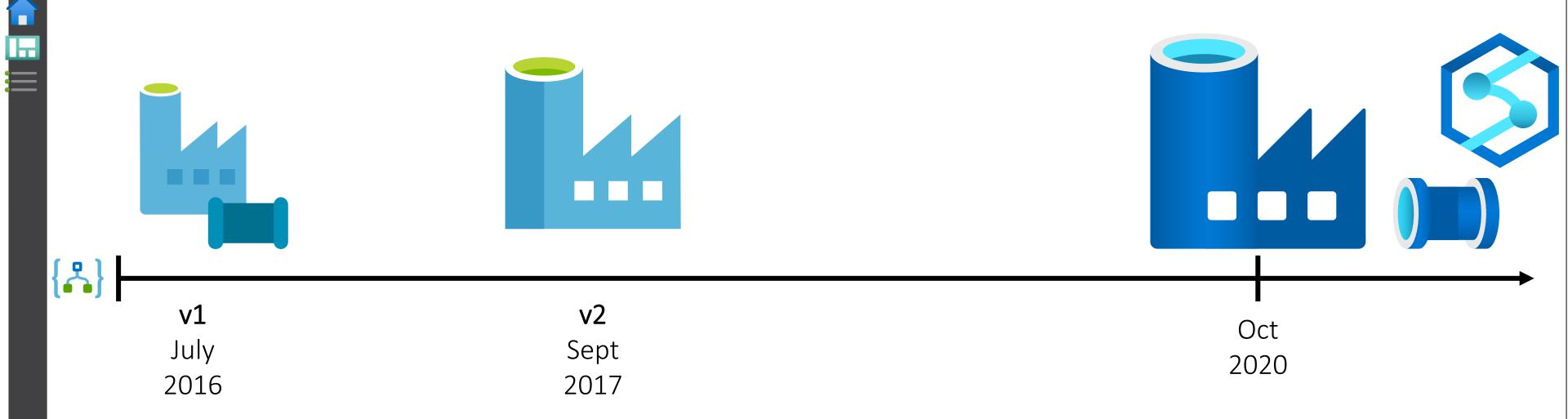


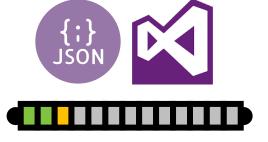
Batch



A Quick History Lesson







Time Slices VS2015 Projects



















Notepad Development

New UI

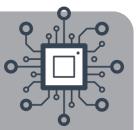
Source Control

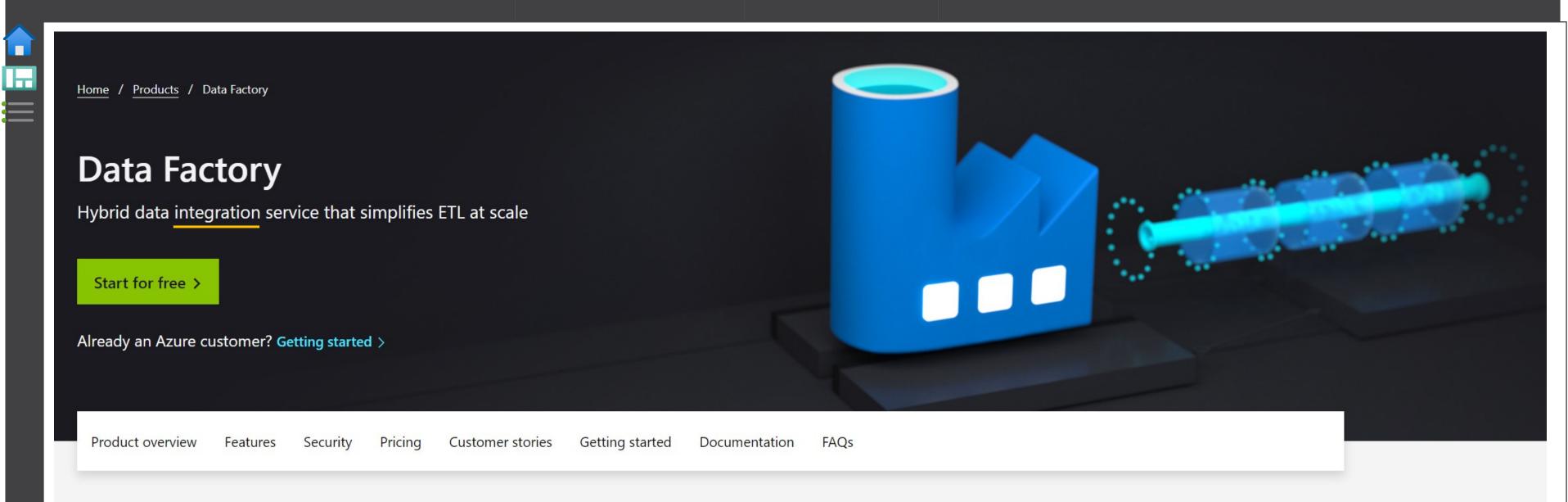
Data Flows

Private Endpoints



What is Azure Data Factory (ADF)?



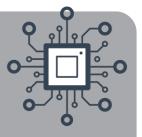


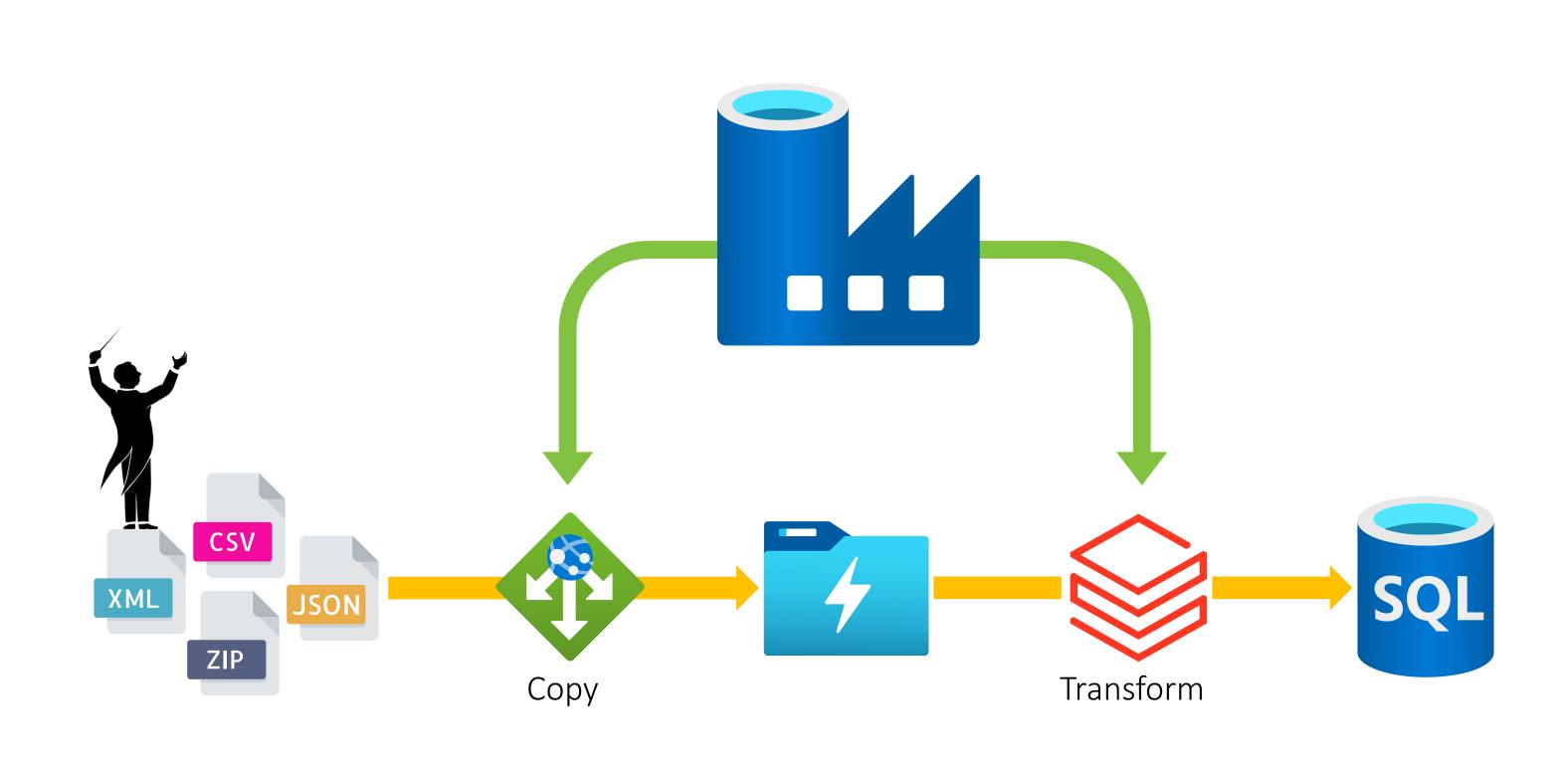
Accelerate data integration

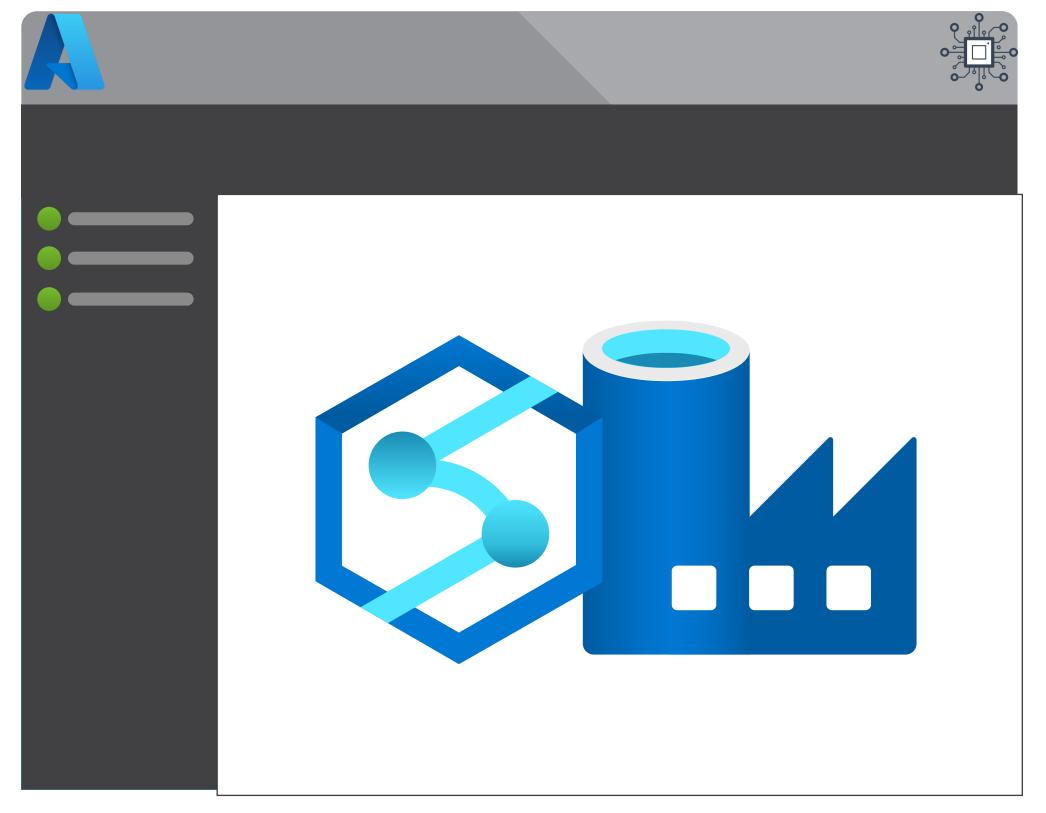
Integrate data silos with Azure Data Factory, a service built for all data integration needs and skill levels. Easily construct ETL and ELT processes code-free within the intuitive visual environment, or write your own code. Visually integrate data sources using more than 90+ natively built and maintenance-free connectors at no added cost. Focus on your data – the serverless integration service does the rest.



