SharePoint App OAuth

+++ Authorization\_code (grant\_type=authorization\_code)

https://spshell.blogspot.com/2015/03/sharepoint-online-o365-oauth.html

1. Get authorization code by navigate to below url from the browser, login to the site if not logged in already.

https://nih.sharepoint.com/sites/CIT-NBTestingMSTeams3232020/\_layouts/15/OAuthAuthorize.aspx?

client\_id=b1648f5c-48f3-4b60-9e40-3a045e3f3a5f

&scope=Site.Write

&response\_type=code

&redirect\_uri=https://localhost

=== Scope: List.Write Site.Read

- Opens a consent page prompts the user to grant (or deny) the app the permissions that the app requests.

- Once you grant the permission (by clicking trust), SharePoint Online site asks ACS to create a short-lived (approximately 5 minutes) authorization code unique to this combination of user and app. ACS sends the authorization code to the SharePoint site.

- SharePoint Online site redirects the browser back to the redirect URI that was specified when the app was registered. It also includes the authorization code as a query string. The redirect URL is structured like the following:

https://redirect\_url/?code=<authcode>

2. Get the access token and refresh token using authorization code <authcode> from step 1.

Construct the below post request:

https://accounts.accesscontrol.windows.net/<site\_realm>/tokens/OAuth/2

Post parameters:

grant\_type=authorization\_code

&client\_id=<client\_id>@<site\_realm>

&client\_secret=<client\_secret>

&code=<auth\_code>

&redirect\_uri=<redirect\_url>

&resource=< audience principal ID>/<site\_host>@<site\_realm>

Validity:

Auth. Code: about 5 minutes.

Access token: 12 hours.

Refresh token: 6 months.

The following is an example of the POST request

Using postman tool to get Access token

In body:

Method: POST

URL: https://accounts.accesscontrol.windows.net/14b77578-9773-42d5-8507-251ca2dc2b06/tokens/OAuth/2

grant\_type=authorization\_code

&client\_id=b1648f5c-48f3-4b60-9e40-3a045e3f3a5f@14b77578-9773-42d5-8507-251ca2dc2b06 (realm)

&client\_secret=NPJ3khqbZTsVn7rmRvROzwAnsLnsI4YBkKm8M04B7tE=

&code=PAQABAAEAAAD--DLA3VO7QrddgJg7WevrvI48xTIKncAl8rITjx-jLPTBcNVV3CuNsv0uMtm98-TPQtk86b7epPY1F43yxLR0\_yzR7raYxCvyirJMHKug4t8d2VnK4RiQDUoQHbtzpEopWAnkpmW7vNkG1wRKEQMlCrZotdIHWOBVn2LJ\_xpBCWUkSugg5LPww3aoYpJfeoEUQ8v5ciVmpgeBNE88WefO2Qm5g9rGRY5pM1N4hqK\_xkx2Hb41iG8cha\_U2ABhAHczushIGJFzVaRcqkRZV3-i51g\_9wvRrjJ4YONNBmPIUh-khnEP6K5\_vp\_9\_mP0M7pk-5LG\_Z2pMIwLkkC1QAYQIAA

&redirect\_uri=https%3A%2F%2Flocalhost%2F

&resource=00000003-0000-0ff1-ce00-000000000000/nih.sharepoint.com@14b77578-9773-42d5-8507-251ca2dc2b06

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+++ App-Only (grant\_type = client\_credentials)

1. Get Access Token with App-only permission for Sharepoint App - SharePoint REST API

Method: POST

URL: https://accounts.accesscontrol.windows.net/14b77578-9773-42d5-8507-251ca2dc2b06/tokens/OAuth/2 (https://accounts.accesscontrol.windows.net/{tenantID}/tokens/OAuth/2)

Body:

grant\_type = client\_credentials

client\_id= 0beb30bc-af43-4afb-8f05-ac21e239db8a@14b77578-9773-42d5-8507-251ca2dc2b06 (ClientID@TenantID)

client\_secret = 6tkHSIDX02rrEIq5fkyR0U5OX5oxztJN1rNs1fcgGD8= {client\_secret}

resource= 00000003-0000-0ff1-ce00-000000000000/nih.sharepoint.com@14b77578-9773-42d5-8507-251ca2dc2b06 (resource/SiteDomain@TenantID)

