layout: page
title: "Git repositories"
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last_updated: 2022-07-01
search_exclude: false

The SyncHub query adapters migrates the following resources between ADO organizations:

- Git repositories

    - All branches
    - All tags

Notes:

- Pull requests and pull request histories are migrated using another adapter (see PullRequest adapter).
- Repository settings, including branch protection rules, are not migrated
- Locked branches are not migrated

Permissions

- **required PAT scopes**:

    - Code (Read, write & manage)
    - Pull Request Threads (Read & write)

Export: Sample config

Command

```
.\synchub.exe run -n "Git-Export" -v "V1" --config C:\Temp\synchub-configs\config-git-export.json -u
alexander.hjelm@solidify.dev -p XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX --license-file
C:\path\to\license-file.json
```

Configuration

```json
{
  "configuration": {
    "Source":  "https://dev.azure.com/solidifydemo",
    "Target":  "C:\\Temp\\contosoAirMig\\Git",
    "Projects":  [
      {
        "Name":  "ContosoAir",
        "Repositories":  [
          {
            "Name":  "*"
          }
        ]
      }
    ],
    "UseCloudFileShare":  false,
    "IncludeGitLFSAssets": false,
    "AlreadyAuthenticatedInWindows": false,
    "UseCustomGitCredentials": false,
    "CustomGitUsername": "",
    "CustomGitPassword": "",
    "BareClone": false,
    "apiVersion": "6.0-preview.1"
  }
}
```

Feature flags

- **AlreadyAuthenticatedInWindows**: [true/false]

    - if `true`, no authentication will be used when running the **git** commands. Use this if git credentials are already stored in Windows Credential Manager.
    - if `false`, the default or custom git credentials will be used.

- **UseCustomGitCredentials**: [true/false]

    - if `true`, the **CustomGitUsername** and **CustomGitPassword** will be used as username and password by all **git** commands. You can set these to whatever you want.
    - if `false`, the ADO PAT will be used as authentication by all **git** commands.

- **IncludeGitLFSAssets**: [true/false] If set to true, a `git lfs fetch --all` will be run in addition to the usual clone and pull. All Git LFS assets will be pulled into the local repository.
- **BareClone**: [true/false] If set to true, a `git clone --bare` will be done for each repository instead of a regular `git clone`

Import: Sample config

Command

```
.\synchub.exe run -n "Git-Import" -v "V1" --config C:\Temp\synchub-configs\config-git-import.json -u
alexander.hjelm@solidify.dev -p XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX --license-file
C:\path\to\license-file.json
```

Configuration

```
{
  "target": "https://dev.azure.com/alexanderhjelmsolidify",
  "SourceFilePath": "C:\\Temp\\contosoAirMig\\Git\\ContosoAir",
  "TargetProject": "ContosoAir-Migrated",
  "AlreadyAuthenticatedInWindows": false,
  "UseCustomGitCredentials": false,
  "CustomGitUsername": "",
  "CustomGitPassword": "",
  "DisableCommitMentionLinkingDuringImport": false,
  "apiVersion": "6.0-preview.1"
}
```

Feature flags

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- **UseCustomGitCredentials**: [true/false]

    - if `true`, the **CustomGitUsername** and **CustomGitPassword** will be used as username and password by all **git** commands. You can set these to whatever you want.
    - if `false`, the ADO PAT will be used as authentication by all **git** commands.

- **DisableCommitMentionLinkingDuringImport**: [true/false]

    - if `true`, the **Commit mention linking** and **Commit mention work item resolution** options will be disabled for the incoming repositories during the duration of the import to prevent related errors. These settings will automatically be turned on again by the tool after the import.