

























What has happened?

### What?

What will happen?

When did it happen?

### When?

When will it happen?

Why?

Why did it happen?







Collect Store **Transform** Integrate Prepare





# Data Integration using Data Factory in Microsoft Fabric

© 2024 Cathrine Wilhelmsen (hi@cathrinew.net)

Cathrine Wilhelmsen • Microsoft Fabric Week • February 19th, 2024

### Cathrine Wilhelmsen





She / Her

Solutions Architect, Evidi

Hove data and coding, as well as teaching and sharing knowledge 😂



- M hi@cathrinew.net
- cathrinew.net
- @cathrinew



Microsoft Data Platform MVP

- Organizing Fabric February
- Renovating a house

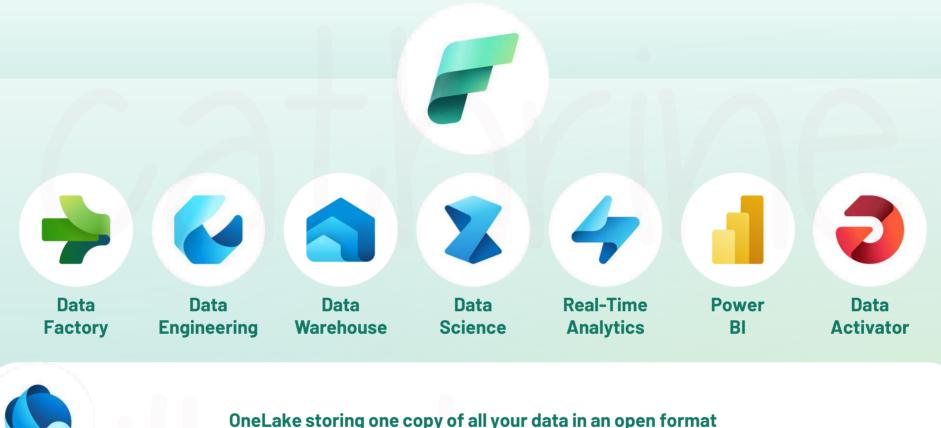


#### What is Microsoft Fabric?

### End-to-end Analytics:

- Software-as-a-Service