What is Azure Data Factory (ADF)?



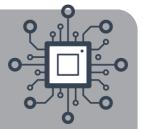




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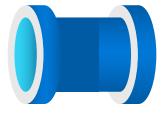
Synapse Analytics vs Data Factory

























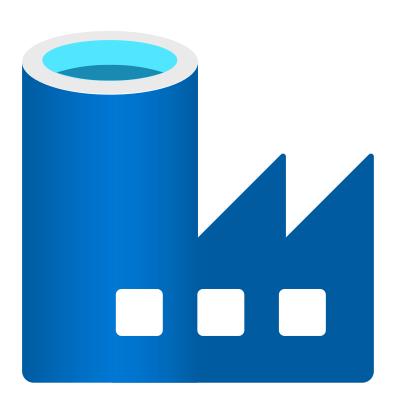


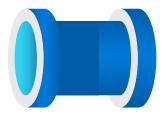










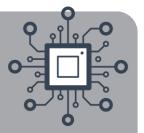




https://docs.microsoft.com/en-us/azure/synapseanalytics/data-integration/concepts-data-factory-differences



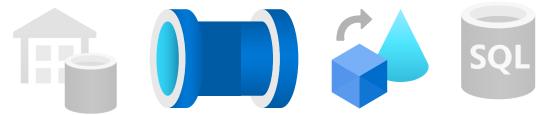
Synapse Analytics vs Data Factory

























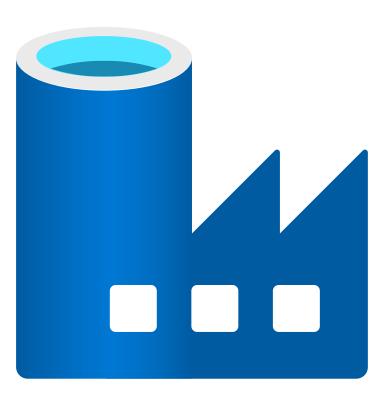


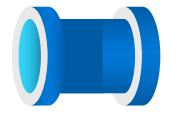


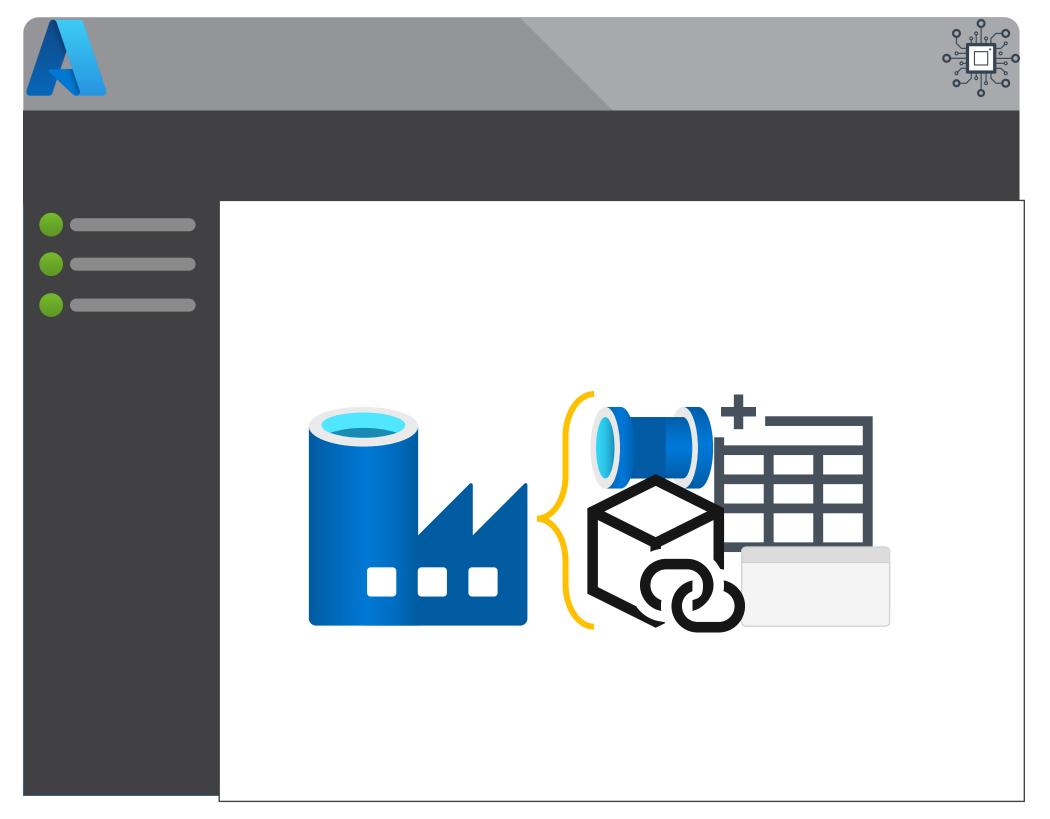






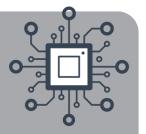


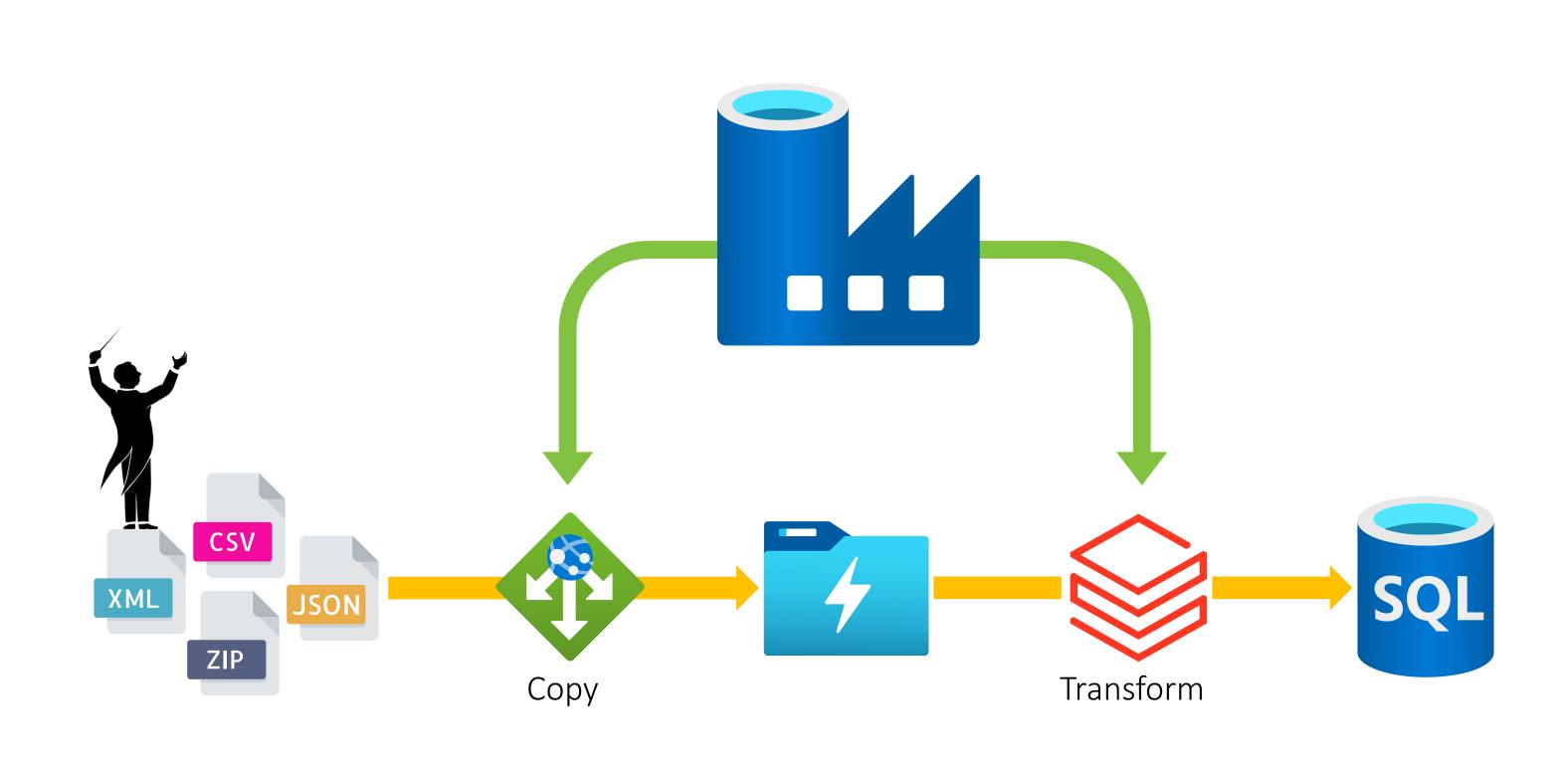




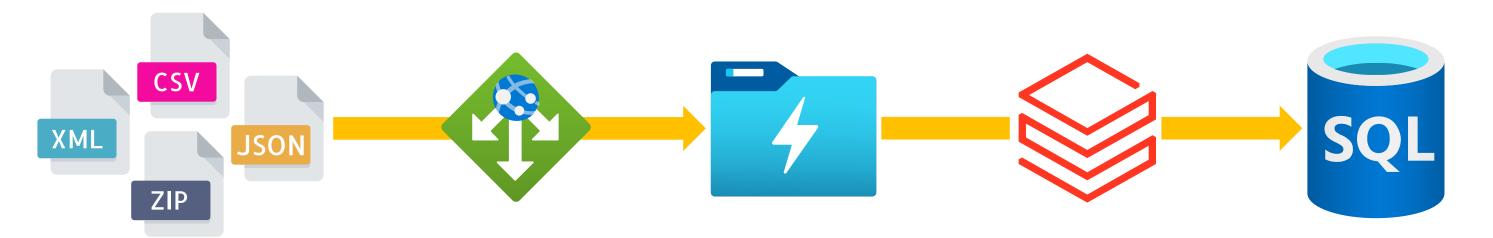
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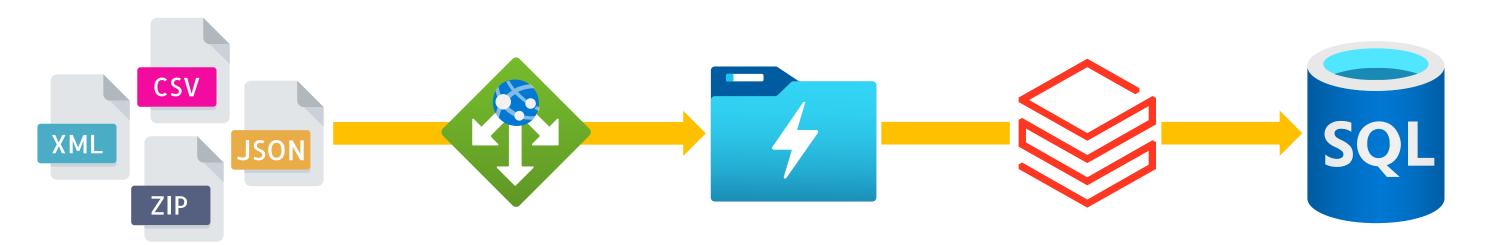












