

Sample Script: Create Teams for SDS Synchronised Groups

1 Summary

In March, SDS provisioning was changed to stop automatically creating Teams -

<https://docs.microsoft.com/en-us/schooldatasync/changes-to-class-teams-provisioning>.

This sample script enumerates Office 365 Groups that were created using School Data Sync and creates a class team – replicating the functionality of SDS. The script only actions classes that are marked as active.

This script uses the Graph API to create a team using the educationClass team template and an existing Office 365 group - <https://docs.microsoft.com/en-us/graph/api/team-post?view=graph-rest-beta>. The educationClass template can only be applied to Office 365 groups created with School Data Sync.

1.1 Script Location

Get the current version of the script from

<https://github.com/scottbreenmsft/scripts/tree/master/SDS/CreateTeamsFromSDSGroups>.

1.2 Script Dependencies

The script requires the Azure AD PowerShell module so that it can use the Active Directory Authentication Library to authenticate to the Graph API.

You can install the Azure AD module from an elevated command prompt and the following command:

`Install-Module AzureAD`

1.3 Version History

Version	Date	Description
1	6 th February 2020	Initial Version

2 Running the script

The script requires an Azure AD application to be created so it can connect to the Graph API. After the application has been created, you can update and run the script.

2.1 Create Azure AD App

1. Log into <https://portal.azure.com>
2. Navigate to Azure Active Directory → App Registrations,
3. Click “+ New registration”
 - a. Give the application a name – for example “SDS Team Creation Script”
 - b. Select the option for **Single Tenant**
 - c. Set the redirect to **public/client** and the value to **urn:ietf:wg:oauth:2.0:oob**
 - d. Click **Register**

Microsoft Azure Search resources, services, and docs (G+)

Home > test_test_Breenlab Academy | App registrations > Register an application

Register an application

Name
The user-facing display name for this application (this can be changed later).
SDS Team Creation Script ✓

Supported account types
Who can use this application or access this API?
☒ Accounts in this organizational directory only (test_test_Breenlab Academy only - Single tenant)
☐ Accounts in any organizational directory (Any Azure AD directory - Multitenant)
☐ Accounts in any organizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)
[Help me choose...](#)

Redirect URI (optional)
We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be changed later, but a value is required for most authentication scenarios.
 Public client/native (mobile ... urn:ietf:wg:oauth:2.0:oob ✓

By proceeding, you agree to the [Microsoft Platform Policies](#)

[Register](#)

4. After registration, the app details will be displayed

Microsoft Azure Search resources, services, and docs (G+)

Home > test_test_Breenlab Academy | App registrations > SDS Team Creation Script

SDS Team Creation Script

Search (Ctrl+/) Delete Endpoints

Overview

Got a second? We would love your feedback on Microsoft identity platform (previously Azure AD for developer). →

Display name SDS Team Creation Script Application (client) ID d84f9025-2432-4c72-8a40-84ef30fdee2c Directory (tenant) ID e29bfade-9dcd-4121-80c2-db9a7bb870a9 Object ID fe0871cd-eb64-4004-bf1b-6f775393728a	Supported account types My organization only Redirect URIs 0 web, 1 public client Application ID URI Add an Application ID URI Managed application in local directory SDS Team Creation Script
---	---

Welcome to the new and improved App registrations. Looking to learn how it's changed from App registrations (Legacy)? [Learn more](#)

Call APIs

Build more powerful apps with rich user and business data from Microsoft services and your own company's data sources.

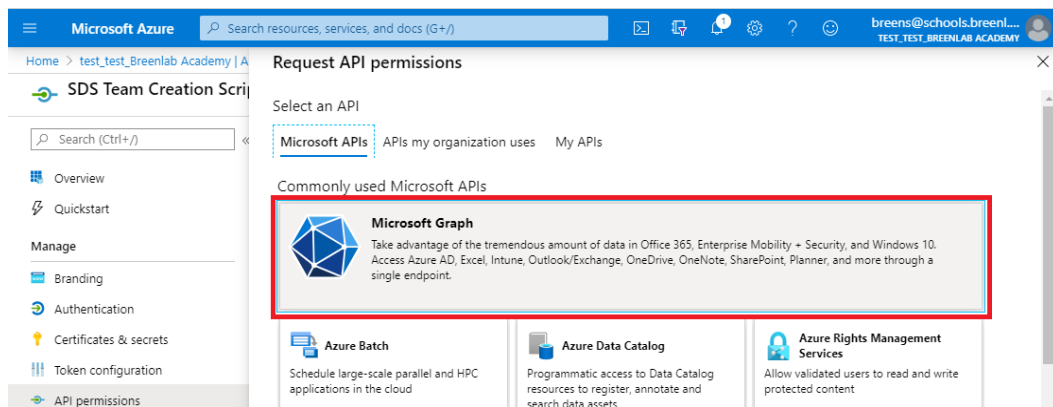
[View API permissions](#)

