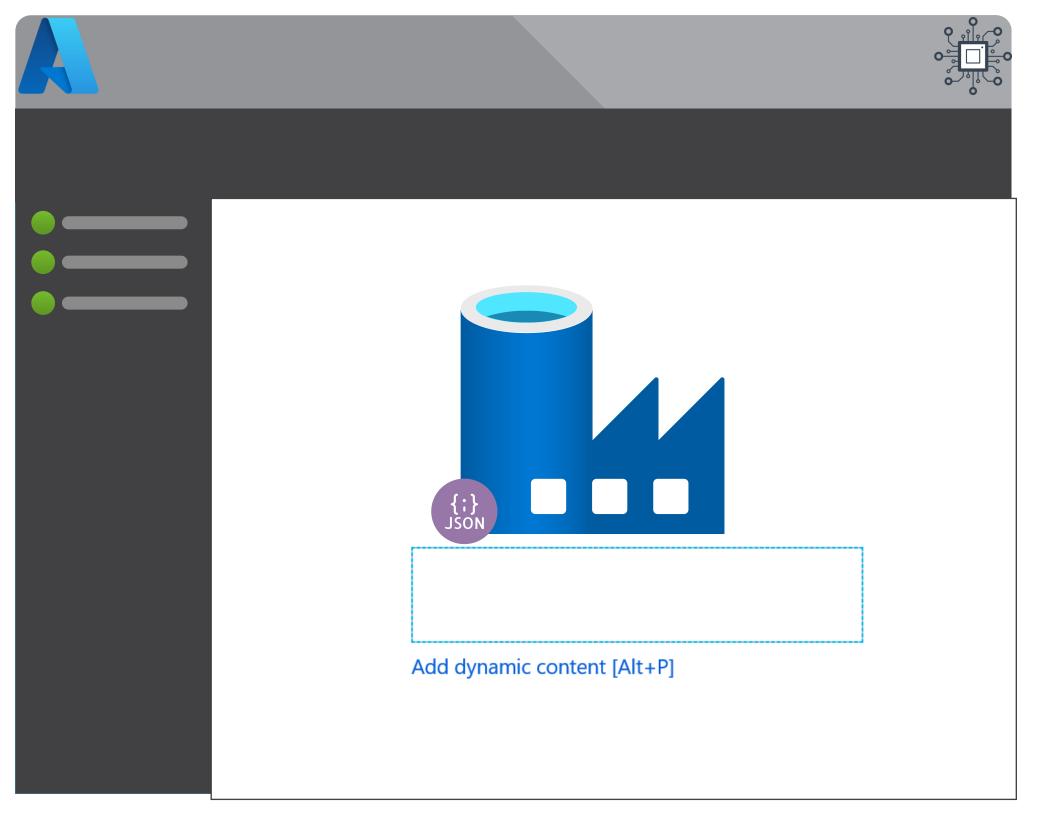
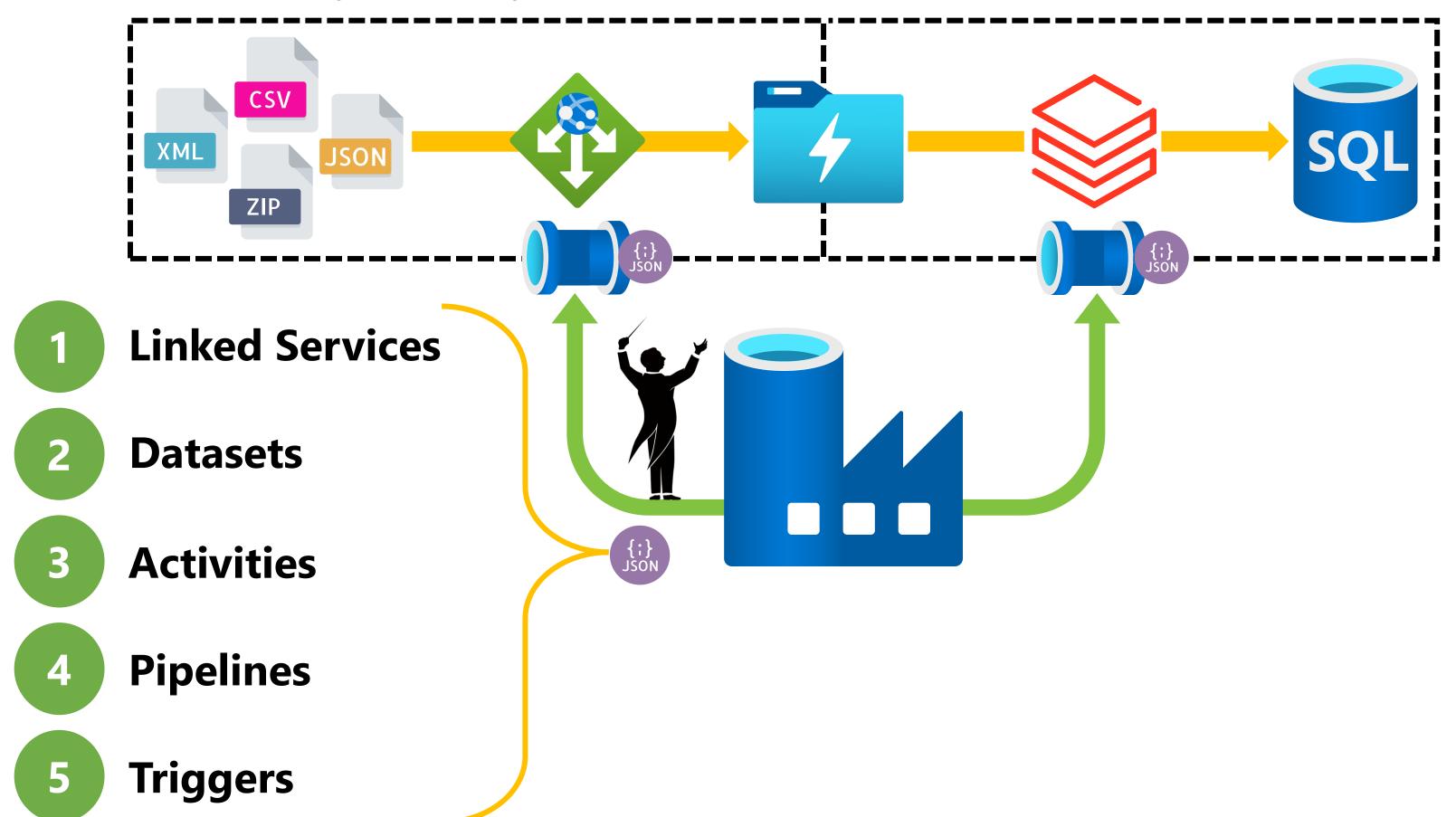


- Expressions & Interpolation
- Simple Metadata Driven Execution
- Dynamic Content Chains
- Reference Names

