Configure Secure Access with Office 365 for Enhanced Data Loss Prevention

Contents

ntroduction	
rerequisites	
Requirements	
Components Used	
<u>Configure</u>	
Configuration on Azure	
Configuration in Secure Access	
/erify	
Related Information	

Introduction

This document describes the integration of Data Loss Prevention for Office 365 with Secure Access.

Prerequisites

- Office 365 E3 Subscription is present for your Microsoft tenant
- Compliance auditing is configured as ON in the compliance portal before you start your integration

Requirements

Cisco recommends that you have knowledge of these topics:

- Cisco Secure Access
- Microsoft Azure Enterprise Applications and App Registrations

Components Used

The information in this document is based on these software and hardware versions:

- Cisco Secure Access
- Microsoft Azure
- Microsoft 365 Compliance portal

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Configure

Configuration on Azure

To enable the application on Azure, configure according to the next steps:

1. Navigate to the Azure Portal > Enterprise Applications > New Application.

	∠ Search resources, services, and docs (G+/)
Home > Enterprise applications	
Enterprise application	ons All applications
Overview	🕂 New application 🕐 Refresh 🞍 Download (Export) 📔 Preview info 📔 📰 Columns 🛛 🖼 Preview features 🛛 🞘 Got feedback?
0 Overview	View, filter, and search applications in your organization that are set up to use your Microsoft Entra tenant as their Identity Provider.
X Diagnose and solve problems	The list of applications that are maintained by your organization are in application registrations.
Manage	P Search by application name or object ID Application type == Enterprise Applications X Application ID starts with X Try Add filters
All applications	0 applications found

2. Click on Create your own Application.



3. Give a name you desire to identify the app and choose. Integrate any other application you don't find in the gallery (Non-Gallery).

Create your own application



If you are developing your own application, using Application Proxy, or want to integrate an application that is not in the gallery, you can create your own application here.

What's the name of your app?

DLP Test Application

What are you looking to do with your application?

- Configure Application Proxy for secure remote access to an on-premises application
- Register an application to integrate with Microsoft Entra ID (App you're developing)
- Integrate any other application you don't find in the gallery (Non-gallery)
- 4. Once done, use the Azure Search Bar to look for App Registrations.

App Registrations				×
All Services (37) Resources Microsoft Entra ID (0)	Resource Groups	Documentation (99+)	Marketplace (0)	
Services		App proxy		See all
App Services		🎸 Function App		
Event Grid Partner Registrations		Application gateways		
🤝 App Configuration		Application groups		

5. Click on All Applications and choose the application created in step Three.

×

Home >
App registrations 🖉 ···
🕂 New registration 🌐 Endpoints 🤌 Troubleshooting 💍 Refresh 🞍 Download 🗔 Preview features 🛛 🞘 Got feedback?
Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication Library (ADAL) and Azure Active Directory Graph. Library (MSAL) and Microsoft Graph. Learn more
All applications Owned applications Deleted applications
\sim Start typing a display name or application (client) ID to filter these r
1 applications found
Display name 1
DT DLP Test Application

6. Choose API Permissions.

Home > App registrations >	1 <i>2</i>		
Search «	Pelete Endpoints Freview features		
Overview	Got a second? We would love your feedback on Microsoft identity platform (previously Azure AD for developer). →		
🖴 Quickstart 💉			
Manage Branding & properties	Display name : <u>DLP Test Application</u> Application (client) ID :	Client credentials Redirect URIs	: Add a certificate or secret : Add a Redirect URI
Authentication Certificates & secrets	Object ID : Directory (tenant) ID :	Application ID URI Managed application in I	: Add an Application ID URI : DLP Test Application
Token configuration	Supported account types : My organization only Station lung 20th 2020 we will no longer add any new features to Asive Action Directory Authoriticstica Library (ADAL) and Asive Action Directory Authoriticstica Library (ADAL) and Asive Action Directory Action Di	actory Graph We will continue t	to provide technical support and certains undated
 API permissions Expose an API 	 starting June son, cub we will no indiger and any new restures to Aquie Active Directory Autoenceation Lorary (NUAL) and Active Active University will need to be upgraded to Microsoft Authentication Library (MSAL) and Microsoft Graph. Learn more 	ectory Graph, we will continue t	to provide technical support and security updates
App roles Owners	Get Started Documentation		

7. Click on Add a permission and choose the required permissions based on the <u>Table</u>.



Note: For that, you must configure the API of Microsoft Graph, Office 365 Management APIs, and SharePoint.

