Module 1: Data Factory Fundamentals

What is it and why use it?

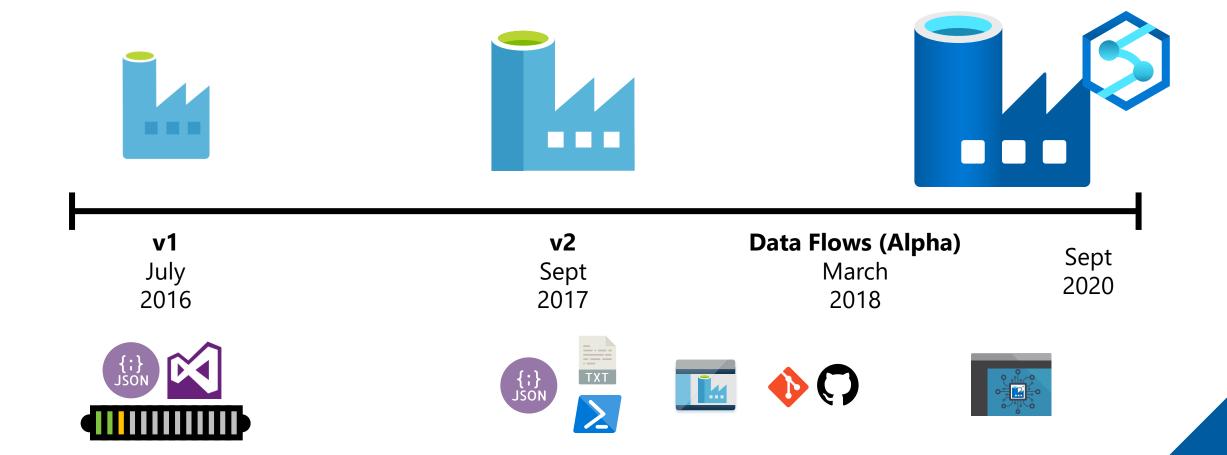
Resource Components

Common Activities

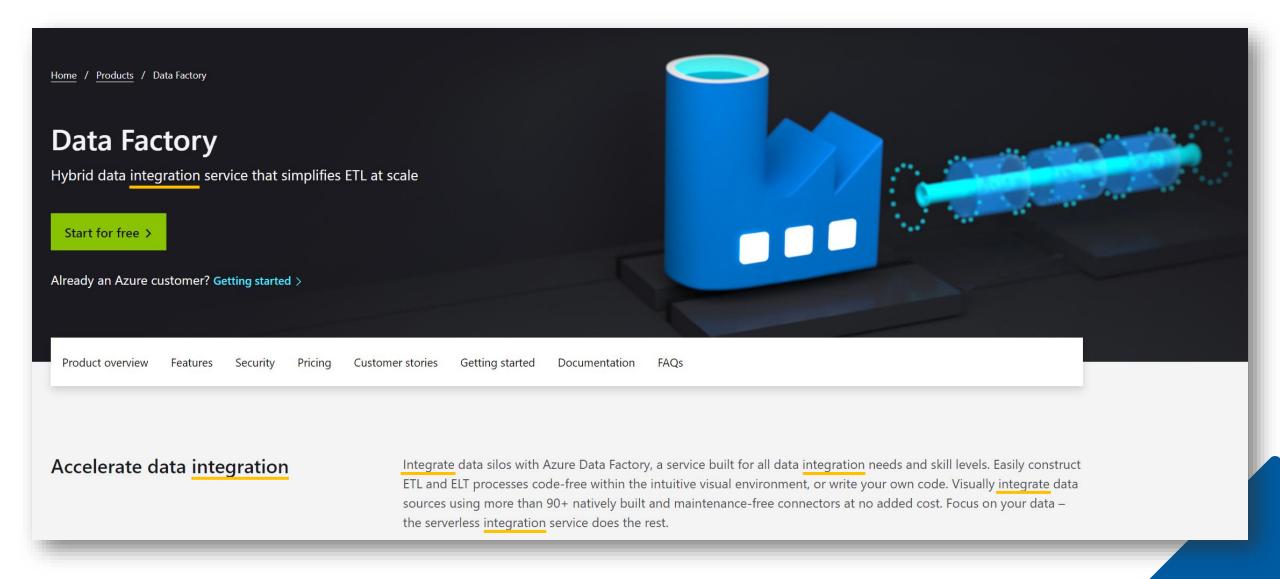
Execution Dependencies

Azure Data Factory – What is it? Why use it?

