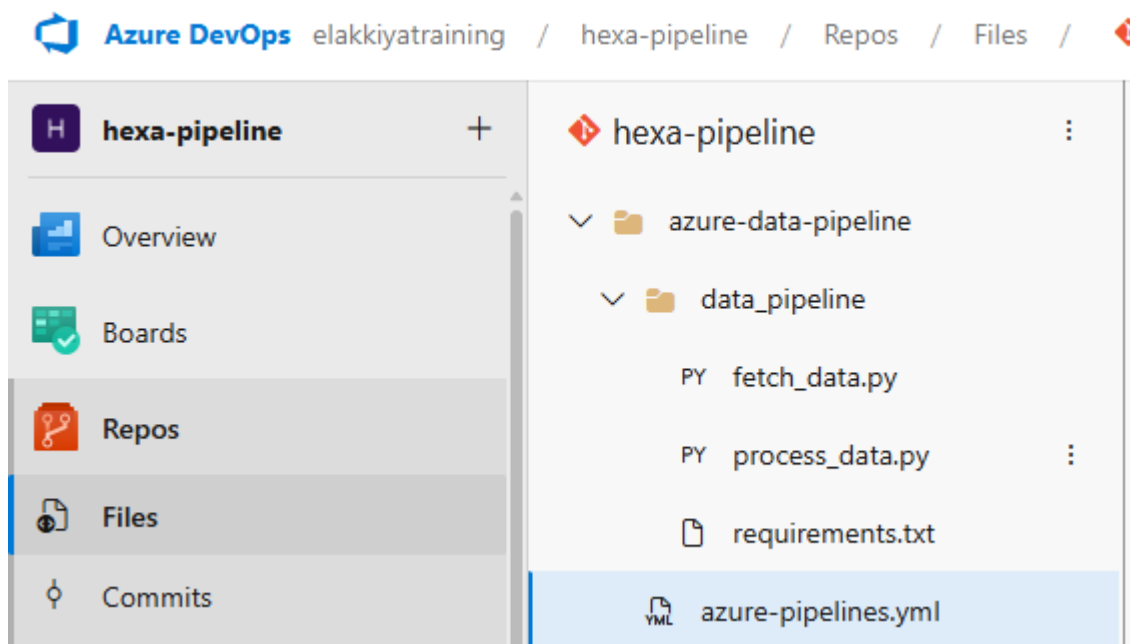





# Creating Pipeline in Azure DevOps

## Project Structure



```
azure-data-pipeline/  
├── data_pipeline/  
│   ├── fetch_data.py  
│   ├── process_data.py  
│   └── requirements.txt  
└── azure-pipelines.yml
```






## Step 1: Sample Python Scripts


   / azure-data-pipeline / data\_pipeline / fetch\_data.py

### fetch\_data.py




 Edit 

[Contents](#) [History](#) [Compare](#) [Blame](#) 



 Committed  3ca80219: Added azure-pipelines.yml


Create a pull request 



```
1 import json
2
3 def fetch():
4     data = {"students": [
5         {"id": 1, "name": "Abhinav", "marks": 78},
6         {"id": 2, "name": "Priya", "marks": 85},
7         {"id": 3, "name": "Rahul", "marks": 92},
8     ]}
9     with open("raw_data.json", "w") as f:
10         json.dump(data, f)
11     print("Raw data fetched and saved to raw_data.json")
12
13 if __name__ == "__main__":
14     fetch()
15
```


   / azure-data-pipeline / data\_pipeline / process\_data.py

### process\_data.py

 Edit 



[Contents](#) [History](#) [Compare](#) [Blame](#) 

 Committed  3ca80219: Added azure-pipelines.yml



Create a pull request 


```
1 import json
2
3 def process():
4     with open("raw_data.json", "r") as f:
5         data = json.load(f)
6     high_scorers = [s for s in data["students"] if s["marks"] > 80]
7     with open("processed_data.json", "w") as f:
8         json.dump(high_scorers, f)
9     print("Processed data saved to processed_data.json")
10
11 if __name__ == "__main__":
12     process()
13
```



