shinydocs User Led Migration

Azure Setup

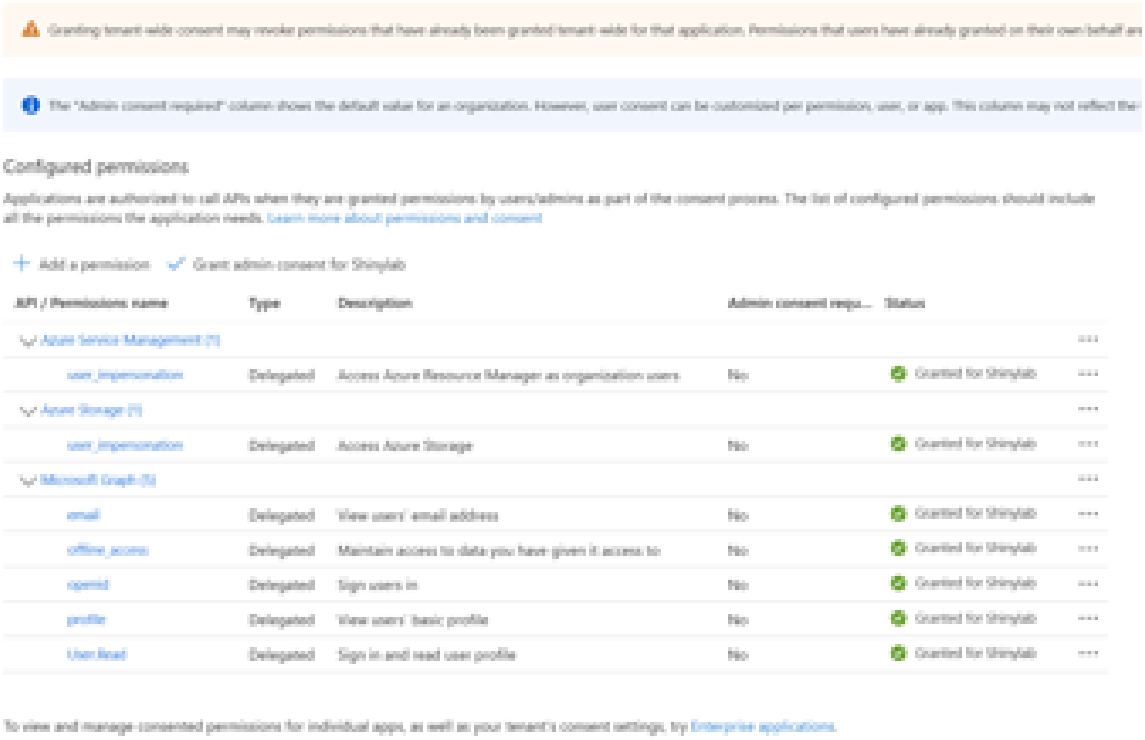
This article describes the setup in Azure to use User Led Migration to migrate to an azure blob or azure file store in a storage account.

Minimum Permissions:

🟦 App Registration Setup

To create the app registration so that ULM can connect to the Storage Accounts in Azure, the following settings need to be configured.

1. Create a standard app registration and configure a client secret.
2. The authentication Redirection URI should be: http://localhost:18080/ulm/authorized
3. Access Tokens and ID tokens should be enabled. Public flows should be disabled, and it should be restricted to the current tenant.
4. Api Permissions should be the following
    a. **Azure Service Management**
        i. *user_impersonation* - delegated - this provides the ability to list the storage accounts in the ULM application
    b. **Azure Storage**
        i. *user_impersonation* - delegated - this provides access to the storage accounts to upload files.
    c. **Microsoft Graph** - these are the basic permissions typically given to any app registration
        i. *email* - delegated - used to get details about the user - view the user's email address
        ii. *offline_access* - delegated - allows refresh tokens so we can maintain a session longer then the access token timeout
        iii. *openid* - delegated - allows users to sign in
        iv. profile - delegated - allows access to the user's profile so we know who is doing the migration
        v. *User.Read* - delegate - ability to sign in and read the user's profile so we know who is doing the migration



Storage Account Setup

For the storage account to work with ULM, the following needs to be configured.

Blob Storage

The storage account needs to be setup with the following permissions in order for ULM to be able to list the blob storage containers, and to upload files to the blob storage.

Action	**Required Role (On Storage Account)**
List Blob Containers	Storage Blob Data Contributor
Upload to Blob Container	Storage Blob Data Contributor

File Share Storage

The storage account needs to be setup to allow identity based access to the file shares. This is typically done by linking it to Azure AD, Entra DS or Azure Kerberos. If you plan on using just Entra ID to connect to it, the quickest route is Azure Kerberos.

The following permissions need to be given to the user(s) that are uploading files to the file share.

Action	**Required Role (On Storage Account)**
List File Shares	Reader
Upload to Azure File Share (using APIs)	Storage File Data Privileged Contributor (this is the required privilege when using the APIs, and Entra ID for authentication)