1 Linked Services – What to interact with and how?



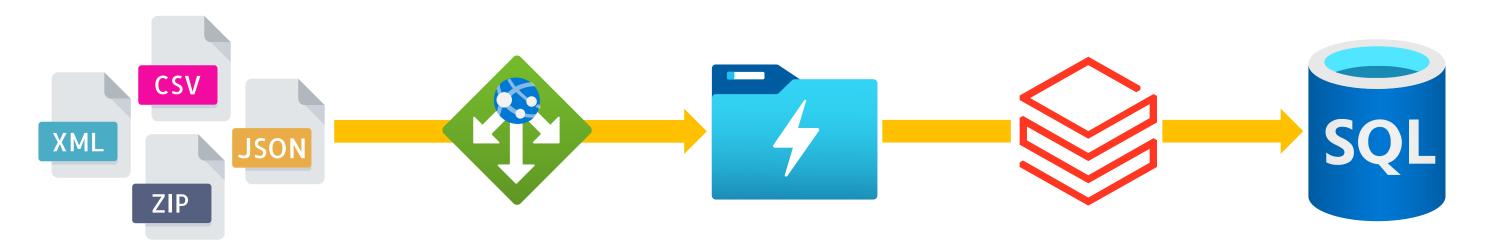
SQLDBLinkedService

ConnectionString: Server=MyServer; Database=myDataBase

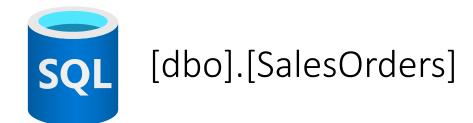
UserName: "MrPaulAndrew"

Password: **********





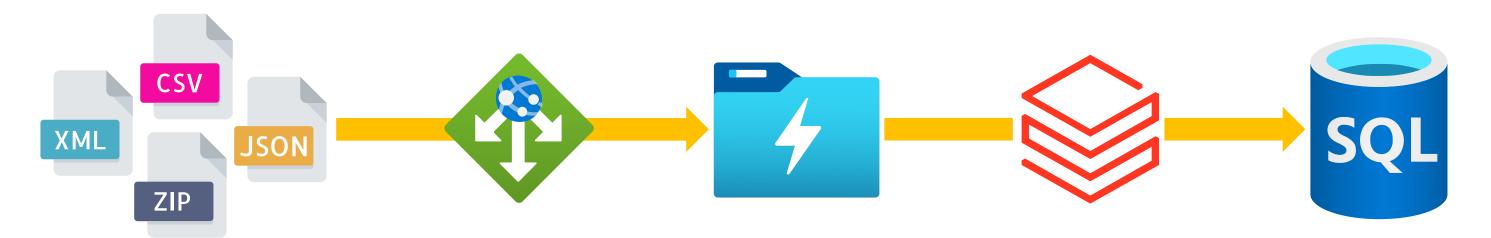
- 1 Linked Services
- Datasets Where is my data? What format? What file path/table do I need?





/RAW/Orders/2018/01/01/SalesOrders.csv





- 1 Linked Services
- 2 Datasets
- Activities What do we want to happen when we invoke a Linked Service?
 With what conditions?

{;} JSON

Databricks Notebook Activity

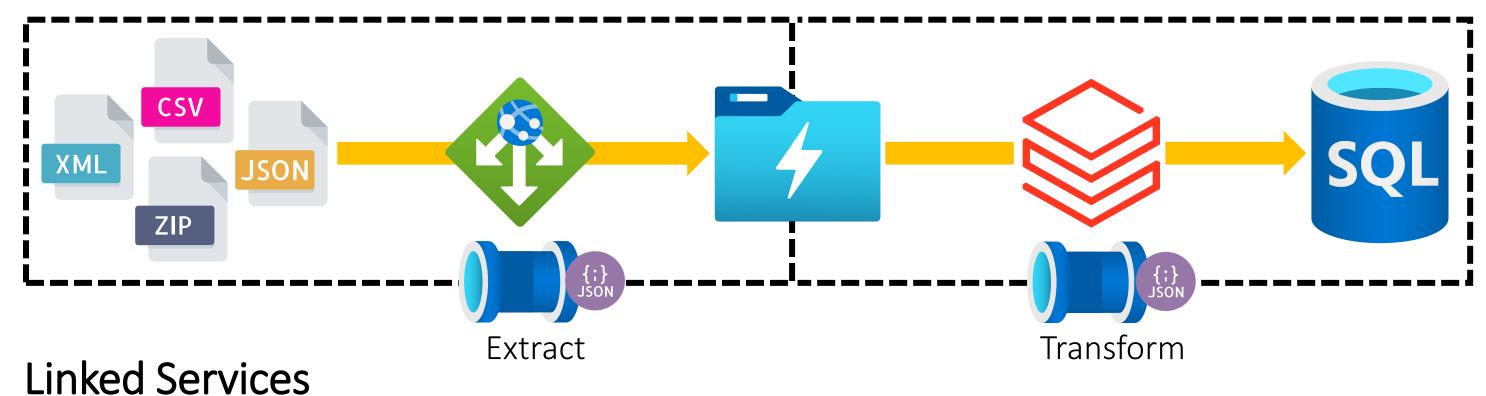
notebookPath: /Playground/Playing

baseParameters: *Testing*

libraries[jar]: dbfs:/lib1.jar

linkedServiceName: *BricksOfData01*

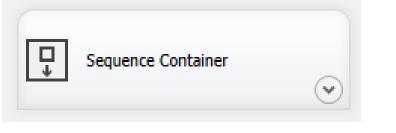


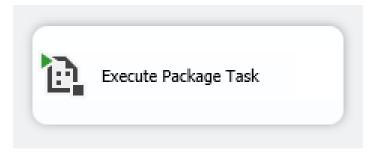


- Liffked Services
- 2 Datasets
- 3 Activities
- Pipelines Logical groups of work that can be executed.



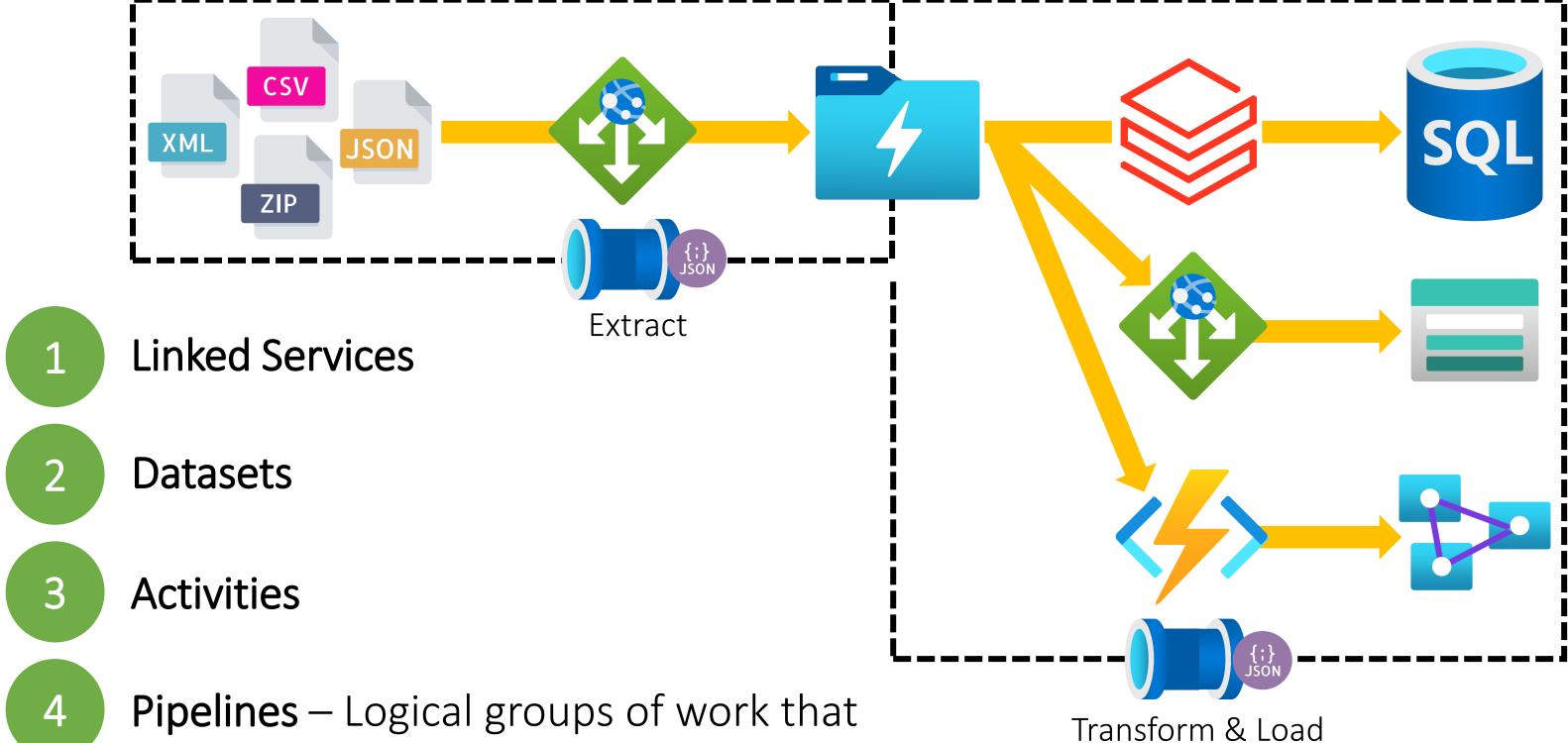






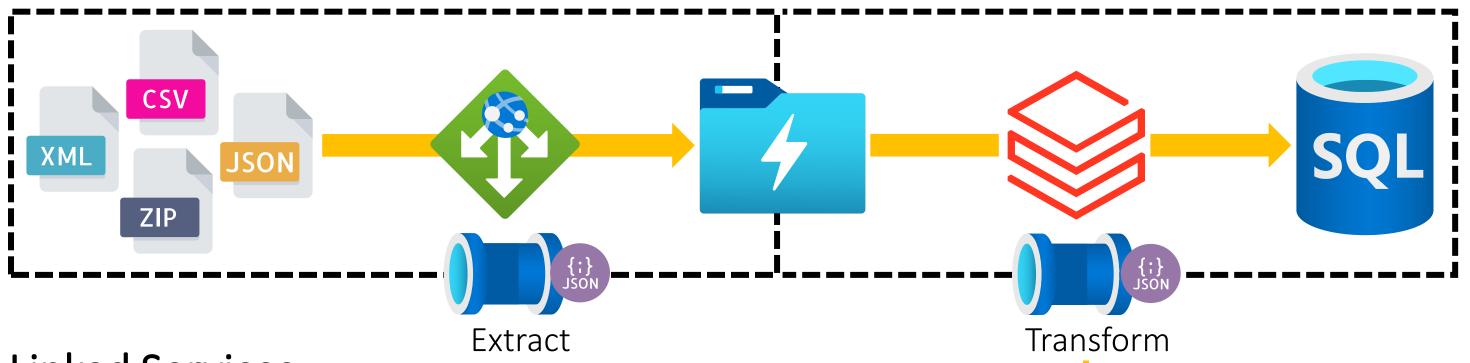






can be executed.





