%Lepide

CONFIGURATION GUIDE

THE PRINCIPLE OF LEAST PRIVILEGE FOR SHAREPOINT ONLINE

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1. Introduction

The purpose of this document is to detail the minimum rights and privileges required for configuring SharePoint Online for auditing and the steps which are needed to complete the configuration for a successful setup.

2. Least Privilege Model for SharePoint Online

All the reports and functionalities available for SharePoint Online auditing with the Least Privilege model are the same as with the Full Privilege model.

3. Prerequisites

- To add SharePoint Online to the Lepide Data Security Platform for Auditing, an app must be registered on the Microsoft 365 portal.
- Login to the Office 365 Tenant needs to be done by a User with a Global Administrator account. This is because if the user does not have global admin rights then they will not be able to grant admin consent permissions to the Tenant.
- Without Global Admin rights, the Grant permission option in Microsoft will grayed out.

3.1. Steps to Register an App and Generate the Client ID and Secret Key for SharePoint Online Auditing

- 1. Log onto the Microsoft 365 Admin Center
- 2. Select Azure Active Directory from the Admin Center
- 3. Click on **App Registration** and follow the steps below to generate Client ID and Secret Key:
 - Select **New Registration** and provide a valid name for the registration.
 - Click on **Register Account** and the Client ID will be displayed which the user can copy for future use
 - For the given Client Id generated in the Azure Account Dashboard, click on Certificates and Secrets.
 - Click on Add New Client Secret and a Secret Value will be generated which the user can copy for future use.

NOTE: Copy the Client ID and Secret value for adding a SharePoint Online component.

4. Click on the API permission tab for the given Client ID and select Add a Permission

5. Microsoft 365 Graph API's, Office 365 Management API's and select permission type(s) as detailed below:

Microsoft Graph API's					
Name	Туре				
Sites.Read.All	Delegated				
Office 365 Management API's					
ActivityFeed.Rea	Delegated				
ActivityFeed.Rea	Application				
ActivityFeed.ReadDlp		Delegated			
ActivityFeed.Rea	Application				

NOTE: Every permission change required must be granted admin consent

6. Now add the components with Client ID and Secret Key

3.2. Steps to Generate the Client ID and Secret Key for SharePoint Online Data Discovery & Classification

Modern Authentication for SharePoint Online

- 1. Log into the Office 365 account through SharePoint Administrator / Global Administrator
- 2. Go to https://<Tenant>-admin.sharepoint.com/_layouts/15/appregnew.aspx
- 3. Click the two Generate buttons to generate a Client ID and a Secret Key and set the following options:

-	Title:	Enter a
	name for the app	Litter a
-	Арр	Domain: www.local
	host.com	
-	Redirect	URL: https://w
	ww.localhost.com/	



- **NOTE:** Save the retrieved Client ID and Secret Key. They are the credentials, you are using and allow read or update actions to be performed on your SharePoint Online for Data Discovery and Classification.
- 4. Go to https://<Tenant>-admin.sharepoint.com/_layouts/15/appinv.aspx
- 5. Enter the generated **Client ID** in the **App Id** field and click **Lookup**
- 6. In the App's Permission Request XML field, enter the code below to grant appropriate access:

<AppPermissionRequests AllowAppOnlyPolicy="true">

<AppPermissionRequest Scope="http://sharepoint/content/tenant" Right="FullControl" /> </AppPermissionRequests>

- 7. You will now be prompted to trust the add-in for all the permissions that it requires
- 8. Click Trust It to grant the requested access

Please run the command below at SharePoint Online Management Shell:

function Enable-SPDisableCustomAppAuthentication {

Write-Host "Please specify sharepoint organisation name." -ForegroundColor Green

Write-Host "For example if your sharepoint site is https://contoso.sharepoint.com value should be contoso: " -ForegroundColor Green -NoNewline

\$orgName = Read-Host

\$orgName = \$contosh

Write-Verbose "Connecting to: https://contoso-admin.sharepoint.com" -Verbose

Connect-SPOService -Url "https://contosh-admin.sharepoint.com"

Set-SPOTenant -DisableCustomAppAuthentication \$false

}

Enable-SPDisableCustomAppAuthentication

Please run the command below:

Set-SPOTenant -DisableCustomAppAuthentication \$false

Now, Create a profile in Data Discovery & Classification and Classify it



3.3. Steps to Generate the Client ID and Secret Key for SharePoint Online Current Permissions Analysis

Modern Authentication for OneDrive for Business

- 1. Log into the office 365 account through **SharePoint Administrator / Global Administrator**.
- 2. Go to https://<Tenant>-admin.sharepoint.com/_layouts/15/appregnew.aspx
- 3. Click the two **Generate** buttons to generate a **Client ID** and a **Secret Key**
- 4. Specify the following options:
 - Title:
 Enter a name for the app
 App
 host.com
 Redirect
 WRL: https://w

NOTE: Save the retrieved Client ID and Secret Key. They are the credentials, you are using and allow read or update actions to be performed on your SharePoint Online for Current Permission Analysis.

5. Go to https://<Tenant>-admin.sharepoint.com/_layouts/15/appinv.aspx

- 6. Enter the generated **Client ID** in the **App Id** field and click **Lookup**
- 7. In the App's Permission Request XML field, enter the code below to grant appropriate access:

<AppPermissionRequests AllowAppOnlyPolicy="true">

<AppPermissionRequest Scope="http://sharepoint/content/tenant" Right="FullControl" /> </AppPermissionRequests>

- 9. You will now be prompted to trust the add-in for all the permissions that it requires
- 10. Click **Trust It** to grant the requested access

Please run the command below at SharePoint Online Management Shell:

function Enable-SPDisableCustomAppAuthentication {

Write-Host "Please specify sharepoint organisation name." -ForegroundColor Green

Write-Host "For example if your sharepoint site is https://contoso.sharepoint.com value should be contoso: " -ForegroundColor Green -NoNewline

\$orgName = Read-Host

\$orgName = \$contosh

Write-Verbose "Connecting to: https://contoso-admin.sharepoint.com" -Verbose

Connect-SPOService -Url "https://contosh-admin.sharepoint.com"

Set-SPOTenant

Now, Create a dataset in Current permission scan settings and Scan it



4. Permissions

The permissions required for the different functionality of SharePoint Online are as follows:

4.1. Auditing Permissions

The permissions required are as follows:

Microsoft Graph API's

Name	Туре	Detail		
Sites.Read.All	Delegated	Read items in all site collections		
Office 365 Management API's				
ActivityFeed.Read	Delegated	Read activity data for your organization		
ActivityFeed.Read	Application	Read activity data for your organization		
ActivityFeed.ReadDlp	Delegated	Read DLP policy events including detected sensitive data		
ActivityFeed.ReadDlp	Application	Read DLP policy events including detected sensitive data		

4.2. Data Discovery and Classification Permissions

The permissions given to the Client ID are as follows:

Scope:	http://sharepoint/content/tenant	Full
Control		

Full control is required here as **Read permission** is required to read the file and content, **Write permission** is required to be able to add the tags and the **Manage permission** is required to be able to manage both the added and existing tags on the file. By using the Full Control permission, all this options are available.

4.3. Current Permissions Analysis Permissions

The permissions given to the Client ID are as follows:

Scope:	http://sharepoint/content/tenant_	Full
Control		

The scope need full control because we need to get all the permission levels not just the permission for a specific object. So to get all the permission levels we need to have full control access of the content/tenant scope.



5. Support

If you are facing any issues whilst installing, configuring or using the solution, you can connect with our team using the below contact information.

Product Experts

USA/Canada: +1(0)-800-814-0578 UK/Europe: +44 (0) -208-099-5403 Rest of the World: +91 (0) -991-004-9028

Technical Gurus

USA/Canada: +1(0)-800-814-0578 UK/Europe: +44 (0) -208-099-5403 Rest of the World: +91(0)-991-085-4291

Alternatively, visit <u>https://www.lepide.com/contactus.html</u> to chat live with our team. You can also email your queries to the following addresses:

sales@lepide.com

support@lepide.com

To read more about the solution, visit https://www.lepide.com/data-security-platform/.

6. Trademarks

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