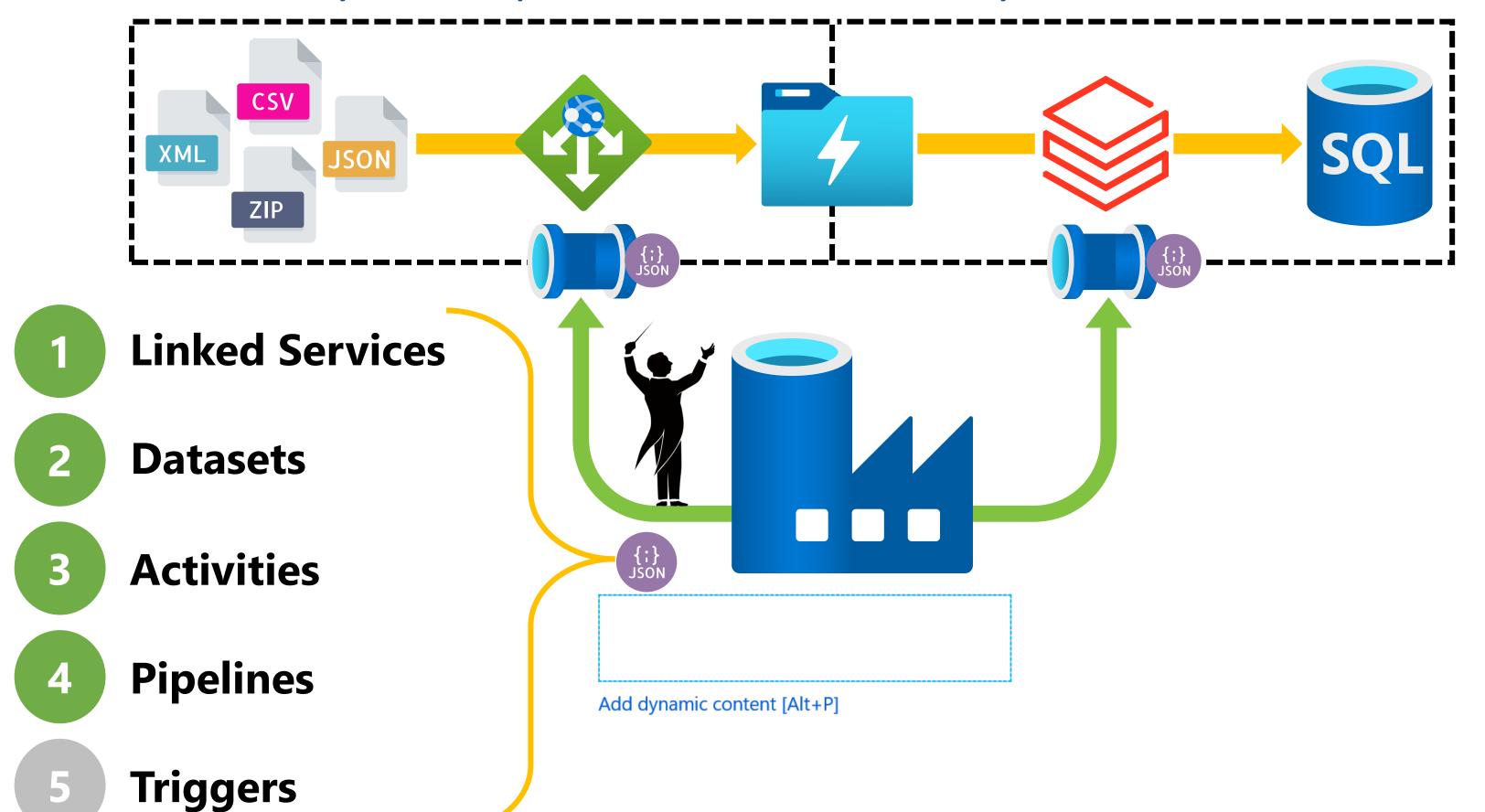


- Expressions & Interpolation
- Simple Metadata Driven Execution
- Dynamic Content Chains
- Reference Names

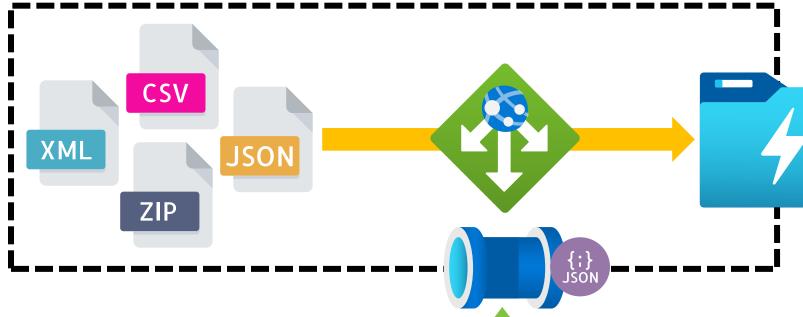
### Data Factory Components



### Data Factory Components – Add Dynamic Content



### Control Flow Expressions



- 1 Linked Services
- 2 Datasets
- 3 Activities
- 4 Pipelines
- 5 Triggers



#### Add dynamic content

### pipeline().parameters.DemoParam

#### Clear contents

> Filter...

Use expressions, functions or refer to system variables.

#### System variables

#### Data factory name

Name of the data factory the pipeline run is running within

#### Pipeline Name

Name of the pipeline

#### Pipeline run ID

ID of the specific pipeline run

#### Pipeline trigger ID

ID of the trigger that invokes the pipeline

#### Pipeline trigger name

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 sch...

#### Pipeline trigger type

Type of the trigger that invoked the pipeline (Manual, Scheduler)

#### ▲ Functions

- ▼ Expand all
- Collection Functions
- Conversion Functions
- Date Functions
- Logical Functions
- Math Functions
- String Functions

https://docs.microsoft.com/en-us/azure/data-factory/control-flow-expression-language-functions

### Control Flow Expressions

Save Save as template

```
Validate
```



```
"SomethingDynamic": {
   "value": "@pipeline().parameters.DemoParam",
   "type": "Expression"
```

'SomethingDynamic": "@pipeline().parameters.DemoParam"



# String Interpolation

```
"SomethingDynamic": "Hello World"
```

```
"parameters": {
   "DemoParam": {
  "type": "string",
  "defaultValue": "World"
```





Add dynamic content [Alt+P]

"SomethingDynamic": "Hello @{pipeline().parameters.DemoParam}"

#### Add dynamic content

### @pipeline().parameters.DemoParam



Clear contents

Use expressions, functions or refer to system variables.

#### System variables

#### Data factory name

Name of the data factory the pipeline run is running within

#### Pipeline Name

Name of the pipeline

#### Pipeline run ID

ID of the specific pipeline run

#### Pipeline trigger ID

ID of the trigger that invokes the pipeline

#### Pipeline trigger name

Name of the trigger that invokes the pipeline

#### Pipeline trigger time

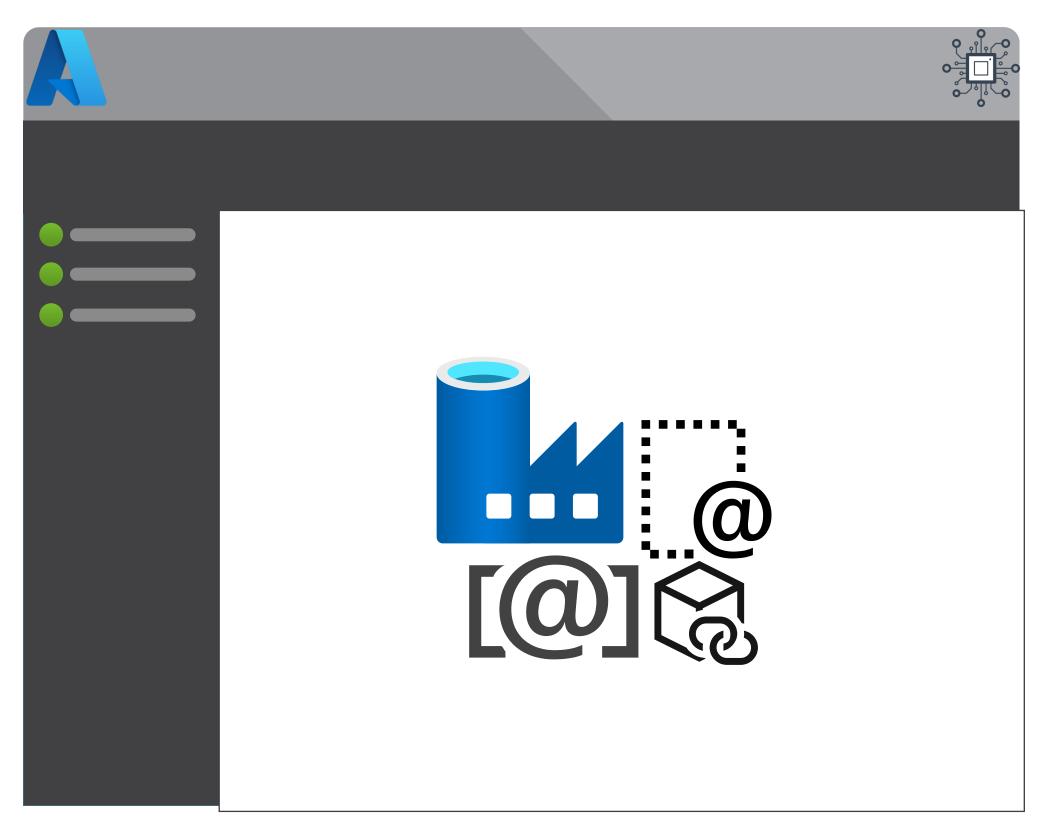
Time when the trigger that invoked the pipeline. The trigger time is the actual fired time, not the sch...