## Step 2: Azure Pipelines YAML ( azure-pipelines.yml )


 main  / azure-data-pipeline / azure-pipelines.yml

### azure-pipelines.yml

 Edit 

Contents History Compare Blame 

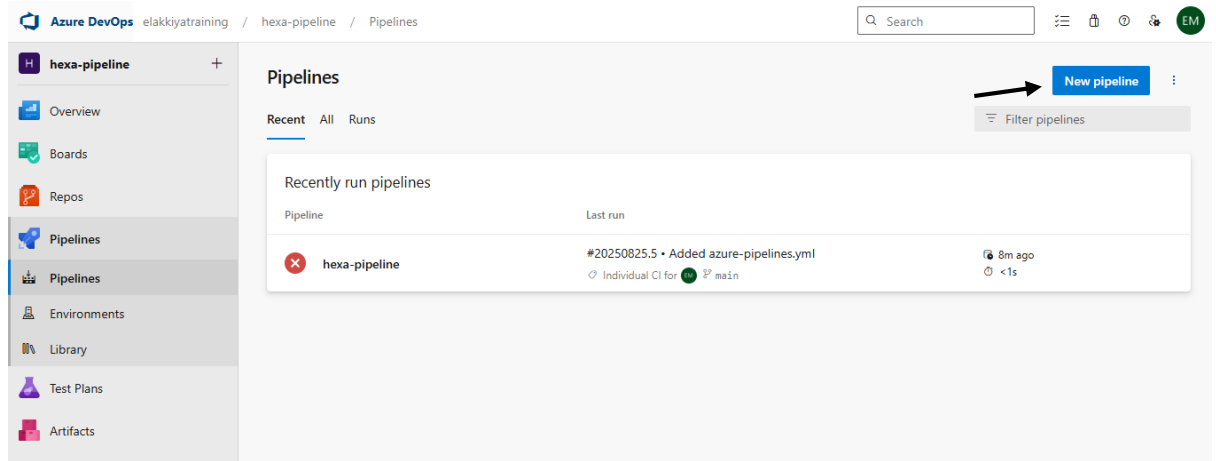
 Committed  3ca80219: Added azure-pipelines.yml

