TRIGGERS

MODULE 14

TRIGGERS

TRIGGERS

Overview of Triggers

TRIGGERS AUTOMATE THE EXECUTION OF A DATA PIPELINE

01 **02** **03**

EVENT-BASED TRIGGER

Runs a pipeline based on an event e.g. addition of a file or removal of a file

Single trigger can run multiple pipelines or a pipeline can be run by multiple event-based triggers

Trigger dependencies not possible

SCHEDULE TRIGGER

Run a pipeline according to a pre-defined schedule

Single trigger can run multiple pipelines or a pipeline can be run by multiple schedule triggers

Trigger dependencies not possible
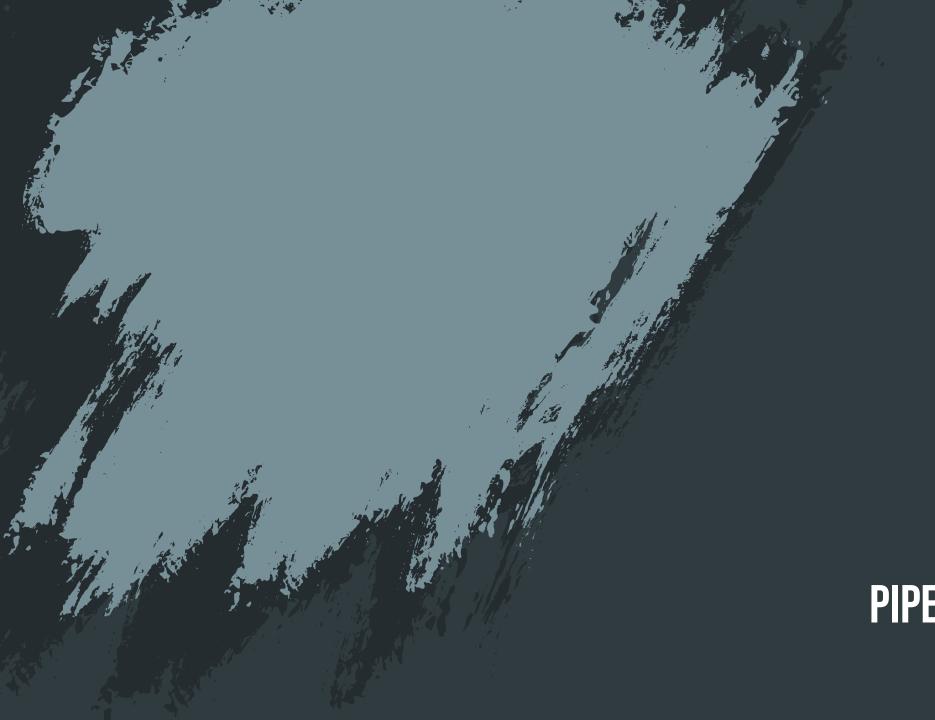
TUMBLING WINDOW TRIGGER

Executes data pipelines at a specified time slice or a pre-defined periodic time interval

Can create trigger dependencies i.e. a execute a trigger based on another trigger

PIPELINE EXECUTION

PIPELINE EXECUTION

Approach to Pipeline Execution

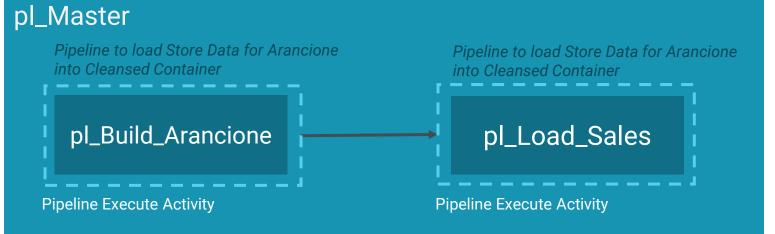Pipeline to load Store Data for Arancione
into Cleansed Container

Pipeline to load Store Data for Arancione
into Cleansed Container

pl_Build_Arancione

pl_Load_Sales

Approach 1
Executing Individual Pipelines separately

pl_Master

Pipeline to load Store Data for Arancione
into Cleansed Container

Pipeline to load Store Data for Arancione
into Cleansed Container

pl_Build_Arancione

pl_Load_Sales

Pipeline Execute Activity

Pipeline Execute Activity

Approach 2
Executing Pipelines together based on predecessor outcome as part of a Master pipeline

