

MS PURVIEW OVERVIEW

Microsoft Purview is a family of data governance, risk, and compliance solutions that can help your organization govern, protect, and manage your entire data estate. Microsoft Purview solutions provide integrated coverage and help address the recent increases in remote user connectivity, the fragmentation of data across organizations, and the blurring of traditional IT management roles.

This integration's purpose is to utilize Azure Information Protection part of the MS Purview (further referred to as MS Purview for simplicity) for its cataloging functionality and set up its communication with Inventa. The goal is to scan Microsoft resources like Azure DBs, OneDrive, and Exchange and build the catalog of assets scanned by Inventa with assigned corresponding labels to the data elements within and outside the MS resources.

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USE CASE	DESCRIPTION	
Import sensitivity labels	Automatically import sensitivity labels from MS Purview to Inventa. These	
to Inventa	labels will appear as sensitivity classes in Inventa , and can be mapped to	
	data elements and document classifiers.	
Use imported sensitivity	Use the automatically imported sensitivity labels during the Contains over	
labels for criticality	[X] data elements of [Y] sensitivity criticality score parameter	
score calculation	configuration.	
Assign sensitivity labels	Automatically assign sensitivity labels from MS Purview to files in	
to files in MS resources	MS resources according to the label scoring.	



For details on Inventa sensitivity classes and the integration use case configuration, refer to the **Analytic Engine and Console Manager Administrator Guide**.

PREREQUISITES

- 1. Inventa version 3.6.0+.
- 2. MS Purview risk and compliance solutions.
- 3. MS Purview unified data governance solutions.
- 4. Configured and published security labels on the Microsoft Purview compliance portal, Solutions > Information protection > Labels.
- 5. Register the integration app in the MS Azure portal.
- 5. 1. Make a note of the application (client) ID, directory (tenant) ID and the client secret. These values will be used for the integration app configuration.
- 5.2. Grant the following permissions to the registered app:



Table 2: Required app permissions in MS Azure portal

PERMISSION	DESCRIPTION
CustomSecAttributeAssignment.Read.All	Read custom security attribute assignments
CustomSecAttributeAssignment.ReadWrite.All	Read and write custom security attribute
	assignments
CustomSecAttributeDefinition.Read.All	Read custom security attribute definitions
CustomSecAttributeDefinition.ReadWrite.All	Read and write custom security attribute definitions
Directory.Read.All	Read directory
Files.Read.All	Read files in all site collections
Group.Read.All	Read all groups
GroupMember.Read.All	Read all group memberships
InformationProtectionContent.Write.All	Create protected content
InformationProtectionPolicy.Read.All	Read all published labels and label policies for an
	organization
Mail.Read	Read mail in all mailboxes
Mail.ReadBasic	Read basic mail in all mailboxes
Mail.ReadBasic.All	Read basic mail in all mailboxes
Sites.Read.All	Read items in all site collections
User.Read	Sign in and read user profile
User.Read.All	Read all users' full profiles
Purview.ApplicationAccess	Purview Application API Access