- Lake-centric architecture
- Role-tailored tools







OneLake storing one copy of all your data in an open format



**Built-in security, governance and compliance** 



### Data Factory

### The evolution of Data Factory













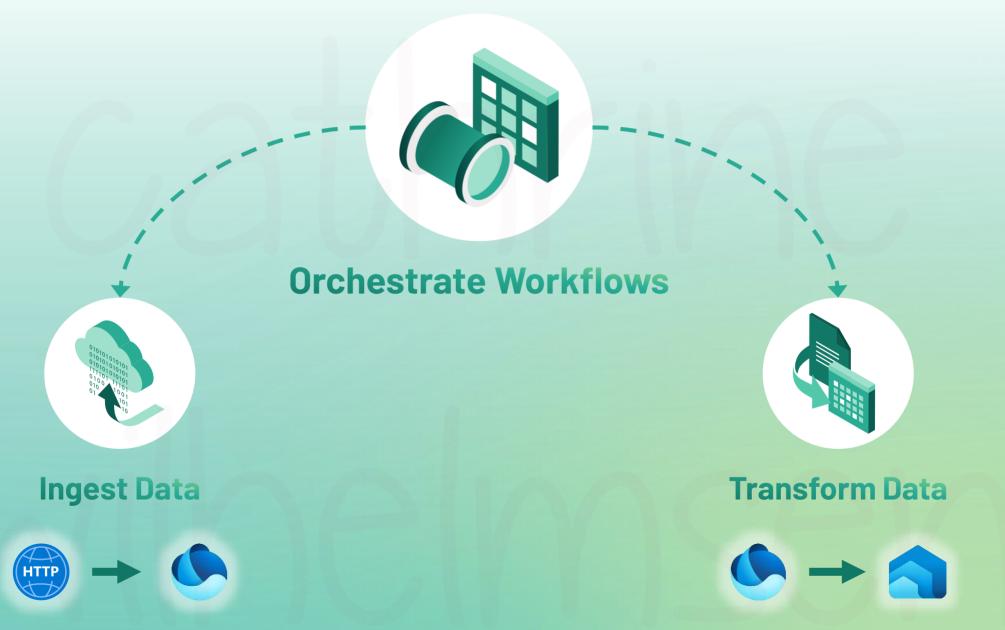


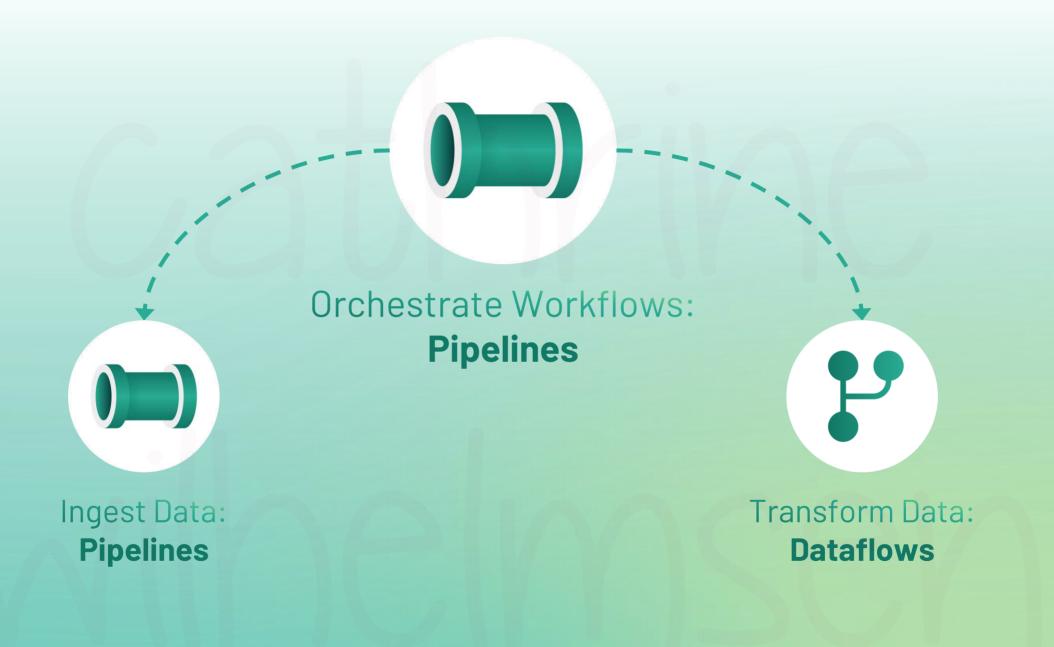
**Transform Data** 













# Pipelines

### What are Pipelines?

Pipelines are what you execute or run

They define workflows: what to do in which order

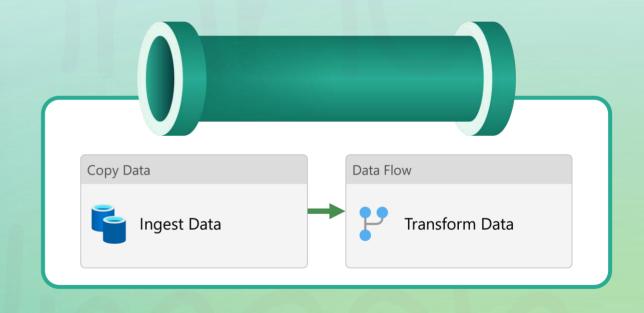




#### What are Activities?

Activities are individual steps inside pipelines

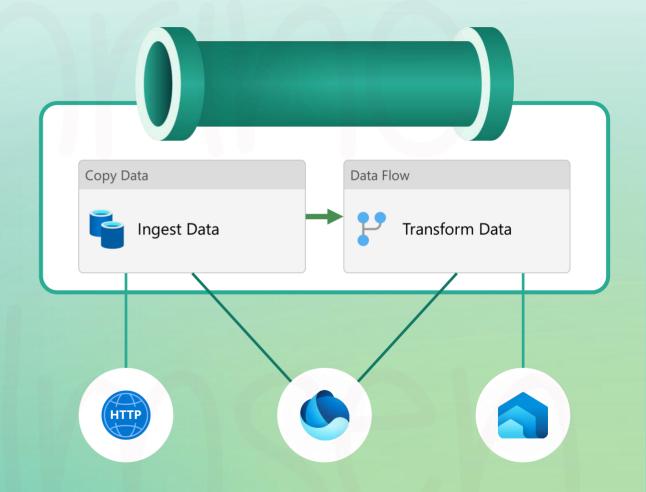
They can be chained or run in parallel



#### What are Connections?

Connections specify how to connect and authorize

