Tejashree G
tejashreeg.ai2021@dce.edu.in

Azure Devops Coding Assessment

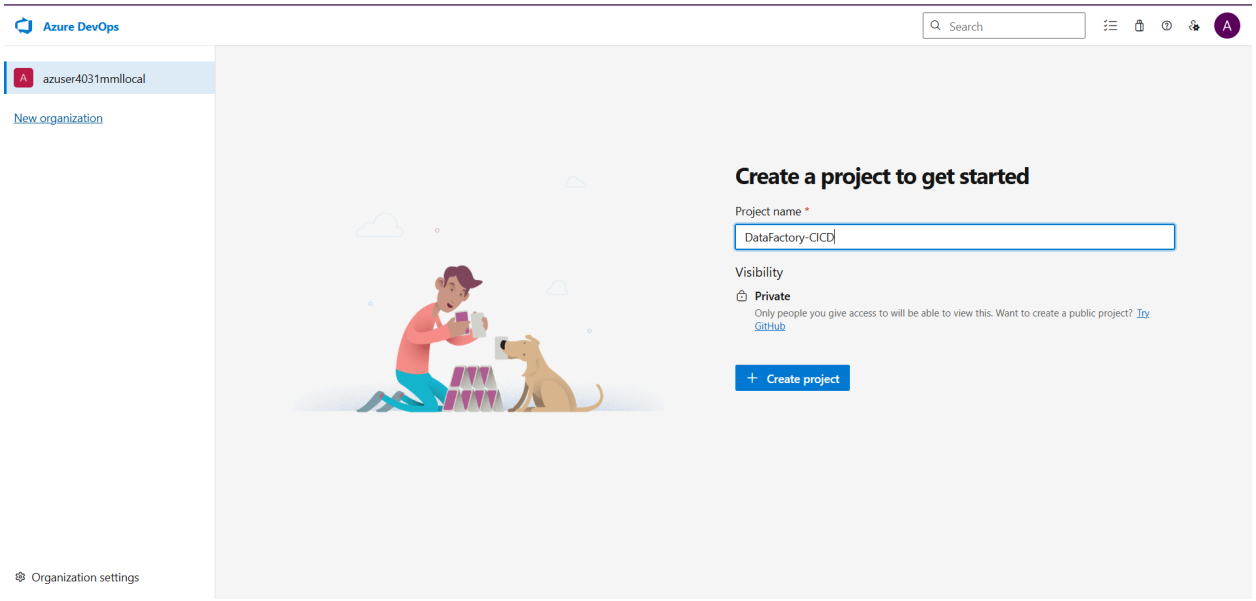
Step 1: Create a Repository in Azure DevOps

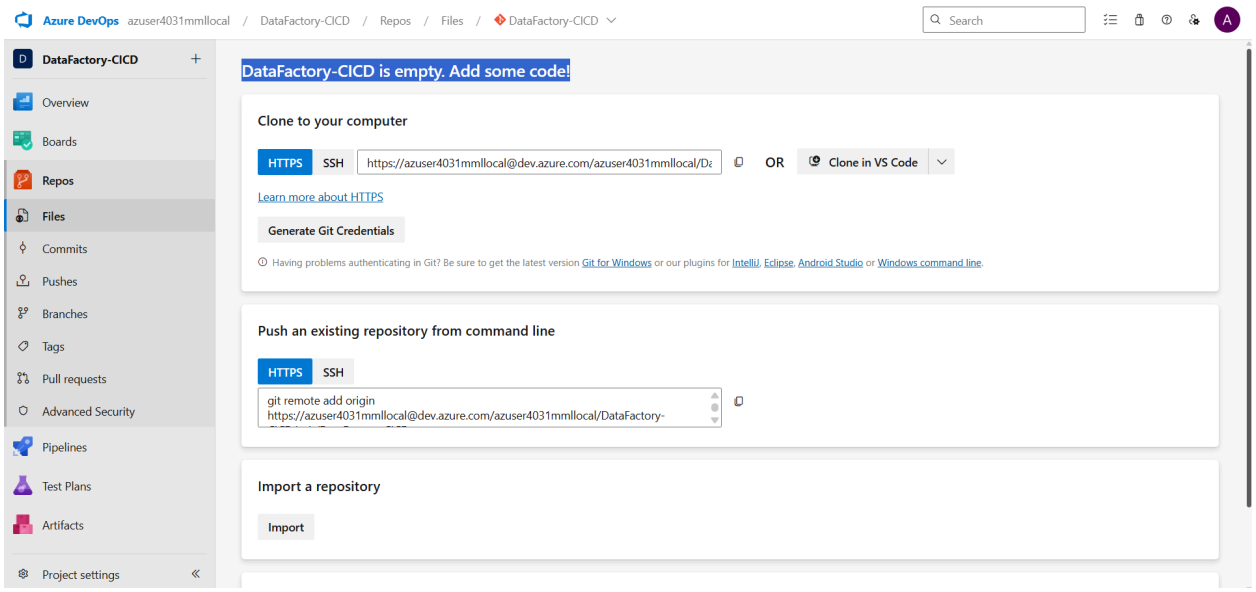
1. Go to Azure DevOps.