#### Pipeline trigger type

Type of the trigger that invoked the pipeline (Manual, Scheduler)

#### ▲ Functions

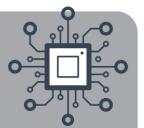
- ▼ Expand all
- Collection Functions
- Conversion Functions
- Date Functions
- Logical Functions
- Math Functions
- String Functions

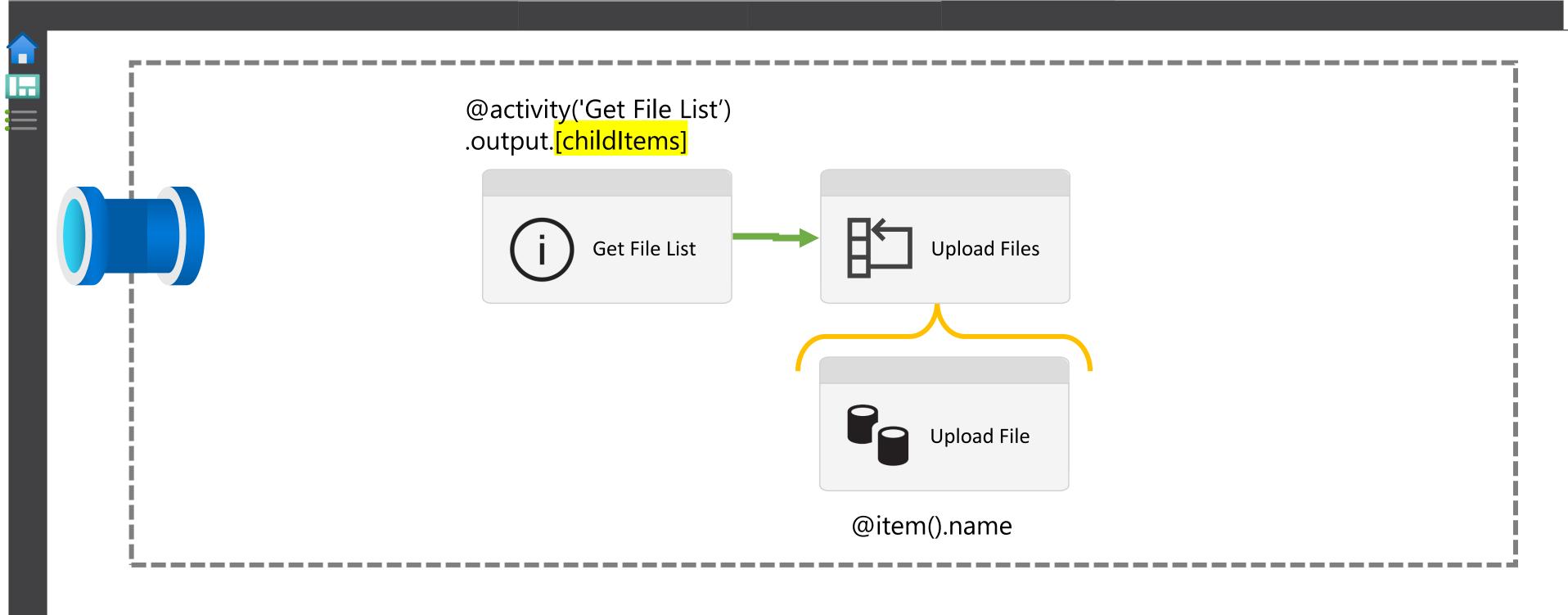


- Expressions & Interpolation
- Simple Metadata Driven Execution
  - Outputs
  - Global Parameters
  - Variables
- Dynamic Content Chains
- Reference Names



