

Pictorial Document for DevOps Pipeline Process – WEEK_5

Step 1:

Create New Project -> SupplyChainAutomation -> Click on to the Three dots on the top right corner and add your .ipynb notebook -> “SupplyChain_Pipeline.ipynb” and yaml file “azure-pipelines.yml” file.

The screenshot shows the Azure DevOps web interface. The left sidebar contains navigation links: Overview, Boards, Repos, Files (selected), Commits, Pushes, Branches, Tags, Pull requests, Advanced Security, Pipelines, Test Plans, and Artifacts. The main area displays the 'Files' tab for the 'SupplyChainAutomation' project. A table lists the files in the repository:

Name	Last change	Commits
azure-pipelines.yml	2m ago	62a95cf2 Added the yaml file "azure-pipelines.y...
README.md	8m ago	77b48355 Added README.md Rajpriya Vondivilu ...
SupplyChain_Pipeline.ipynb	7m ago	10ea9b54 SupplyChain_Pipeline Py Notebook Rajp...

Below the table, there is a section titled 'Introduction' with a TODO: Give a short introduction of your project. Let this section explain the objectives or the motivation behind this project. Another section titled 'Getting Started' has a TODO: Guide users through getting your code up and running on their own system. In this section you can talk about: 1. Installation process, 2. Software dependencies, 3. Latest releases, 4. API references. A third section titled 'Build and Test' has a TODO: Describe and show how to build your code and run the tests.

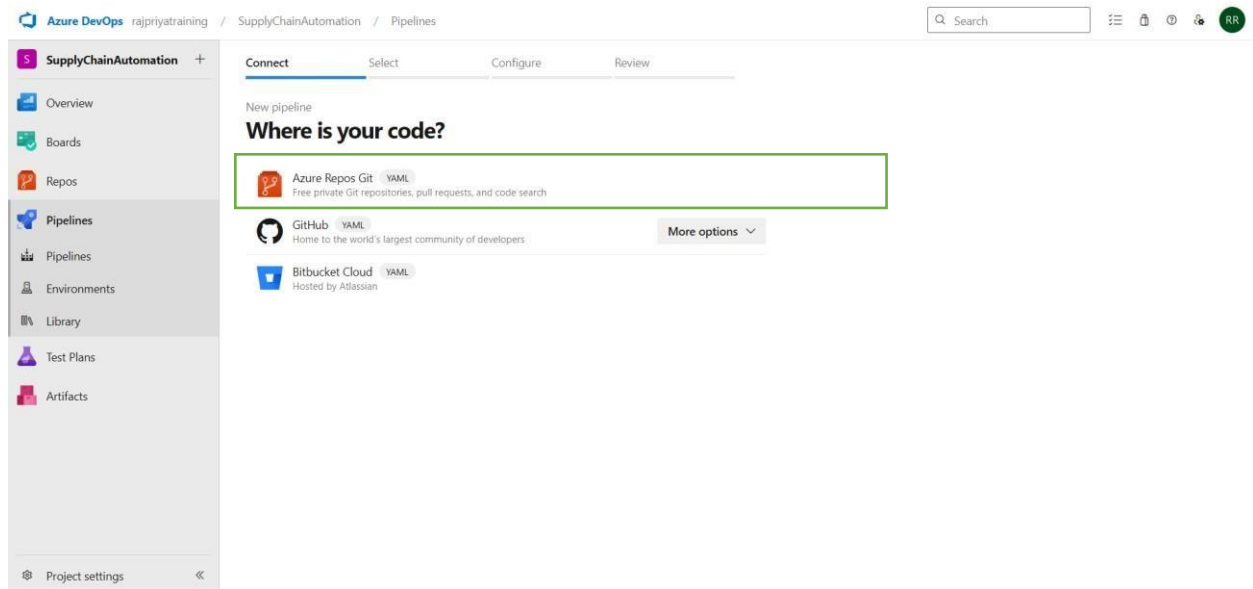
Step 2:

Go to Pipelines -> Pipelines -> Create Pipeline.

The screenshot shows the Azure DevOps web interface. The left sidebar contains navigation links: Overview, Boards, Repos, Pipelines (selected), Pipelines (sub-item), Environments, Library, Test Plans, and Artifacts. The main area displays the 'Create your first Pipeline' wizard. It features an illustration of a person working on a laptop with a dog nearby. The text reads: 'Automate your build and release processes using our wizard, and go from code to cloud-hosted within minutes.' Below this, there is a prominent blue button labeled 'Create Pipeline'.