Connect to workspace or external source



### **Copy Data Activity**

Powerful built-in capabilities

Copy Data



Copy Data

### **Copy Data Activity: Binary Files**

Source Destination





Convert file formats

© 2024 Cathrine Wilhelmsen (hi@cathrinew.net)



Zip or unzip files



Map columns implicitly or explicitly



### Dataflows

#### What are Dataflows?

Power Query!

Data transformation at scale

Visual editor, low-code experience

## Let's demo!





### Orchestration

#### What does orchestration mean?



### **Defining Workflows**

Which activities to run in which order?



### **Configuring Alerts and Error Handling**

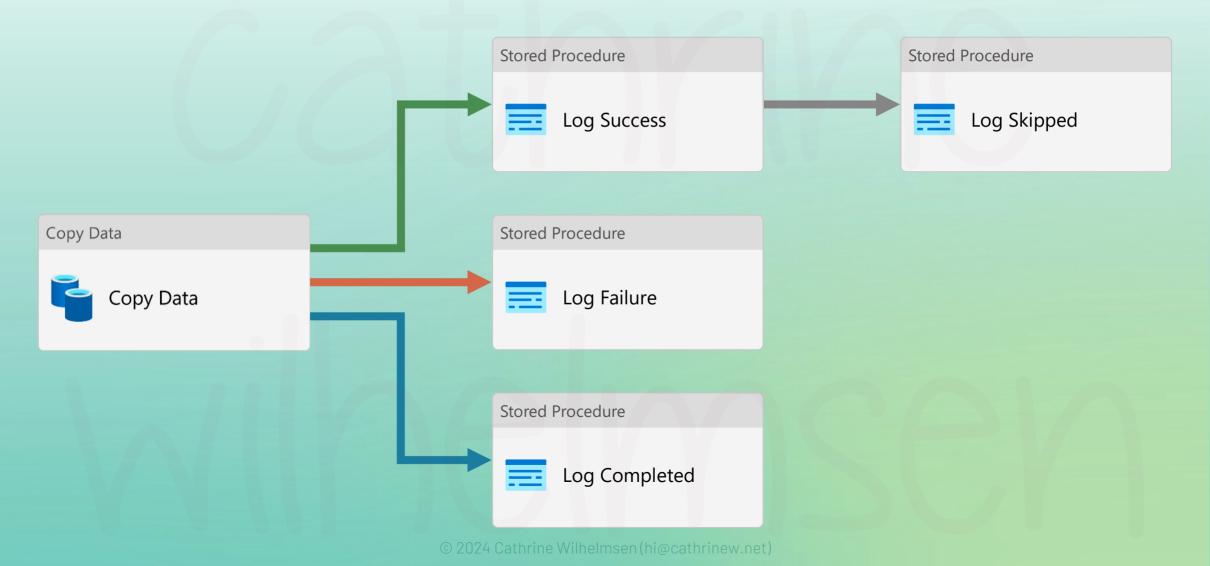
How to handle unexpected results and failures?



