

Using FlexNet Manager Suite's Multi-Tenant App to Connect to Microsoft 365

To create a connection to Microsoft 365 on an inventory beacon using FlexNet Manager Suite's multitenant app:

1. Log into the inventory beacon interface as an administrator (for example, in the Windows Start menu, search for

FlexNet Beacon, right-click it, and select **Run as administrator**).

2. From the **Data collection** group in the navigation bar, choose **Inventory Systems**.

3. Choose either of the following:

- To change the settings for a previously-defined connection, select that connection from the list, and click **Edit...**

- To create a new connection, click the down arrow on the right of the **New** split button, and choose **Powershell**.

4. Complete (or modify) the values for the following required fields:

- **Connection Name**: The name of the inventory connection. The name may contain alphanumeric characters, underscores or spaces, but must start with either a letter or a number. When the data import through this connection is executed, the data import task name is same as the connection name.

- **Source Type**: Select **Microsoft 365** from this list.

5. Optionally, if your enterprise uses a proxy server to enable Internet access, complete (or modify) the values in the

Proxy Settings section of the dialog box in order to configure the proxy server connection.

- **Use Proxy**: Select this checkbox if your enterprise uses a proxy server to enable Internet access. Complete the additional fields in the **Proxy Settings** section, as needed. If the **Use Proxy** checkbox is not selected, the remaining fields in the **Proxy Settings** section are disabled.

- **Proxy Server**: Enter the address of the proxy server using HTTP, HTTPS, or an IP address. Use the format `https://ProxyServerURL:PortNumber`, `http://ProxyServerURL:PortNumber`, or `IPAddress:PortNumber`). This field is enabled when the **Use Proxy** checkbox is selected.

- **Username** and **Password**: If your enterprise is using an authenticated proxy, specify the username and password of an account that has credentials to access the proxy server that is specified in the **Proxy Server** field. These fields are enabled when the **Use Proxy** checkbox is selected.

6. In the **Microsoft 365** section, do the following:

a. Note that the following fields are auto-populated if you have installed the FlexNet Beacon released with FlexNet Manager Suite 2019 R1 or later. If you have not installed this FlexNet Beacon, then manually enter the following values into these fields:

- **Authorization Endpoint**: `https://login.microsoftonline.com/common/oauth2/v2.0/authorize`

- **Token Endpoint**: `https://login.microsoftonline.com/common/oauth2/v2.0/token`

- **Application (client) ID**: `5bb1a5a2-0d97-4335-9448-119f7b27aff9`

- **Redirect URI**: `https://login.microsoftonline.com/common/oauth2/nativeclient`

b. Next to the **Refresh Token** click the **Generate** button to generate a refresh token that will be used to integrate with Microsoft 365.

When you click the **Generate** button to the right of the **Refresh Token** field, a **Microsoft** popup appears asking you to **Pick an account** to use to log into Microsoft Office 365.

c. Choose an Active Directory account with **Cloud application administrator** role privileges and enter the password.

Tip: The **Cloud application administrator** role is required in order for the FlexNet Beacon to retrieve a token that allows read only access to Microsoft Graph. For more information, see <https://docs.microsoft.com/en-us/azure/active-directory/users-groups-roles/directory-assign-adminroles>. The generated refresh token can only be used to access data that user sees and consents to during the token generation process, which is *offline read-only access to Active Directory and Reports* (*directory.read.all*, *reports.read.all*, and *offline_access*). Offline means the FlexNet Beacon can connect and get data from Office 365 at schedule run without user actually signing in.

A **Permissions requested** dialog appears.

d. Click **Consent on behalf of your organization** to accept the read only permissions that will be granted to the refresh token.

e. Click **Accept**.

The **Refresh Token** field is now populated.

7. At the bottom of the **FlexNet Beacon** interface, click **Save**, and if you are done, also click **Exit**.

Registering an app using the Azure portal to connect to Microsoft 365

An alternate method to the instructions provided in [Using FlexNet Manager Suite's Multi-Tenant App to Connect to Microsoft 365](#) is to register an app in the Azure portal to connect to Microsoft 365 as shown in the steps in this section.

