Azure Data Factory - Key vault - Git Configuration

Create Resource Group:

Step 1: Create resource group : “my-rg2”

Create Storage Account:

Step 2: Storage account name: “myrgstorage2”

- Enable Hierarchical name space: “Yes”
- Create Container : “my-container”
- In “my-container” Upload a sample file.

Create SQL database:

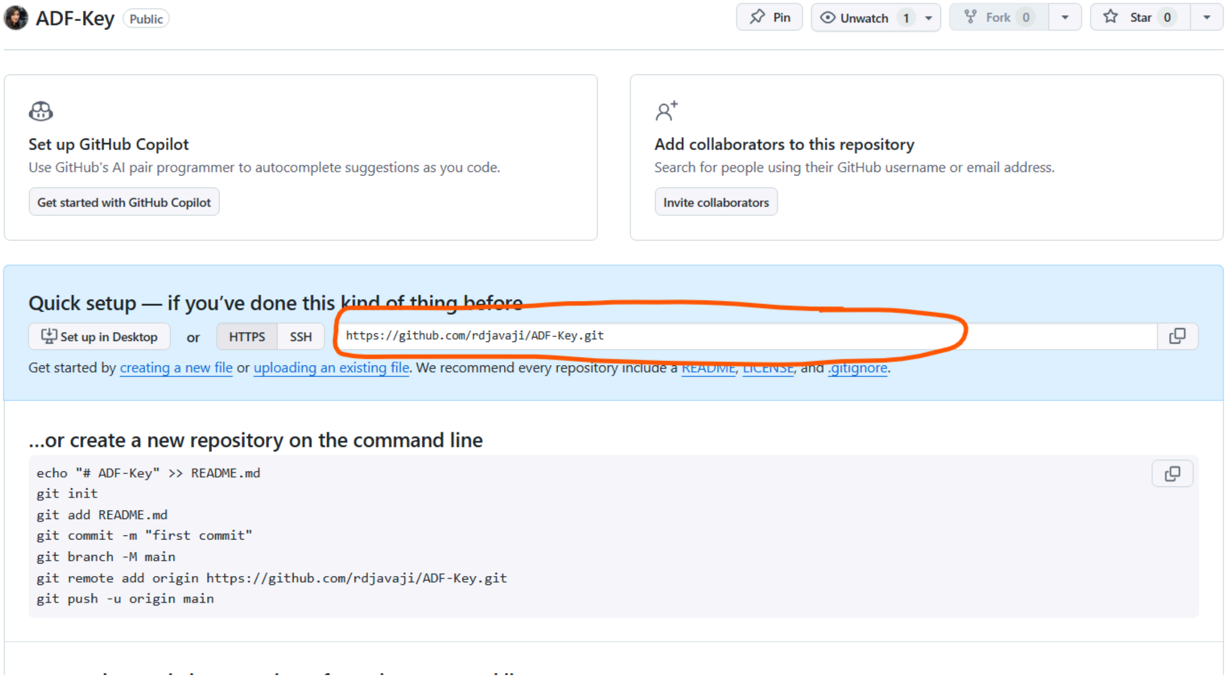
Step 3: **Basic**:

- sql database name: “mysqldatabase”
- Server: create : create new : “myrgserverdb”
- Authentication method: “SQL Authetication”
- Server admin login: “myrgserverlog”
- Password: 1121………
- Workload environment: “Production”
- Compute + storage: Service tier : basic(for less demanding workloads)
- Data Max size : “0” - Apply
- Backup storage redundancy: “Locally-redundant backup storage”
- **Networking**: Connectivity method: “Public endpoint”
- Allow Azure services and resources to access this server: “yes”
- Add current client IP address: “Yes”
- **Additional settings**: “Sample”
- Review+create
- Create

Create Repository in GitHub

Step 4: Login to Git-hub

- Repository name: “ADF-Key”
- Copy the set up link and past it in sticky notes - refer screenshot



Use GitHub's AI pair programmer to autocomplete suggestions as you code.

Search for people using their GitHub username or email address.

Quick setup — if you've done this kind of thing before

```
https://github.com/rdjavaji/ADF-Key.git
```

Get started by creating a new file or uploading an existing file. We recommend every repository include a README, LICENSE, and .gitignore.