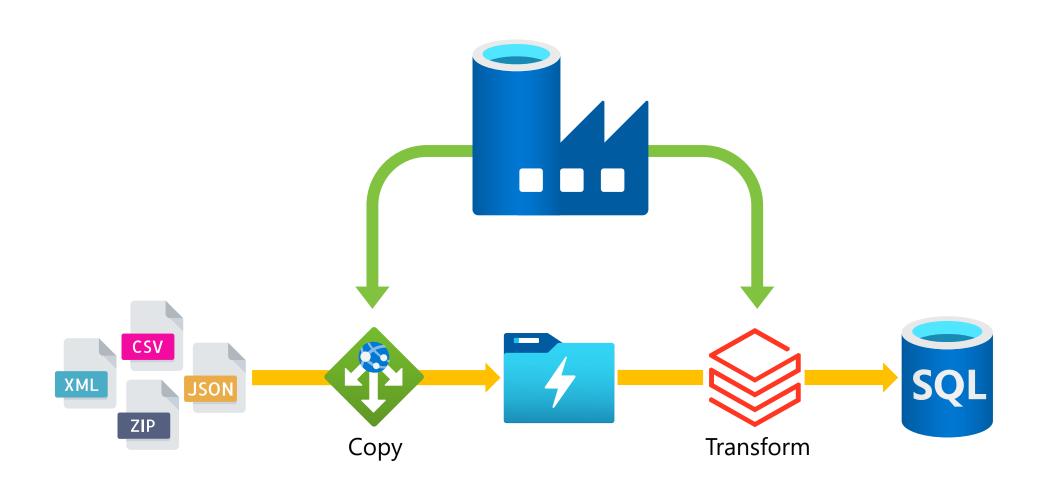
A Quick History Lesson



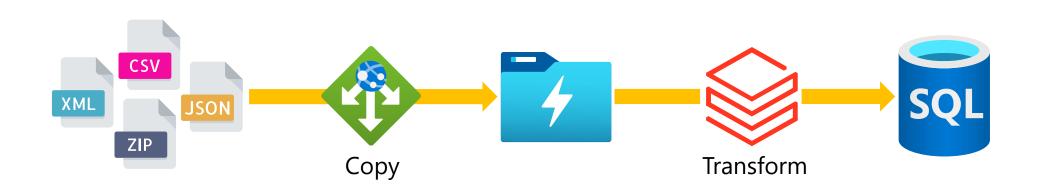
What is Azure Data Factory (ADF)?



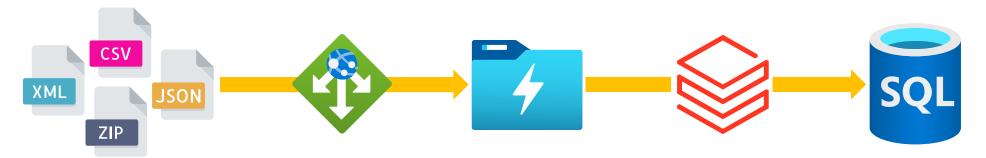
What is Azure Data Factory (ADF)?

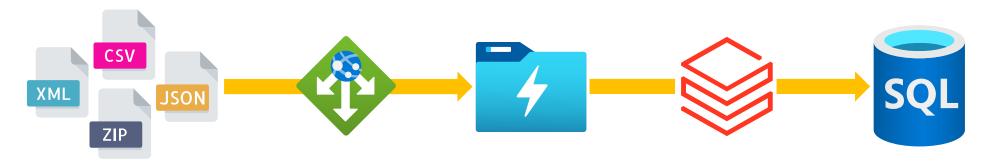


What is Azure Data Factory (ADF)?



