

## **Week - 5 - CI/CD Pipeline - Customer Orders**

### **Objective:**

1. To automate the customer order delay analysis workflow using Azure DevOps, which:
2. Loads cleaned customer order and delivery data using a Python script.
3. Summarizes total and delayed orders with delay statistics.
4. Logs delay summary to a file for reporting and tracking.
5. Executes the entire workflow automatically through Azure DevOps pipelines with success notification.

### **Pre-requisites:**

Before you begin, make sure you have:

- Authentication: SSH Key or Personal Access Token (PAT) configured.
- Tools Installed:
  1. Git
  2. Python 3.x
  3. VS Code or any preferred IDE
- Local Project Folder contains:
  - Python script: alert\_threshold.py
  - Azure DevOps pipeline config file: azure-pipelines.yml

### **Step-by-Step Execution**

**Step 1:** Create Python Script & YAML in Local Folder

**Step 2:** Create Azure DevOps Project

1. Go to Azure DevOps Portal.
2. Click "New Project".
3. Enter project name and visibility.
4. Click "Create".

**Step 3:** Push Local Code to Azure Repo via SSH

```
>> cd C:\Users\meena\OneDrive\Documents\Hexaware-projects\Project-DE\Customer-order
```

```
>> git init
```

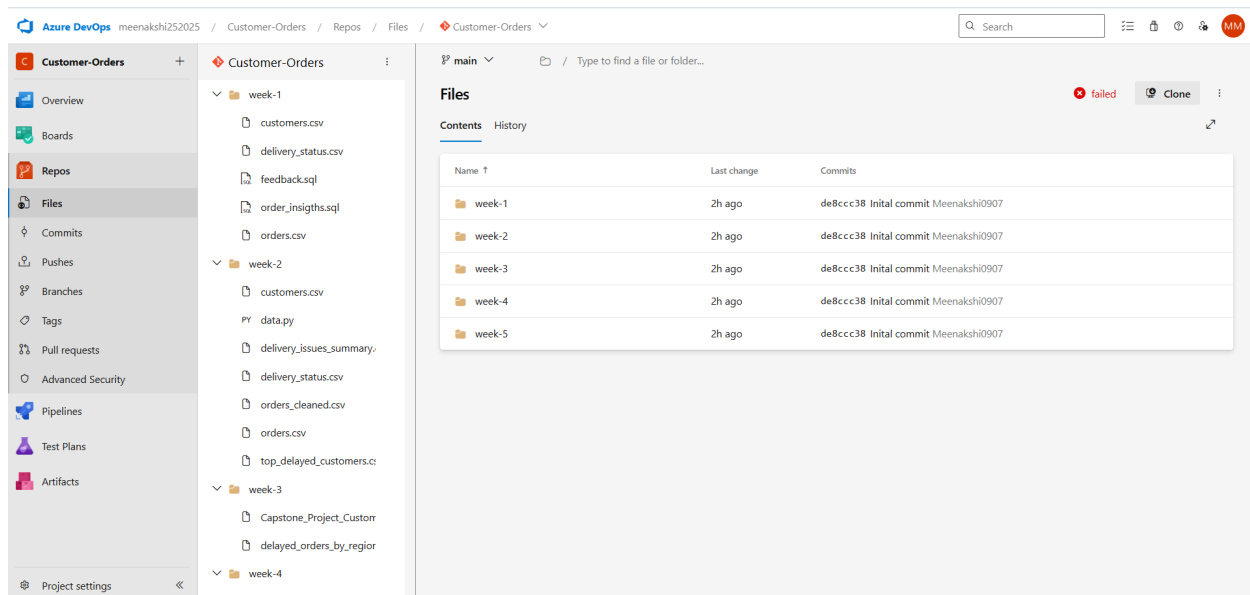
```
>> git add .
```

```
>> git commit -m "Initial commit"
```

```
>> git remote add origin
```

```
"git@ssh.dev.azure.com:v3/meenakshi252025/Customer-Orders/Customer-Orders"
```

```
>> git push -u origin main
```



#### Step 4: Configure and Run Azure Pipeline

1. In Azure DevOps, go to Pipelines → Create Pipeline.
2. Select:
  - Code source: Azure Repos Git
  - Your repository
  - Choose: "Existing Azure Pipelines YAML file"
3. Specify:
  - Branch: main
  - YAML Path: /Week 5/azure-pipelines.yml
4. Click Continue → Run.

Azure DevOps meenakshi252025 / Customer-Orders / Pipelines / Customer-Orders / 20250703.1

Customer-Orders +

- Overview
- Boards
- Repos
- Pipelines
- Pipelines
- Environments
- Library
- Test Plans
- Artifacts

Project settings <<

### #20250703.1 • Initial commit

Customer-Orders

Rerun failed jobs Run new

This run will be cleaned up after 1 month based on your project settings.

Summary Code Coverage

Manually run by Meenakshi M

Repository and version  
Customer-Orders  
main de9ccc38

Time started and elapsed  
Today at 10:05 PM  
<1s

Related  
0 work items  
0 artifacts

Tests and coverage  
Get started

View change

Errors 1

No hosted parallelism has been purchased or granted. To request a free parallelism grant, please fill out the following form <https://aka.ms/azpipelines-parallelism-request>

View documentation for troubleshooting failed runs

Jobs

Name	Status	Duration
Job	Failed	

## Final Output

Pipeline successfully completed

- Python logs are generated
- deley\_summary.log is published