Create a pull request 

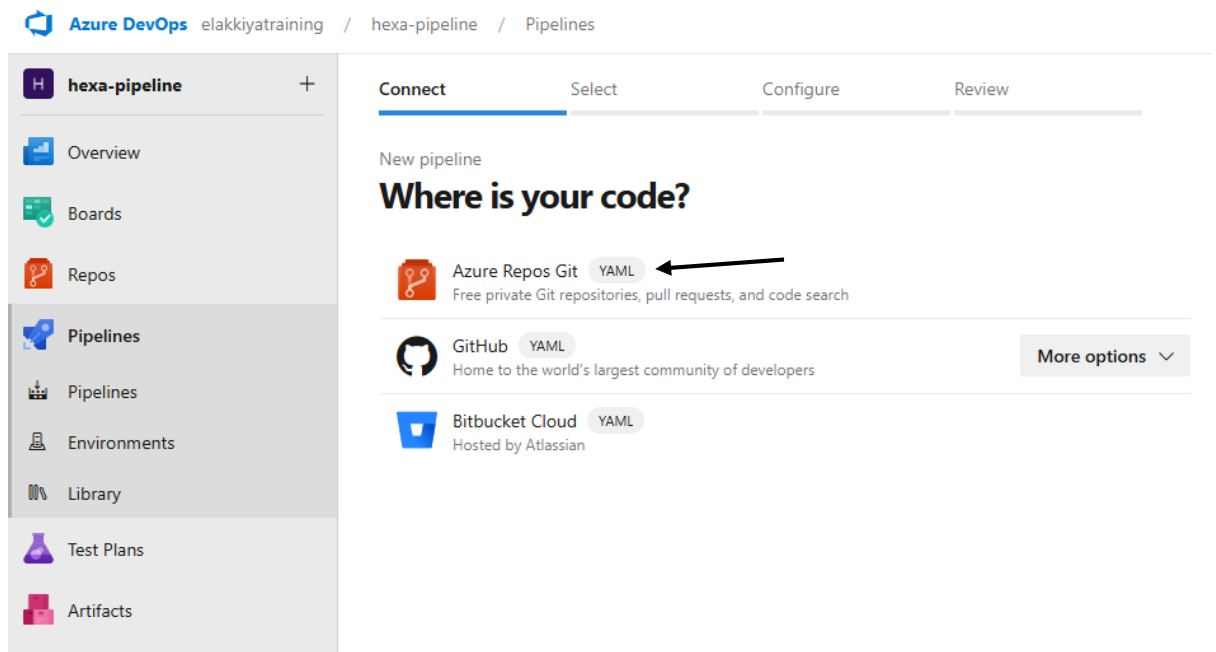
```
1 trigger:
2   - main
3
4 pool:
5   vmImage: ubuntu-latest
6
7 steps:
8   # 1) Checkout code
9   - checkout: self
10
11  # 2) Set up Python
12  - task: UsePythonVersion@0
13    inputs:
14      versionSpec: '3.10'
15      addToPath: true
16
17  # 3) Install dependencies
18  - script: |
19      python -m pip install --upgrade pip
20      pip install -r data_pipeline/requirements.txt
21    workingDirectory: azure-data-pipeline
22
23    displayName: Install dependencies
24
25  # 4) Fetch raw data
26  - script: |
27      python fetch_data.py
28      workingDirectory: azure-data-pipeline/data_pipeline
29      displayName: Fetch raw data
30
31  # 5) Process data
32  - script: |
33      python process_data.py
34      workingDirectory: azure-data-pipeline/data_pipeline
35      displayName: Process data
36
37  # 6) Publish artifact
38  - task: PublishBuildArtifacts@1
39    inputs:
40      PathtoPublish: 'azure-data-pipeline/data_pipeline/processed_data.json'
41      ArtifactName: 'ProcessedData'
42      publishLocation: 'Container'
```

## Step 3: How to Run

### 1. Go to Azure DevOps Portal → Pipelines.



### 2. Click New Pipeline → Connect your repo → Select YAML.



### 3. Point it to azure-pipelines.yml .

Azure DevOps elakkiyatrainning / hexa-pipeline / Pipelines

Search

hexa-pipeline +

Overview  
Boards  
Repos  
Pipelines  
Pipelines  
Environments  
Library  
Test Plans  
Artifacts  
Project settings <<

Connect ✓ Select ✓ Configure ✓ Review

New pipeline

Review your pipeline YAML

Variables Run

hexa-pipeline / azure-data-pipeline/azure-pipelines.yml Show assistant

```
1 trigger:
2   - main
3
4 pool:
5   - vmImage: ubuntu-latest
6
7 steps:
8   # 1) Checkout code
9   - checkout: self
10
11  # 2) Set up Python
12  Settings
13  - task: UsePythonVersion@0
14    inputs:
15      versionSpec: '3.10'
16      addToPath: true
17
18  # 3) Install dependencies
19  - script: |
```

### 4. Save & Run.

Azure DevOps elakkiyatrainning / hexa-pipeline / Pipelines / hexa-pipeline (2) / 20250825.1

Search

hexa-pipeline +

Overview  
Boards  
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Pipelines  
Pipelines  
Environments  
Library  
Test Plans  
Artifacts  
Project settings <<

Summary Code Coverage

Manually run by Elakkiya M View 6 changes

Repository and version  
hexa-pipeline  
main 3ca80219

Time started and elapsed  
Just now  
<1s

Related  
0 work items  
0 artifacts

Tests and coverage  
Get started

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/azpipelin...>

View documentation for troubleshooting failed runs

Jobs

| Name | Status | Duration |
|------|--------|----------|
| Job  | Queued |          |

This is how we create the pipeline in azure DevOps but we need subscription to run the job.