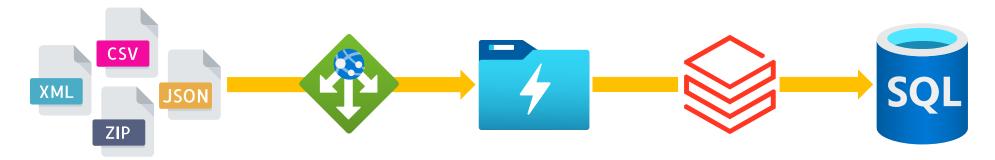
Resource Components



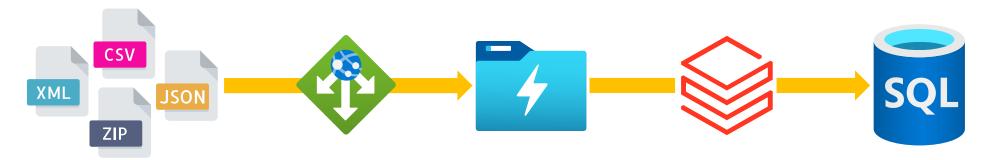


1 Linked Services – What to interact with and how?





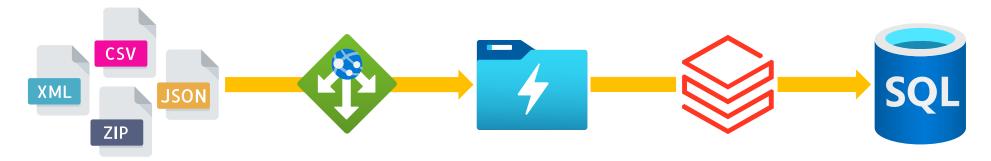
1 Linked Services



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







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

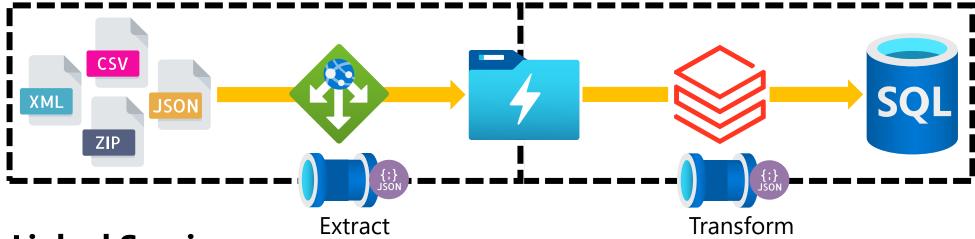


notebookPath: /Playground/Playing

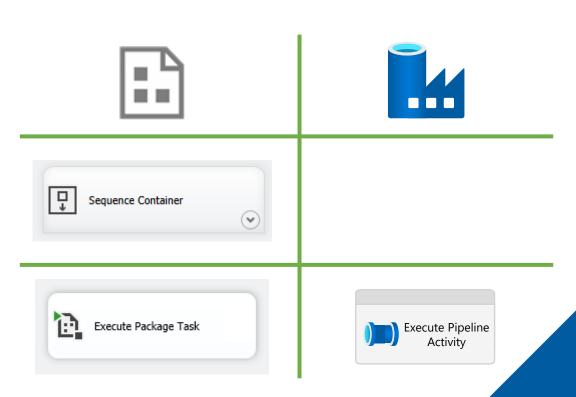
baseParameters: Testing

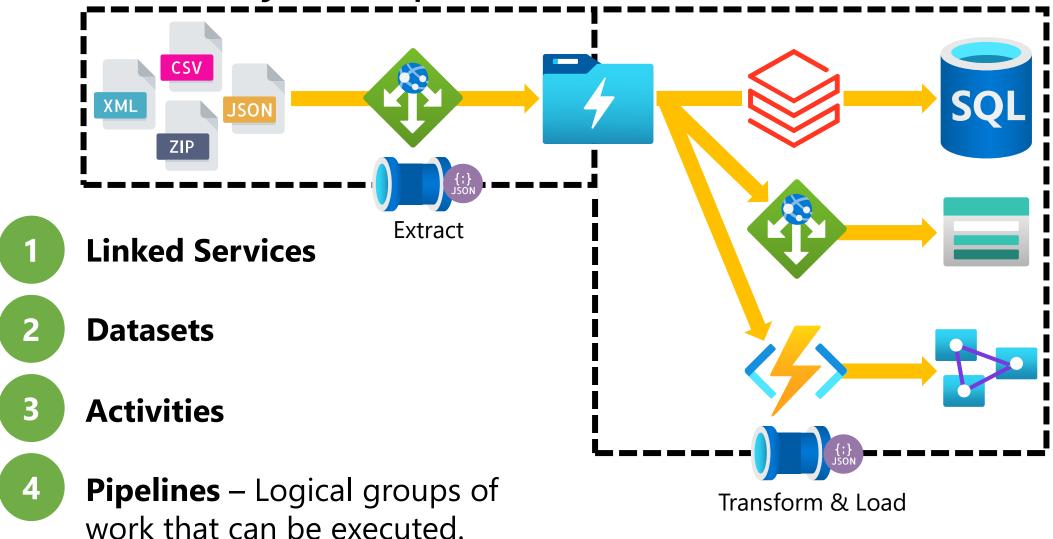
libraries[jar]: dbfs:/lib1.jar

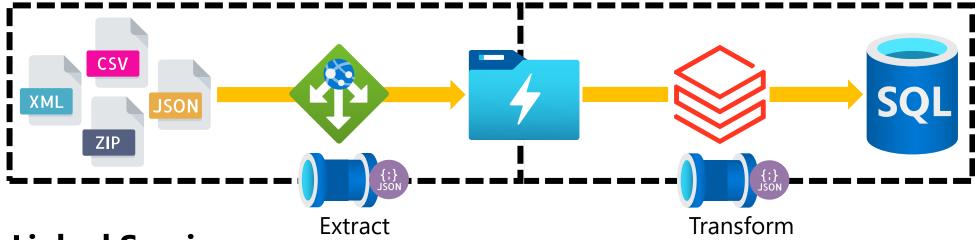
linkedServiceName: BricksOfData01



- 1 Linked Services
- 2 Datasets
- 3 Activities
- 4 **Pipelines** Logical groups of work that can be executed.

