

Configure Microsoft Azure to Support Lasetnet Access to Azure Storage Through App-Registration-Based Authentication

Sunil Panchal - 2025-01-14 - Comments (0) - Lasetnet General Information

Lasetnet 10.10 and later support access to Azure Storage through app-registration-based authentication. In these Lasetnet versions, Lasetnet Cloud printing configuration and Lasetnet modules for Azure Storage input and output provide an **Application Registration** authentication option. This option is configured with **Client ID** and **Client Secret** to enable Lasetnet to authenticate with Microsoft Entra ID as an application and access Azure Storage.

The implementation of this access consists of three elements which must each be appropriately configured:

- **Microsoft Entra ID:** An app registration that represents Lasetnet must be granted appropriate API permissions.
- **Azure Storage container:** The enterprise app (corresponding to that app registration) must be assigned appropriate app roles on the Azure Storage container that you want Lasetnet to connect to.
- **Lasetnet:** The Azure Storage modules in a Lasetnet configuration, or the configuration of Lasetnet Cloud printing, or both, use a client ID and client secret to authenticate with Microsoft Entra ID.

The information below describes the configuration process.

Warning

This authentication method is not applicable to Azure Storage containers that are managed by Microsoft Dynamics 365 Finance and Operations.

Intended Audience

This information is intended for experienced Microsoft Azure administrators, who will understand how to complete tasks such as configuring role assignments on a storage container. So, this article contains only the supporting information that an administrator needs, such as which roles to assign.

The final stage of the process is to configure Lasetnet. This task is completed by a Lasetnet administrator and is described in the [Lasetnet Azure Guide](#) and [Lasetnet Printer Service Guide](#). Consequently, this page describes only the information that the Microsoft Azure

administrator must pass to the Lasernet administrator to enable them to configure Lasetnet.

Configuration Process

To appropriately configure Microsoft Azure, follow this process.

1. [Create an app registration to represent Lasetnet.](#)
2. [Grant the app registration an appropriate set of API permissions.](#)
3. [Generate a client secret for the app registration.](#)
4. [Assign the enterprise application \(that corresponds to the app registration\) a set of appropriate roles on the storage account.](#)
5. [Supply the necessary information to the Lasetnet administrator so that they can configure Lasetnet.](#)

Each task in this process is described in more detail below.

Create an App Registration

In Microsoft Entra ID, create an app registration to represent Lasetnet.

Note

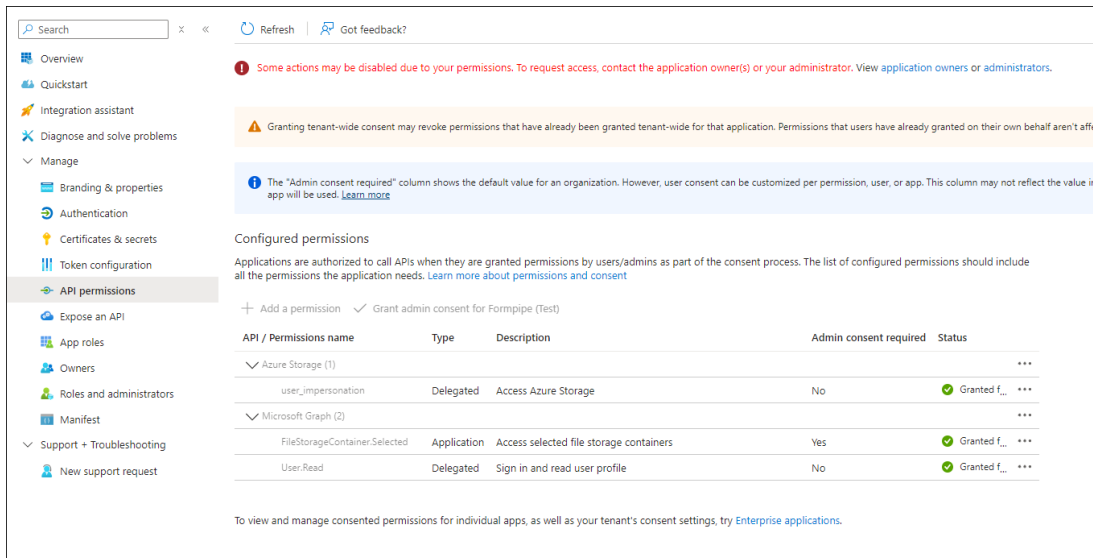
Microsoft Entra ID might already contain app registrations for Lasetnet that serve other purposes. Consider whether to create a new additional app registration or modify an existing one.