2. Select your organization → New Project.

    - Give it a name (e.g., DataFactory-CICD).
    - Visibility → Private or Public (usually Private).
    - Click Create Project.

3. Inside the project → Go to Repos → You'll see an empty repository created by default.
    - If not, click New Repository, give it a name (e.g., adf-repo), and create it.

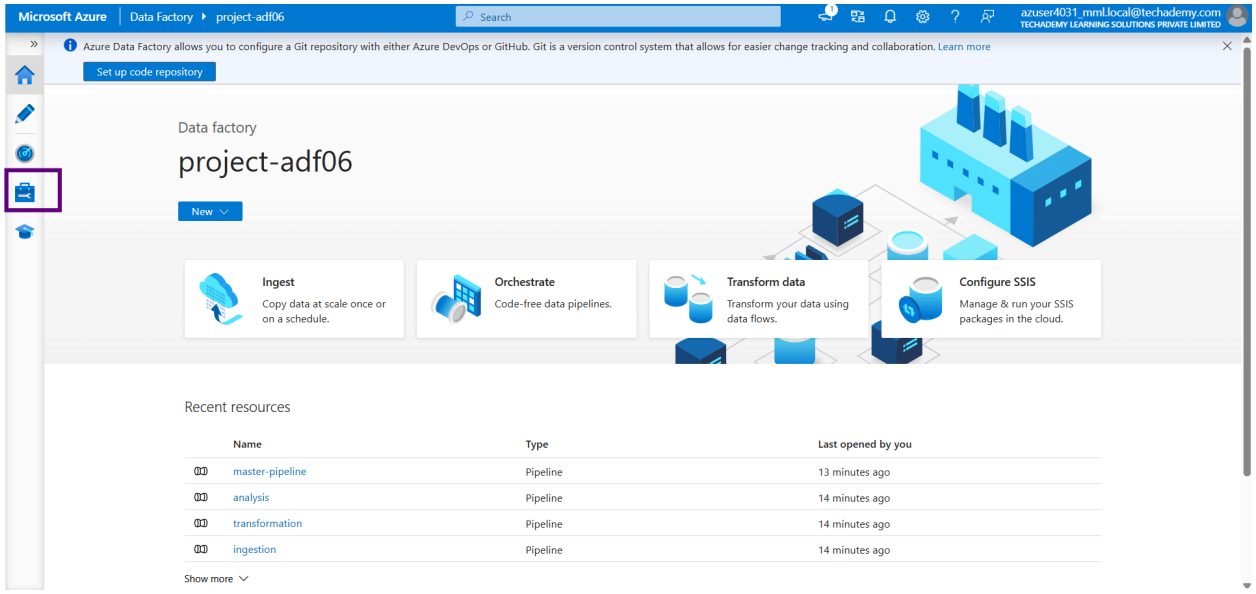




Step 2: Connect ADF to This Repo

1. Open your Azure Data Factory Studio.
2. On the left panel → click Manage (wrench icon).
3. Under Source control → click Git Configuration.
4. Select:
    - Repository type: Azure DevOps Git.
    - Azure DevOps organization name: (choose the one where repo is created).
    - Project name: (the project you created, e.g., `DataFactory-CICD`).
    - Repository name: (e.g., `adf-repo`).
    - Collaboration branch: choose `main`.
    - Publish branch: ADF will auto-create `adf_publish`.
5. Click Apply.