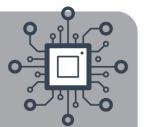
# Data Discovery and Upload

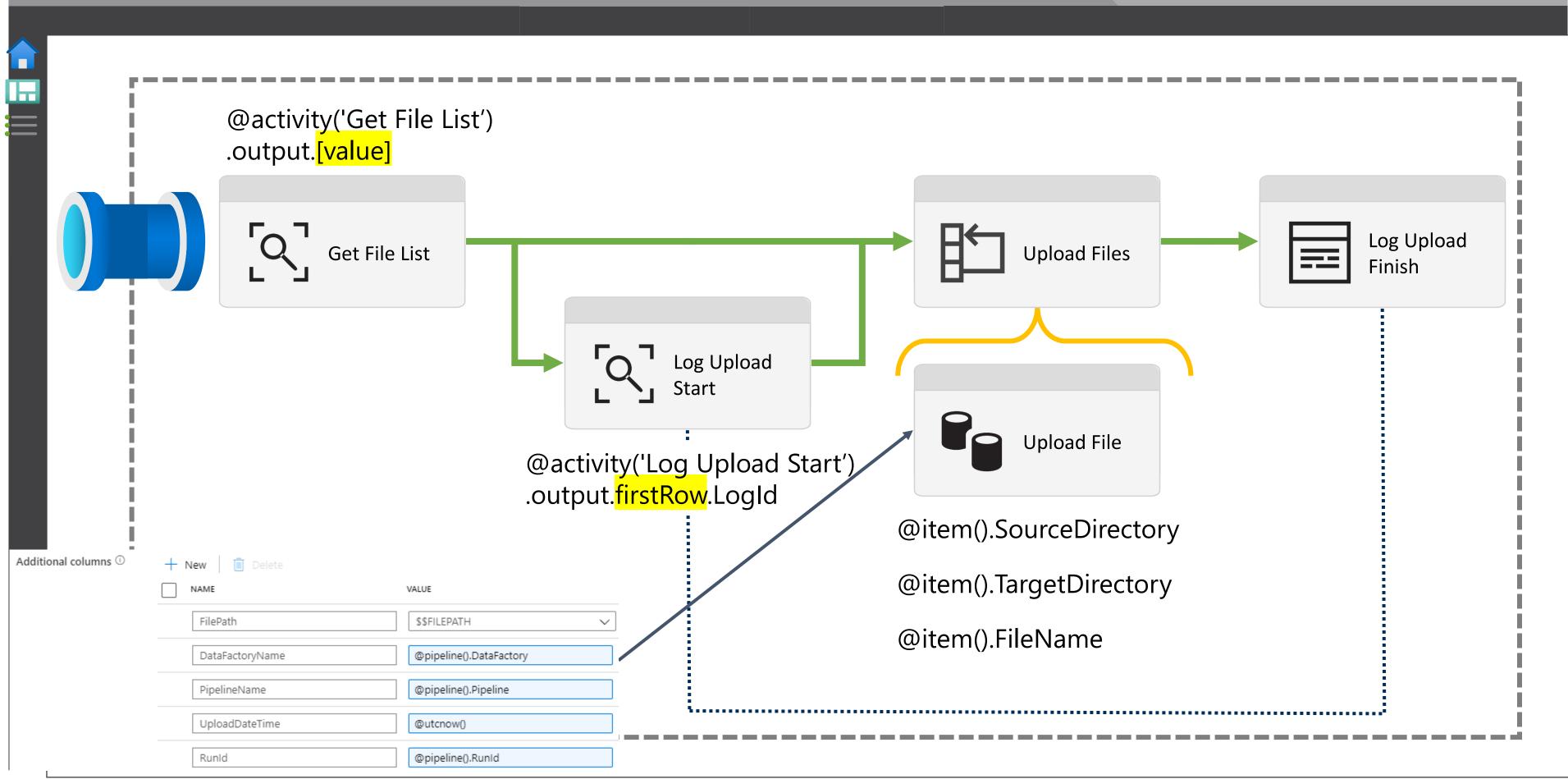






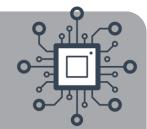
# Simple Metadata and Upload

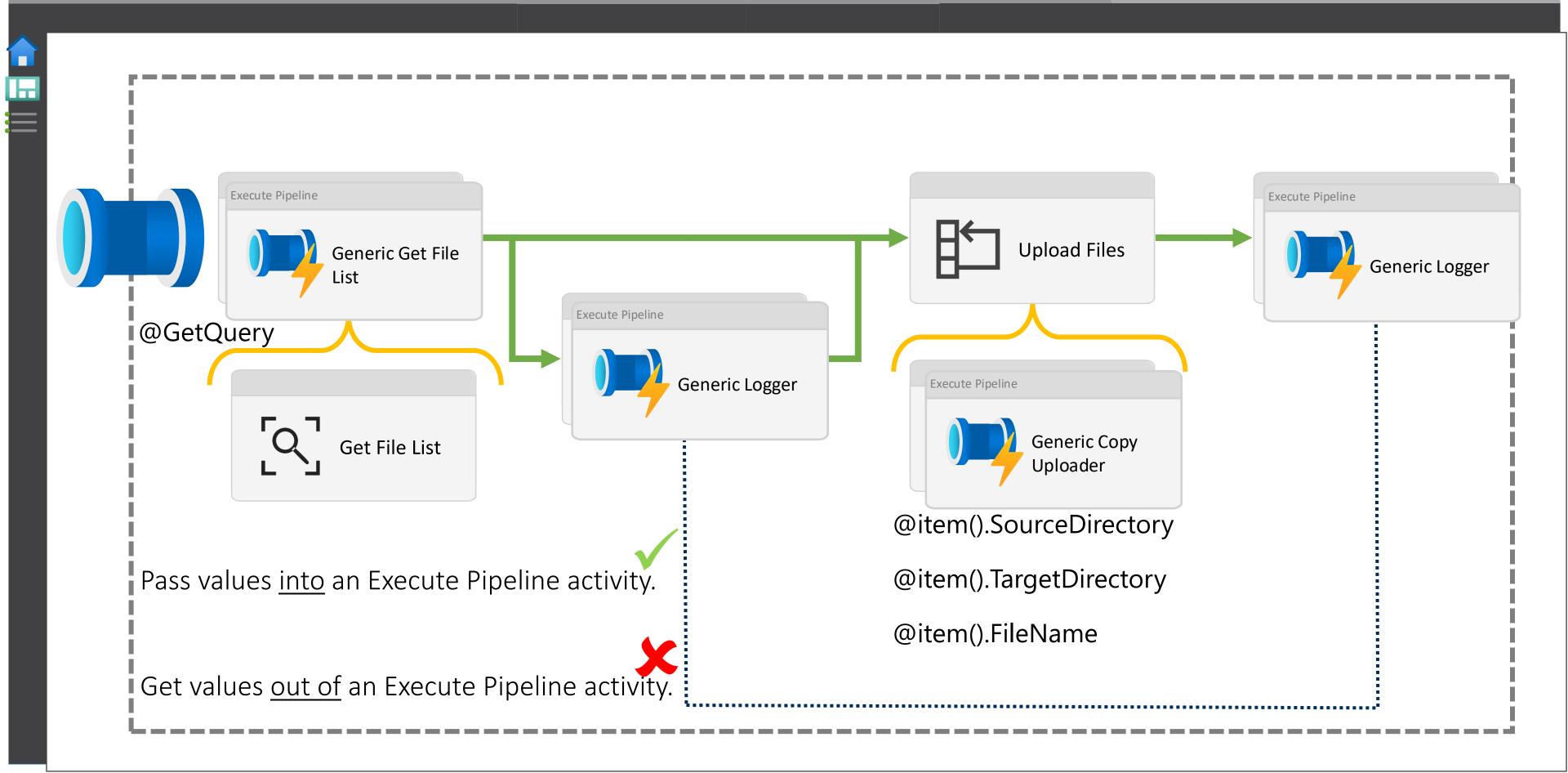






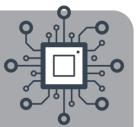
# Using Pipelines as Worker Components



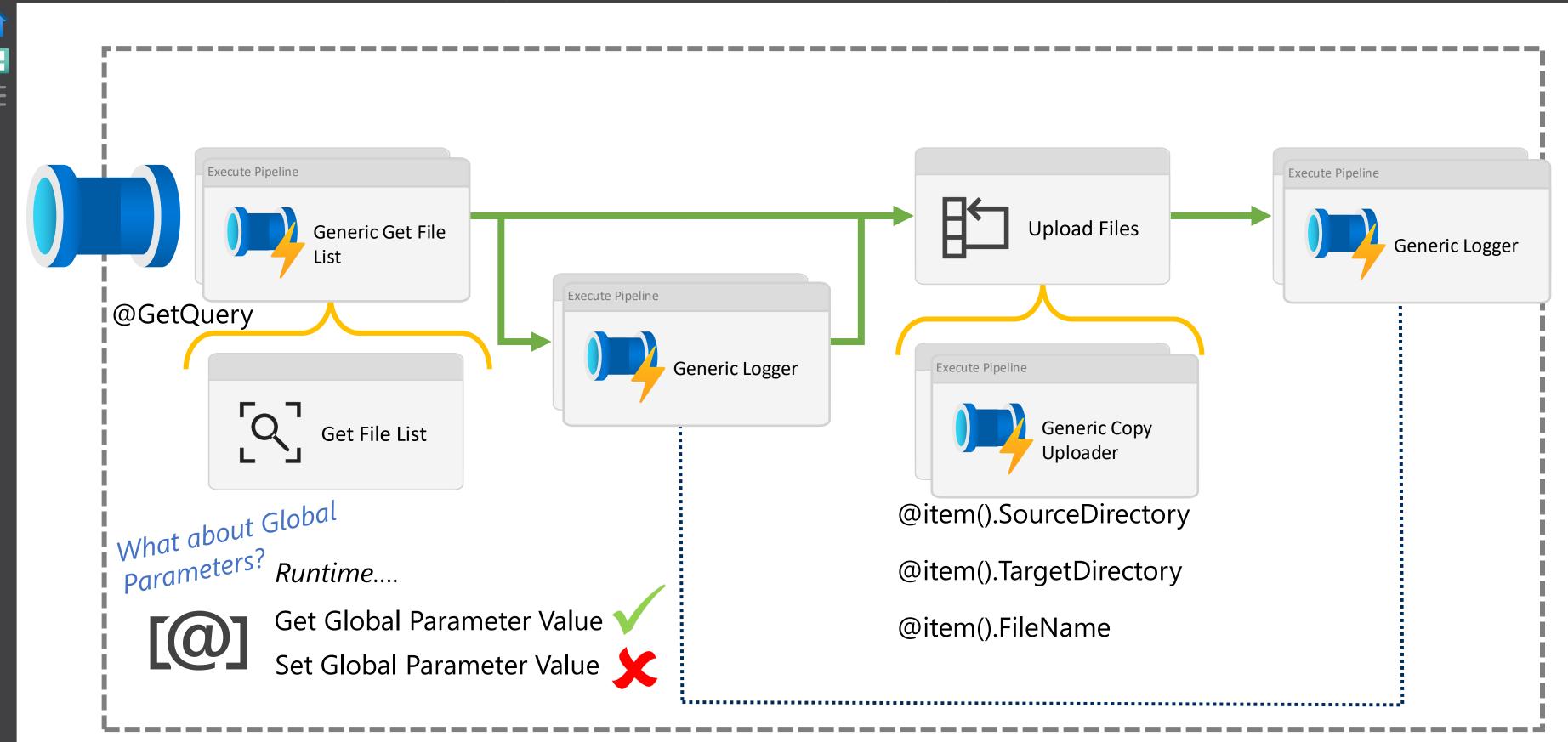