- 1 Linked Services
- 2 Datasets
- 3 Activities
- 4 Pipelines
- 5 Triggers Telling our when pipelines to run.



Programmatically

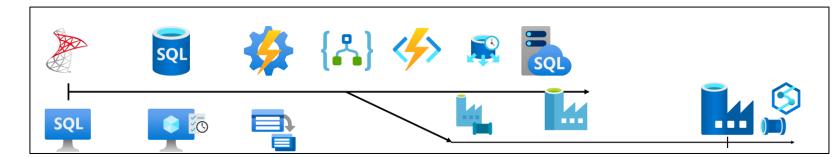
Schedule

Tumbling Windows

Storage Events

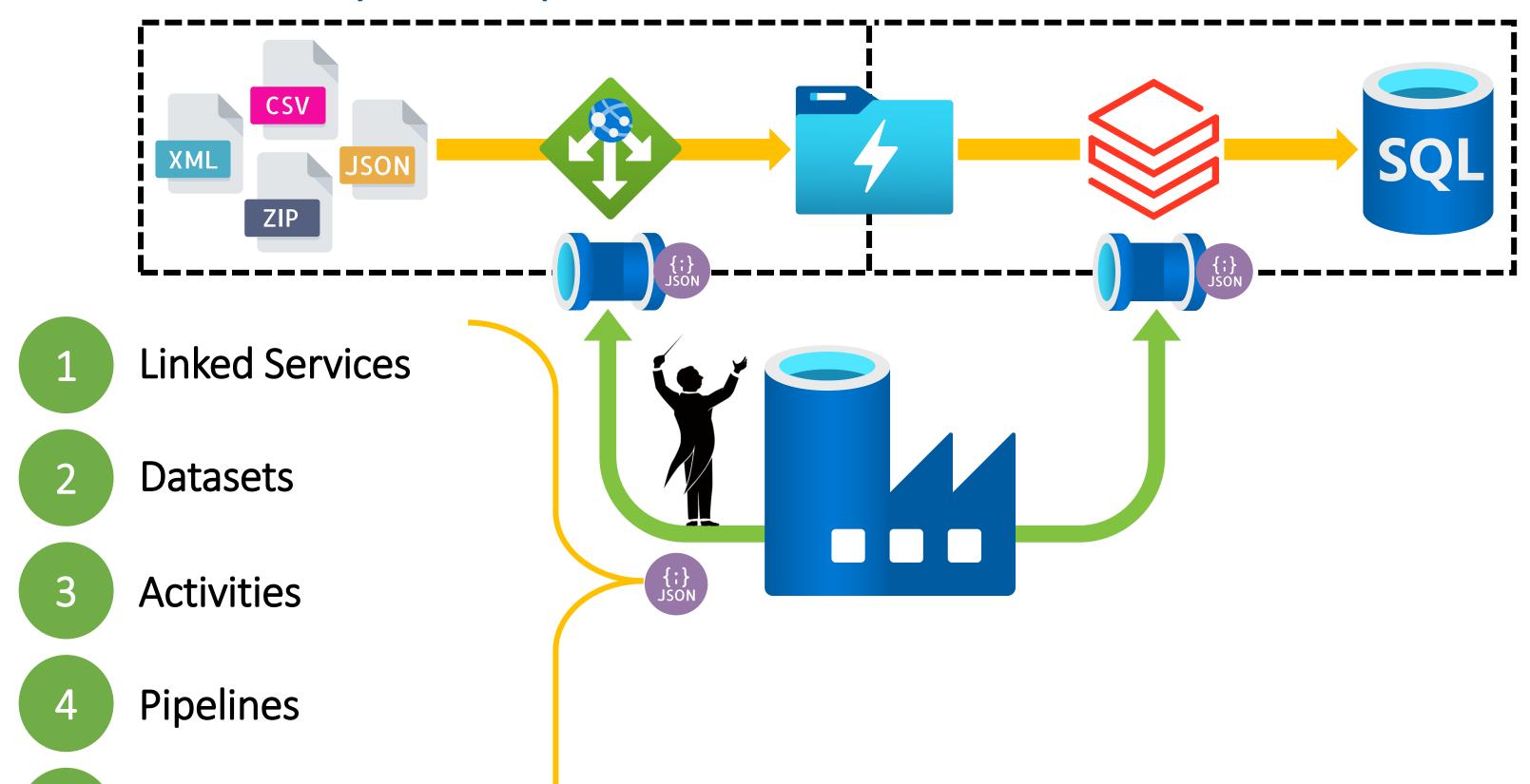
Custom Events

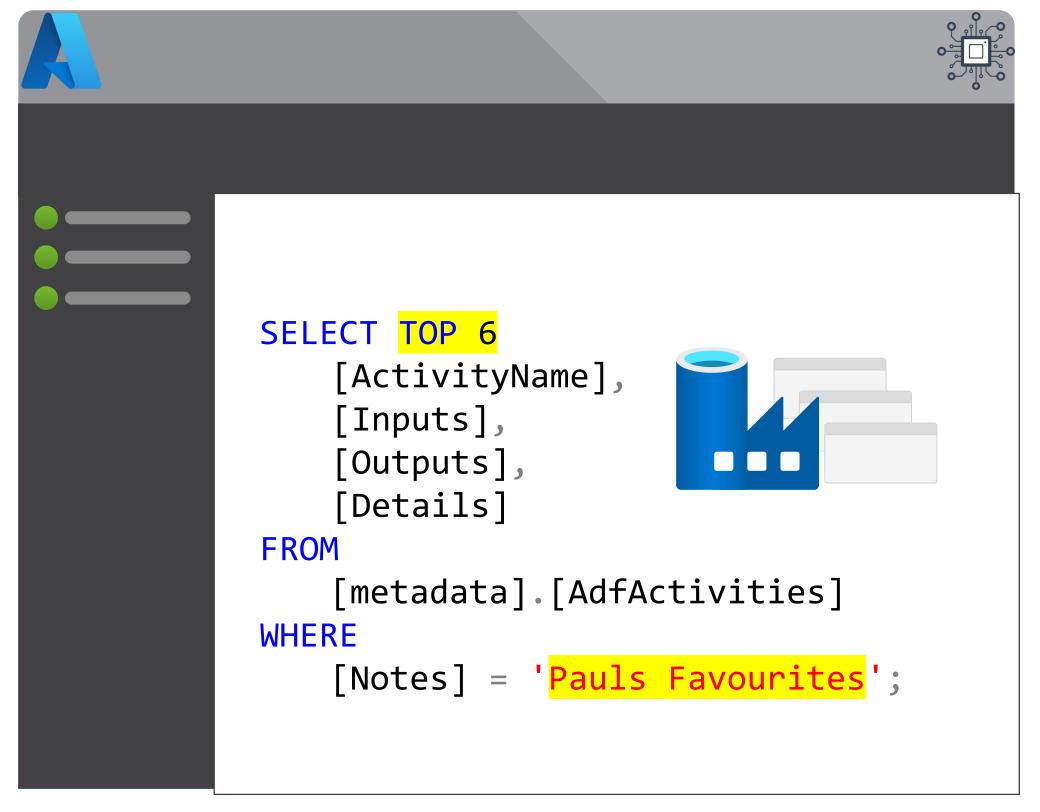




Triggers



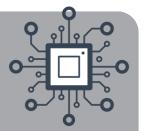


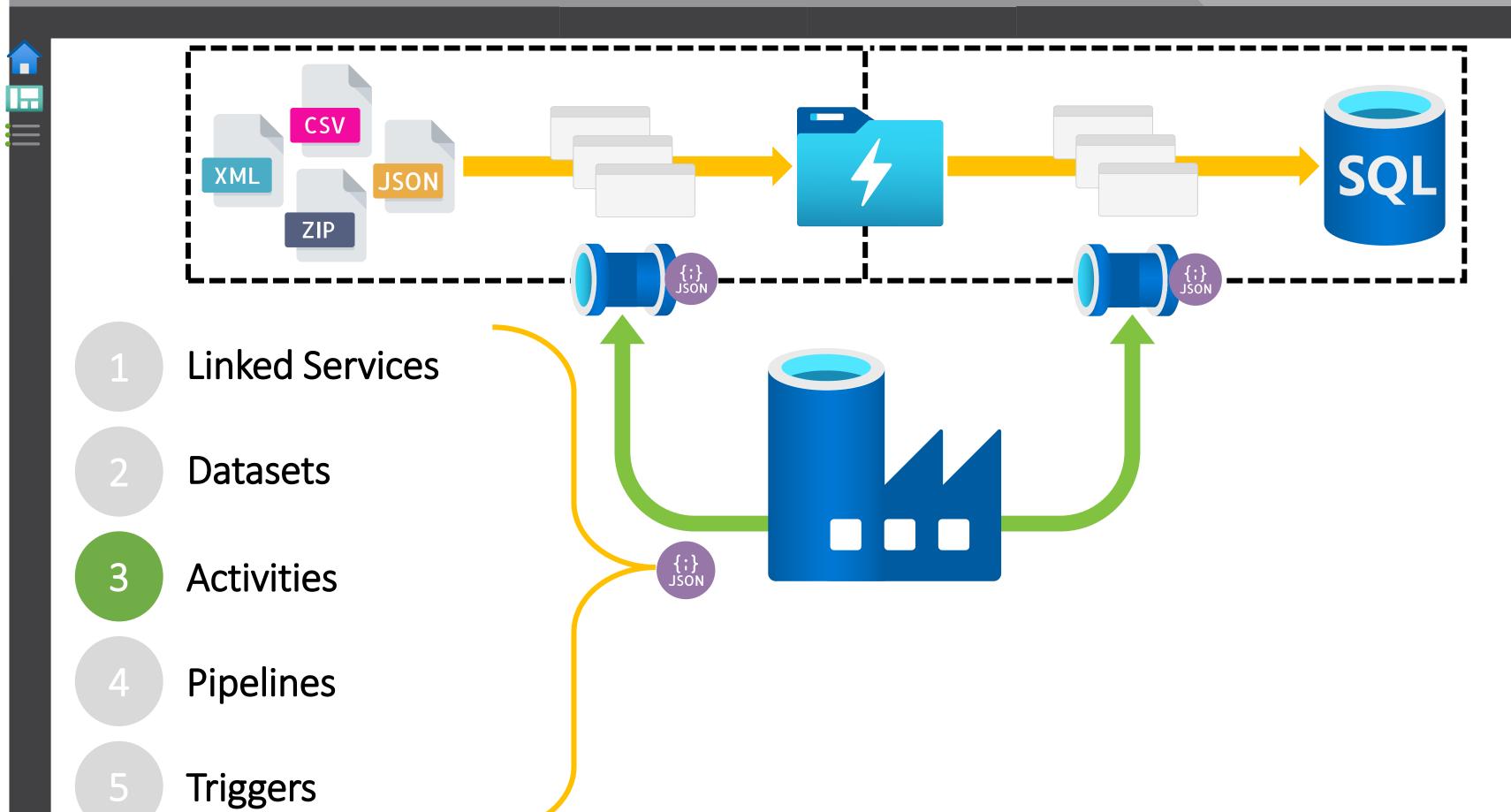


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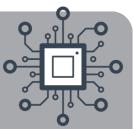