Now ADF is linked to your Azure DevOps repo.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Data Factory
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Azure Data Factory allows you to configure a Git repository with either Azure DevOps or GitHub. Git is a version control system that allows for easier change tracking and collaboration. Learn more
Set up code repository
Data factory
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New
Ingest
Copy data at scale once or on a schedule.
Orchestrate
Code-free data pipelines.
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Transform your data using data flows.
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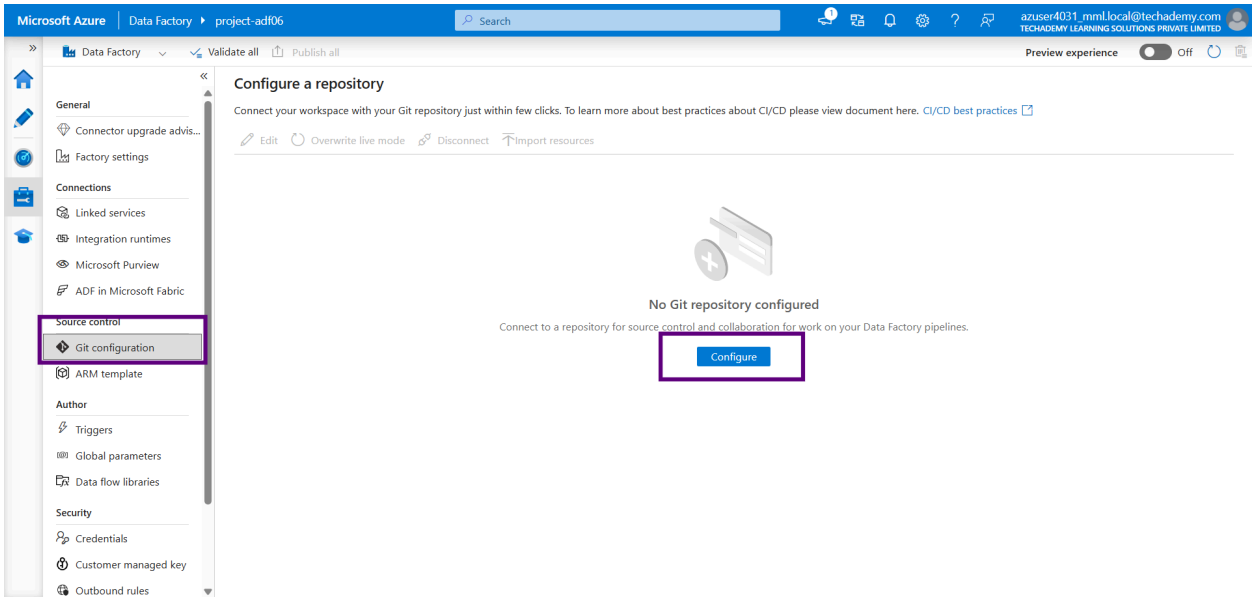
Manage & run your SSIS packages in the cloud.
Recent resources
Name
Type
Last opened by you
master-pipeline
Pipeline
13 minutes ago
analysis
Pipeline
14 minutes ago
transformation
Pipeline
14 minutes ago
ingestion
Pipeline
14 minutes ago
Show more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Data Factory
Validate all
Publish all
Preview experience
Off
General
Connector upgrade advis...
Factory settings
Connections
Linked services
Integration runtimes
Microsoft Purview
ADF in Microsoft Fabric
Source control
Git configuration
ARM template
Author
Triggers
Global parameters
Data flow libraries
Security
Credentials
Customer managed key
Outbound rules
Configure a repository
Connect your workspace with your Git repository just within few clicks. To learn more about best practices about CI/CD please view document here. CI/CD best practices
Edit
Overwrite live mode
Disconnect
Import resources
No Git repository configured
Connect to a repository for source control and collaboration for work on your Data Factory pipelines.
Configure

Configure a repository

Specify the settings that you want to use when connecting to your repository.

Repository type * ⓘ

Azure DevOps Git

◉ Cloud ⓘ ○ Cloud (cross-tenant sign-in) ⓘ ○ Server (on-premise) ⓘ

Microsoft Entra ID ⓘ

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Continue

Cancel

Configure a repository

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Specify the settings that you want to use when connecting to your repository.