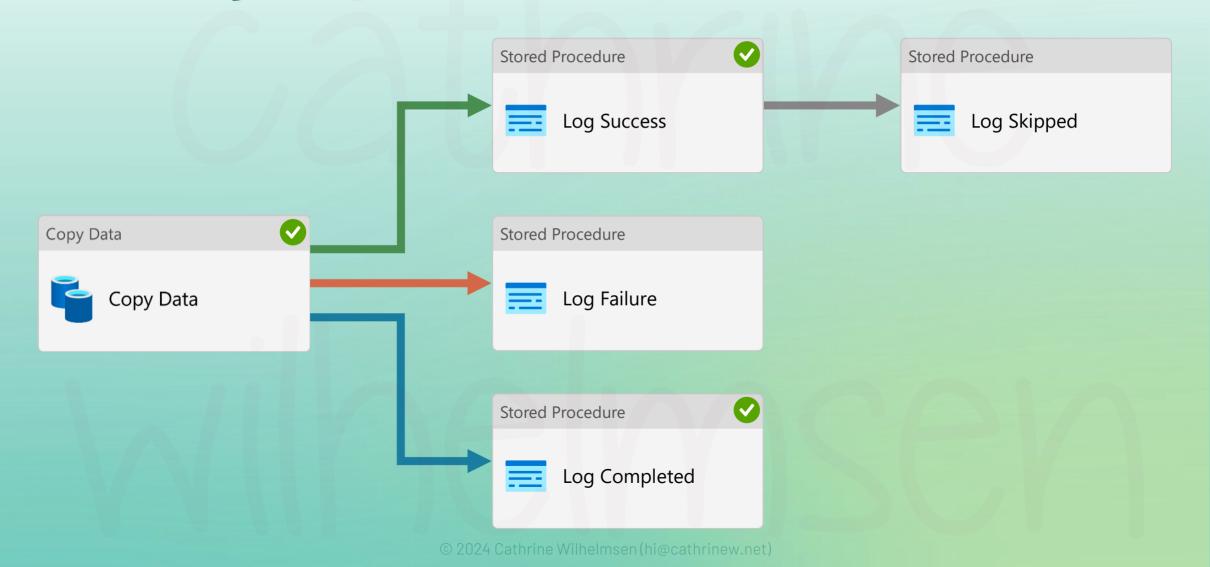
### **Adding Schedules**

When to execute pipelines?

