**Step 1: Set Up Azure Resources**

1. **Create Azure Data Lake Storage Gen2**:
   * Create a storage account and a container named salesdata to store raw CSV files.
2. **Create Azure Synapse Analytics**:
   * Set up a Synapse workspace and create a dedicated SQL pool.
3. **Create Azure Databricks Workspace**:
   * Set up a Databricks workspace and cluster for running notebooks.
4. **Upload Sample Data**:
   * Upload sales\_2024\_01.csv, sales\_2024\_02.csv, and sales\_2024\_03.csv to the salesdata container in Azure Data Lake Storage Gen2.

**Step 2: Create an Azure Synapse Pipeline**

1. **Create Linked Services**:
   * **Data Lake Storage**: Create a linked service to connect to Azure Data Lake Storage Gen2.
   * **Azure Databricks**: Create a linked service to connect to Azure Databricks.
   * **Azure Synapse Analytics**: Create a linked service to connect to the Synapse dedicated SQL pool.
2. **Create Datasets**:
   * Create a dataset for the CSV files in Azure Data Lake Storage Gen2.
   * Create a dataset for the table in Azure Synapse Analytics.
3. **Create a Pipeline**:
   * Add a Copy Data activity to copy the raw CSV files from Data Lake Storage to a staging area in Synapse.
   * Add a Databricks Notebook activity to perform data transformation.

**Step 3: Transform Data with Azure Databricks**

1. **Create a Databricks Notebook**:
   * Create a new notebook in Azure Databricks to read the CSV files, clean the data, and aggregate sales data.
2. **Sample Notebook Code**:

python

# Import necessary libraries

# Read CSV files from Azure Data Lake Storage

# Data cleaning and transformation

# Aggregate sales data

# Write transformed data back to Azure Synapse Analytics

**Step 4: Orchestrate the Pipeline in Azure Synapse**

1. **Add Notebook Activity**:
   * In the Synapse pipeline, configure the Databricks Notebook activity to run the notebook created in the previous step.
2. **Configure Triggers**:
   * Set up triggers to run the pipeline at scheduled intervals or based on events, such as the arrival of new data in the Data Lake.