

Building an Azure Business Intelligence Solution End to End

Hands On Workshop

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Gold Data Analytics
Gold Data Platform
Gold Cloud Platform



<https://github.com/Adatis>

ModernDataWarehouseWorkshop

Agenda for the Day

Module 1

Microsoft Azure

Module 2

Storage
Uploading Data
Data Lake

Module 3

Real-time Data
Streaming
Power BI

Module 4

U-SQL - Data
Transformation
Basics

Module 5

USQL - Advanced
Analytics
Cognitive Services

Module 6

Data Factory
Orchestration
Dynamic Pipelines

Module 7

Data Presentation
& Consumption
Power BI Models

Module 8

Other Services
Q&A

Agenda

Data Factory
Recap

Concepts
Components

Design Patterns

Meta Data Driven
Pipelines

Agenda

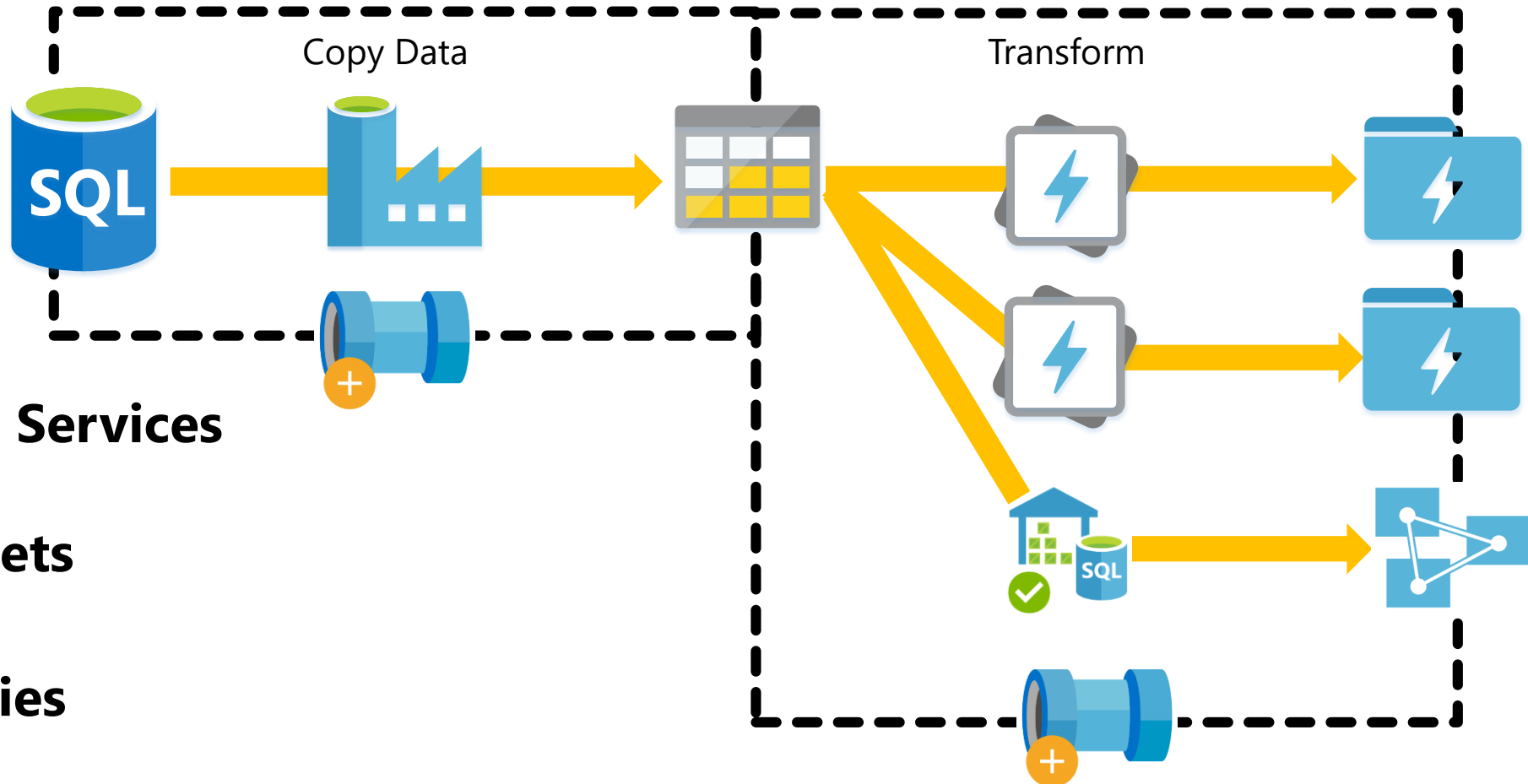
Data Factory
Recap

Concepts
Components

Design Patterns

Meta Data Driven
Pipelines

Data Factory Components



1

Linked Services

2

Data Sets

3

Activities

4

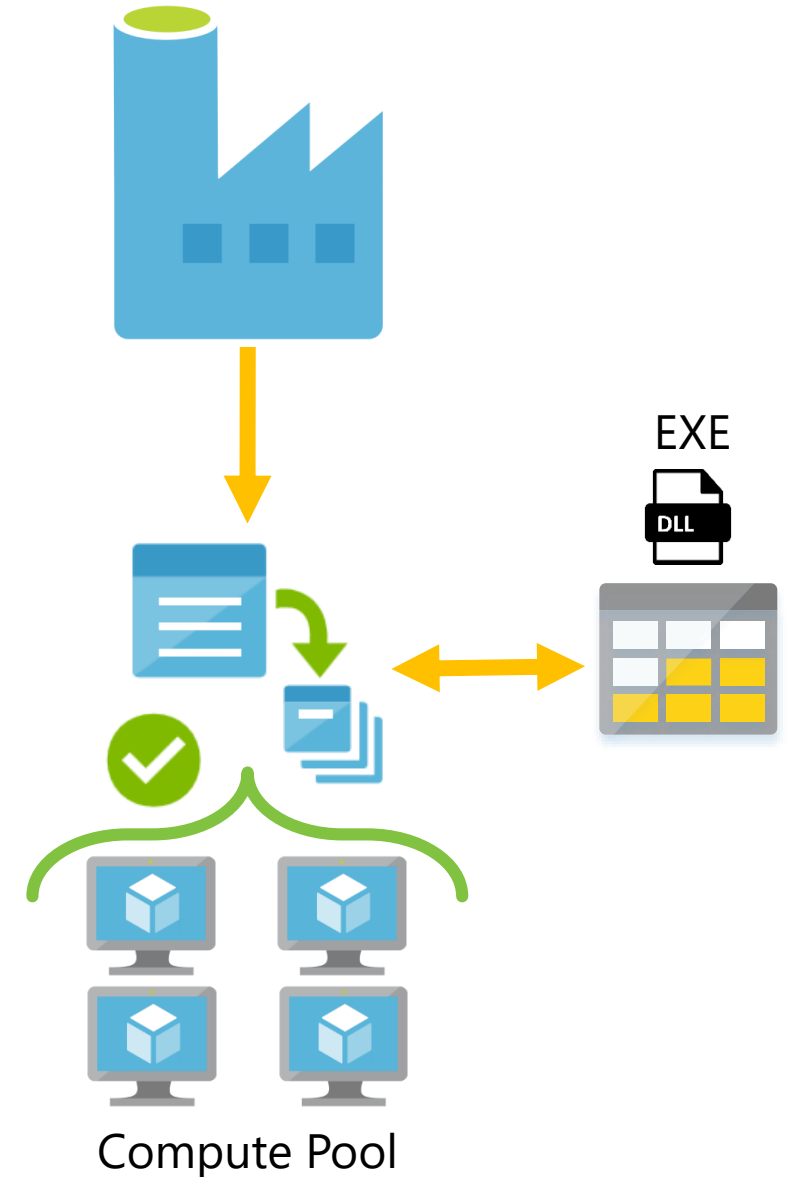
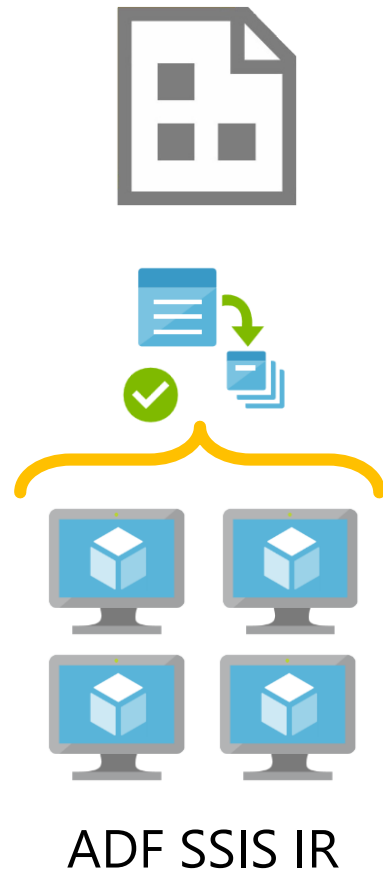
Pipelines – What groups of work do I want to do?