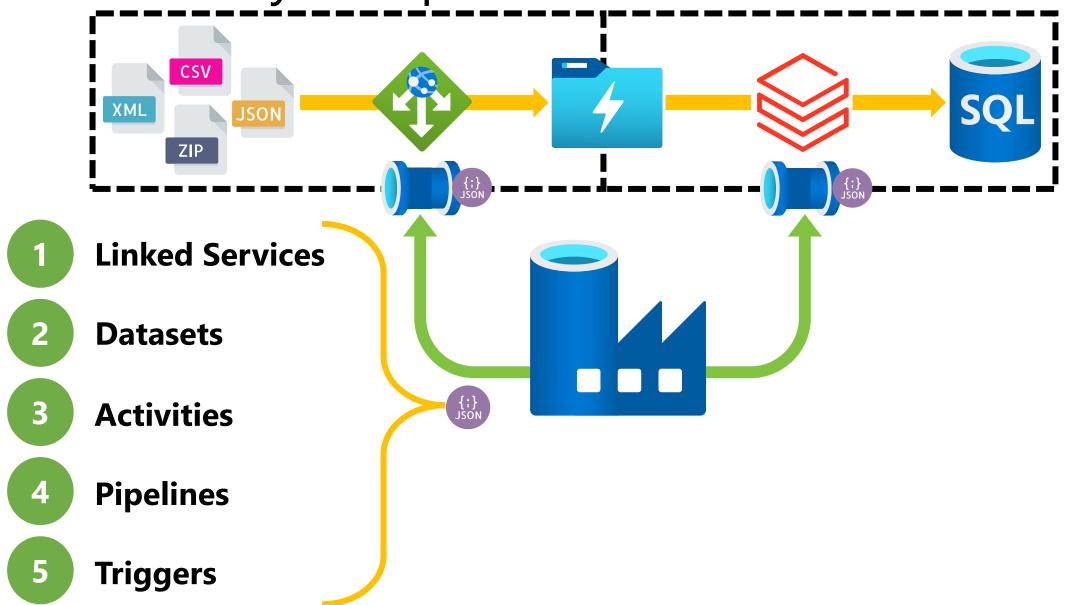




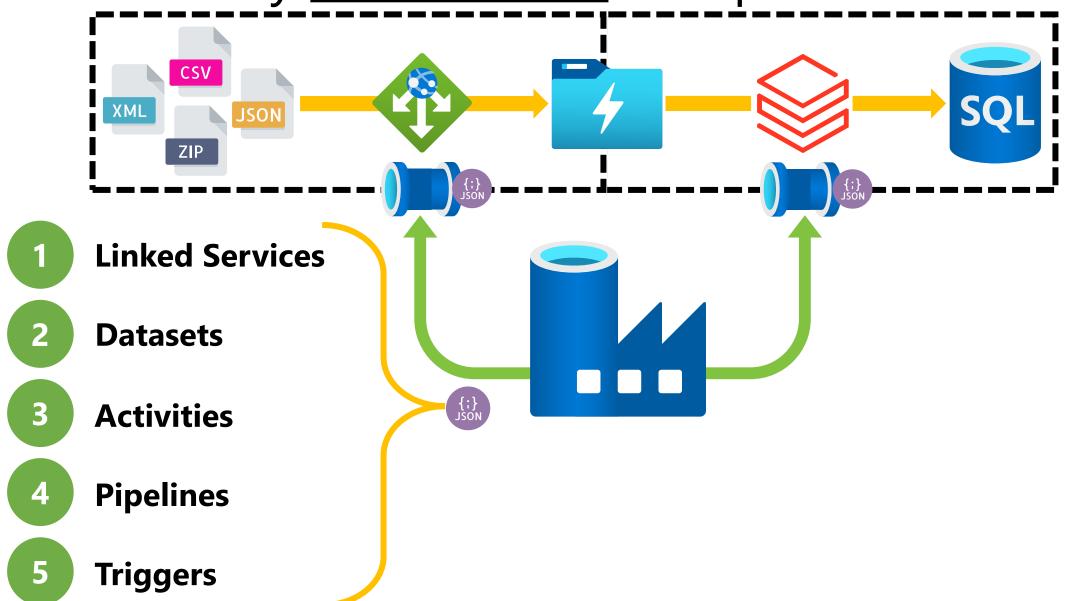


- 1 Linked Services
- 2 Datasets
- 3 Activities
- 4 Pipelines
- **Triggers** Telling our when pipelines to run.