Data Factory Common Activities

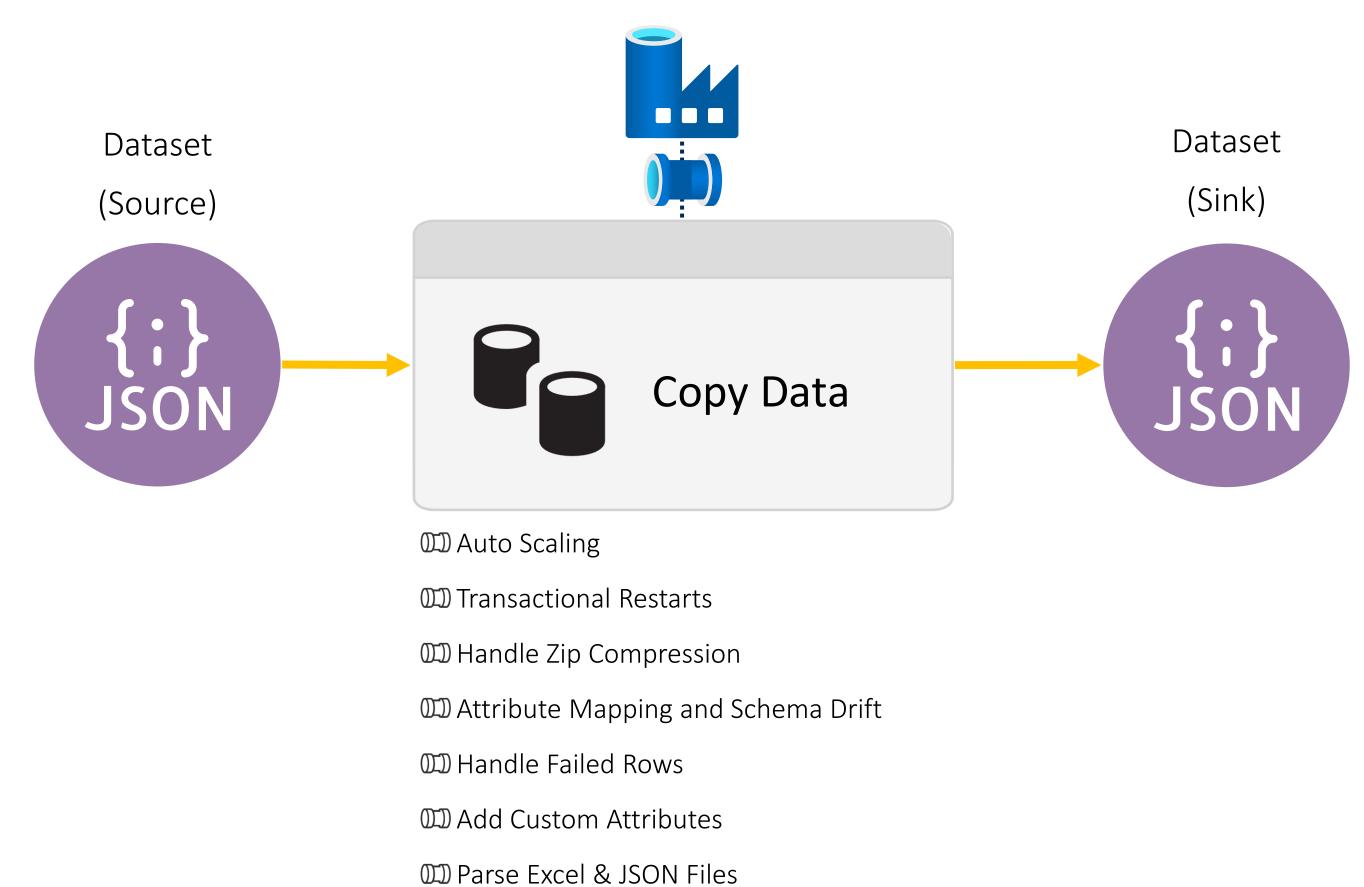




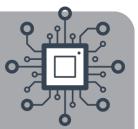




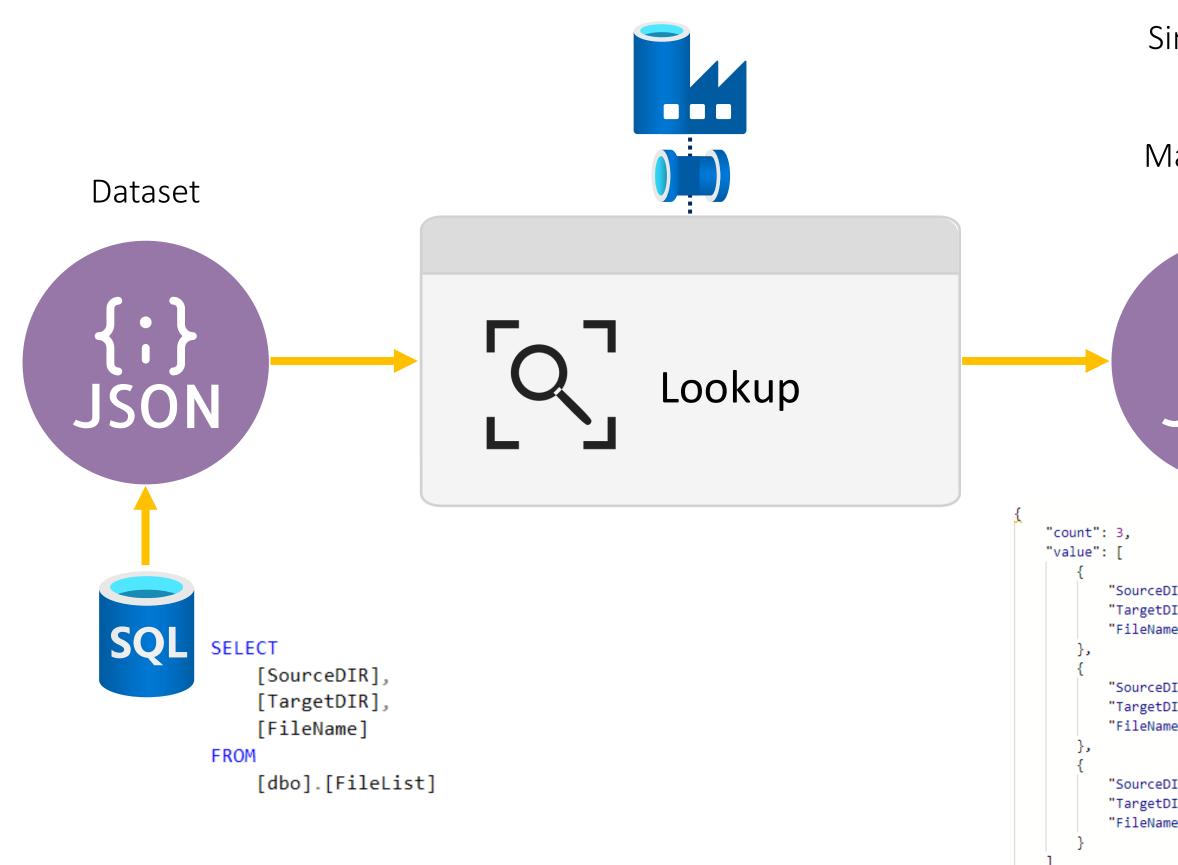
Getting your data from A to B (not a Move operation)







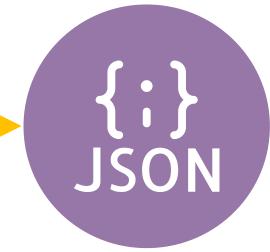
Get value(s) to support other control flow activities



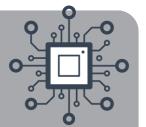
Single Value

Or

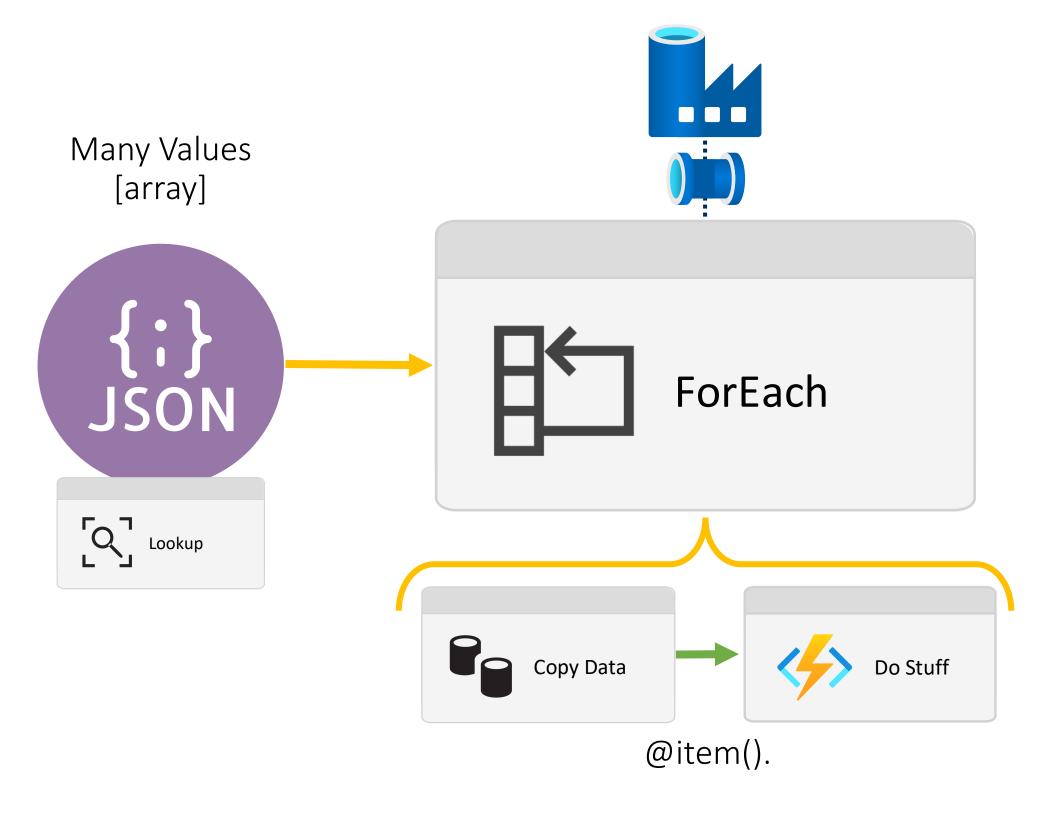
Many Values [array]