# Using Pipelines as Worker Components

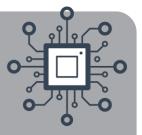


### With a Global Parameters

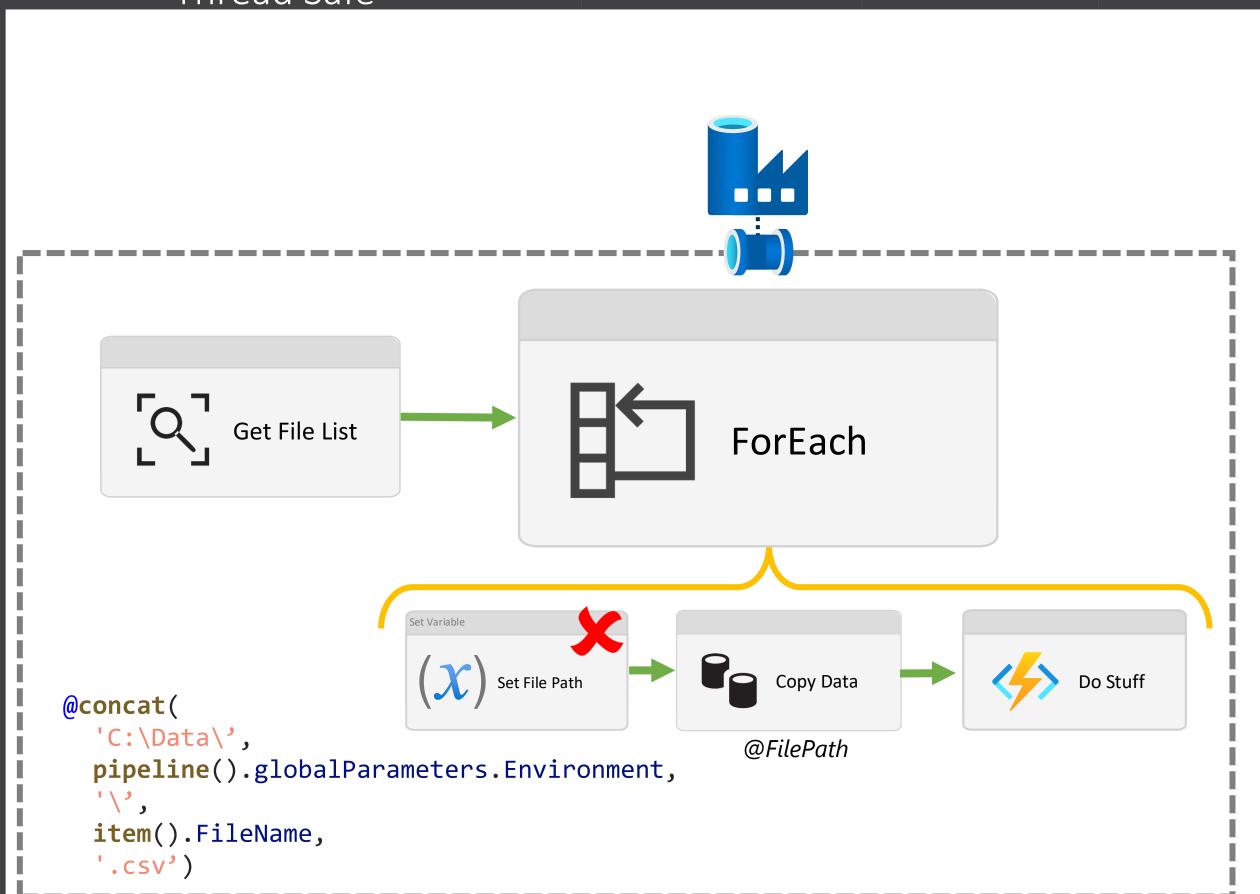


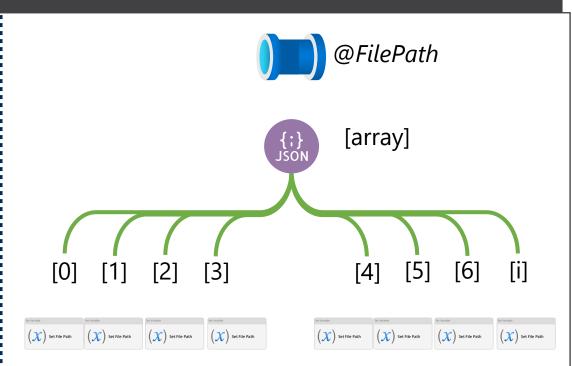


# Variable Scope



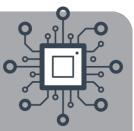




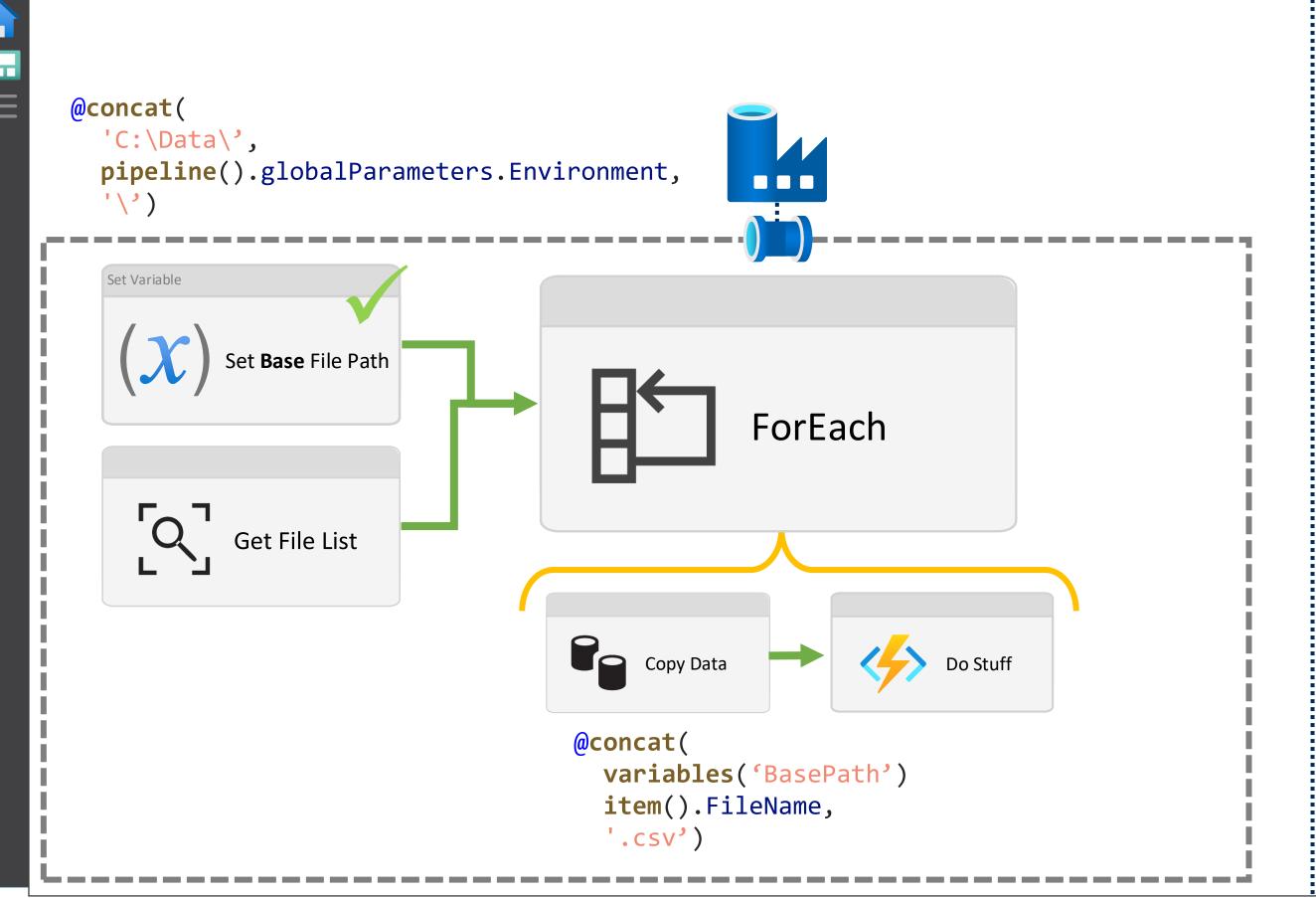


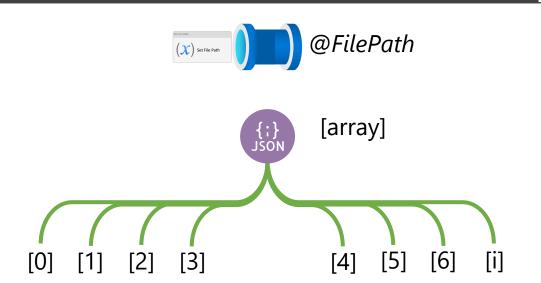


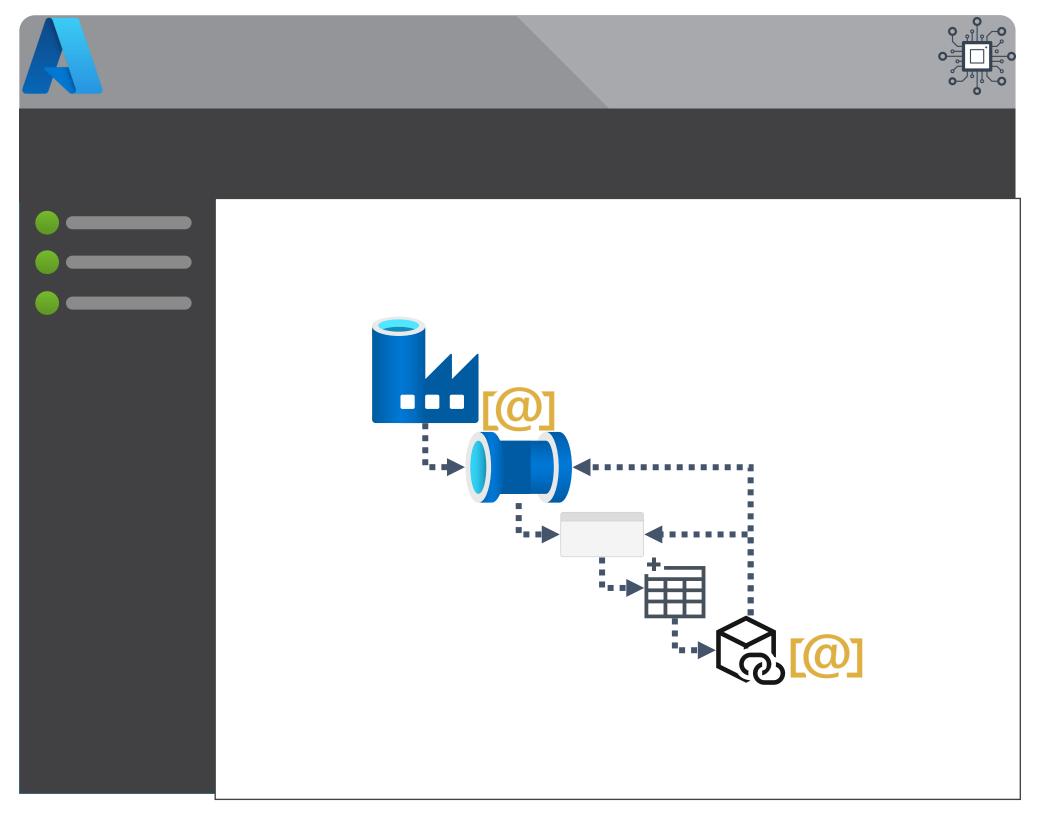