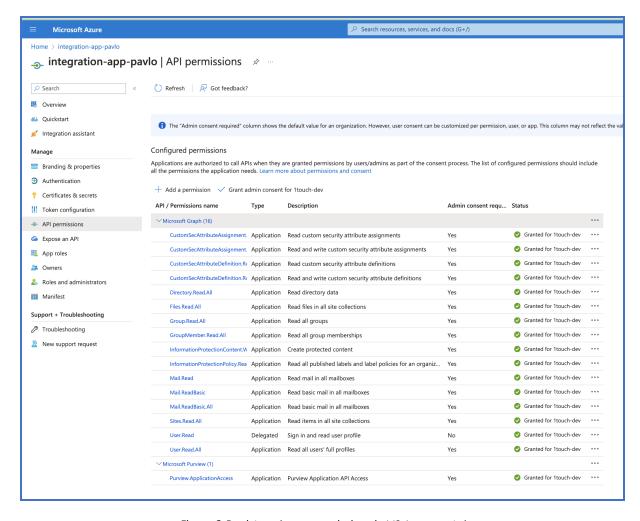


Figure 3: Registered app permissions in MS Azure portal

GETTING A SECRET KEY FOR MS AIP

1. Log in into your Microsoft accout in <u>Azure portal</u>. Go to App registrations > All applications.



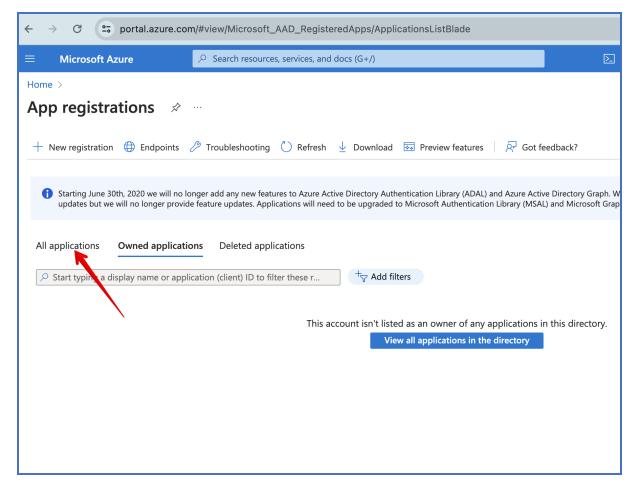


Figure 4: All applications in Azure portal

2. From the list of applications, select the dedicated integration with Inventa.



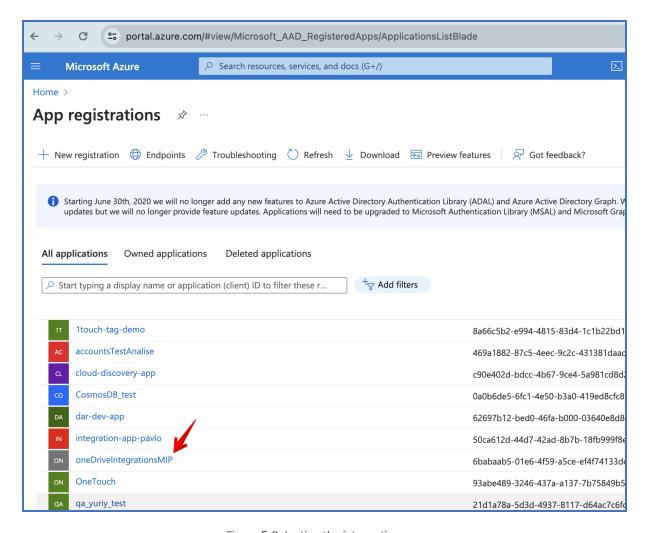


Figure 5: Selecting the integration app

3. On the application page, make a note of the application (client ID) and directory (tenant) ID.



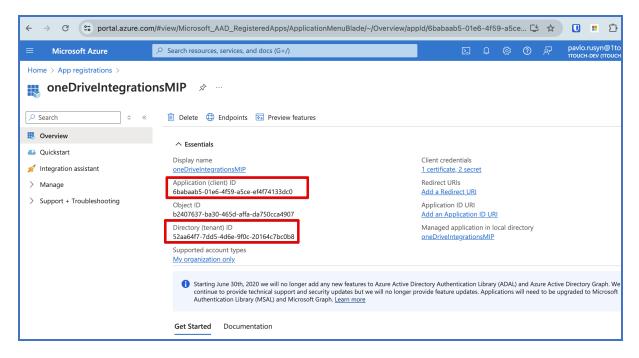


Figure 6: Application (client ID) and directory (tenant) ID

4. Go to Manage > Certificates & Secrets.

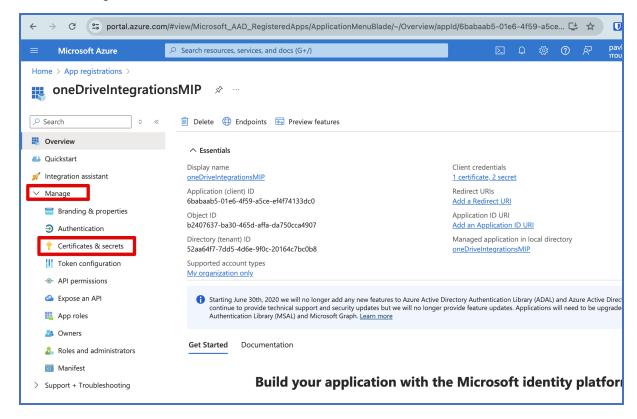


Figure 7: Managing certificates & secrets

5. Make a copy of the thumbprint.



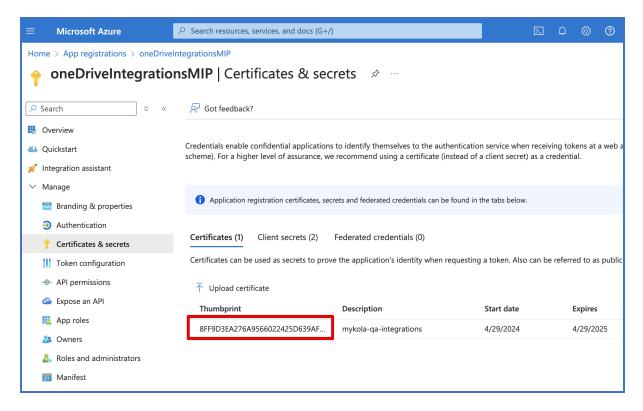


Figure 8: Application certificates & secrets

IMPLEMENTATION

- 1. The integration app imports the sensitivity labels data from MS Purview so Inventa is then able to use it for labeling the data elements both within the Microsoft resources (in Azure DBs, OneDrive, Exchange, etc.) and outside of them.
- 2. Labels can then be managed in MS Purview after letting Purview know what type of data should be classified.
- 3. The sensitivity labels are then used to build a catalog of items detected by Inventa and mark their relations to various data assets.



MS PURVIEW APP INSTALLATION & REMOVAL

INSTALLATION

The integration package is provided on demand. It can be installed on your VM, local machine, or cluster node. To deploy the project, perform the following steps:

1. Start the stack using command below:

```
docker-compose up -d --build
```

2. The application upgrade procedure is the same as for installation. The docker volumes removal may be required, only if specified explicitly.

REMOVAL

1. To delete the application, stop the containers from the directory with deployment files:

```
docker-compose down
```

2. Remove the docker volumes created for the project. Volumes can be listed using command:

```
docker volume ls
docker volume rm <s-now related volumes>
```



MS PURVIEW APP USAGE

IMPORTING THE SENSITIVITY LABELS AND USING THEM FOR CATALOGING

