

- **Task 2** : Configure Schedule Trigger and Event Triggers to Automate the Pipeline Process: Automate pipeline execution using schedule-based triggers for regular intervals and event-based triggers to respond to dynamic actions like file arrivals or database changes. This ensures timely and hands-free data movement in both real-time and batch scenarios.

**Solution :**

Step 1:

- Go to Azure Data Factory Studio
- Open ADF Studio from Azure Portal
- Click Manage (gear icon) on the left
- Click Triggers → + New to create a new trigger

Step 2:

- Configure a Schedule Trigger
- Select Schedule as trigger type
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- Give a name (e.g., daily-trigger)
- Set start date/time, recurrence (e.g., every 1 day, every 6 hours, etc.)
- Time zone: (e.g., UTC+05:30)
- Click Next and Finish

✦ Use case: Automate pipeline every day at 8 AM for daily reports

Step 3:

- Configure an Event Trigger
- Click + New Trigger
- Select Event as trigger type

Choose:

- Storage account
- Container name
- Blob path (optional)

Choose the event type:

- Blob created (file arrives)
- Blob deleted
- Choose blob path begins with or ends with filters (e.g., input/, .csv)
- Click Next and Finish

✦ Use case: Run pipeline automatically when a new file is uploaded to blob storage

Step 4:

- Attach Trigger to a Pipeline
- Go to your pipeline in ADF
- Click Add Trigger > New/Edit
- Choose the trigger (schedule or event)
- Click OK and Publish All

## Copy Data from Database to CSV, Parquet, and Avro File:

Trigger name	Trigger type	Trigger time	Status	Pipelines	Run	Message	Properties	Run ID
storageEventTri...	Storage events ...	7/9/2025, 8:25:22 F	✔ Succeeded	1	Original			1d359eed-d49a...
storageEventTri...	Storage events ...	7/9/2025, 8:22:55 F	✔ Succeeded	1	Original			f19ec5c4-6cd3-...
storageEventTri...	Storage events ...	7/9/2025, 10:40:25	✔ Succeeded	1	Original			f77fb258-713c-...
storageEventTri...	Storage events ...	7/9/2025, 10:06:36	✔ Succeeded	1	Original			92ac247b-bff4-...
trigger1	Schedule trigger	7/9/2025, 10:02:00	✔ Succeeded	1	Original			085844957136...
storageEventTri...	Storage events ...	7/9/2025, 9:52:13 F	✔ Succeeded	1	Original			d14cf30b-cb46...
trigger1	Schedule trigger	7/9/2025, 9:47:00 F	✔ Succeeded	1	Original			085844957226...
storageEventTri...	Storage events ...	7/9/2025, 9:45:45 F	✔ Succeeded	1	Original			1ad131af-d71c...
trigger1	Schedule trigger	7/9/2025, 9:32:00 F	✔ Succeeded	1	Original			085844957316...
trigger1	Schedule trigger	7/9/2025, 9:17:00 F	✔ Succeeded	1	Original			085844957406...
trigger1	Schedule trigger	7/9/2025, 9:02:00 F	✔ Succeeded	1	Original			085844957496...
storageEventTri...	Storage events ...	7/9/2025, 9:01:04 F	✔ Succeeded	1	Original			65ac6262-5b41...
trigger1	Schedule trigger	7/9/2025, 8:47:00 F	✔ Succeeded	1	Original			085844957586...
storageEventTri...	Storage events ...	7/9/2025, 8:45:21 F	✔ Succeeded	1	Original			7a0662d3-420c...
storageEventTri...	Storage events ...	7/9/2025, 8:42:33 F	✔ Succeeded	1	Original			c369ff06-79cf...
trigger1	Schedule trigger	7/9/2025, 8:31:59 F	✔ Succeeded	1	Original			085844957676...

## Pipelines run according to Schedule Trigger and Event Triggers :

Showing 1 - 31 items

Last refreshed 0 minutes ago

Pipeline name	Run start	Run end	Duration	Triggered by	Status	Run
getmetadata	7/9/2025, 8:26:01 PM	--	38s	9f3aca7d-6558-4097...	In progress	Original
storaEventTriggerpipel...	7/9/2025, 8:25:24 PM	7/9/2025, 8:26:00 PM	36s	c1cb8140-94e7-40a...	✔ Succeeded	Original
parentpipeline	7/9/2025, 8:25:22 PM	--	1m 17s	storageEventTrigger	In progress	Original
getmetadata	7/9/2025, 8:23:24 PM	--	3m 15s	9a5ac33e-8a23-48a1...	In progress	Original
storaEventTriggerpipel...	7/9/2025, 8:22:58 PM	7/9/2025, 8:23:22 PM	25s	4280fc62-8fe4-46ee-...	✔ Succeeded	Original
parentpipeline	7/9/2025, 8:22:56 PM	--	3m 43s	storageEventTrigger	In progress	Original
getmetadata	7/9/2025, 10:40:53 AM	7/9/2025, 10:44:49 AM	3m 57s	30c8c386-d7ad-44ca...	✔ Succeeded	Original
storaEventTriggerpipel...	7/9/2025, 10:40:27 AM	7/9/2025, 10:40:52 AM	25s	119efb76-1b00-48a...	✔ Succeeded	Original
parentpipeline	7/9/2025, 10:40:26 AM	7/9/2025, 10:44:50 AM	4m 25s	storageEventTrigger	✔ Succeeded	Original
getmetadata	7/9/2025, 10:07:12 AM	7/9/2025, 10:07:25 AM	14s	b7189d2a-7f2e-4ea0...	✖ Failed	Original
storaEventTriggerpipel...	7/9/2025, 10:06:40 AM	7/9/2025, 10:07:10 AM	31s	fdad03ff-48c8-4737-...	✔ Succeeded	Original
parentpipeline	7/9/2025, 10:06:37 AM	7/9/2025, 10:07:29 AM	53s	storageEventTrigger	✖ Failed	Original
getmetadata	7/9/2025, 10:02:00 AM	7/9/2025, 10:02:22 AM	22s	trigger1	✖ Failed	Original
storaEventTriggerpipel...	7/9/2025, 9:52:13 AM	7/9/2025, 9:52:45 AM	33s	storageEventTrigger	✔ Succeeded	Original