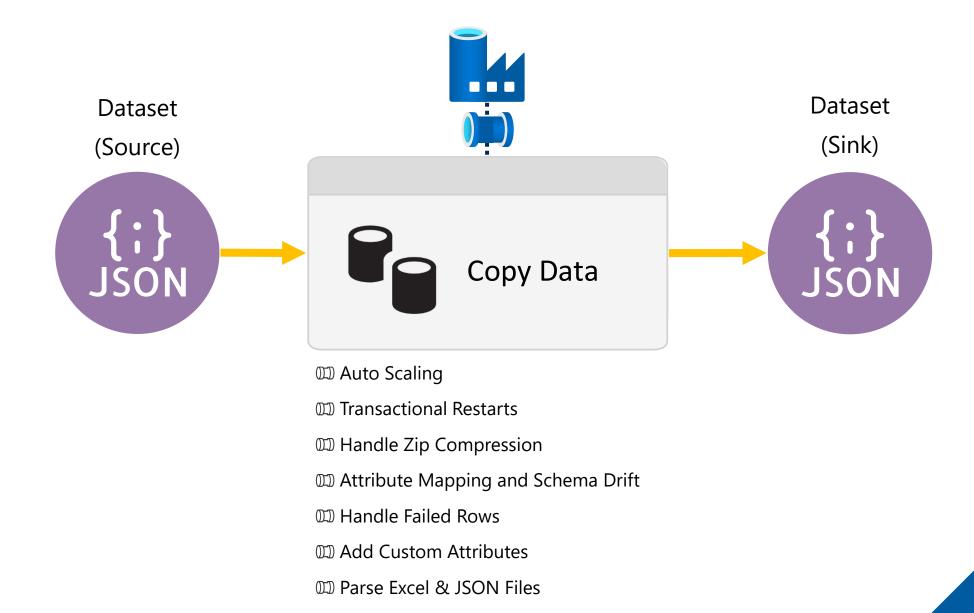


Data Factory Control Flow Components



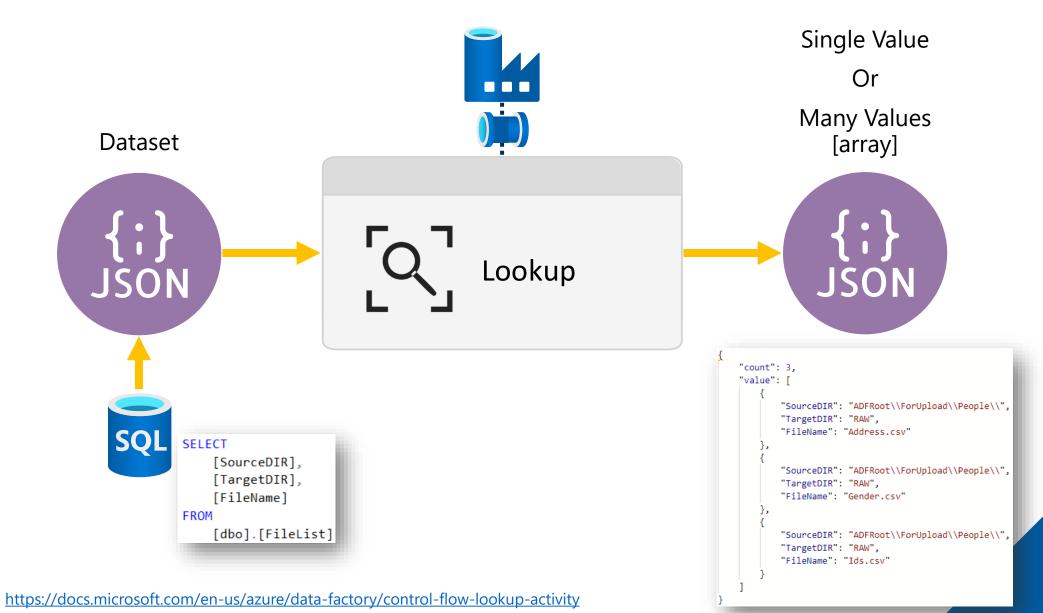
Common Activities

Copy



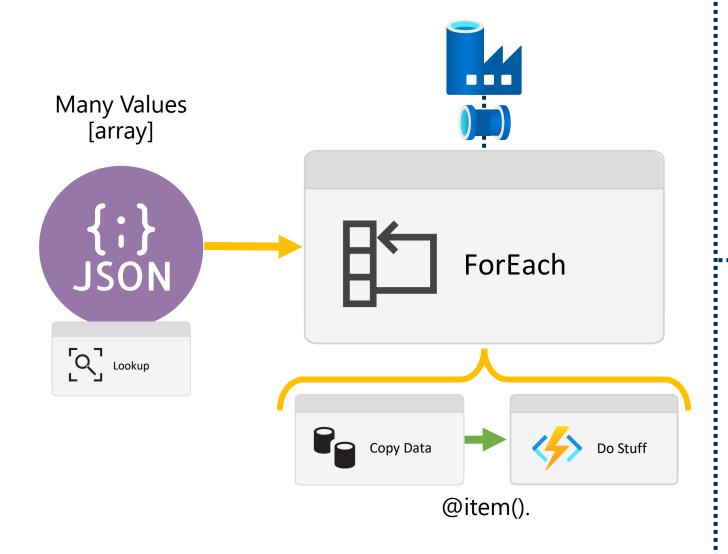
Lookup

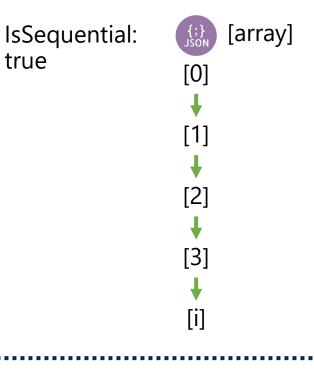
Get Metadata to Support Other Control Flow Activities