# Variable Scope



### Layering Expressions



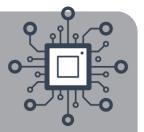


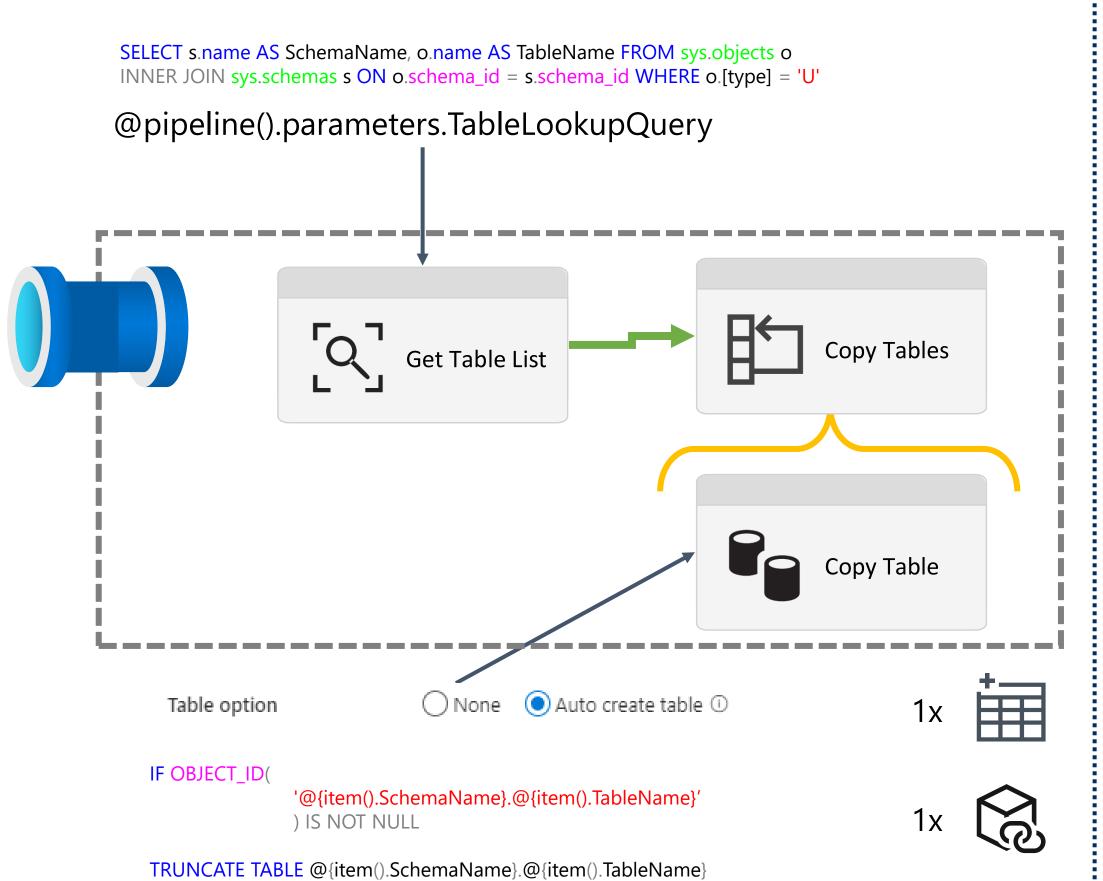


- Expressions & Interpolation
- Simple Metadata Driven Execution
- Dynamic Content Chains
- Reference Names



# Lazy SQLDB Replication



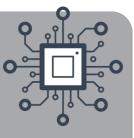


@pipeline().parameters.SourceConnectionSecret