ADF Extensibility Continued

1 **Custom Activities** – Run an Console App

2 **Rest API Calls** – Web Activities

3 **SSIS** – Packages



Agenda

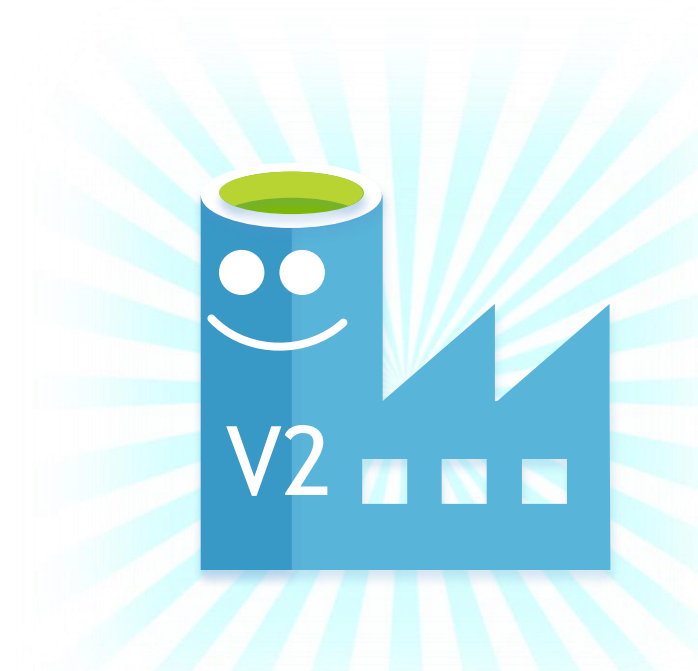