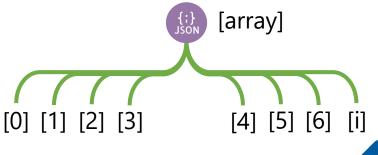


ForEach

Scaling Out Control Flow Activities



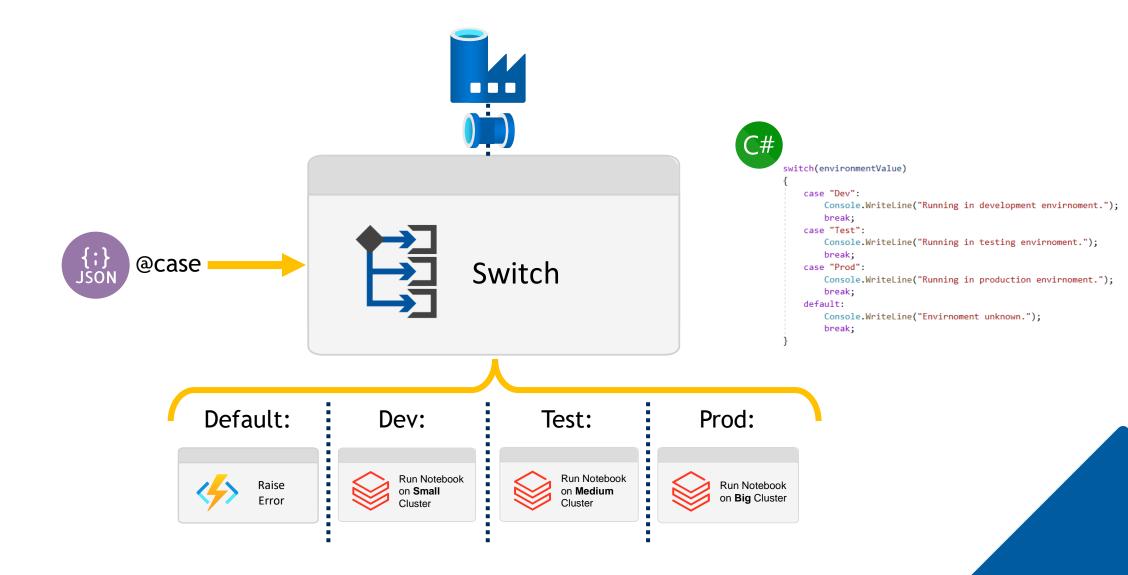




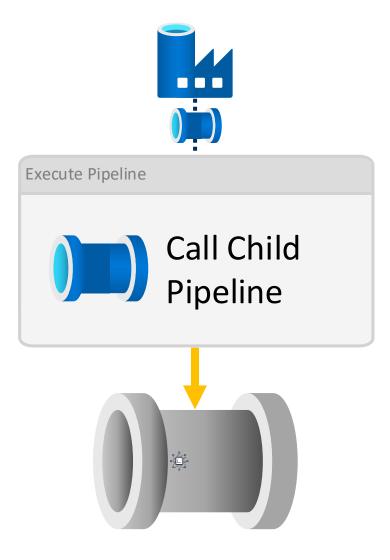
Batch Count Default: 20

Batch Count Max: 50

Switch

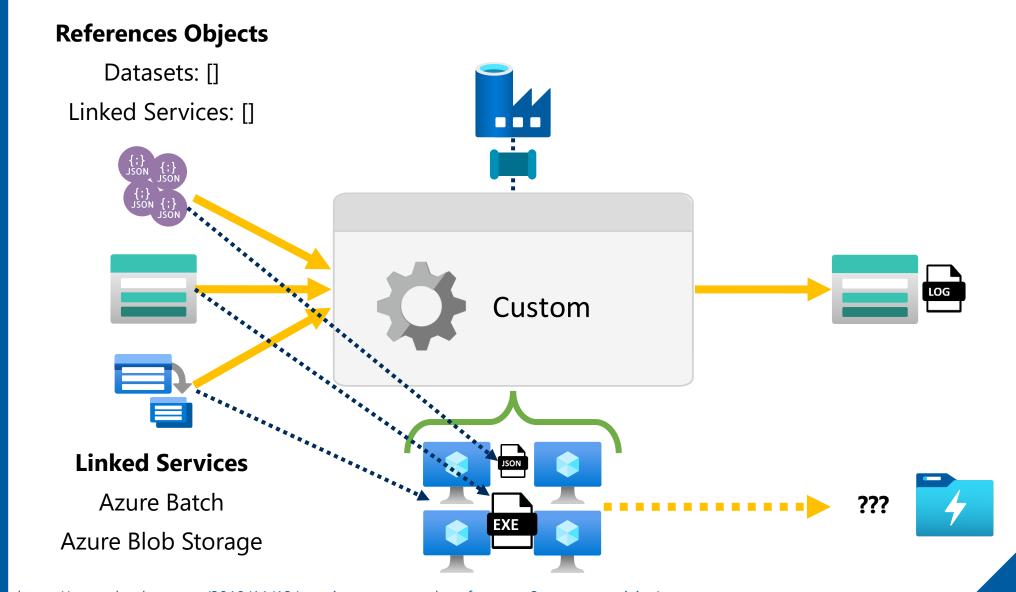


Execute Pipeline



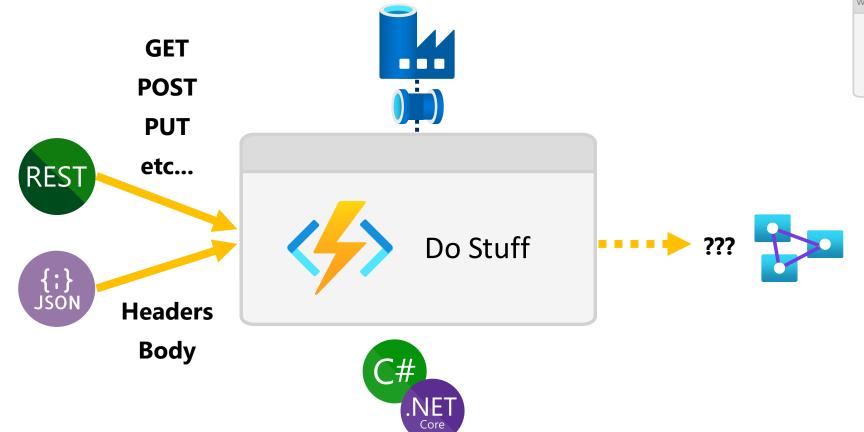
Custom