Documentation

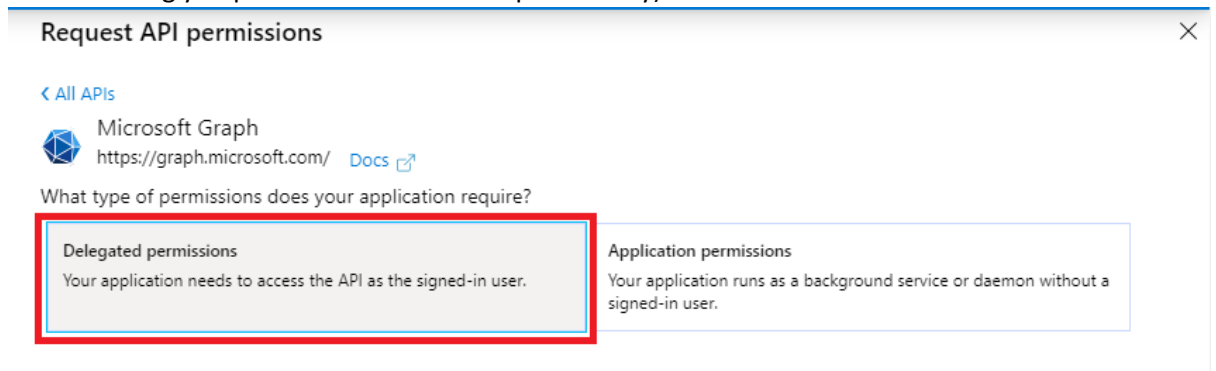
- Microsoft identity platform
- Authentication scenarios
- Authentication libraries
- Code samples
- Microsoft Graph
- Glossary
- Help and Support

5. Click on **API Permissions**, then click **Add a permission**

6. Click on Microsoft Graph




7. Choose Delegated Permissions (or Application permissions if you want to change the script to run with the credentials of the application rather than a signed in user – usually required for something you plan to schedule to run periodically)



8. Search for Group, tick **Group.ReadWrite.All**, click **Add permissions**

Request API permissions

< All APIs

 Microsoft Graph
<https://graph.microsoft.com/> [Docs](#)

What type of permissions does your application require?

Delegated permissions
Your application needs to access the API as the signed-in user.

Application permissions
Your application runs as a background service or daemon without a signed-in user.

Select permissions expand all

Permission	Admin consent required
<input checked="" type="checkbox"/> Group (1)	
<input type="checkbox"/> Group.Read.All Read all groups ⓘ	Yes
<input checked="" type="checkbox"/> Group.ReadWrite.All Read and write all groups ⓘ	Yes
> GroupMember	
> PrivilegedAccess	







Add permissions

Discard

9. Once created, the list of configured permissions will be listed. Click on **Grant admin consent**, then click **Yes**

Microsoft Azure

Search resources, services, and docs (G+)

breens@schools.breenlab...
TEST_TEST_BREENLAB ACADEMY

Home > test_test_Breenlab Academy | App registrations > SDS Team Creation Script | API permissions

SDS Team Creation Script | API permissions

Search (Ctrl+/) << Refresh

Overview

Quickstart

Manage

Branding

Authentication

Certificates & secrets

Token configuration

API permissions

Expose an API

Owners

You are editing permission(s) to your application, users will have to consent even if they've already done so previously.

Configured permissions

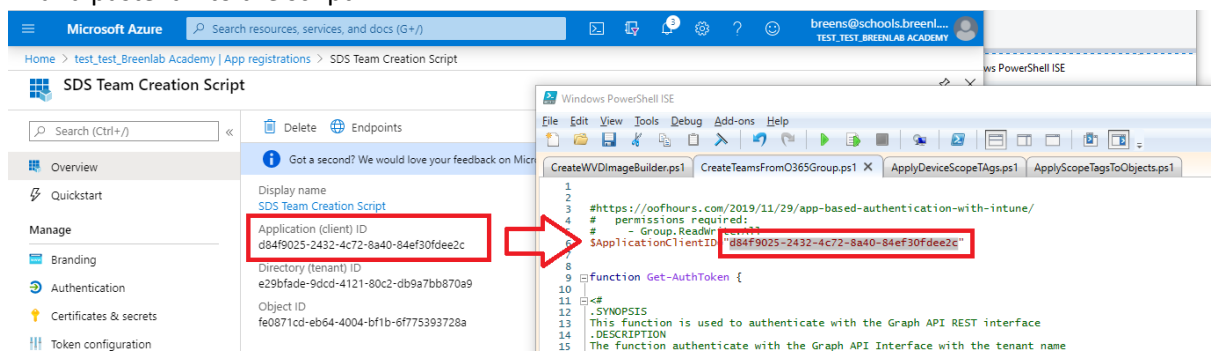
Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. The list of configured permissions should include all the permissions the application needs. [Learn more about permissions and consent](#)

+ Add a permission

Grant admin consent for test_test_Breenlab Academy

API / Permissions n...	Type	Description	Admin consent req...	Status
Microsoft Graph (2)				
Group.ReadWrite.A...	Delegated	Read and write all groups	Yes	⚠ Not granted for test_tes...
User.Read	Delegated	Sign in and read user profile	-	

10. Click on the **Overview** link to view the application overview and copy the Application Client ID and paste it into the script.



2.2 Running the script

1. Run the script
2. Enter the UPN for an account with appropriate permissions to Azure AD to manage Office 365 Groups

```
Please specify your user principal name for Azure Authentication: breens@schools.breenl.com
Checking for AzureAD module...
```

3. The script will open a Modern Authentication Prompt where you can enter the password / accept multi factor prompts
4. After authentication the script will connect to Azure AD and get a list of SDS created classes that are active.
5. Once retrieved, it will filter the list to Groups without an associated team and attempt to create Teams.

```
4 classes
4 classes without teams
successfully created team for 37426a86-f9bf-4761-a457-e32909ffea47
successfully created team for 55d76432-8e1f-4994-a39b-adae25c40242
successfully created team for a8936195-bf23-437b-be1b-d12bcb08f59b
successfully created team for 89cd001a-241e-4e6d-9968-a4e86b8e7732
It took an average of 12 seconds to create each Team
```