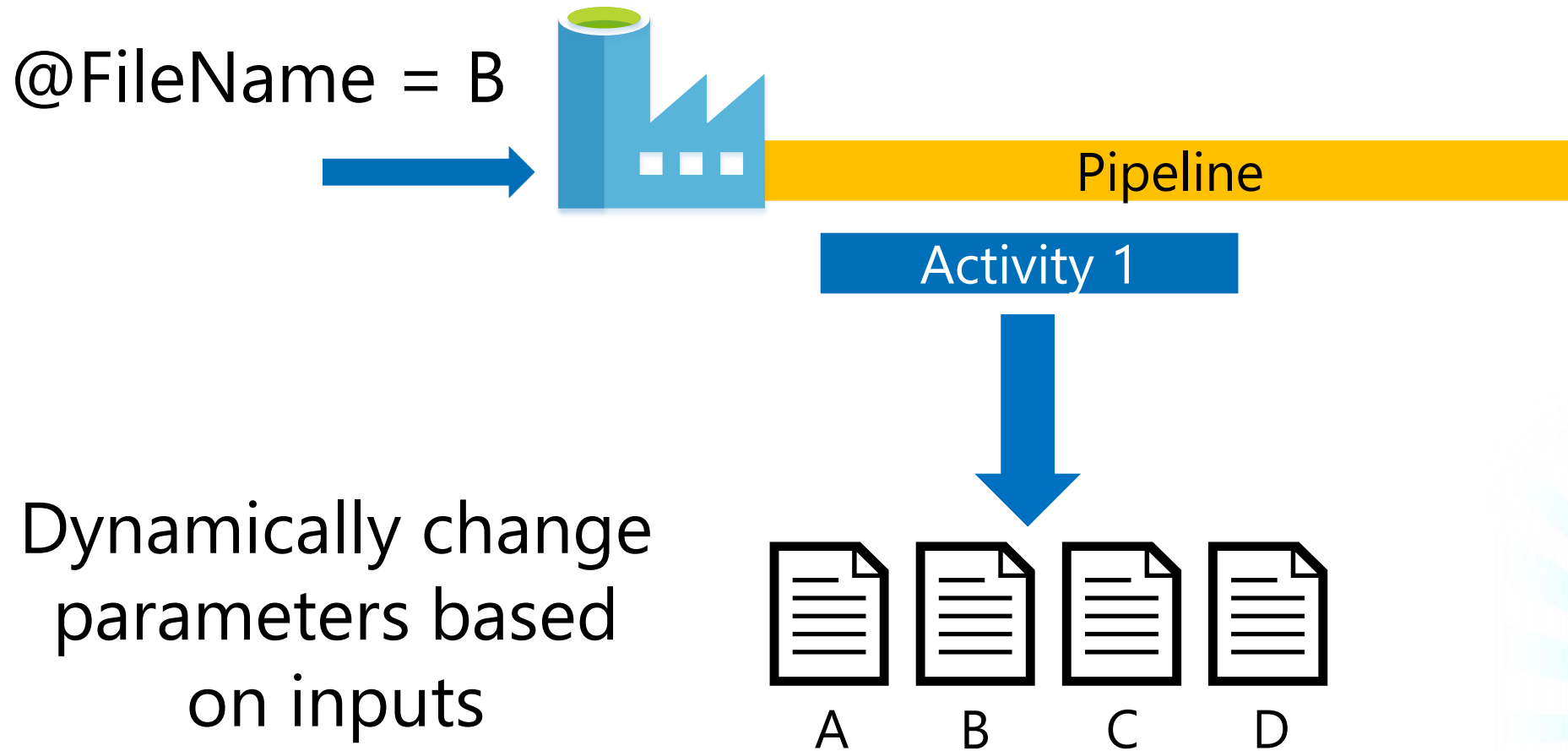
Data Factory
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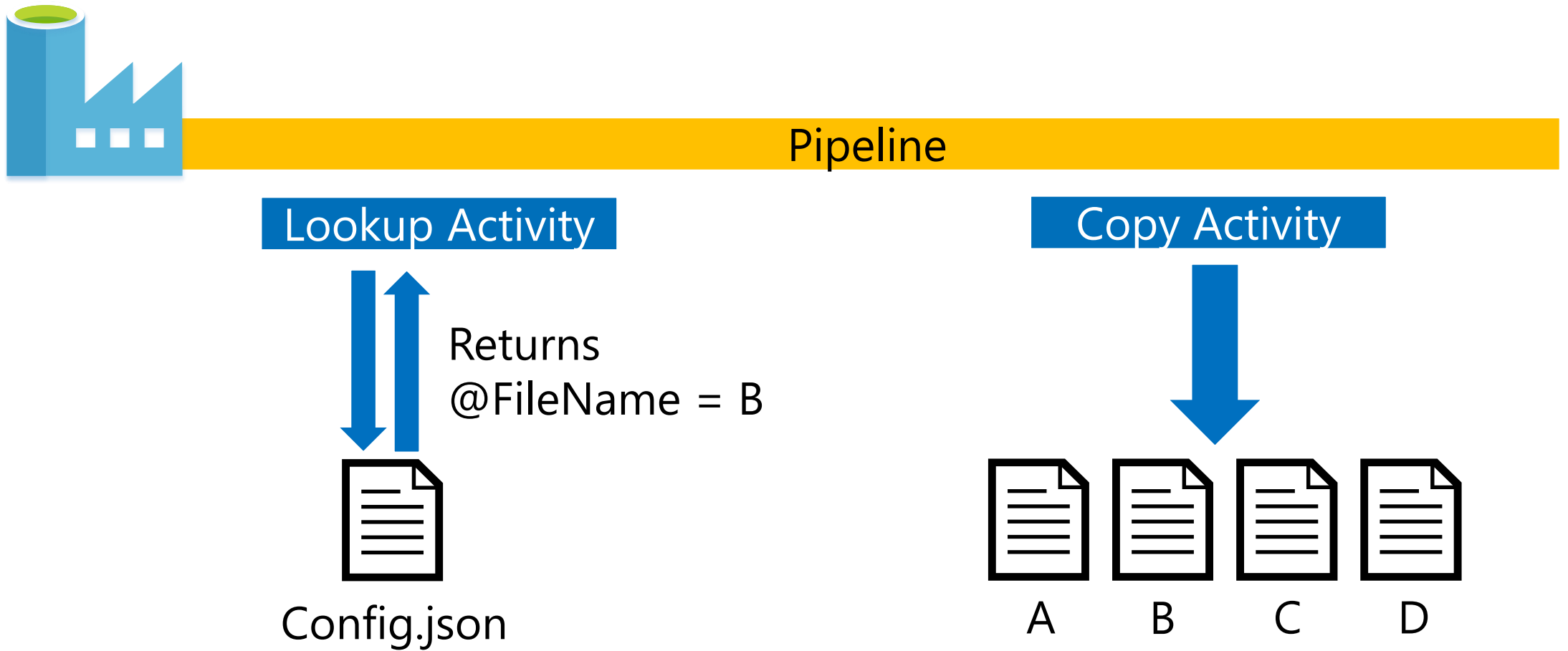
Design Patterns

