Lepide

CONFIGURATION GUIDE

THE PRINCIPLE OF LEAST PRIVILEGE FOR THE LEPIDE O365 COMPONENT

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1. Introduction

The purpose of this document is to detail the minimum rights and privileges required for configuring the Lepide O365 Component for auditing and the steps which are needed to complete the configuration for a successful setup.

2. Least Privilege Model for O365

The O365 Component in the Lepide Data Security Platform covers the following four components of M365:

- OneDrive
- Azure Active Directory
- Teams
- Skype for Business

All the reports and functionalities available for O365 auditing with the Least Privilege model are the same as with the Full Privilege model.

3. Prerequisites

- To add OneDrive, Azure, Teams or Skype for Business components 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.

4. OneDrive

4.1. Steps to Register an App and Generate the Client ID and Secret Key for OneDrive 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 an Office 365 component for OneDrive

4. Click on the API permission tab for the given Client ID and select **Add a Permission**
5. Select **Microsoft API's** and **API's my organization uses** as follows:

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

   Microsoft Graph API's

AuditLog.Read.All	Delegated
AuditLog.Read.All	Application

   Office 365 Management API's

ActivityFeed.Read	Application
ActivityFeed.ReadDlp	Application

> **NOTE**: Every permission change required must be granted admin consent

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

4.2. Steps to Generate the Client ID and Secret Key for OneDrive Data Discovery & Classification

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** and set the following options:
   - Title: Enter a name for the app
   - App Domain: www.localhost.com
   - Redirect URL: https://www.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 OneDrive for Business environment.

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" />
<AppPermissionRequest Scope="http://sharepoint/social/tenant" Right="Read" />
</AppPermissionRequests>
```

7. Click **Create**
8. You will now be prompted to trust the add-in for all the permissions that it requires
9. Click **Trust It** to grant the requested access
10. Now, Create a profile in Data Discovery & Classification and Classify it

4.3. Steps to Generate the Client ID and Secret Key for OneDrive 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 Domain: www.localhost.com
   - Redirect URL: https://www.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 OneDrive for Business environment.

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 below code to grant appropriate access:

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<AppPermissionRequests AllowAppOnlyPolicy="true">
<AppPermissionRequest Scope="http://sharepoint/content/tenant" Right="FullControl" />
<AppPermissionRequest Scope="http://sharepoint/social/tenant" Right="Read" />
</AppPermissionRequests>
```

8. Click **Create**
9. You will be prompted to trust the add-in for all the permissions that it requires
10. Click **Trust It** to grant the requested access
11. Now, Create a dataset in Current permission scan settings and Scan it

5. Azure

5.1. Steps to Register an App and Generate the Client ID and Secret Key for Azure 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 Office 365 component for Azure

4. Click on the API permission tab for the given Client ID and select **Add a Permission**
5. Select **Microsoft API's** and **API's my organization uses** as follows:

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

   Microsoft Graph API's

Directory.Read.All	Application
AuditLog.Read.All	Application

   Office 365 Management API's

ActivityFeed.Read	Delegated
ActivityFeed.Read	Application
ActivityFeed.ReadDlp	Delegated
ActivityFeed.ReadDlp	Application

> **NOTE**: Every permission change required must be granted admin consent

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

6. Teams

6.1. Steps to Register an App and Generate the Client ID and Secret Key for Teams 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 Office 365 component for Teams

4. Click on the API permission tab for the given Client ID and select **Add a Permission**
5. Select **Microsoft API's** and **API's my organization uses** as follows:

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

   Microsoft Graph API's

AuditLog.Read.All	Delegated
AuditLog.Read.All	Application
Directory.Read.All	Application

   Office 365 Management API's

ActivityFeed.Read	Delegated
ActivityFeed.Read	Application
ActivityFeed.ReadDlp	Delegated
ActivityFeed.ReadDlp	Application

> **NOTE**: Every permission change required must be granted admin consent

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

7. Skype for Business

7.1. Steps to Register an App and Generate the Client ID and Secret Key for Skype for Business 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 Office 365 component for Skype

4. Click on the API permission tab for the given Client ID and select **Add a Permission**
5. Select **Microsoft API's** and **API's my organization uses** as follows:

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

   Microsoft Graph API's

AuditLog.Read.All	Delegated
AuditLog.Read.All	Application
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ActivityFeed.Read	Delegated
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ActivityFeed.ReadDlp	Delegated
ActivityFeed.ReadDlp	Application

> **NOTE**: Every permission change required must be granted admin consent

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

8. Permissions

The permissions required for the different functionality of O365 components are as follows:

8.1. Auditing Permissions

The permissions required are as follows:

Graph API's

Name	Type	Detail
AuditLog.Read.All	Delegated	Read audit log data
Directory.Read.All	Application	Read directory data
AuditLog.Read.All	Application	Read all audit log data

Management API's

Name	Type	Detail
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.

8.2. 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.

Scope: http://sharepoint/social/tenant Read

This acts as a central location where users can track their tasks and access the documents and sites they are following so Read permission is sufficient here.

8.3. 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.

Scope: http://sharepoint/social/tenant Read

This acts as a central location where users can track their tasks and access the documents and sites they are following so Read permission is sufficient here.

9. 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 https://www.lepide.com/contactus.html 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/.

10. Trademarks

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