

# Lab 1: Creating a Schedule Trigger in Azure Data Factory

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## Learning Objective

By the end of this lab, the learner will understand:

- What a Schedule Trigger is in Azure Data Factory.
- Why schedule triggers are used.
- How to create and configure a schedule trigger step-by-step.
- How to attach the Schedule Trigger to a pipeline.

## Learning Outcome

After completing this lab, the learner will be able to:

- Automate a pipeline execution using fixed time intervals.
  - Configure recurrence, start time, and time zone.
  - Verify and monitor scheduled pipeline runs.
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## 1. Concept: What is a Schedule Trigger?

A **Schedule Trigger** is the simplest form of automation in Azure Data Factory. It runs a pipeline based on a specific time and recurrence pattern — for example:

- Every day at 2 AM
- Every 15 minutes
- Every Monday at 6 PM

Think of it as a calendar alarm: You set the time, and ADF automatically starts the pipeline for you.

Schedule triggers are perfect when your workflow depends on *time* rather than events.

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## 2. Hands-On Lab: Creating a Schedule Trigger

This lab is designed in a very simple, beginner-friendly style. Just follow each step one by one.

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## Step 1: Open Azure Data Factory Studio

1. Go to the Azure Portal.
2. Open your **Azure Data Factory** resource.
3. Click **Open Azure Data Factory Studio** (or **Author & Monitor**).

You will now be inside the ADF UI.

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## Step 2: Create or Select a Pipeline

If you already have a pipeline, use that. If not, create a simple test pipeline:

1. Click **Author** (left menu).
  2. Click + **(Add)** → **Pipeline**.
  3. Name the pipeline: .
  4. Add any simple activity (e.g., **Wait** activity) so the pipeline is valid.
  5. Click **Publish All**.
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## Step 3: Create a Schedule Trigger

1. Click **Manage** (gear icon on left).
2. Select **Triggers**.
3. Click + **New**.
4. Choose **Schedule** → Click **Continue**.

Now you will see the trigger configuration window.

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## Step 4: Configure the Schedule Trigger

Fill the details as follows:

- **Name:**
- **Description:** "Runs the demo pipeline every day at 6 AM"
- **Type:** Schedule

Now configure the schedule:

### Start Date/Time

- Choose today's date.
- Time →

## Time Zone

- Choose your preferred time zone.

## Recurrence

- **Every:** 1
- **Period:** Day

This means the trigger will run **once every day at 6 AM**.

Click **Next**.

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## Step 5: Attach Trigger to the Pipeline

1. Select your pipeline: .
2. Click **OK**.
3. ADF will ask: "Would you like to publish changes?"
4. Click **Publish All**.

Your schedule trigger is now active.

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## Step 6: Verify the Trigger

1. Go to **Monitor** → **Pipeline Runs**.
2. Wait for the next scheduled time, or if you want to test immediately:
3. Go to **Manage** → **Triggers**.
4. Select your trigger.
5. Click **Trigger Now**.

This will manually run the pipeline once.

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## Step 7: Confirm Run Completion

Check Monitor → Pipeline Runs. You should see that the pipeline executed successfully.

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You have successfully created your first **Schedule Trigger** in Azure Data Factory.

This is the foundation for all time-based automation in data engineering workflows.