...or create a new repository on the command line

```
echo "# ADF-Key" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/rdjavaji/ADF-Key.git
git push -u origin main
```

- Create a REAdme file

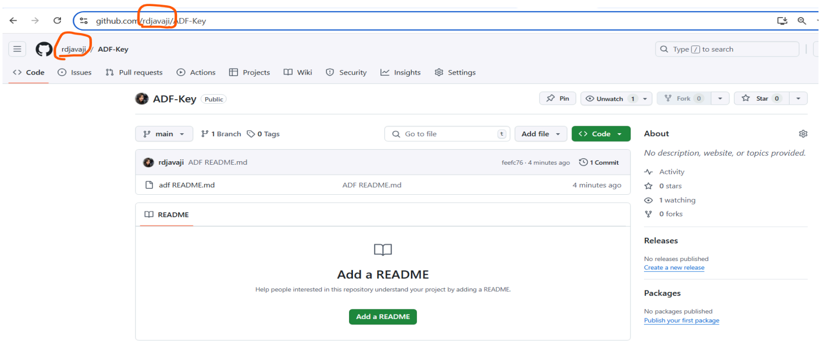
Create Azure Data Factory

Step 5: Resource group ame: “my-rg2”

- Data Factory name: “dfactory-myrg”
- Region: “Central US”
- Git Configuration : Yes
- Review+create
- Create - Launch Studio

Step 6: Select - Manage

- Select - Git Configuration - Configure
- Repository type : “GitHub”
- GitHub repository owner: “rdjavaji” refer screenshot



rdjavaji ADF README.md feefc76 · 4 minutes ago 1 Commit

adf README.md ADF README.md 4 minutes ago

No description, website, or topics provided.

No releases published

No packages published

Help people interested in this repository understand your project by adding a README.

- It will ask for login details email & password - Once logged in

- Repository name: “ADF-Key”
- Collaboration branch: create new : “Dev” or you can also keep the existing one which is “Main” or you can also create a new branch.
- Cross check that the Dev branch is created in GitHub.

Create Azure Key - Vault

Step 7: **Basics**:

- Select resource group: “my-rg2”
- Key vault name: “myrg-keyv1”
- Region: “Central US”
- **Access Configuration:**
- Permission model - select : Vault access policy
- Access policies - check the box “Name”
- Access policies - select “create”
- In permissions : under “Secret permissions” check the box “select all”
- In principle: Type the name of the Azure Data Factory: “dfactory-myrg”
- Applications (No change)
- Review + Create - Create
- Select : objects - Secrets
- + Generate/Import
- Secret Name: “myrg-keyv01”
- Secret value: 1121202025Kutty! (act as password)
- Create

Step 8: Go to **Azure Data Factory** - Manage - **Linked service**: + New

- **SQL Database**
- Name: “AzureSqlDatabase1” (keeping the same/ Also we can rename it)
- Server name: “myrgserverdb” (select from dropdown the one which is create at creation of sql database) Reg step 3
- Database name: “mysqldatabase” (select from dropdown the one which is create at creation of sql database) Reg step 3
- User name: “myrgserverlog”
- Password : Select Azure Key Vault
- AKV linked service: Select new
- Name: “ls_keyv1”
- Azure key vault name: “myrg-keyv1”(select from drop down)
- Test Connection - Create
- Secret name: “myrg-keyv01” (select from drop down) Also available in key vault page - objects - Secrets)
- Secret Version: current version
- Test connection

Step 9: Go to **Azure Data Factory** - Manage - **Linked service**: + New

- **Azure Data Lake Storage**
- Name: “AzureDataLakeStorage1” (keeping the same/ Also we can rename it)

- Authentication type: “Account Key”
- Storage account name: “myrgstorage2”
- Account selection method - Azure key Vault
- AKV linked service: “ls_keyv1”
- Secret name: “myrg-keyv01”
- Secret Version: Current version.
- Test connection
- Create.

