layout: page
title: "Environments"
author: alexander-hjelm_solidify
last_updated: 2022-07-01
search_exclude: false

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

- Environments

  - CheckConfigurations (e.g. checks, approvals)
  - Pipeline permissions
  - User role assignments

Notes:

- The user identities must be supplied in a mapping file (see below).
- The migrator maps CheckConfigurations to the Environments with the same names as in the source organization. If you want to add a name prefix (e.g. when importing from multiple organizations), then you must implement support for this functionality yourself.

Prerequisites/dependencies

The following needs to be imported before the environments are imported:

- users
- teams
- build definitions

Permissions

- **required PAT scopes**: Environment (Read & manage)

Export: Sample config

Command

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

Configuration

```
{
    "configuration":
    {
        "source": "https://dev.azure.com/solidifydemo",
        "target": "C:\\Temp\\Environment",
        "ProjectName": "ContosoAir",
        "apiVersion": "6.0-preview.1"
    }
}
```

Import: Sample config

Command

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

Configuration

```
{
    "target": "https://dev.azure.com/alexanderhjelmsolidify",
    "SourceFilePath": "C:\\Temp\\Environment-testproject",
    "TargetProject": "testproject",
    "IdentityMapping": "C:\\Temp\\synchub-configs\\mappings\\identityMapping.csv",
    "TeamMapping": "C:\\Temp\\synchub-configs\\mappings\\team_map.csv",
    "BuildDefinitionMapping": "C:\\Temp\\synchub-configs\\mappings\\builddefinition_map.csv",
    "apiVersion": "6.0-preview.1"
}
```

Identity mapping, sample

```
fe4b13c9-bc14-4b7f-adb7-73ac67c35b04,c6a1535d-46db-67ad-83c4-4eab0e4a8cad
c97b3870-9d89-4228-acae-d1a1434bad76,81a94f71-0182-442d-9b11-7ecec15a7e42
440b2fba-3732-4bf8-b9a4-0bfb0688c834,b349762e-3f69-4616-855d-359a4b5ddf58
32f74c7b-1e81-4277-91f3-afe99701403b,9a2d3162-57ce-4265-ba00-20538ffbf716
```

JSON examples

Environment

```
{
  "id": 43,
  "name": "test",
  "description": "Automatically created environment",
  "createdBy": {
    "displayName": "Mathias Olausson",
    "url": "https://spsprodweu3.vssps.visualstudio.com/Ace06c4d0-b666-4e5c-a54f-
2aacbe3c370b/_apis/Identities/fe4b13c9-bc14-4b7f-adb7-73ac67c35b04",
    "_links": {
      "avatar": {
        "href":
"https://dev.azure.com/solidifydemo/_apis/GraphProfile/MemberAvatars/aad.ZDQzYTkxZGMtNzY5YS03ZTFkLWFkYWUtZ
GIyNmM2OGY1ZTJm"
      }
    },
    "id": "fe4b13c9-bc14-4b7f-adb7-73ac67c35b04",
    "uniqueName": "mathiaso@Solidify.se",
    "imageUrl":
"https://dev.azure.com/solidifydemo/_apis/GraphProfile/MemberAvatars/aad.ZDQzYTkxZGMtNzY5YS03ZTFkLWFkYWUtZ
GIyNmM2OGY1ZTJm",
    "descriptor": "aad.ZDQzYTkxZGMtNzY5YS03ZTFkLWFkYWUtZGIyNmM2OGY1ZTJm"
  },
  "createdOn": "2021-01-28T09:45:59.76Z",
  "lastModifiedBy": {
    "displayName": "Mathias Olausson",
    "url": "https://spsprodweu3.vssps.visualstudio.com/Ace06c4d0-b666-4e5c-a54f-
2aacbe3c370b/_apis/Identities/fe4b13c9-bc14-4b7f-adb7-73ac67c35b04",
    "_links": {
      "avatar": {
        "href":
"https://dev.azure.com/solidifydemo/_apis/GraphProfile/MemberAvatars/aad.ZDQzYTkxZGMtNzY5YS03ZTFkLWFkYWUtZ
GIyNmM2OGY1ZTJm"
      }
    },
    "id": "fe4b13c9-bc14-4b7f-adb7-73ac67c35b04",
    "uniqueName": "mathiaso@Solidify.se",
    "imageUrl":
"https://dev.azure.com/solidifydemo/_apis/GraphProfile/MemberAvatars/aad.ZDQzYTkxZGMtNzY5YS03ZTFkLWFkYWUtZ
GIyNmM2OGY1ZTJm",
    "descriptor": "aad.ZDQzYTkxZGMtNzY5YS03ZTFkLWFkYWUtZGIyNmM2OGY1ZTJm"
  },
  "lastModifiedOn": "2021-01-28T09:45:59.76Z",
  "project": {
    "id": "26010eaa-cc57-40e4-ae7b-f536b311a551",
    "name": null
  }
}
```

CheckConfiguration

```
{
  "count": 1,
  "value": [
    {
      "settings": {
        "approvers": [
          {
            "displayName": "Mathias Olausson",
            "id": "fe4b13c9-bc14-4b7f-adb7-73ac67c35b04",
            "uniqueName": "mathiaso@Solidify.se",
            "imageUrl":
"/solidifydemo/_apis/GraphProfile/MemberAvatars/aad.ZDQzYTkxZGMtNzY5YS03ZTFkLWFkYWUtZGIyNmM2OGY1ZTJm",
            "descriptor": "aad.ZDQzYTkxZGMtNzY5YS03ZTFkLWFkYWUtZGIyNmM2OGY1ZTJm"
          }
        ],
        "executionOrder": "anyOrder",
        "minRequiredApprovers": 0,
        "instructions": "",
        "blockedApprovers": []
      },
      "createdBy": {
        "displayName": "Mathias Olausson",
        "id": "fe4b13c9-bc14-4b7f-adb7-73ac67c35b04",
        "uniqueName": "mathiaso@Solidify.se",
        "descriptor": "aad.ZDQzYTkxZGMtNzY5YS03ZTFkLWFkYWUtZGIyNmM2OGY1ZTJm"
      },
      "createdOn": "2021-01-28T09:49:11.8394159Z",
      "modifiedBy": {
        "displayName": "Mathias Olausson",
        "id": "fe4b13c9-bc14-4b7f-adb7-73ac67c35b04",
        "uniqueName": "mathiaso@Solidify.se",
        "descriptor": "aad.ZDQzYTkxZGMtNzY5YS03ZTFkLWFkYWUtZGIyNmM2OGY1ZTJm"
      },
      "modifiedOn": "2021-01-28T09:49:11.8394159Z",
      "timeout": 43200,
      "_links": {
        "self": {
          "href": "https://dev.azure.com/solidifydemo/26010eaa-cc57-40e4-ae7b-
f536b311a551/_apis/pipelines/checks/configurations/12?%24expand=1"
        }
      },
      "id": 12,
      "type": {
        "id": "8c6f20a7-a545-4486-9777-f762fafe0d4d",
        "name": "Approval"
      },
      "url": "https://dev.azure.com/solidifydemo/26010eaa-cc57-40e4-ae7b-
f536b311a551/_apis/pipelines/checks/configurations/12?%24expand=1",
      "resource": {
        "type": "environment",
        "id": "43",
        "name": "test"
      }
    }
  ]
}
```