Create a set of sensitivity labels in MS Purview and communicate with Inventa in order to import the list and use it for cataloging in Inventa.

For example, an organization configures a set of sensitivity labels: General, Confidential/All Employees, Confidential/Executive Employees, Highly Confidential. Based on an organization's data security policies, all data containing credit card information should be categorized as General, Confidential/All Employees.

The integration app imports the General, Confidential/All Employees, Confidential/Executive Employees, Highly Confidential labels from MS Purview and into Inventa. These labels appear as sensitivity classes in Inventa platform > Business context > Sensitivity.

The Inventa user assigns the General, Confidential/All Employees sensitivity classes to the Credit Card Number data element.

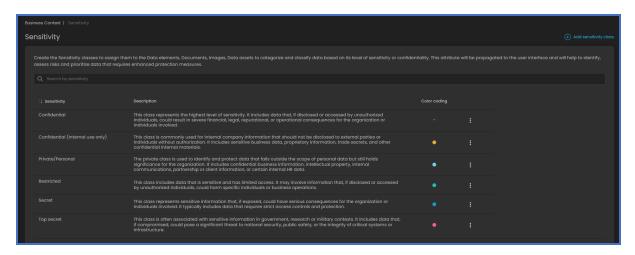


Figure 1: Sensitivity classes in Inventa

USE IMPORTED SENSITIVITY LABELS FOR CRITICALITY SCORE CALCULATION CONFIGURATION

Automatically imported sensitivity labels can be used in the configuration process of how Inventa calculates criticality score for data sources and files. The labels imported from MS Purview will be available for the **Contains over [X] data elements of [Y] sensitivity** parameter in the sensitivity selection dropdown menu on the **Criticality score configuration** page.



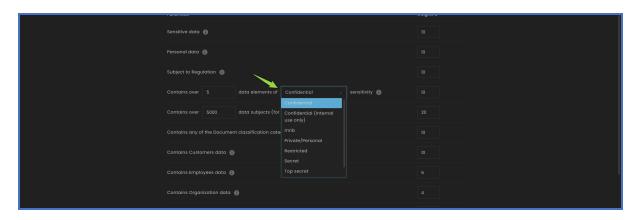


Figure 2: Sensitivity class dropdown

ASSIGN THE INVENTA SENSITIVITY LABELS TO FILES

Import a set of sensitivity labels from MS Purview to Inventa and use them for labeling in Microsoft resources like OneDrive, Exchange Online, etc.



Microsoft allows assigning only one label per file. The integration app will assign the label with the highest scoring configured in Inventa platform > Business Context > Sensitivity.

For example, you import a set of sensitivity labels and configure there scoring: General (scoring 10), Confidential/All Employees (scoring 25), Confidential/Executive Employees (scoring 35), Highly Confidential (scoring 70) in Inventa.

Inventa classifies a file in OneDrive that matches the General and Highly Confidential sensitivity classes. The integration will assign the Highly Confidential label to this file because of a higher scoring.