@pipeline().parameters.TargetConnectionSecret

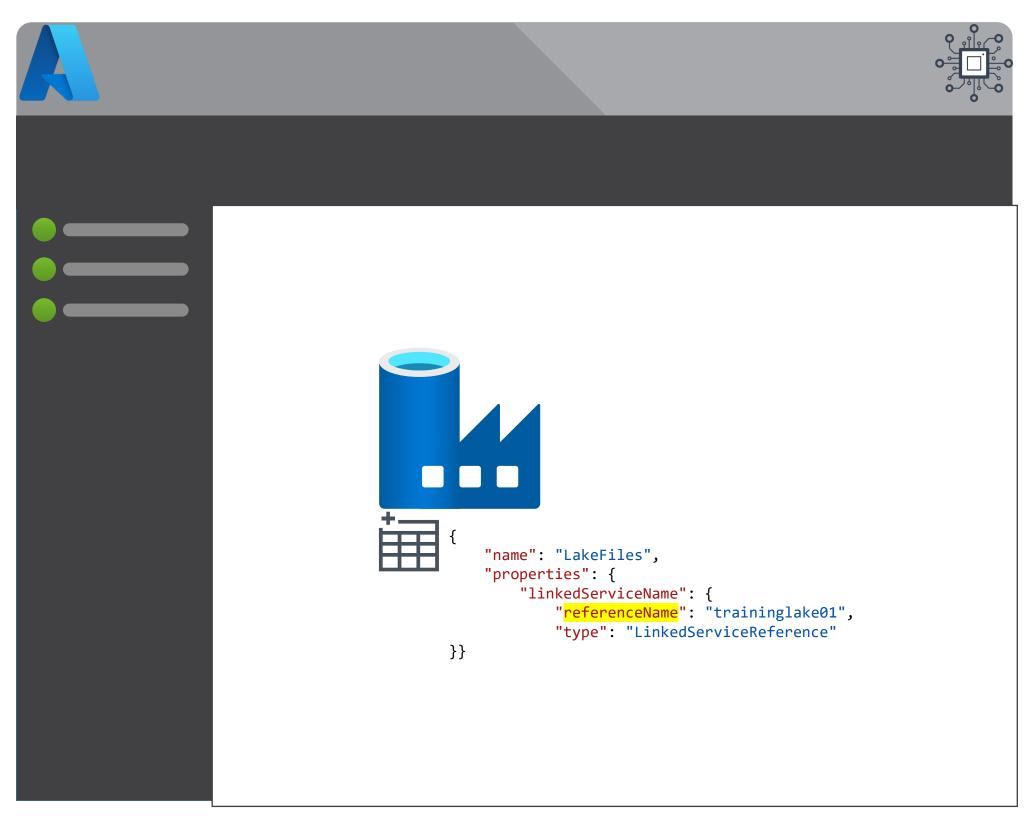
@dataset (). Linked Service Connection Secret

@linkedService().DBConnectionSecret





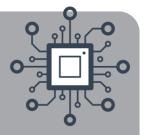


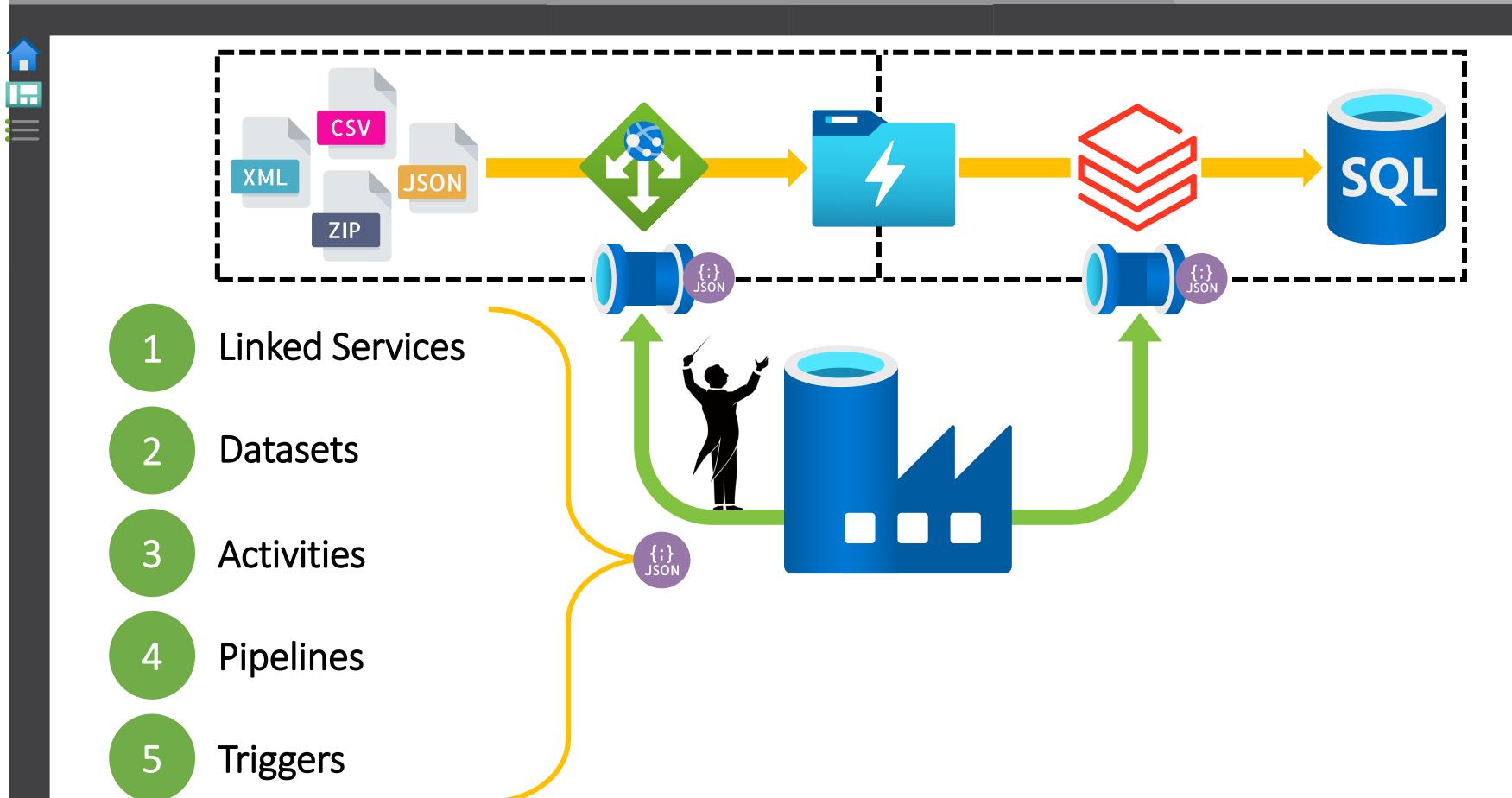


- Expressions & Interpolation
- Simple Metadata Driven Execution
- Dynamic Content Chains
- Reference Names