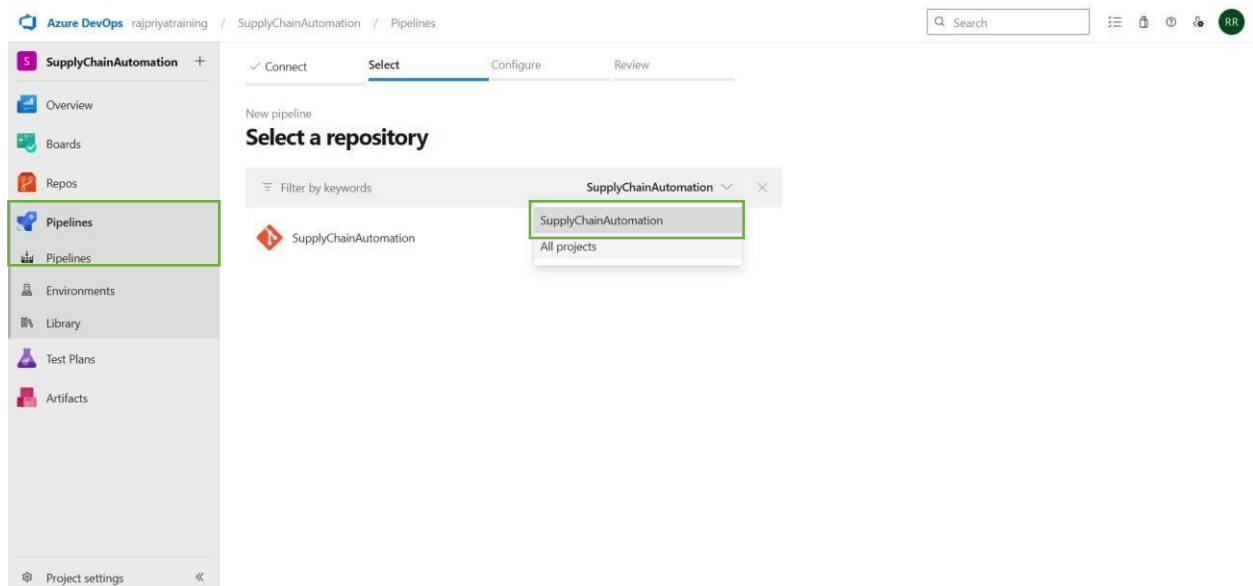
Step 3:

Select Azure Repos Git.



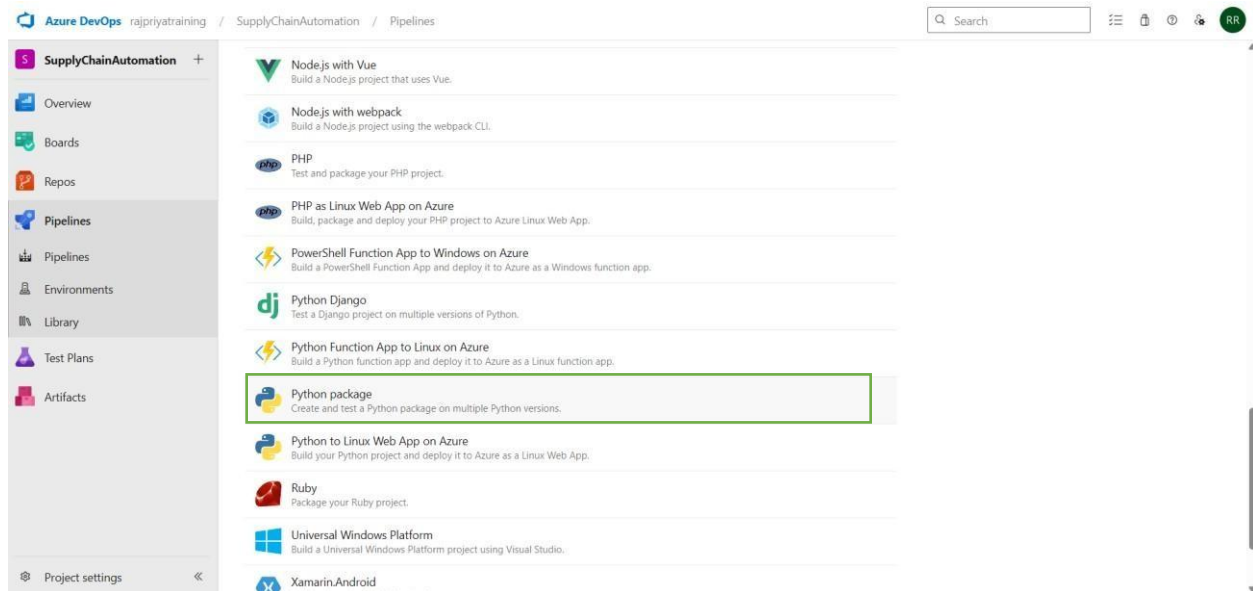
Step 4:

Select a repository -> SupplyChainAutomation.