Manage	Configured permissions	
Branding & properties	Applications are authorized to call APIs when they are granted permissions by users, all the permissions the application needs. Learn more about permissions and conser	/admins as part of the consent process. The list of configured permissions should include
Authentication		
Certificates & secrets	+ Add a permission	
Token configuration	API / Permissions name Type Description	Admin consent requ Status
API permissions	No permissions added	
Expose an API		

API/ Permissions Name	Туре	Description	Admin Consent Required
Microsoft Graph			
Directory.AccessAsUser.All	Delegated	Access directory as the signed- in user	Yes
Directory.Read.All	Application	Read directory data	Yes
Files.Read.All	Delegated	Read all files that user can access	No
Files.Read.All	Application	Read files in all site collections	Yes
Sites.Read.All	Delegated	Read items in all site collections	No
User.Read	Delegated	Sign in and read user profile	No
User.Read.All	Application	Read all users' full profiles	Yes
Microsoft 365 Management APIs			
ActivityFeed.Read	Application	Read activity data for the Organization	Yes
SharePoint			
Site.FullControl.All	Application	Full control of all site collections	Yes
User.Read.All	Application	Read user profiles	Yes



Note: Instead of Site.FullControl.All permission choose Sites.FullControl.All.

• For that, you need to choose the permission based on the application and type:

Request API permissions



intps//managetomee.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.

8. Once all the required permissions are added, click on Grant Admin Consent for the tenant.

X

Home > App registrations > DLP - Test Application

	🜔 Refresh 🕴 🔗 Got feedback	?				
Uverview	A You are editing permission(s) to	your application	n, users will have to consent even if they've already done so previo	usly.		
📣 Quickstart						
💉 Integration assistant	Configured permissions					
Manage	Applications are authorized to call A	Pis when they a	are granted permissions by users/admins as part of the conser	nt process. The list of conf	igured permissions should inc	lude
Branding & properties	all the permissions the application n	eeds. Learn mo	re about permissions and consent			
Authentication	+ Add a permission 🗸 Grant	admin consent	for the second			
Certificates & secrets	API / Permissions name	Туре	Description	Admin consent requ	Status	
Token configuration	Microsoft Graph (7)					
API permissions	Directory AccessAsUser All	Delegated	Access directory as the signed in user	Yes	Not granted for experimental	
Expose an API	Directory.Read.All	Application	Read directory data	Yes	Not granted for	
App roles	Files.Read.All	Delegated	Read all files that user can access	No		
A Owners	Files.Read.All	Application	Read files in all site collections	Yes	Not granted for experimental	
Roles and administrators	Sites.Read.All	Delegated	Read items in all site collections	No		
10 Manifest	User.Read	Delegated	Sign in and read user profile	No		
Support + Troubleshooting	User.Read.All	Application	Read all users' full profiles	Yes	Not granted for	
P Troubleshooting	♥ Office 365 Management APIs (1)					
New support request	ActivityFeed.Read	Application	Read activity data for your organization	Yes	A Not granted for	
and some set in the set of the set	SharePoint (2)					
	Sites.FullControl.All	Application	Have full control of all site collections	Yes	A Not granted for	
	User.Read.All	Application	Read user profiles	Yes	Not granted for second seco	

Grant admin consent confirmation.

Do you want to grant consent for the requested permissions for all accounts in ssptorg? This will update any existing admin consent records this application already has to match what is listed below.



• Once you grant the permissions, the status is visible as Granted

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

API / Permissions name	Туре	Description	Admin consent requ	Status	
✓ Microsoft Graph (7)					
Directory.AccessAsUser.All	Delegated	Access directory as the signed in user	Yes	Granted for	
Directory.Read.All	Application	Read directory data	Yes	Granted for main and the second secon	
Files.Read.All	Delegated	Read all files that user can access	No	Granted for	
Files.Read.All	Application	Read files in all site collections	Yes	Granted for	
Sites.Read.All	Delegated	Read items in all site collections	No	Granted for	
User.Read	Delegated	Sign in and read user profile	No	Granted for	
User.Read.All	Application	Read all users' full profiles	Yes	Granted for	
✓ Office 365 Management APIs (1)					
ActivityFeed.Read	Application	Read activity data for your organization	Yes	Granted for	
SharePoint (2)					
Sites.FullControl.All	Application	Have full control of all site collections	Yes	Granted for	•••
User.Read.All	Application	Read user profiles	Yes	Granted for	•••

+ Add a permission 🗸 Grant admin consent for

Now that the configuration on Azure is completed, you can continue the configuration on Secure Access.

Configuration in Secure Access

To enable the integration, configure according the next steps:

- 1. Navigate to Admin > Authentication.
- 2. Under Platforms, clickMicrosoft 365.
- 3. Click Authorize New Tenant in the DLP subsection and add Microsoft 365.
- 4. In the Microsoft 365 Authorization dialog, check the checkboxes to verify you meet the prerequisites, then click Next.
- 5. Provide a name for your tenant, then click Next.
- 6. Click Next to be redirected to the Microsoft 365 login page.
- 7. Log in to Microsoft 365 with admin credentials to grant access. Then, when you get redirected to Secure Access, you must have a message that indicates your integration was successful.
- 8. Click Done to complete.

Verify

DLP

To verify if the integration was successful, navigate to your Secure Access Dashboard:

• Click on Admin > Authentication > Microsoft 365

And if everything is correctly configured, your status must be Authorized.

Name	Status	Action
	Authorized	REVOKE

Related Information

- Enable SaaS API Data Loss Protection for Microsoft 365 Tenants
- Turning auditing ON or OFF in Microsoft