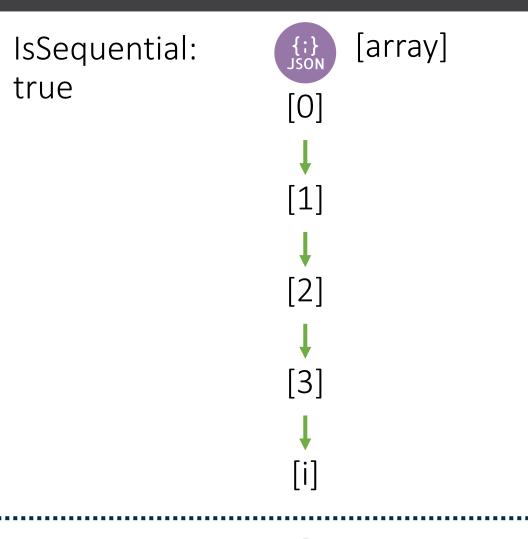


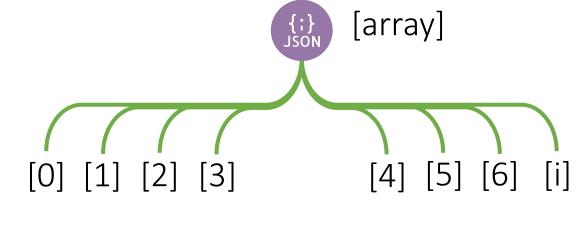




Iterating over other control flow activities



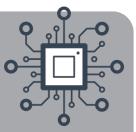




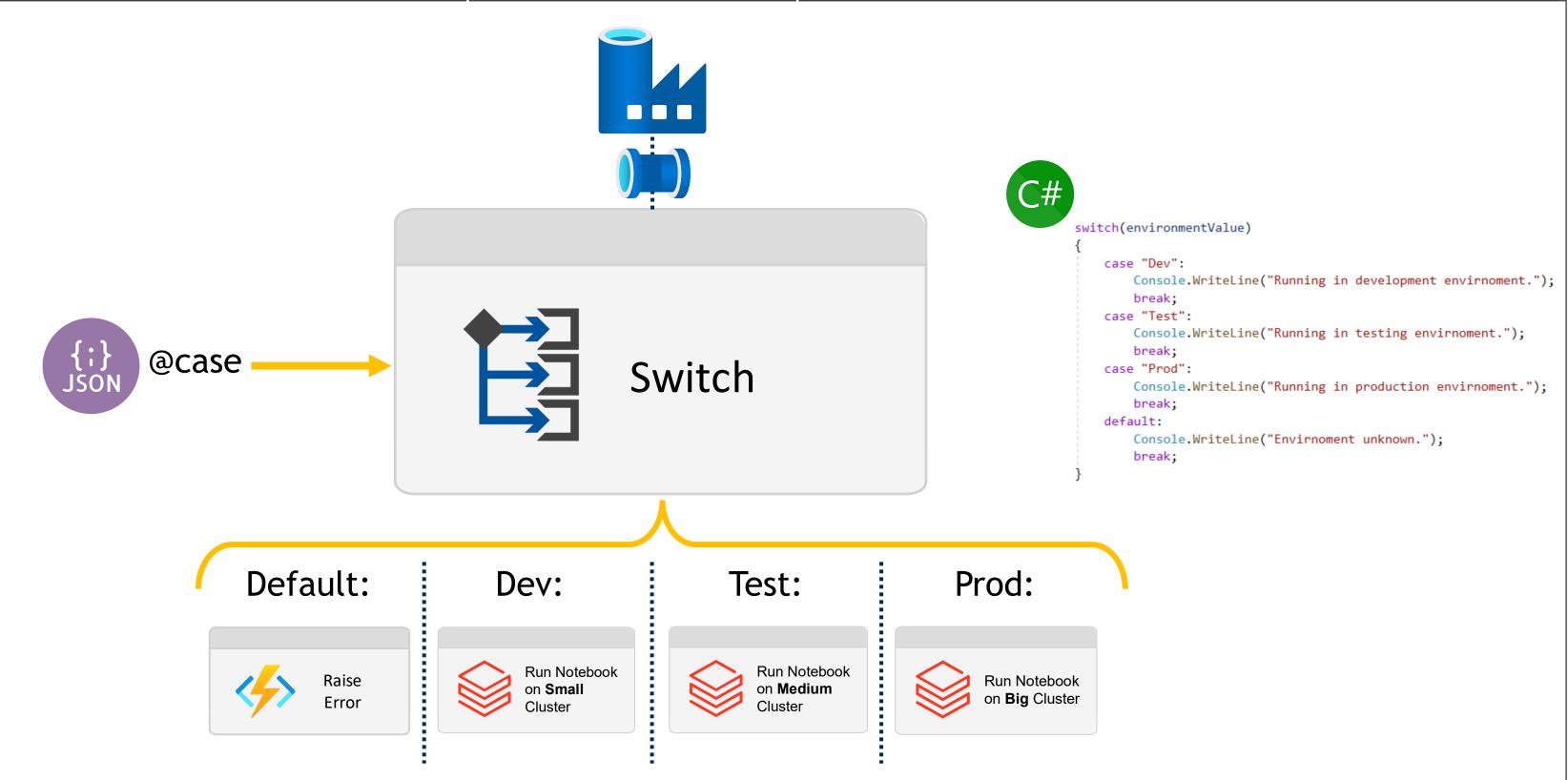
Batch Count Default: 20

Batch Count Max: 50



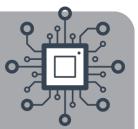


Execute other control flow components based on a provided condition

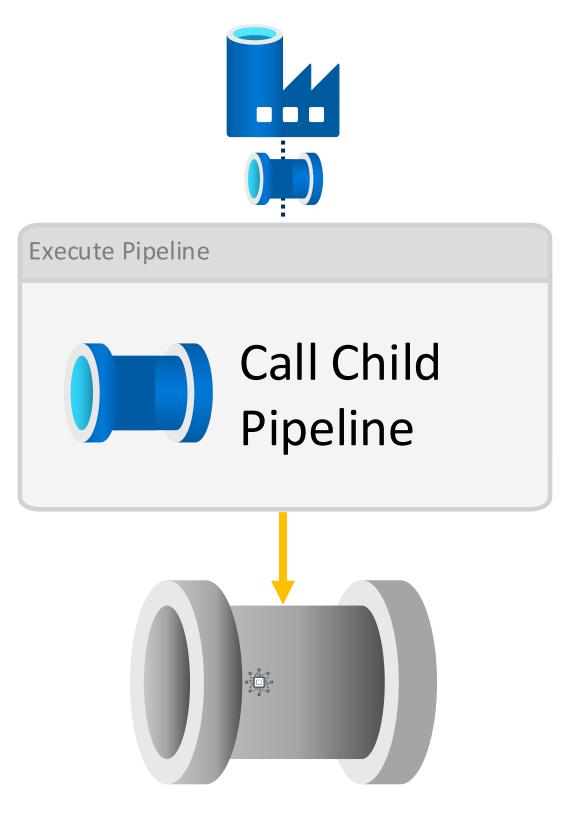


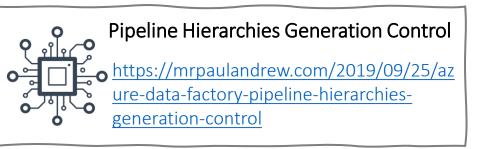


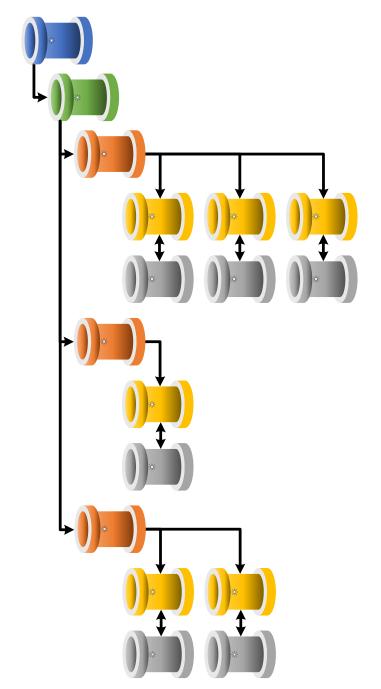
Execute Pipeline