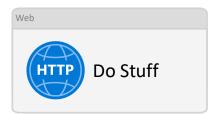
Extend Data Factory with Custom Code

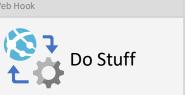


Azure Function

Extend Data Factory with Rest Calls

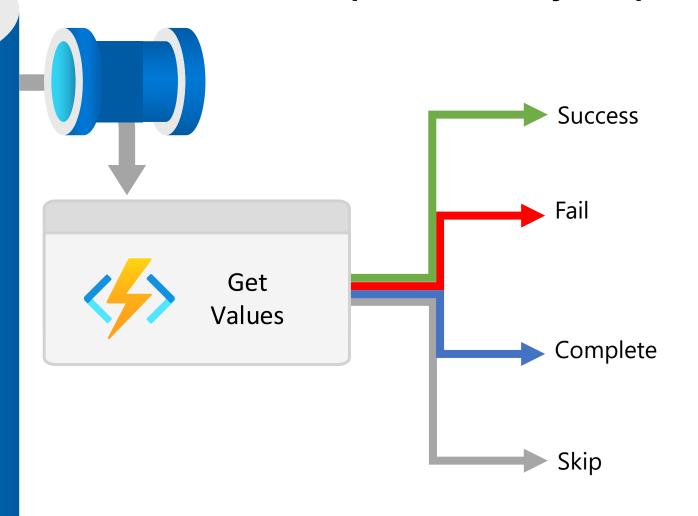




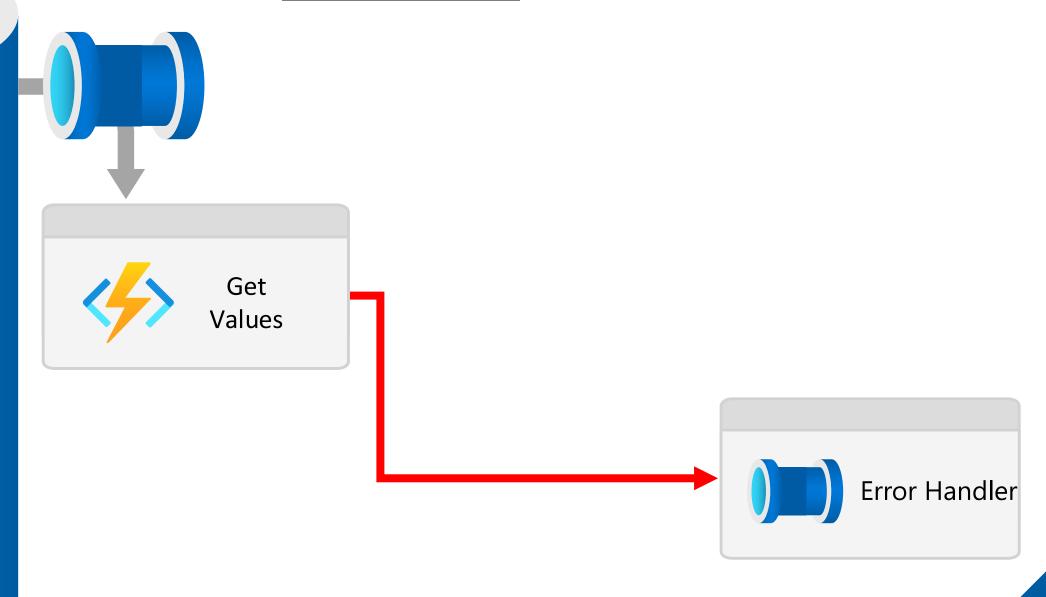


Execution Dependencies

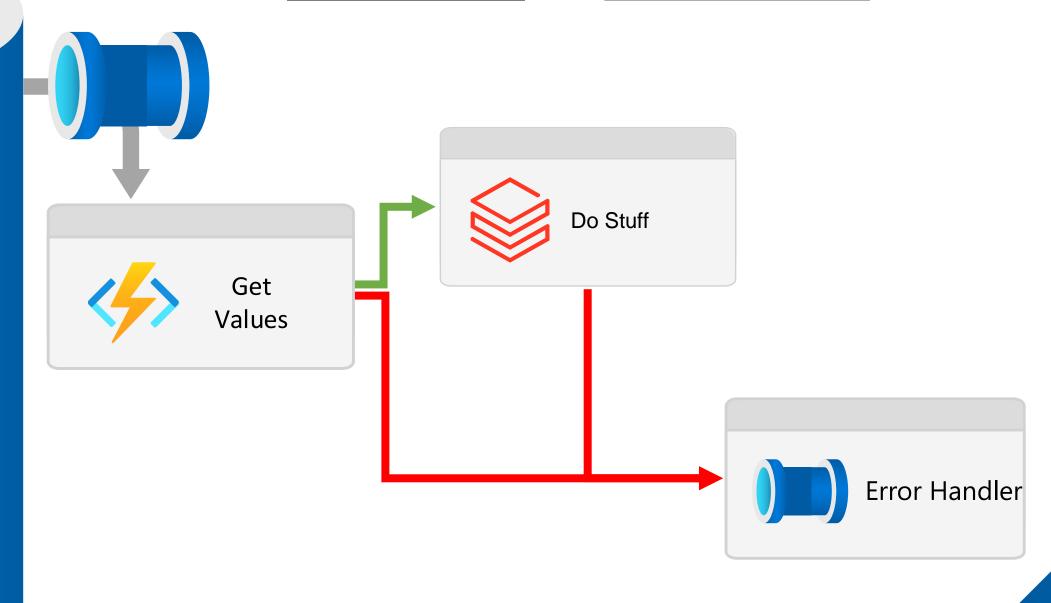
Execution Dependency Options



