



# Federated Authentication in SwyxWare using Powershell

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## 1 Foreword

With the introduction of Federated authentication between SwyxWare and Microsoft Azure AD, the need arose to grant the service the necessary rights from the Azure Active Directory (AAD).

## 2 Prerequisites

### 2.1 Connect to your Azure Active Directory (AAD)

Please make sure you have a stable internet connection to your Azure Active Directory (AAD).

### 2.2 Access rights to your Azure Active Directory (AAD)

The account you use must have administrative rights to your Azure Active Directory (AAD).

### 2.3 PowerShell

Please update your PowerShell environment to version 5.1 or higher.

### 2.4 .NET Framework

Please update your .NET Framework to version 4.7.2 or higher.

### 2.5 PowerShell GET Modules

Please update your installed PowerShell GET module via the command:

`Install-Module PowerShellGet -Force`

NOTE: You may be prompted to install and import a NuGet provider. Please confirm this request with 'Yes'.

### 2.6 Customize PowerShell Script Execution Policy

Please adjust the policy for executing PowerShell scripts with the following command:

`Set-ExecutionPolicy -ExecutionPolicy RemoteSigned -Scope CurrentUser`

### 2.7 Installing the Microsoft.Graph PowerShell Module

Please install the Microsoft.Graph PowerShell module

(<https://learn.microsoft.com/graph/powershell/installation>) required for script execution with the following command:

`Install-Module Microsoft.Graph -Scope CurrentUser`

NOTE: You will receive a message that the module is from an untrusted repository. Follow the suggested action or confirm this request with 'Yes'.

### 3 Script execution

1. Open PowerShell and run the [RegisterAppForAppOnlyAuth.ps1](RegisterAppForAppOnlyAuth.ps1) file with the following command.

```
.\RegisterAppForAppOnlyAuth.ps1 -AppName "YourAppName" -GraphScopes "User.Read.All"
```

2. The script will configure app registration with all required elements:
  - a. Creates the App Registration.
  - b. Adds permission (User.Read.All)
  - c. Adds client secret.
  - d. Exposes scope "SwyxWare" for admin and users.
  - e. Adds desktop platform with redirect uri: auth://swyxware
3. Copy the Application ID, Domain ID, Client secret and the OpenID Connect Metadata Document values from the script output. You will need these values in the next step. Result
4. Configure SwyxWare
  - a. Configure Identity Provider in Swyx Control Center using values from the script result.
  - b. Every Time the Submit button is pressed.
    - i. SwyxWare is fetching all users infos
    - ii. SwyxWare is trying to assign ad account to SwyxWare accounts by matching email address. See CDS Traces and database table FederatedIdentity