Meta Data Driven
Pipelines

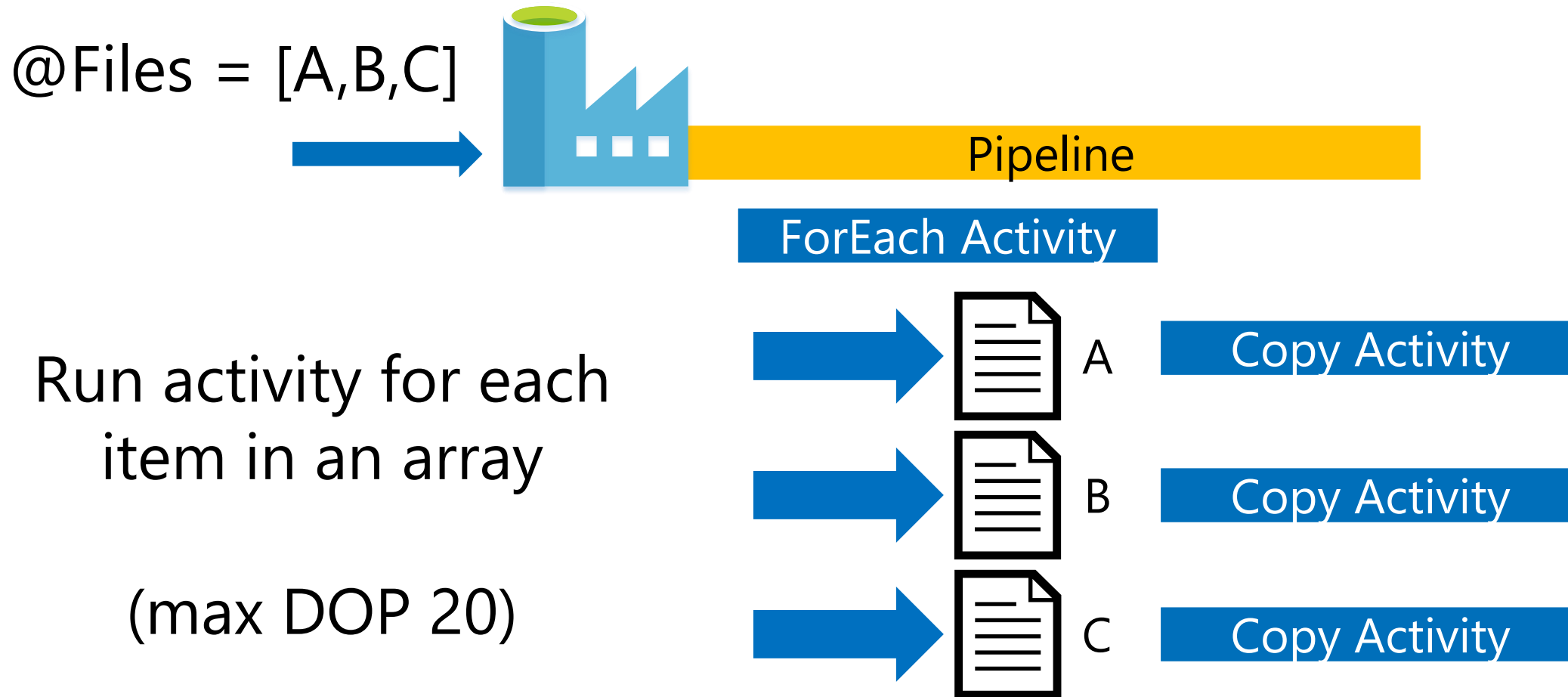
Dynamic Pipelines using Parameters & Expressions