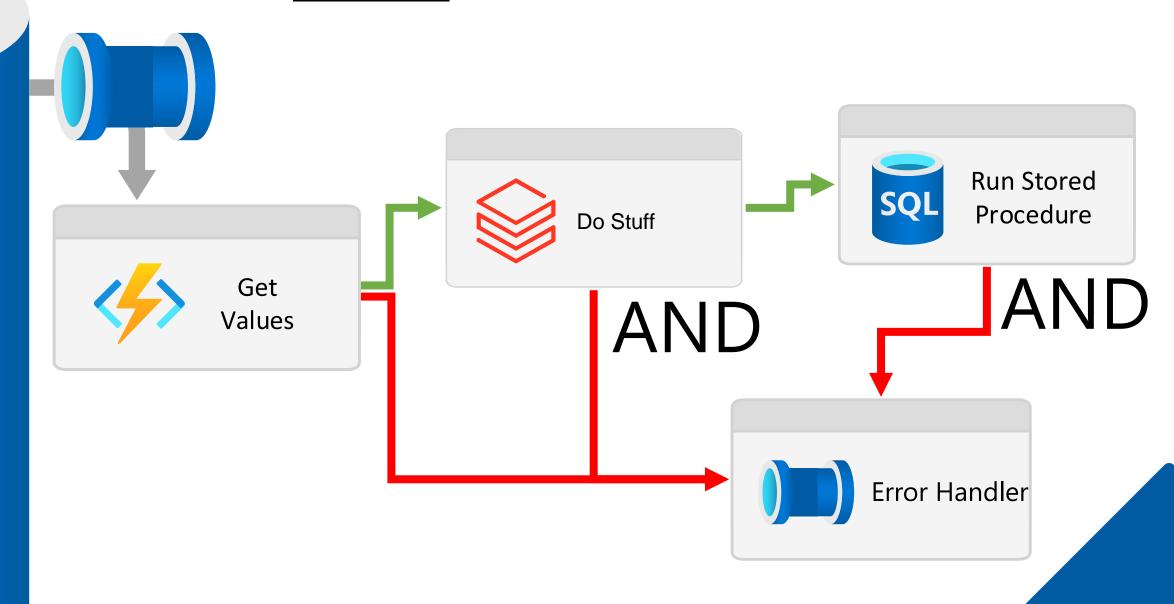
Execution On Failure



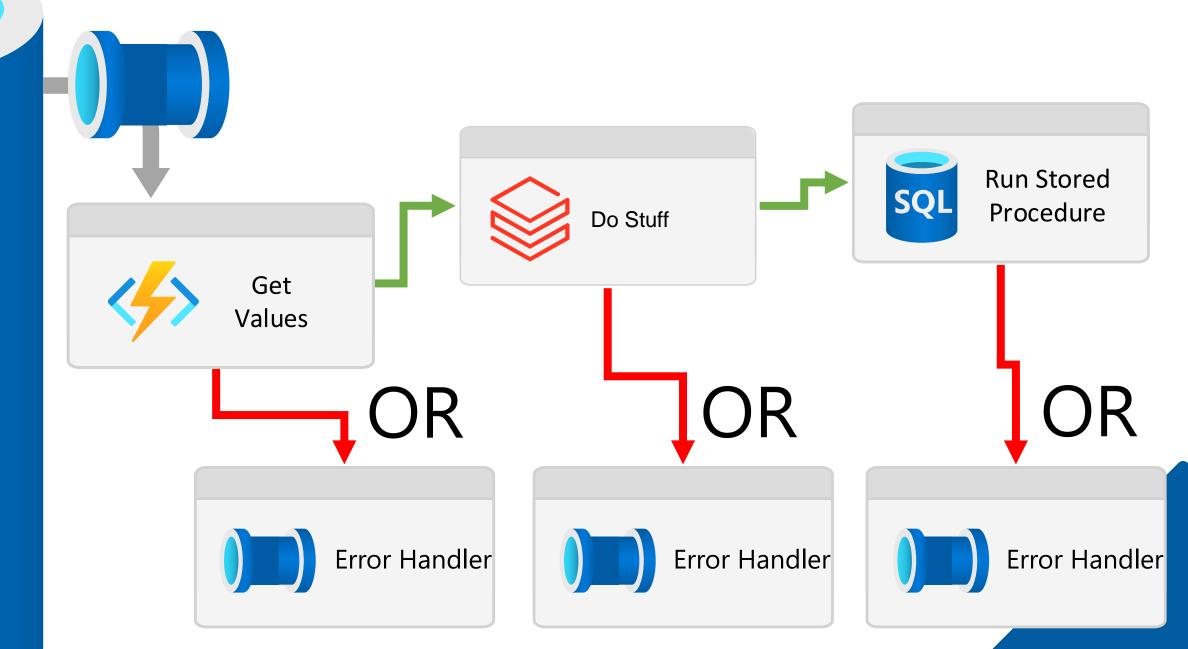
Execution On Failure or On Success



Execution On ???



Execution On Failure or On Success



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- What is it and why use it?
- **©**Resource Components
- **Common Activities**
- © Execution Dependencies