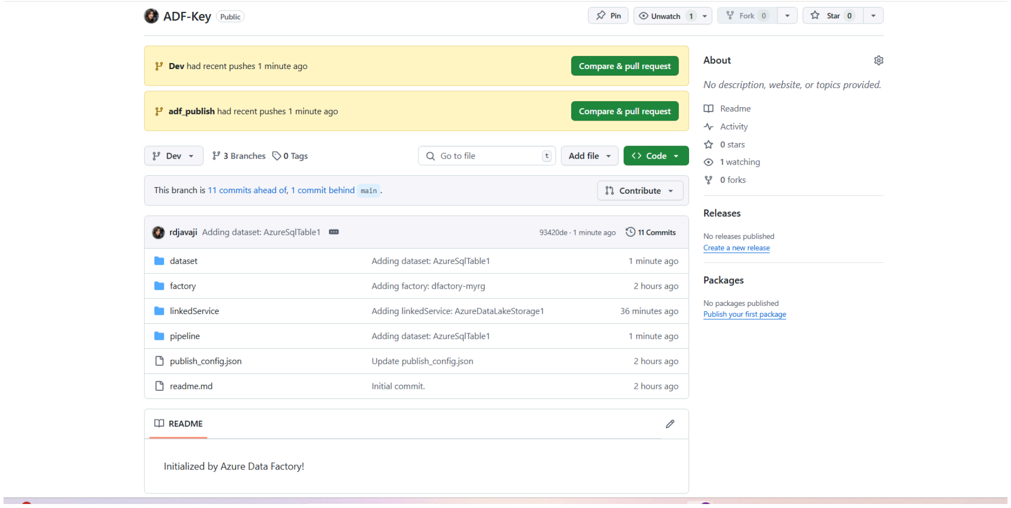
Step 10: In Azure data factory - Author - Data sets - New data Sets

- **SQL Database**
- Name: AzureSqlTable1 (keeping the same/ Also we can rename it)
- Linked service: “AzureSQLDatabase1” (select from dropdown)
- Table name: Select sample table
- Ok
- Data sets - New data Sets
- **Azure Data Lake Storage - CSV file format**
- Name: DelimitedText1 ((keeping the same/ Also we can rename it)
- Linked service: “AzureDataLakeStorage1” (select from dropdown)
- File path: “my-container”
- Ok

Step 11: In Azure data Factory - Author - Pipeline - new pipeline

- Copy data - Drag and Drop
- Source - “AzureSqlTable1” (select from drop down)
- Sink - “DelimitedText1” (select from drop down)
- Mapping - Import schema (Do necessary changes)
- Publish all
- Validate
- Debug

Step 12: Go to GitHub - Cross check in Dev branch that all the pipeline, linked services are reflecting or not.



Dev had recent pushes 1 minute ago

adf_publish had recent pushes 1 minute ago

This branch is 11 commits ahead of, 1 commit behind `main`.

rdjavaji Adding dataset: AzureSqlTable1 · 93420de · 1 minute ago

dataset	Adding dataset: AzureSqlTable1	1 minute ago
factory	Adding factory: dfactory-myrg	2 hours ago
linkedService	Adding linkedService: AzureDataLakeStorage1	36 minutes ago
pipeline	Adding dataset: AzureSqlTable1	1 minute ago
publish_config.json	Update publish_config.json	2 hours ago
readme.md	Initial commit.	2 hours ago

No description, website, or topics provided.

No releases published

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Initialized by Azure Data Factory!

Step 13: In Azure Portal

- Create new Resource group
- Resource group name: “my-rg2-pull”

Step 14: Create New Data factory

- Data Factory Name: “dfactorypull1”
- Once created - Launch studio
- Manage - Git configuration - Configure
- Repository type : “GitHub”
- GitHub repository owner: “rdjavaji”
- Repository name: “ADF-Key”
- Collaboration branch: create new : “QA”

Step 15: Go to GitHub:

- Go to Repository “ADF-Key” - Settings
- Branches - Add Branch protection rules
- Add rules - Check the boxes of
- 1. Require a pull request before merging
- 2. Require status checks to pass before merging
- Create
- Select - Pull Request
- New Pull request
- Base: QA
- Compare: Dev
- Cross check that the QA branch is created in GitHub.