This article assumes that you created a new app registration for Lasetnet, for the purpose of enabling it to access Azure Storage.

Grant the App Registration Appropriate API Permissions

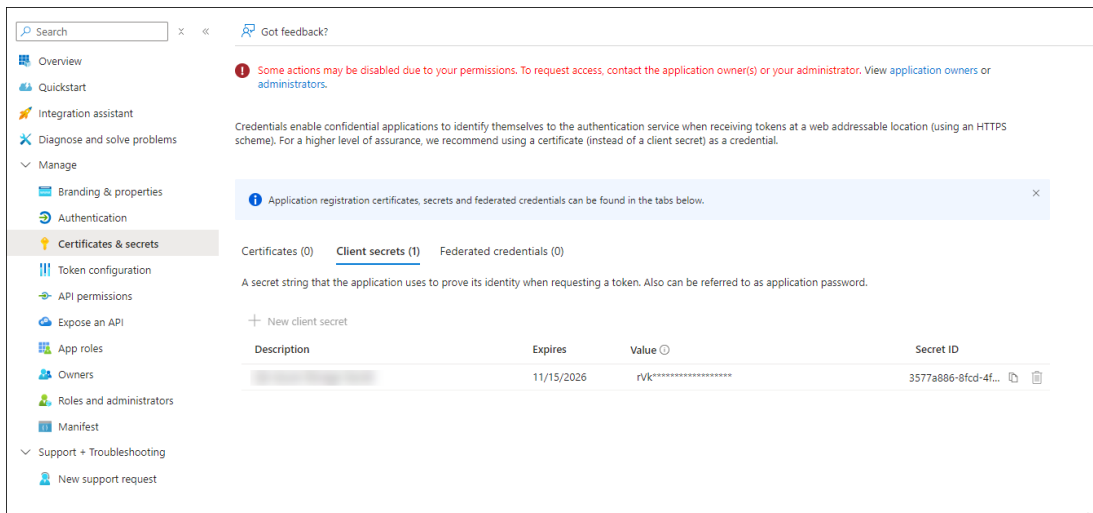
On the app registration's **API permissions** page, grant it the following permissions:

- Azure Storage
 - `user_impersonation`
- Microsoft Graph
 - `FileStorageContainer.Selected`
 - `User.Read`



Generate a Client Secret for the App Registration

1. On the **Certificates and secrets** page, generate a client secret for the app.
2. Note the new client secret (before the Azure Portal obscures it).



Assign the Lasernet Enterprise Application the Necessary Roles on the Storage Account

1. In the Azure Portal, navigate to the storage account that Lasernet will connect to.
2. On the **Access Control (IAM)** page, use the **Role assignments** tab to grant the enterprise app (that corresponds to the new app registration) the necessary roles on the storage account. Grant the enterprise app the following roles:

- Storage Blob Data Contributor
- Storage Blob Data Reader
- Storage Queue Data Contributor
- Storage Queue Data Reader

Contributor Name	Type	Resource	Permissions
Storage Blob Data Contributor (3)			
[App Icon] [App Name]	App	Storage Blob Data Contributor ⓘ	This resource None
Storage Blob Data Reader (2)			
[App Icon] [App Name]	App	Storage Blob Data Reader ⓘ	This resource None
Storage Queue Data Contributor (5)			
[App Icon] [App Name]	App	Storage Queue Data Contributor ⓘ	This resource None
Storage Queue Data Reader (2)			
[App Icon] [App Name]	App	Storage Queue Data Reader ⓘ	This resource None
Tag Contributor (10)			

Supply Configuration Information to the Lasernet Administrator

After you have completed this process, supply information from the following Microsoft Azure areas to the Lasetnet administrator so that they can configure Lasetnet:

- App registration
 - **Application (client) ID**
 - Client secret **Value**
- Tenant
 - Tenant domain
- Storage account
 - Storage account **Name**
 - Container **Name**

To use this information to configure Lasetnet, the Lasetnet administrator can follow the instructions provided in the following guides:

- [Lasetnet Azure Guide](#)
- [Lasetnet Printer Service Guide](#)