(•) Select repository ( ) Use repository link

Azure DevOps organization name * ⓘ

azuser4031mmllocal

Project name * ⓘ

DataFactory-CICD

Repository name * ⓘ

adf-repo

Collaboration branch * ⓘ

master

Publish branch * ⓘ

adf_publish

Root folder * ⓘ

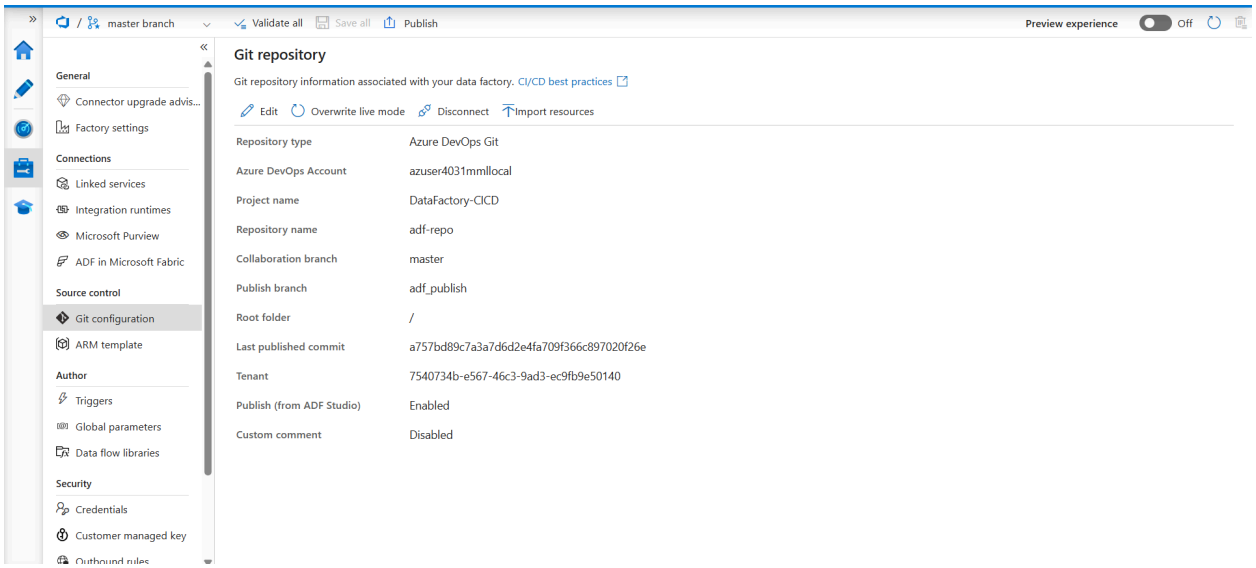
/

Custom comment

☑ Use custom comment

Import existing resources

Apply Back Cancel

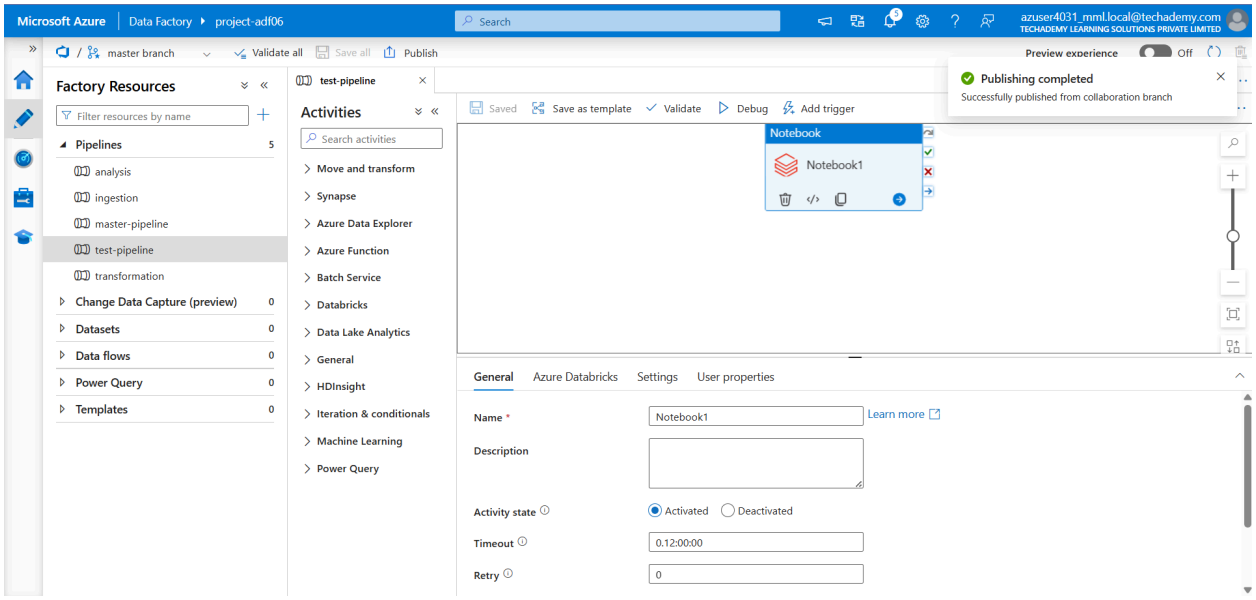


Step 3: Create Pipeline in ADF

- Go to Azure Data Factory Studio → Author tab.
- Click + (plus) → Pipeline.
- Add notebook activity
- Give it a name liketest-pipeline
- Click Save and publish

At this moment:

- The pipeline JSON will be committed to your repo in the collaboration branch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master branch
Validate all
Save all
Publish
Preview experience
Off
Factory Resources
Filter resources by name
Pipelines 5
analysis
ingestion
master-pipeline
test-pipeline
transformation
Change Data Capture (preview) 0
Datasets 0
Data flows 0
Power Query 0
Templates 0
test-pipeline
Activities
Search activities
Move and transform
Synapse
Azure Data Explorer
Azure Function
Batch Service
Databricks
Data Lake Analytics
General
HDInsight
Iteration & conditionals
Machine Learning
Power Query
Saved
Save as template
Validate
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Add trigger
Publishing completed
Successfully published from collaboration branch
Notebook
Notebook1
General
Azure Databricks
Settings
User properties
Name *
Notebook1
Learn more
Description
Activity state
Activated
Deactivated
Timeout
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Retry
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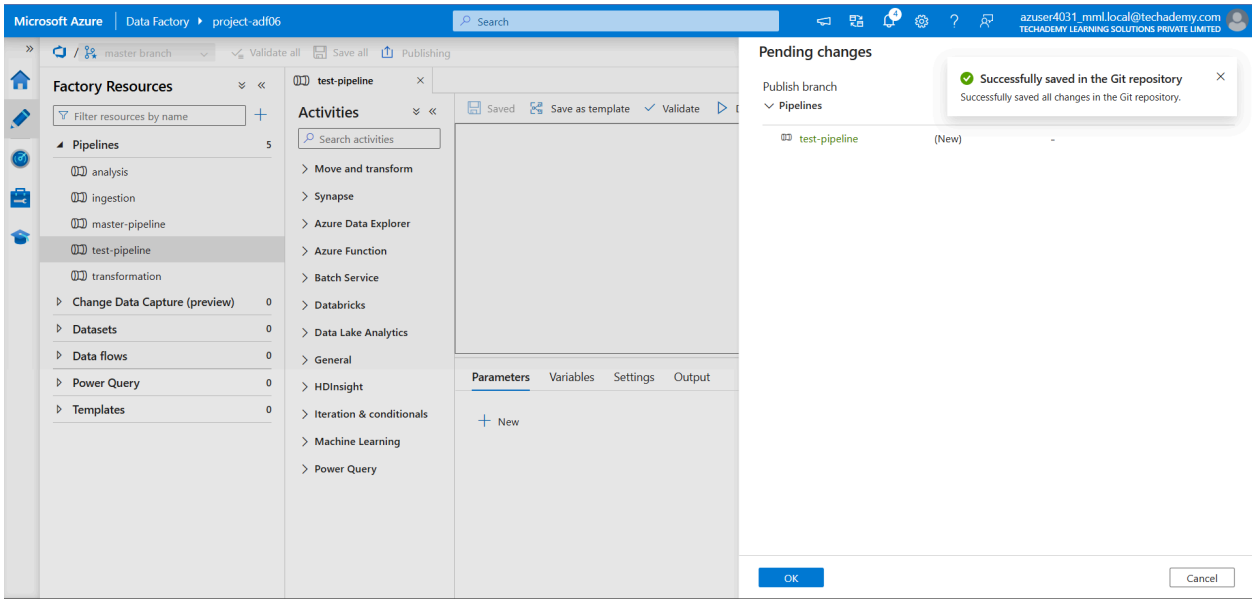
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Templates 0
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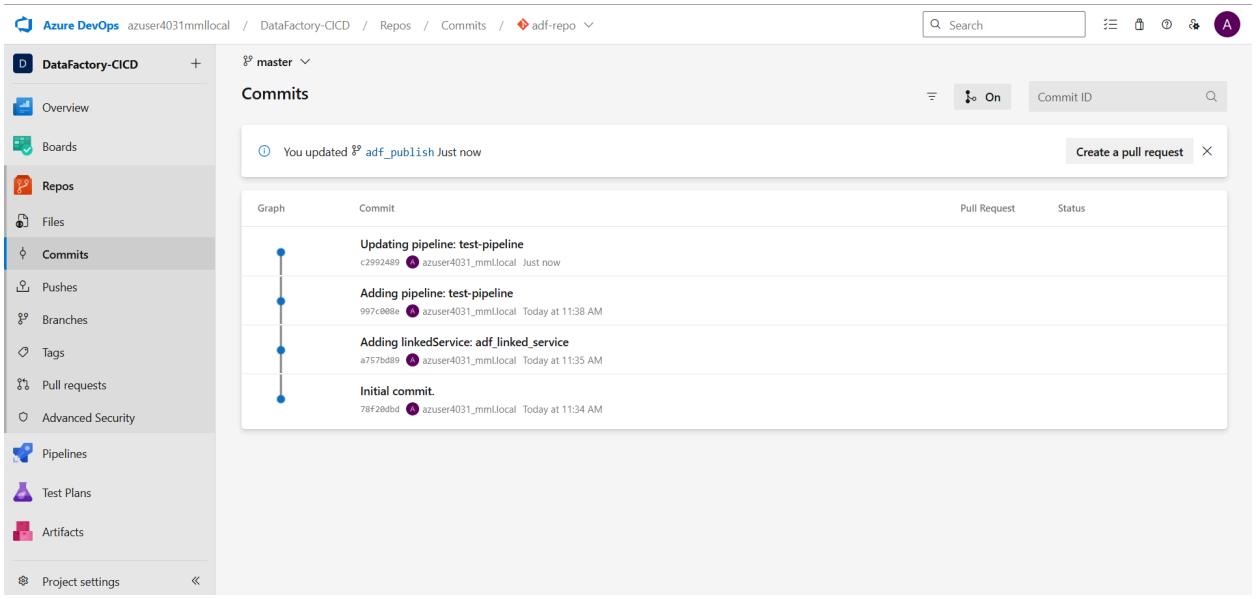
Synapse
Azure Data Explorer
Azure Function
Batch Service
Databricks
Data Lake Analytics
General
HDInsight
Iteration & conditionals
Machine Learning
Power Query
Saved
Save as template
Validate
Parameters
Variables
Settings
Output
New
Pending changes
Publish branch
Pipelines
test-pipeline
(New)
Successfully saved in the Git repository
Successfully saved all changes in the Git repository.
OK
Cancel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DataFactory-CICD
Overview
Boards
Repos
Files
Commits
Pushes
Branches
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Pull requests
Advanced Security
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Test Plans
Artifacts
Project settings
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Commits
On
Commit ID
You updated adf_publish Just now
Create a pull request
Graph
Commit
Pull Request
Status
Updating pipeline: test-pipeline
c2992489 azuser4031_mml.local Just now
Adding pipeline: test-pipeline
997c008a azuser4031_mml.local Today at 11:38 AM
Adding linkedService: adf_linked_service
a757bd89 azuser4031_mml.local Today at 11:35 AM
Initial commit.
78f20dbd azuser4031_mml.local Today at 11:34 AM