Chaining pipeline executions via an activity

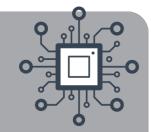




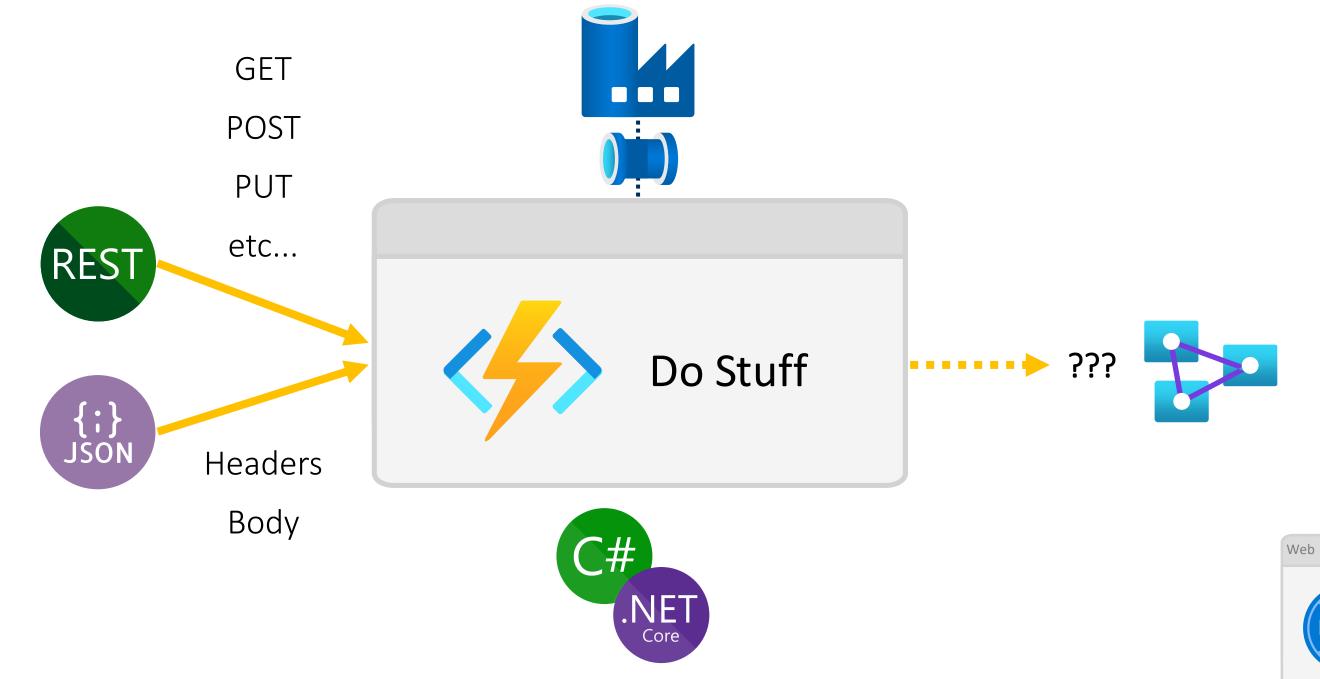


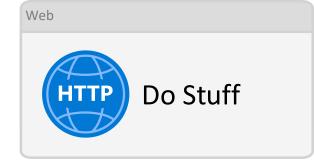


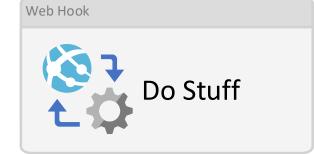
Azure Function

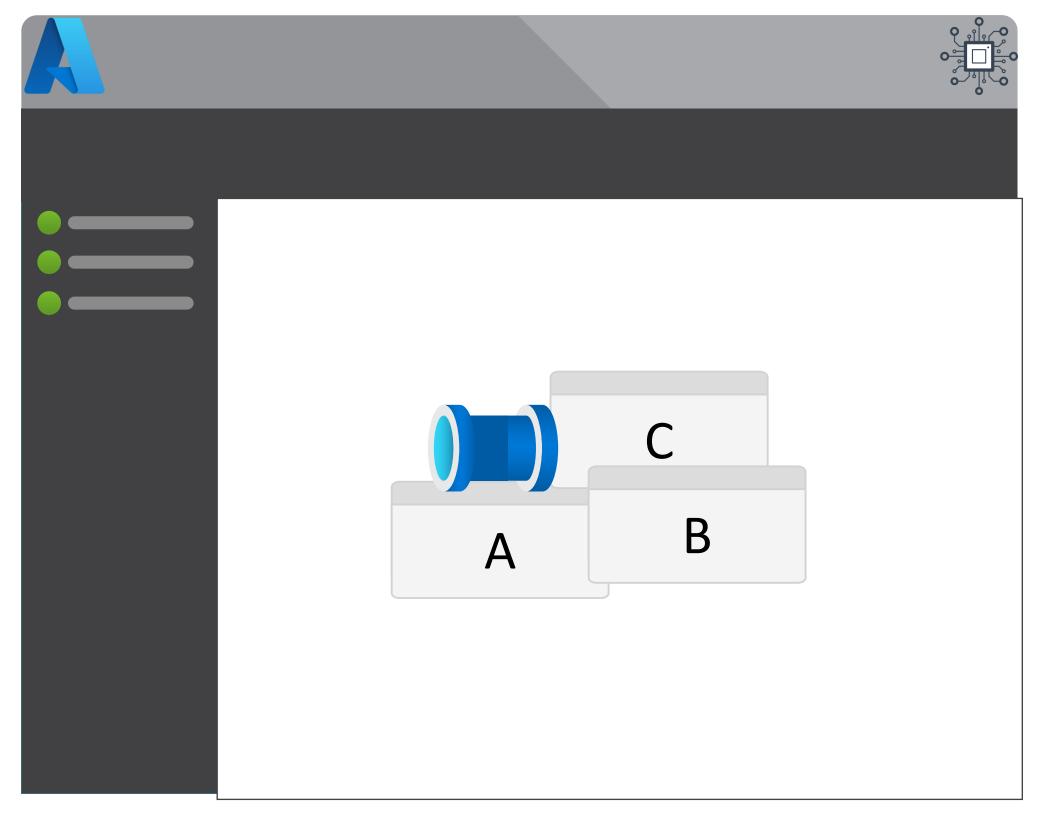


Extend Data Factory with custom serverless code executions via REST calls





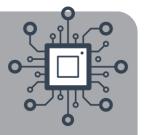


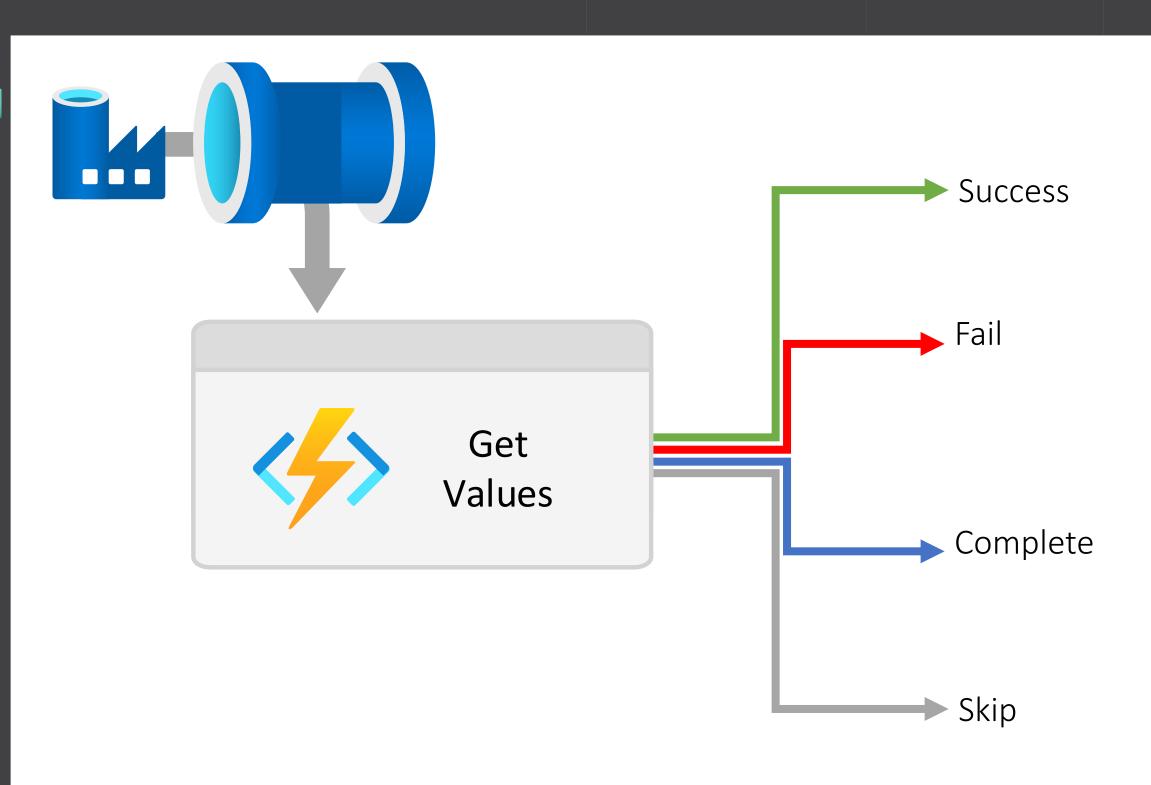


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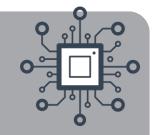
Execution Dependency Options