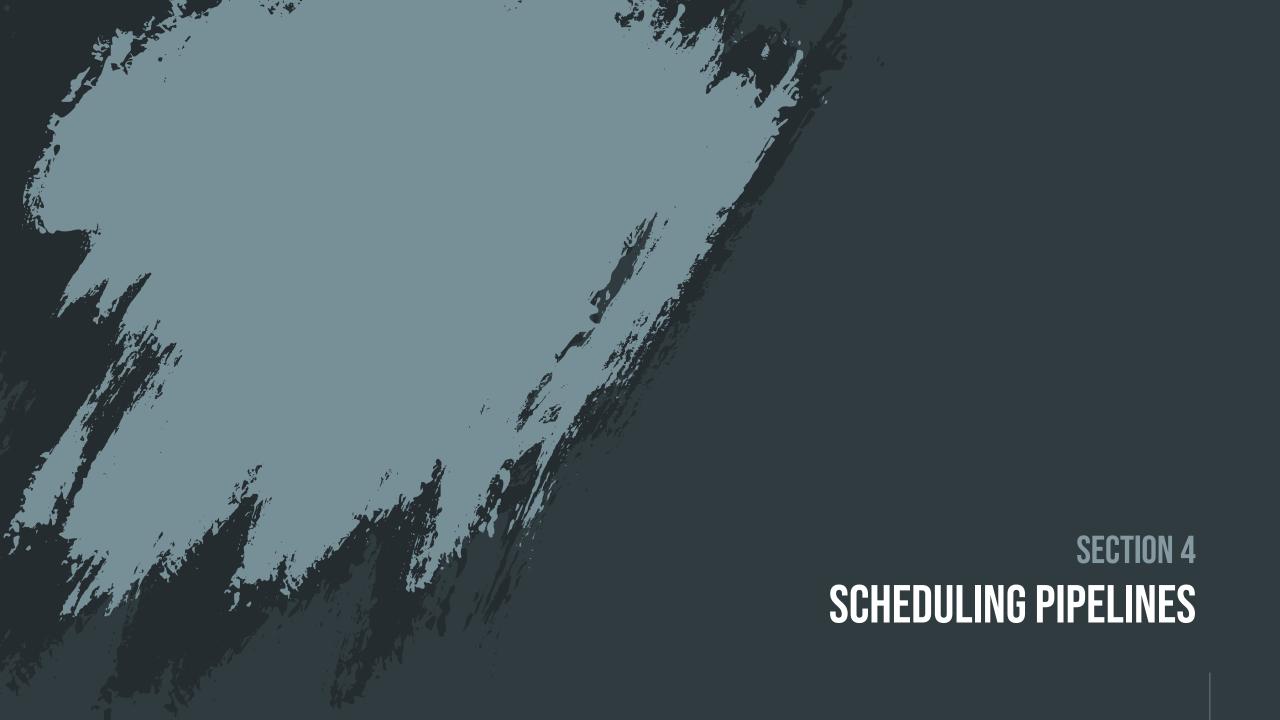# EVENT-BASED TRIGGERS

EVENT-BASED TRIGGERS

Building an Event-based Trigger

Screencast

Show the use case of loading a file for Arancione

Show how to build the trigger

Show the results

SCHEDULING PIPELINES

SCHEDULING PIPELINES

Implementing a Schedule Trigger

Screencast

Show the use case of scheduling a pipeline

Show how to build the trigger

Show the results

TRIGGER DEPENDENCY

TRIGGER DEPENDENCY

Implementing Tumbling Window Triggers

Screencast

Show the use case of pipeline dependency through triggers

Show how to build tumbling window triggers for two pipeline

Show trigger dependency

MODULE SUMMARY

In this module we learnt

OVERVIEW

We got an overview of the different types of triggers and trigger dependencies

We learnt about pipeline execution activities and how to chain pipelines.

INTEGRATION

We learnt how triggers and pipelines are connected.

HANDS-ON

We learnt how to build the different types of triggers

We learnt how to execute pipelines using the different types of triggers

REFERENCES

Pipeline execution and triggers

[Pipeline execution and triggers - Azure Data Factory & Azure Synapse | Microsoft Learn](#)

Event-based triggers

[Create event-based triggers - Azure Data Factory & Azure Synapse | Microsoft Learn](#)

Tumbling window triggers

[Create tumbling window triggers - Azure Data Factory & Azure Synapse | Microsoft Learn](#)

Trigger dependency

[Create tumbling window trigger dependencies - Azure Data Factory & Azure Synapse | Microsoft Learn](#)