This requires an Azure account with Global Administrator privileges.

To register an app in the Azure portal to connect to Microsoft 365:

1. With an Azure account with Global Administrator privileges, login to the [Microsoft Azure portal](#).

2. In the left navigation bar, click **Azure Active Directory**.

3. Click **App registration**.

4. Click the **New registration** button.

The **Register an application** page appears.

5. In the **Register an application** page, do the following:

a. In the **Name** field, enter **FlexNet Beacon**.

b. In the **Supported account types** section, choose **Accounts in this organizational directory only**.

c. Click **Register**.

The **FlexNet Beacon** page appears.

6. On the **FlexNet Beacon** page, click **Authentication** in the middle navigation bar and do the following.

a. In the **Redirect URIs** section, enter **FlexNet Beacon**.

b. In the **Suggested redirect URIs for public clients (mobile, desktop)** section choose the redirect you would like to use, such as **https://login.microsoftonline.com/common/oauth2/nativeclient**.

c. Click **Save**. After a period of time, the registration completes.

7. The **FlexNet Beacon** page appears after the registration is complete. Keep this browser and Azure session open

to the **FlexNet Beacon** page so that you can copy and paste values from it to fields in the **FlexNet Beacon Create**

PowerShell Source Connection dialog in Step 12.

8. Log into the inventory beacon interface as an administrator (for example, in the Windows Start menu, search for

FlexNet Beacon, right-click it, and select **Run as administrator**).

Tip: You must run the inventory beacon software with administrator privileges.

9. To create a new connection, click the down arrow on the right of the **New** split button, and choose **PowerShell**.

10. Complete the values for the following required fields:

- **Connection Name:** Enter the name of the inventory connection. The name may contain alphanumeric characters, underscores or spaces, but must start with either a letter or a number. When the data import through this connection is executed, the data import task name is same as the connection name.

- **Source Type:** Select **Microsoft 365** from this list.

11. Optionally, if your enterprise uses a proxy server to enable Internet access, complete the values in the **Proxy Settings** section of the dialog box in order to configure the proxy server connection:

- **Use Proxy:** Select this checkbox if your enterprise uses a proxy server to enable Internet access. Complete the additional fields in the **Proxy Settings** section, as needed. If the **Use Proxy** checkbox is not selected, the remaining fields in the **Proxy Settings** section are disabled.

- **Proxy Server:** Enter the address of the proxy server using HTTP, HTTPS, or an IP address. Use the format

https://ProxyServerURL:PortNumber, http://ProxyServerURL:PortNumber, or IPAddress:PortNumber). This field is enabled when the **Use Proxy** checkbox is selected.

- **Username and Password:** If your enterprise is using an authenticated proxy, specify the username and password of an account that has credentials to access the proxy server that is specified in the **Proxy Server** field. These fields are enabled when the **Use Proxy** checkbox is selected.

12. To enter the fields in the **Microsoft 365** section, you need to go back to your Azure session, opened to the **FlexNet Beacon** page. The fields in Azure have a **Click to copy** icon that lets you copy their values to the clipboard for pasting into the following **FlexNet Beacon Create PowerShell Source Connection** dialog:

- **Authorization Endpoint:** Paste this value from the Azure session. (In Azure, click **Overview** and then click **Endpoints**. Click the **Click to copy** icon to the right of the **OAuth 2.0 authorization endpoint** field.)

- **Token Endpoint:** Paste this value from the Azure session. (In Azure, click **Overview** and then click **Endpoints**. Click the **Click to copy** icon to the right of the **OAuth 2.0 token endpoint** field.)

- **Application (client) ID:** Paste this value from the Azure session. (In Azure, click **Overview** and then click the **Click to copy** icon to the right of the **Application (client) ID** field.)

- **Redirect URI:** Paste this value from the Azure session. (In Azure, click **Overview** and then click the hyperlink

in the **Redirect URIs** section. This opens the **Redirect URIs** page. Click the **Click to copy** icon to the right of the **Redirect URI** setting you selected or if you specified a custom URI copy that URI.)

13. Click the **Generate** button to generate a refresh token that will be used to authenticate the connection to Microsoft 365.