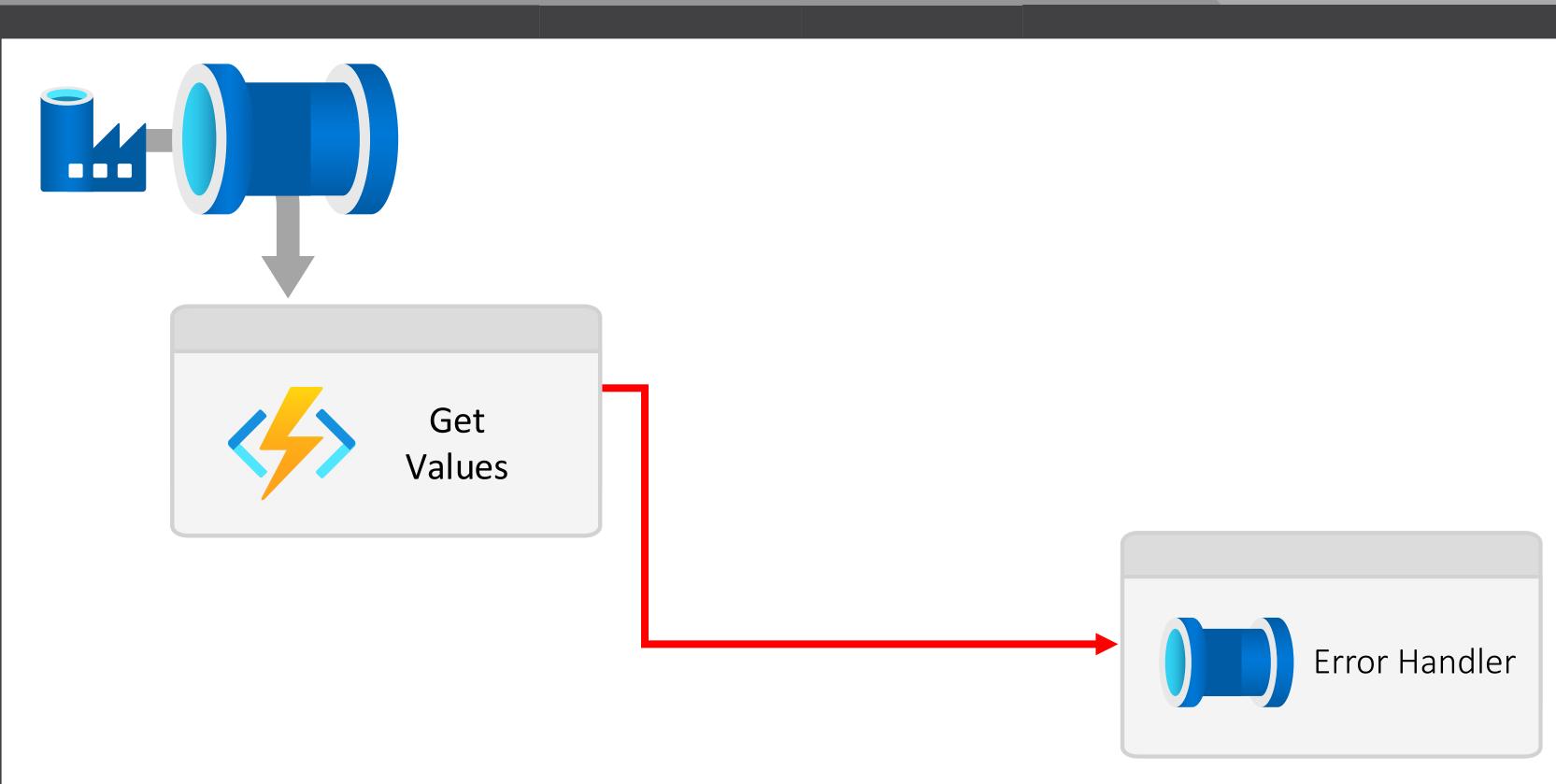






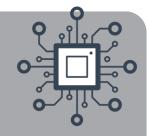
Execution On Failure

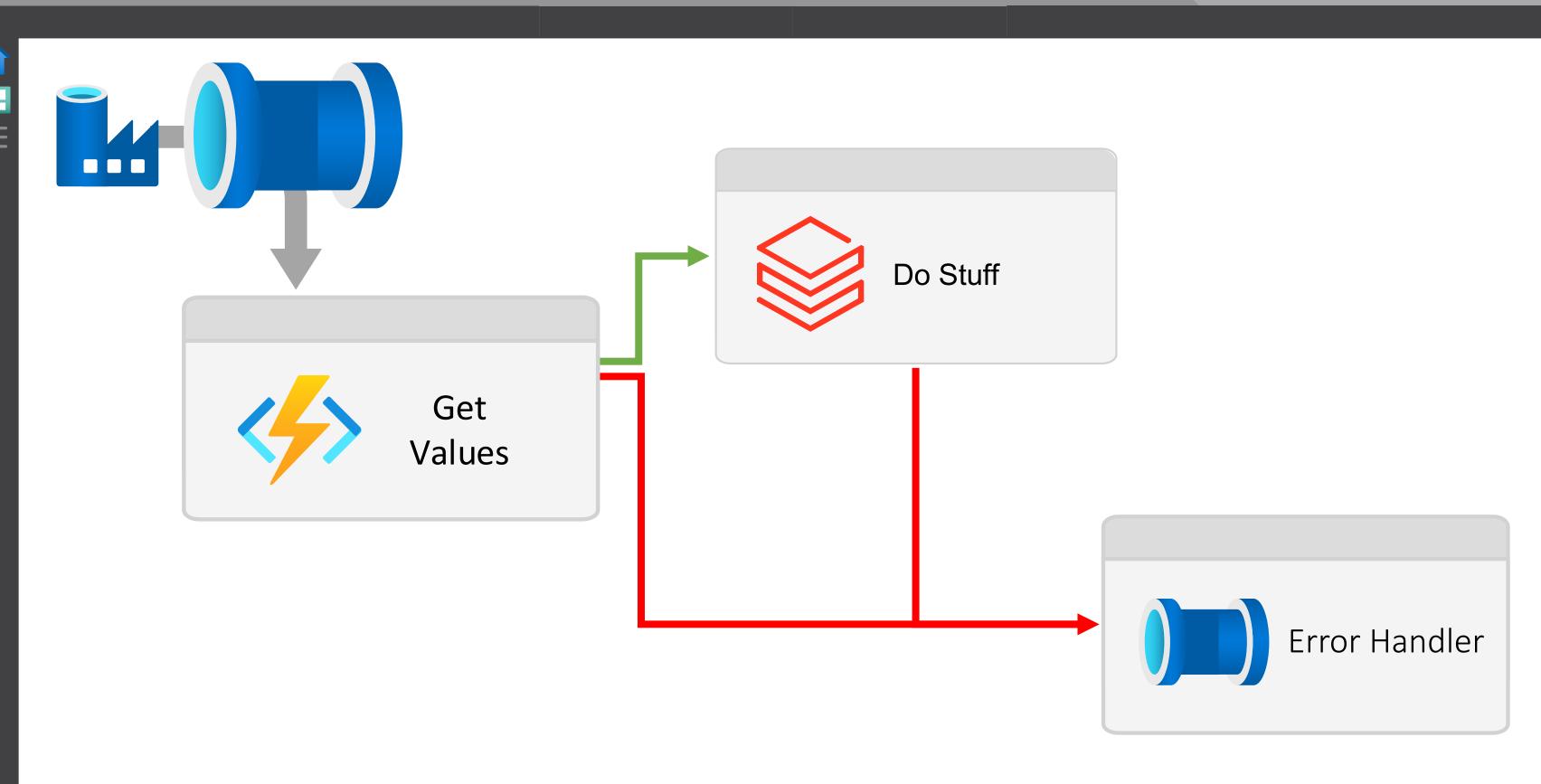






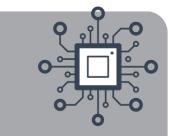
Execution On Failure or On Success

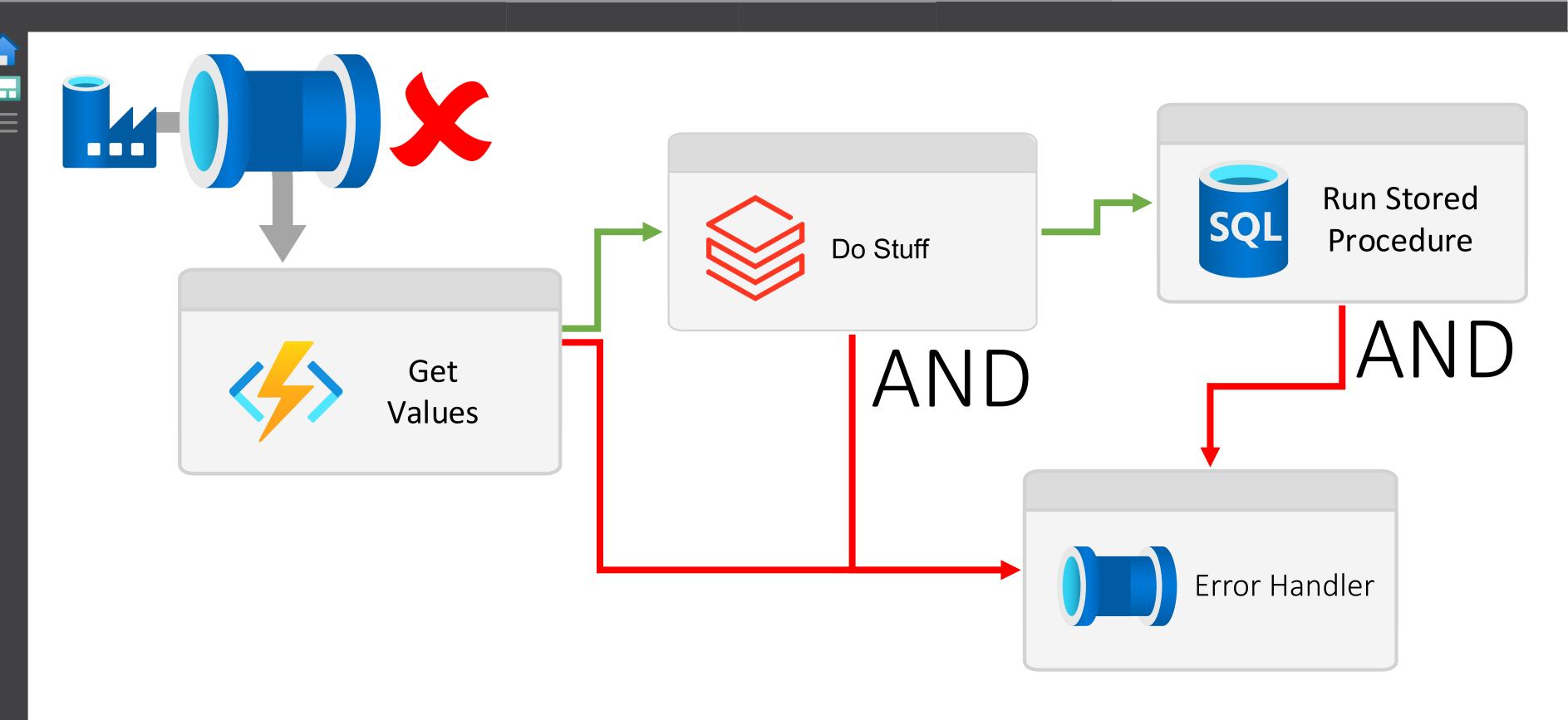






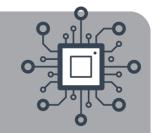
Execution On ???

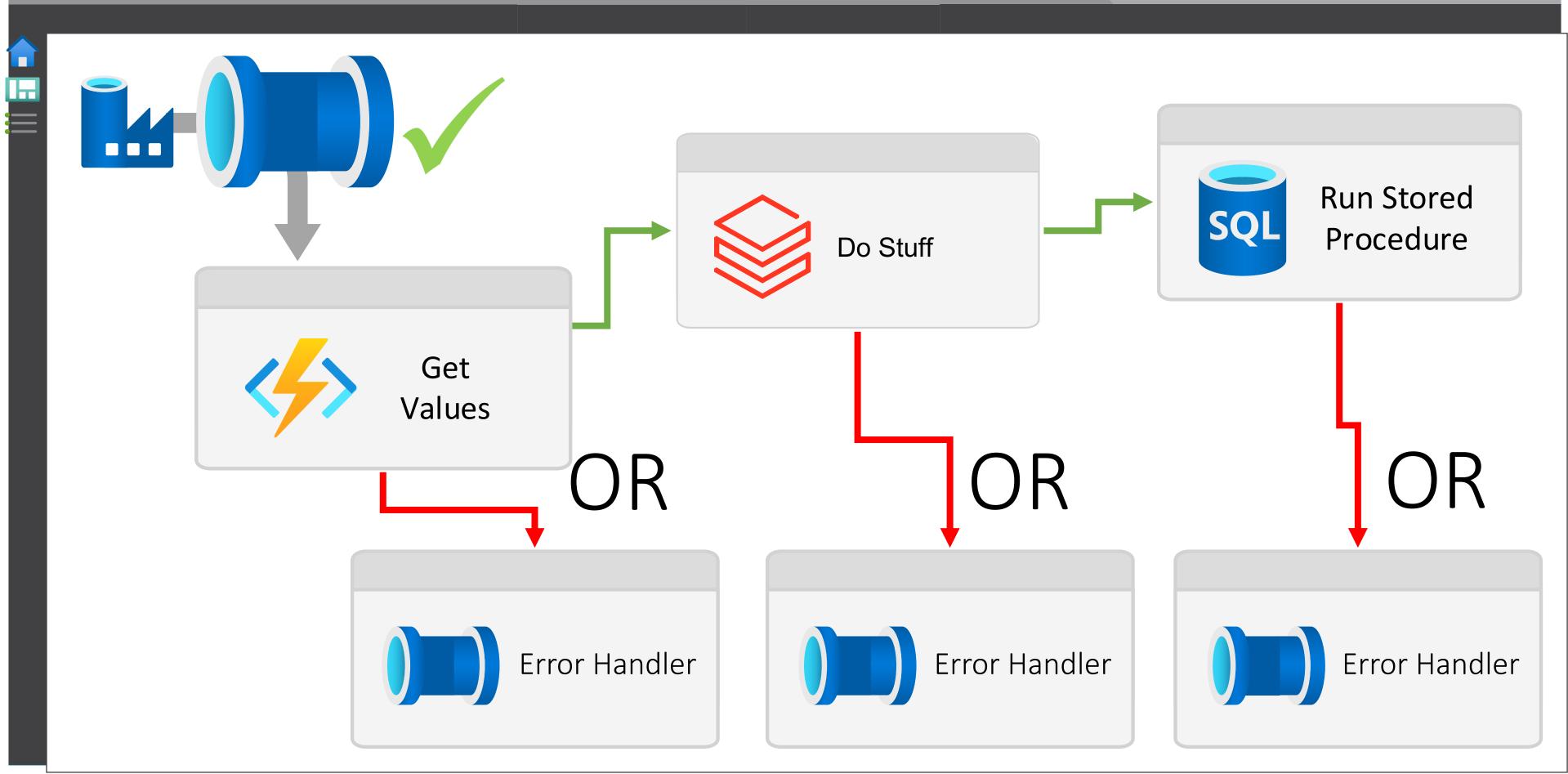






Execution On Failure or On Success





```
SELECT
    [Contents]
FROM
    [Training]
WHERE
    [Module] = '1';
   --module, fetch next
```

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