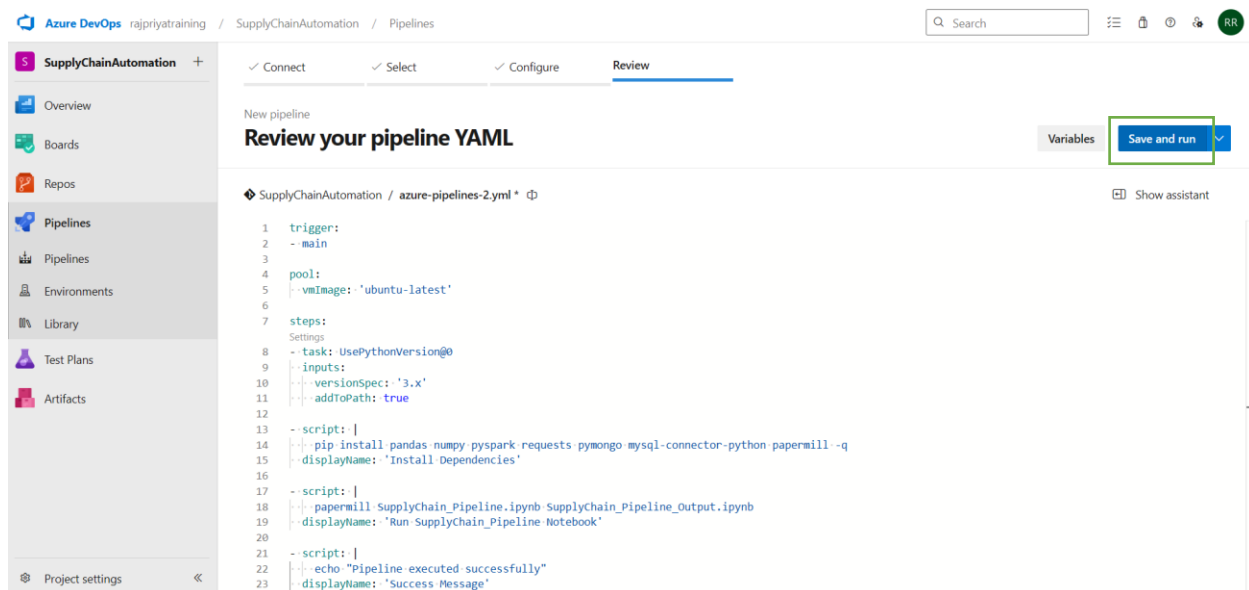
Step 5:

Select Python Package.



Step 6:

Click on Save and Run.



Step 7:

Again, click on Save and Run.

The screenshot shows the Azure DevOps interface for reviewing a pipeline. The left sidebar contains navigation links: Overview, Boards, Repos, Pipelines, Environments, Library, Test Plans, and Artifacts. The main area is titled 'Review your pipeline YAML' and displays the following YAML code:

```
1 trigger:
2   - main
3
4 pool:
5   - vmImage: 'ubuntu-latest'
6
7 steps:
8   - task: UsePythonVersion@0
9     inputs:
10      - versionSpec: '3.x'
11      - addToPath: true
12
13   - script: |
14     - pip install pandas numpy pyspark requests pymongo mysql-connector-python papermill -q
15     - displayName: 'Install Dependencies'
16
17   - script: |
18     - papermill SupplyChain_Pipeline.ipynb SupplyChain_Pipeline_output.ipynb
19     - displayName: 'Run SupplyChain_Pipeline Notebook'
20
21   - script: |
22     - echo "Pipeline executed successfully"
23     - displayName: 'Success Message'
```

On the right, a 'Save and run' dialog box is open. It contains a 'Commit message' field with the text 'Set up CI with Azure Pipelines', an 'Optional extended description' field, and two radio buttons: 'Commit directly to the main branch' (selected) and 'Create a new branch for this commit'. A 'Save and run' button is highlighted with a green box at the bottom right of the dialog.

Step 8:

Now we can see the summary of the pipeline and it is scheduled to run with the configured agent.

The screenshot shows the Azure DevOps interface for the summary of a pipeline. The left sidebar is the same as in Step 7. The main area is titled '#20250822.2 • Set up CI with Azure Pipelines' and shows the pipeline is 'Manually run by' Rajpriya Vondivilu Raja. The 'Summary' tab is selected, and the 'Code Coverage' tab is also visible. The pipeline is scheduled to run with the configured agent. The 'Jobs' section shows a single job named 'Job' with a status of 'Queued'.

Name	Status	Duration
Job	Queued	