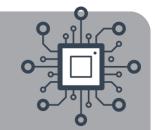
# Reference Names

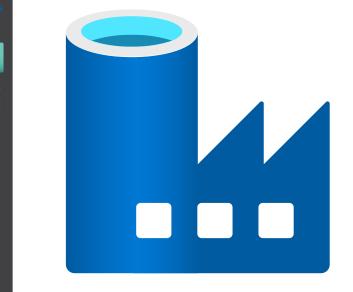






## Reference Names





- 1 Linked Services
- 2 Datasets
- 3 Activities
- 4 Pipelines
- 5 Triggers

{;}





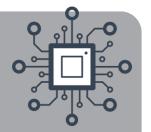


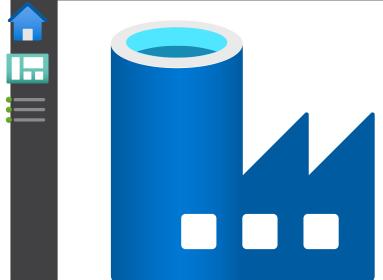


```
"name": "TrainingKeys01",
    "type": "Microsoft.DataFactory/factories/linkedservices",
    "properties": {
        "annotations": [],
        "type": "AzureKeyVault",
        "typeProperties": {
            "baseUrl": "https://TrainingKeys01.vault.azure.net/"
}}}
    "name": "traininglake01",
    "properties": {
        "typeProperties": {
            "accountKey": {
                "type": "AzureKeyVaultSecret",
                "store": {
                    "referenceName": "TrainingKeys01",
                    "type": "LinkedServiceReference"
}}}
    "name": "LakeFiles",
    "properties": {
        "linkedServiceName": {
            "referenceName": "traininglake01",
            "type": "LinkedServiceReference"
```



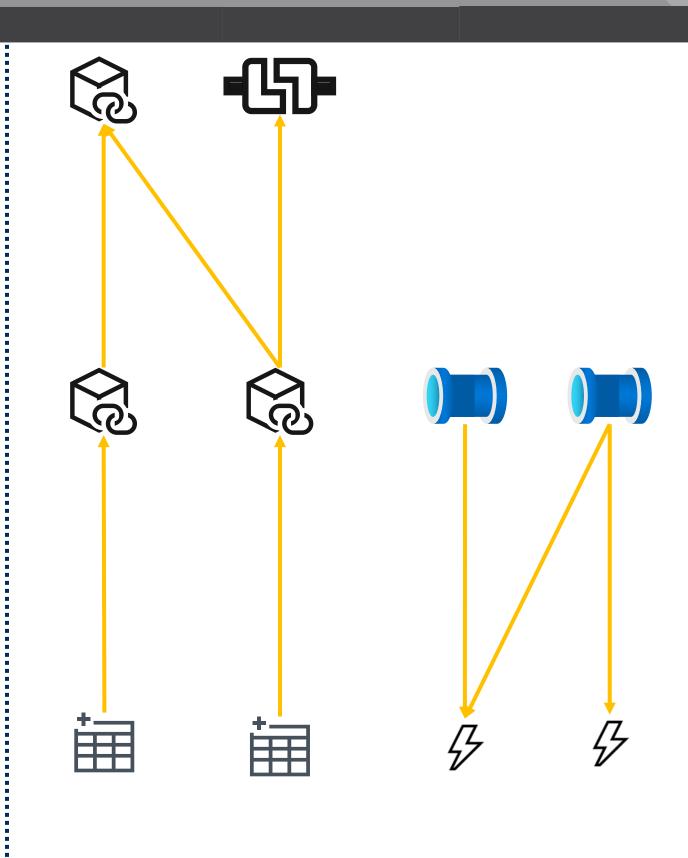
### Reference Names





- 1 Linked Services
- 2 Datasets
- 3 Activities
- 4 Pipelines
- 5 Triggers

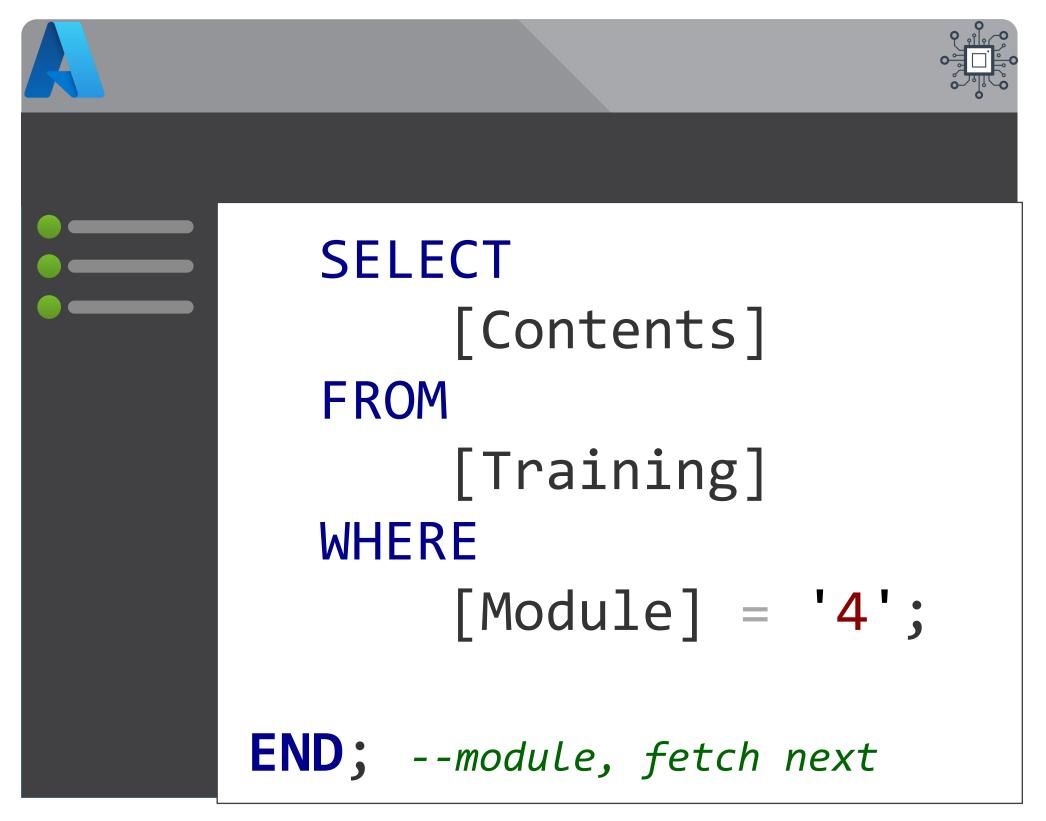




Reference Names cannot be dynamic.

- Not at development time.
- Not at runtime.
- At deployment time if being careful.

They are used internally by Data Factory to validate artifact dependencies.



- Expressions & Interpolation
- Simple Metadata Driven Execution
- Dynamic Content Chains
- Reference Names