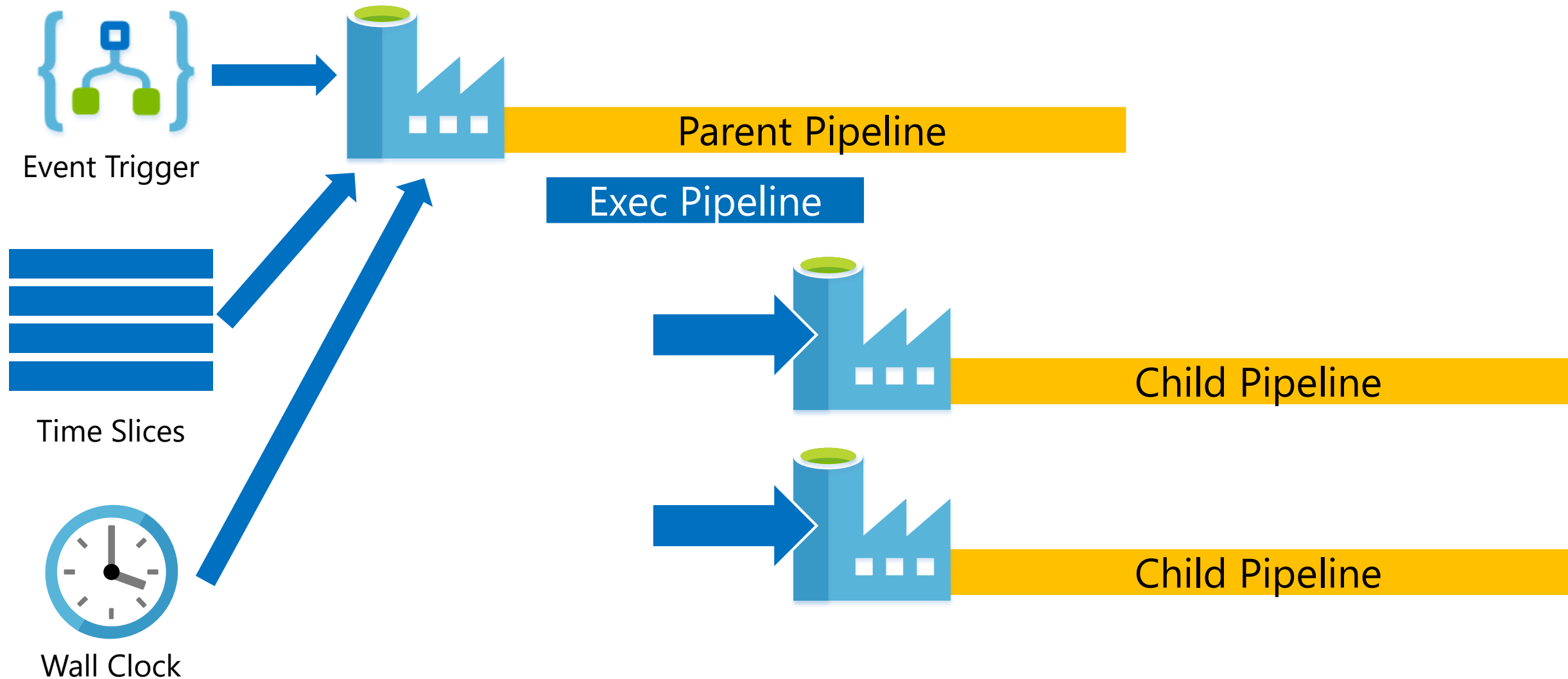
Dynamic Pipelines using Lookup Activity



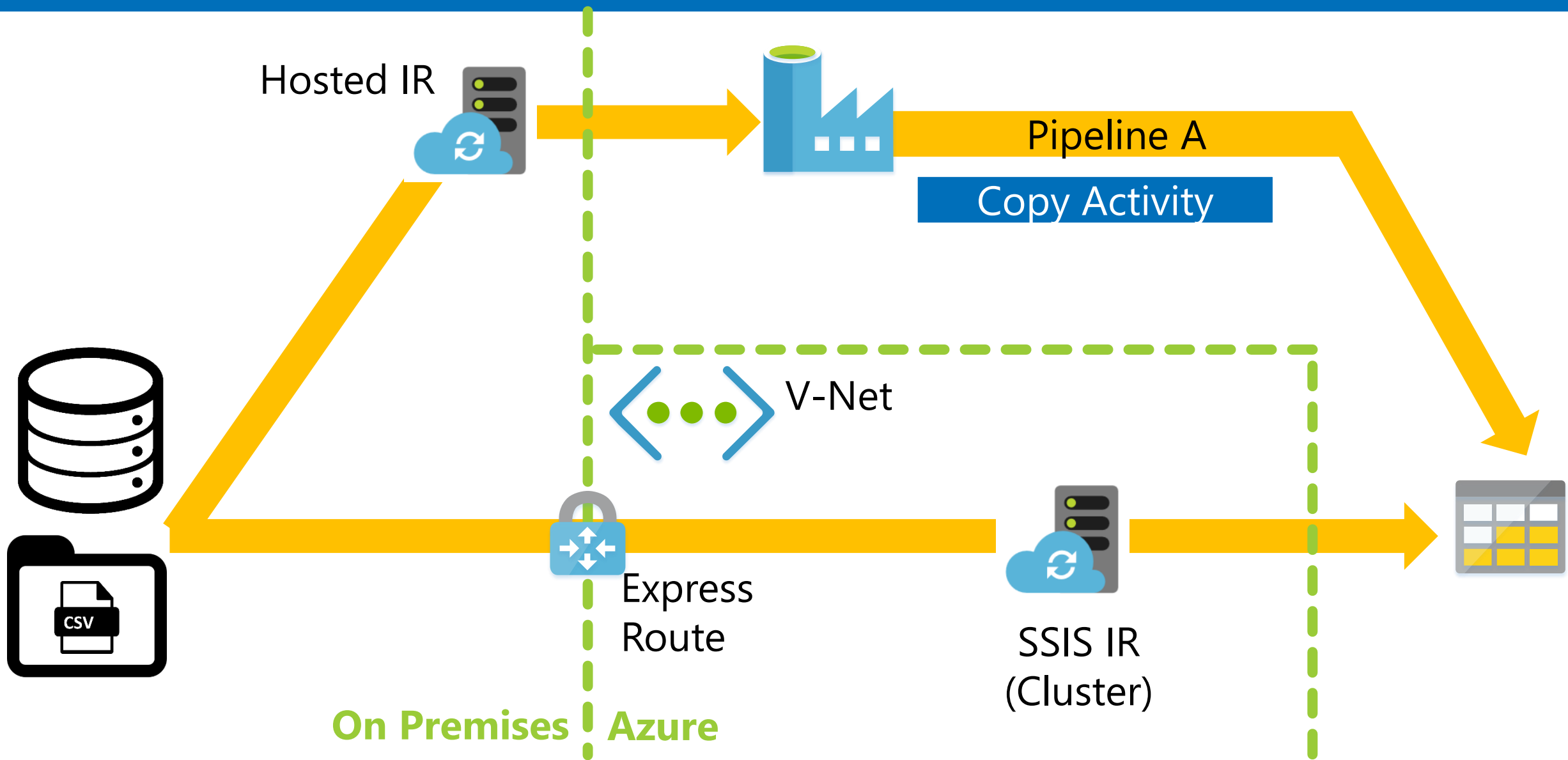
For Each Pipelines