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https://techcommunity.microsoft.com/t5/microsoft-sharepoint-blog/use-postman-and-aad-app-to-get-data-from-sharepoint-online-using/ba-p/510051

https://docs.microsoft.com/en-us/answers/questions/353564/authorization-and-token-end-points-for-sharepoint.html

AAD (OAuth v2.0) (Azure App through Azure registration)

+++ Authorization\_code (grant\_type=authorization\_code)

https://login.microsoftonline.com/14b77578-9773-42d5-8507-251ca2dc2b06/oauth2/v2.0/authorize?

client\_id=a5286a3e-fa82-405b-a4ad-c2328947b068

&response\_type=code

&redirect\_uri=https://localhost

&response\_mode=query

&scope=https://graph.microsoft.com/Sites.Read.All

Authorization code (grant\_type=authorization\_code)

Auth URL:

https://login.microsoftonline.com/common/oauth2/authorize?resource=https://nih.sharepoint.com

Get access token

Access Token URL:

https://login.microsoftonline.com/common/oauth2/token

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https://login.microsoftonline.com/14b77578-9773-42d5-8507-251ca2dc2b06/oauth2/v2.0/authorize

https://login.microsoftonline.com/14b77578-9773-42d5-8507-251ca2dc2b06/oauth2/v2.0/token

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https://login.windows.net/common/oauth2/authorize?resource=https%3A%2F%2Fgraph.microsoft.com

https://login.windows.net/common/oauth2/authorize?resource=https%3A%2F%2Fnih.sharepoint.com

https://login.microsoftonline.com/common/oauth2/token

https://www.postman.com/power-bi/workspace/power-bi-rest-api-s-public-workspace/overview

https://techcommunity.microsoft.com/t5/microsoft-sharepoint-blog/use-postman-and-aad-app-to-get-data-from-sharepoint-online-using/ba-p/510051

https://support.microsoft.com/en-us/topic/verifying-oauth-configuration-for-custom-connectors-ceadbd1d-5a44-5615-208b-029f7ffe6107

https://newbedev.com/sharepoint-online-rest-api-authentication-in-postman

<https://spshell.blogspot.com/2015/03/sharepoint-online-o365-oauth.html>

Access token for GRAPH API

Auth URL(endpoint for authorization server - this is used to get authorization code):

https://login.microsoftonline.com/14b77578-9773-42d5-8507-251ca2dc2b06/oauth2/v2.0/authorize

Access Token URL(endpoint for authentication server - this is used to exchange authorization code for an access token): https://login.microsoftonline.com/14b77578-9773-42d5-8507-251ca2dc2b06/oauth2/v2.0/token

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Access token for SharePoint REST API:

Auth URL: https://login.microsoftonline.com/common/oauth2/authorize?resource=https://nih.sharepoint.com

Access Token URL: https://login.microsoftonline.com/common/oauth2/token

https://login.microsoftonline.com/common/oauth2/authorize?resource=https://nih.sharepoint.com&client\_id=b650ccd7-bee2-4297-a231-61d33d0feeda

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https://login.microsoftonline.com/common/oauth2/authorize?client\_id=b650ccd7-bee2-4297-a231-61d33d0feeda&response\_type=code&redirect\_uri=https://localhost&response\_mode=query&scope=Calendars.ReadWrite offline\_access Calendars.ReadWrite.Shared User.ReadBasic.All&state=12345

client\_id, response\_type, redirect\_uri, response\_mode, client\_secret, scope and state

https://login.microsoftonline.com/common/oauth2/v2.0/authorize?client\_id=6731de76-14a6-49ae-97bc-6eba6914391e&response\_type=code&redirect\_uri=http%3A%2F%2Flocalhost%2Fmyapp%2F&response\_mode=query&scope=openid%20offline\_access%20https%3A%2F%2Fgraph.microsoft.com%2Fmail.read&state=12345

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