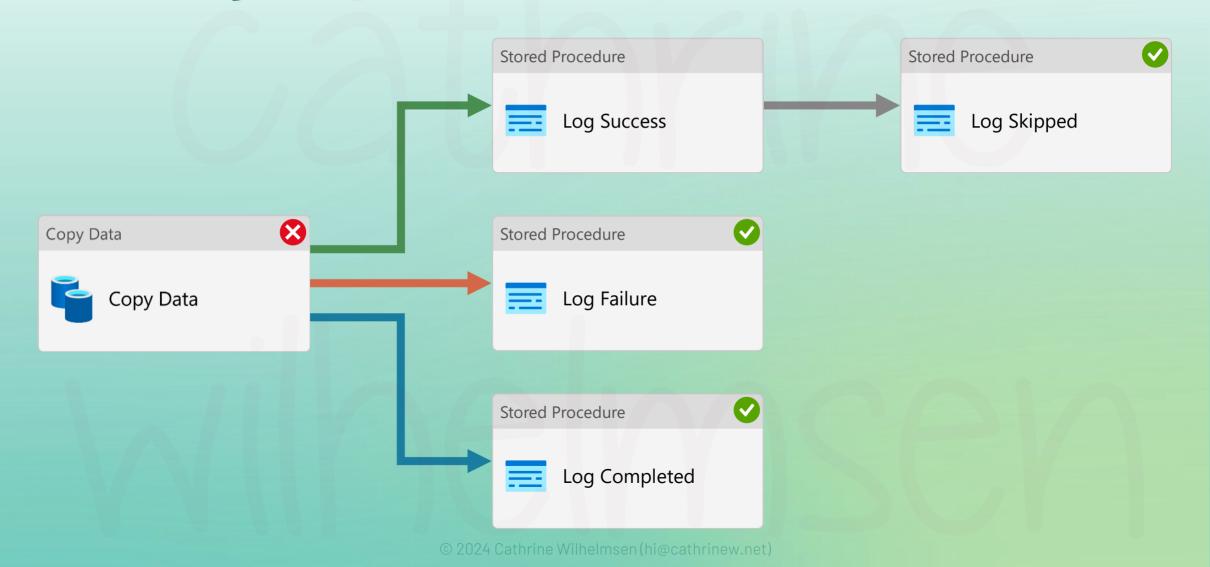
### **Activity Dependencies**



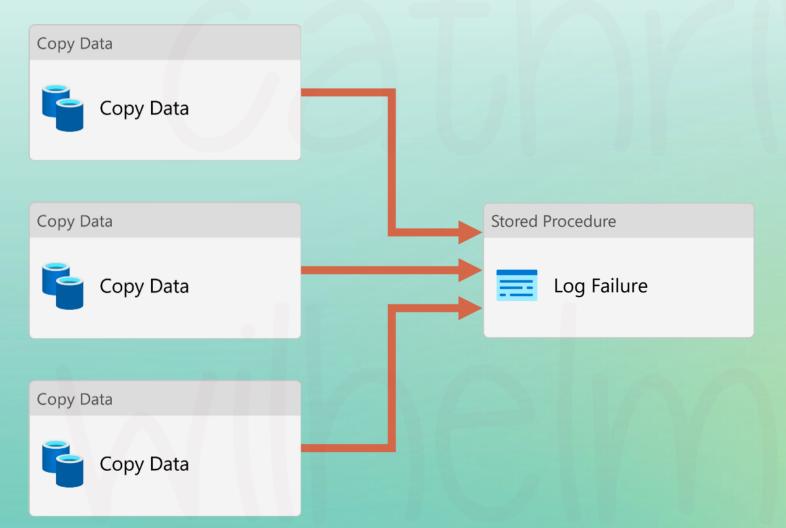
### **Activity Dependencies**



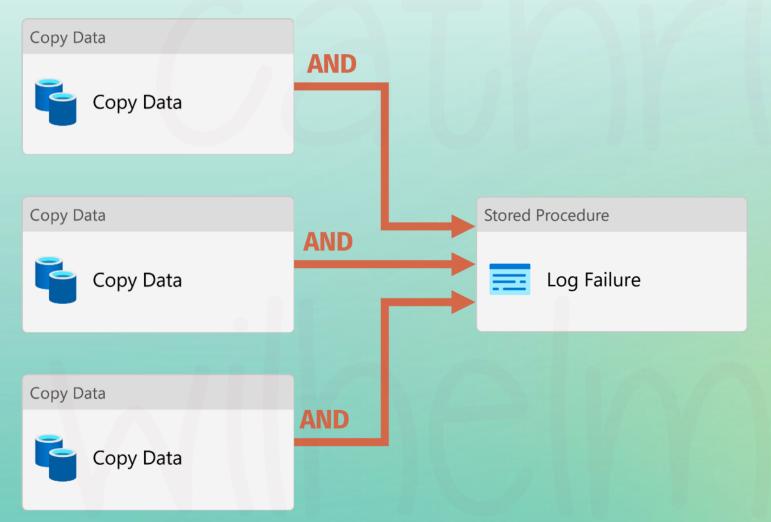
### **Activity Dependencies**



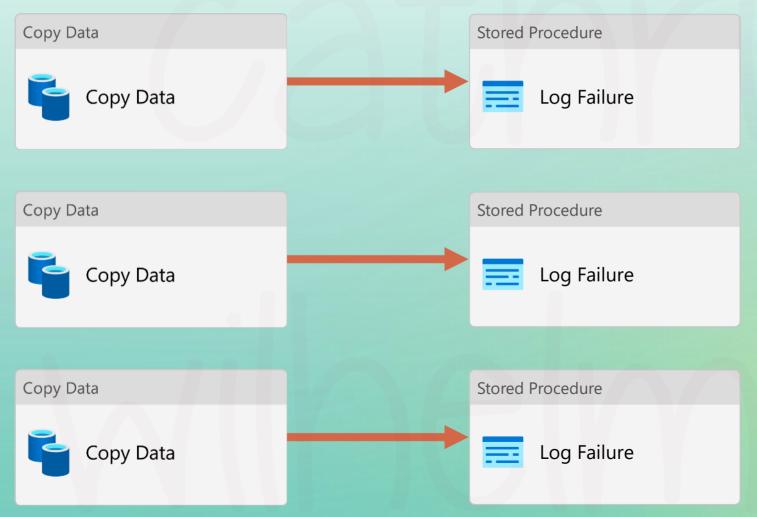
### **Activity Dependencies: Logical...?**



### **Activity Dependencies: Logical AND**



### **Activity Dependencies: Logical OR**



© 2024 Cathrine Wilhelmsen (hi@cathrinew.net)

# Questions?



© 2024 Cathrine Wilhelmsen (hi@cathrinew.net)

### Thank you!