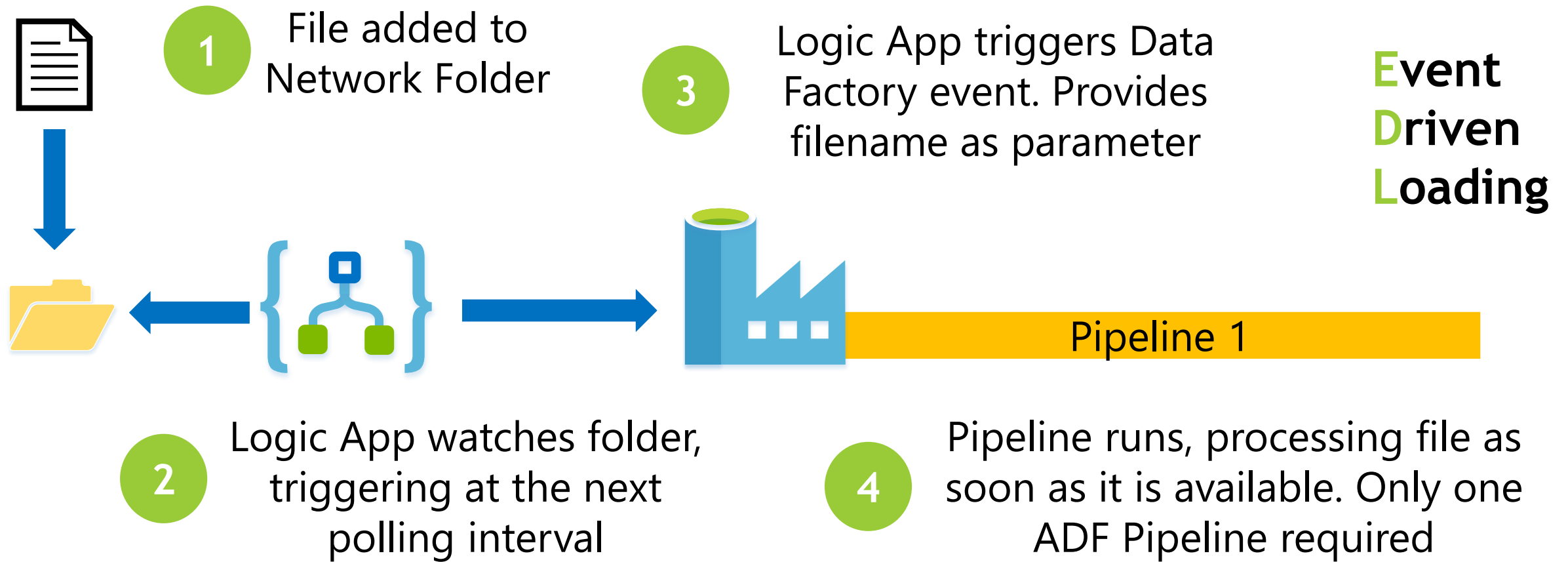
Parent/Child Pipelines & Triggering



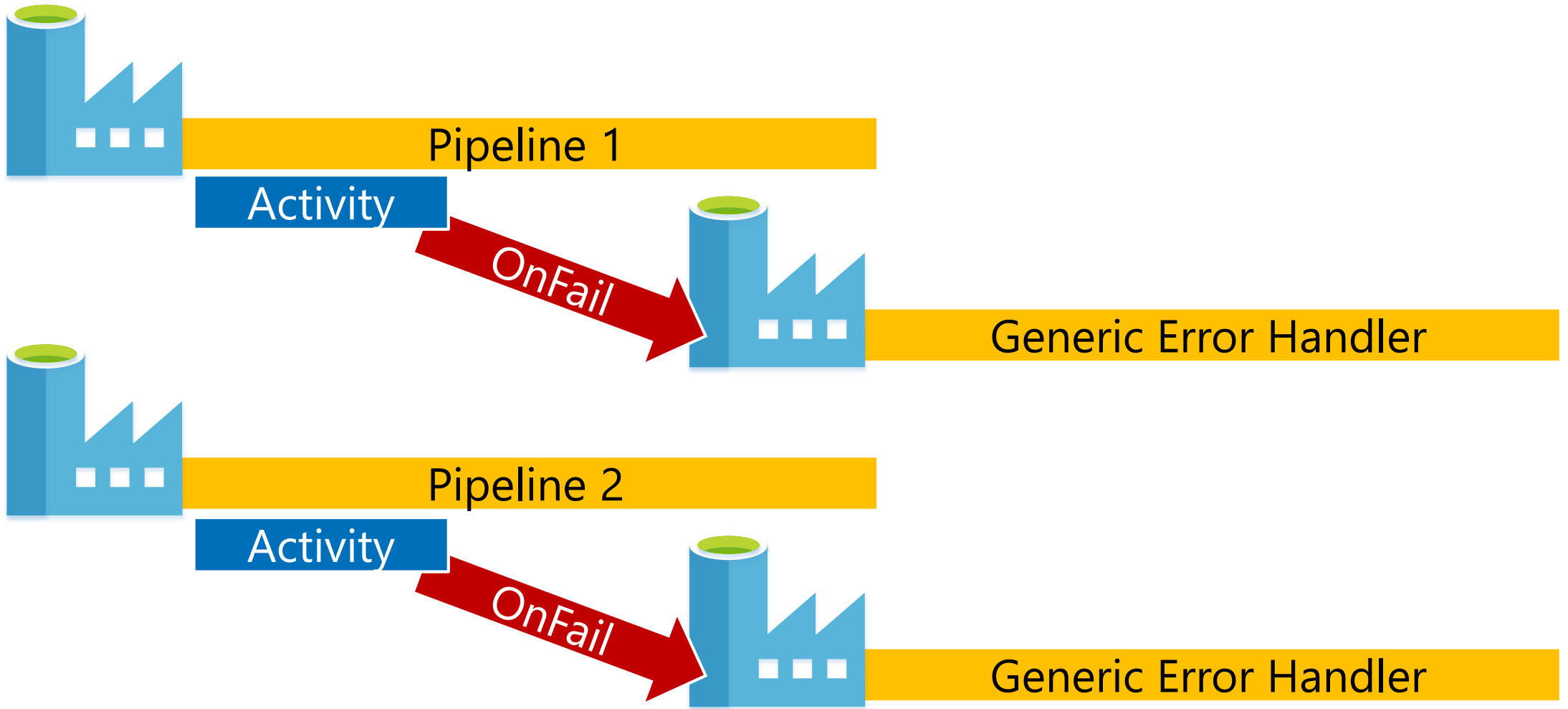
The SSIS IR with Azure V-Net Access



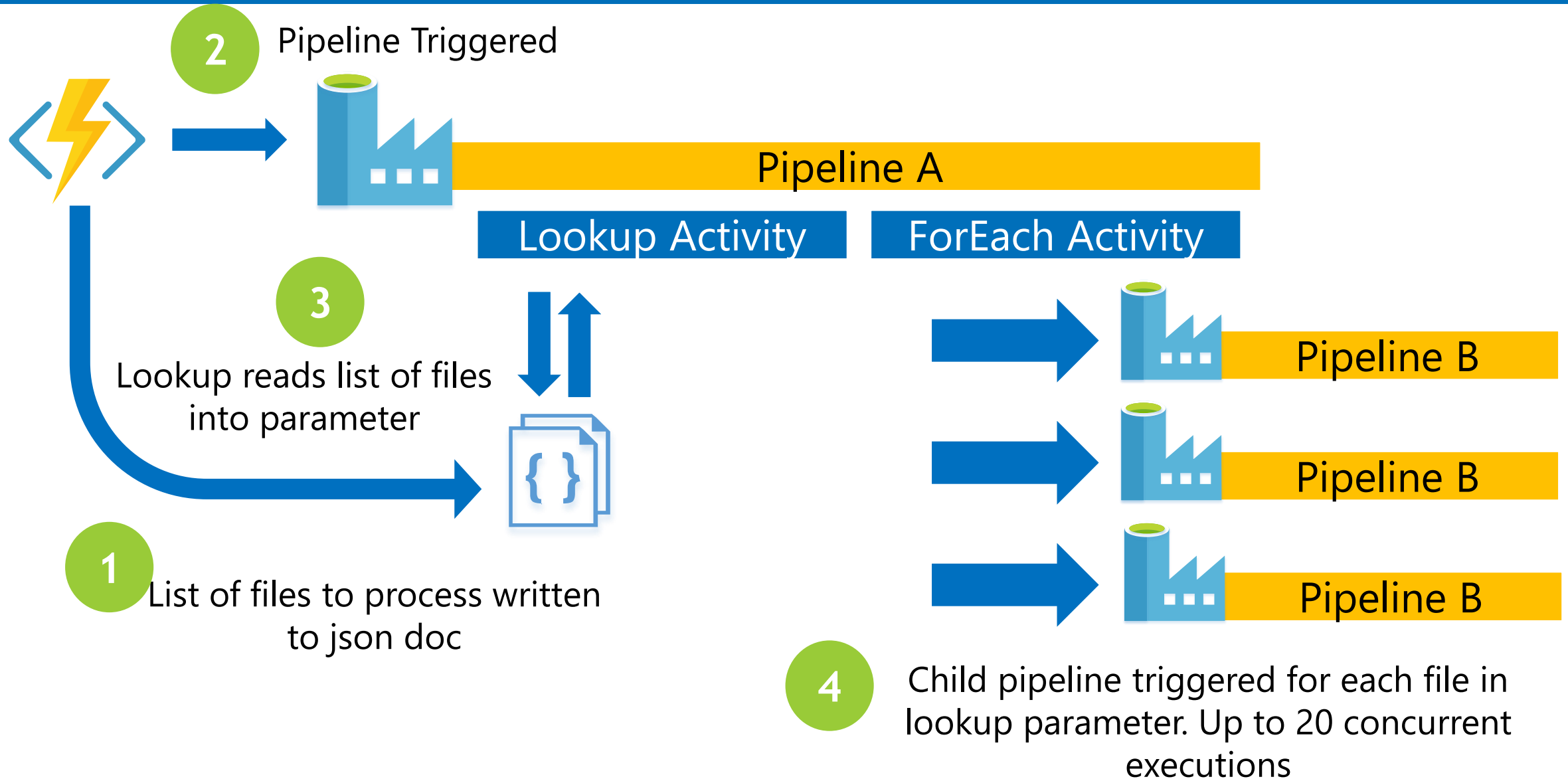
Event Driven Loading



Reusable Pipelines with Conditional Logic



Design Pattern Combinations



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