

Inventory - Microsoft Office 365

Inventorying Microsoft Office 365



TITEL Inventory - Microsoft Office 365

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1. Introduction

In September Release 2018, Docusnap was enhanced with the Office 365 Inventory feature. The new added inventory collects data (users, groups and licenses) regarding Microsoft Office 365. In this document we describe which steps are necessary to map information of your Microsoft Office 365 environment in Docusnap.

The last revision of this HowTo and screenshots took place on August 19th, 2019. Please note that it can be that some information on the screenshots do no longer exist. However, the basic steps are still valid.



2. Preparing Microsoft Azure

The following chapters describe how to prepare the Microsoft Azure environment for inventorying Microsoft Office 365. Alternatively, a PowerShell script can be used for setup, as described in Chapter 3.

Before you begin, make sure that your used Azure user is authorized as a Global Administrator.

2.1 Creating the New Azure Application

The Docusnap Office 365 Inventory requires mandatory a registered application, that is authorized to read and access the Microsoft Office 365 information. In this chapter, we describe how to create this application.

For example, the application is called **Docusnap Office 365**. The name is freely selectable.

2.1.1 App Registration

Create / register the app as follows:

- Select the Azure Active Directory in the resource overview or the search.
- In the Manage area, select App registrations.
- Click on the menu item New registration

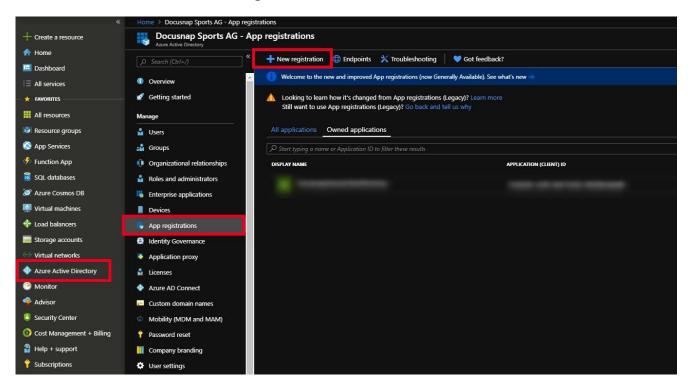


Fig. 1 - App registration



2.1.2 Register the application

The following information is required to register the application:

- Name: Enter the application name Docusnap Office 365.
- Supported account types: Here you can select who can use the application select Accounts in this organizational directory only

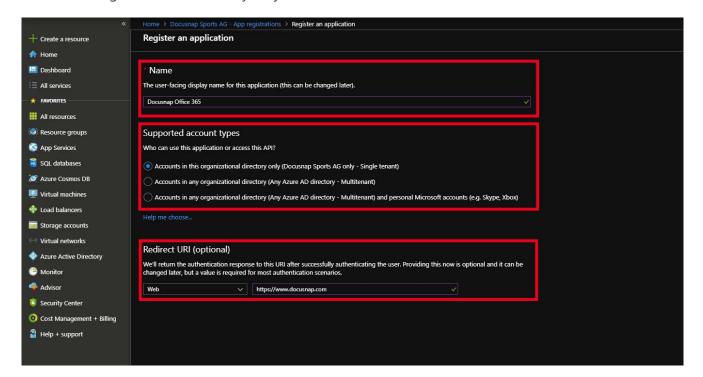


Fig. 2 – Register the application



2.1.3 Determine Application and Directory ID

After the creation is completed, the overview dialog of the application is displayed. Now note / copy the application and directory ID.

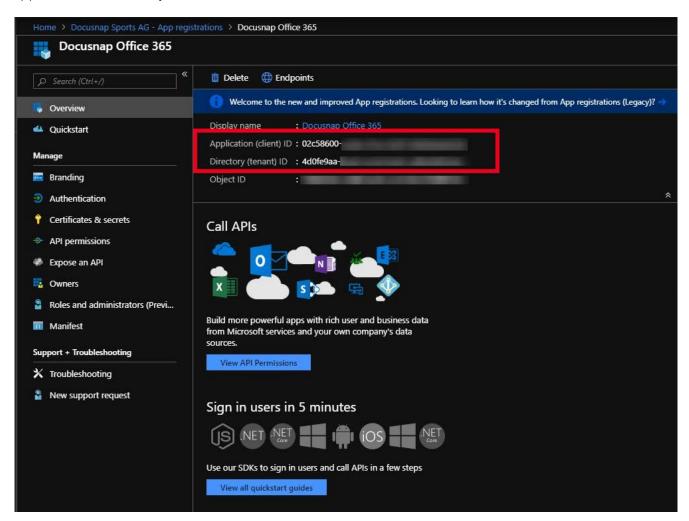


Fig. 3 - Determine Application and Directory ID



2.1.4 Create a client secret

Now create a client secret. In the Manage area, select the item

- Certificates & secrets
- New client secret
- Enter a **Description** and
- the validity of the secret

Note: The key can only be viewed directly after creation. If the key is lost or becomes invalid, it must be recreated.

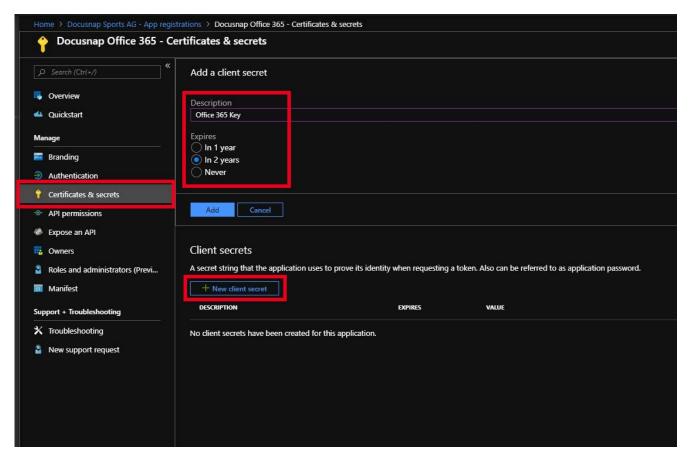


Fig. 4 - Create a secret client key



2.1.5 Authorizing the application – API permissions

Now the application must be authorized for the Windows Azure Service Management API.

- In the Manage pane, select API Permissions
- Add a permission
- Microsoft Graph

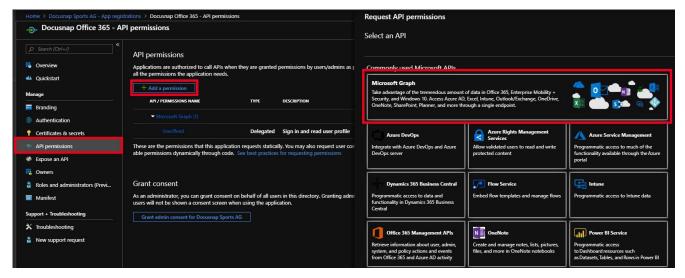


Fig 5 – Authorize Application

Choose Application permissions as the type of permission to be granted.

Use the keyword Directory to find the Directory.Read.All permission and add this permission.

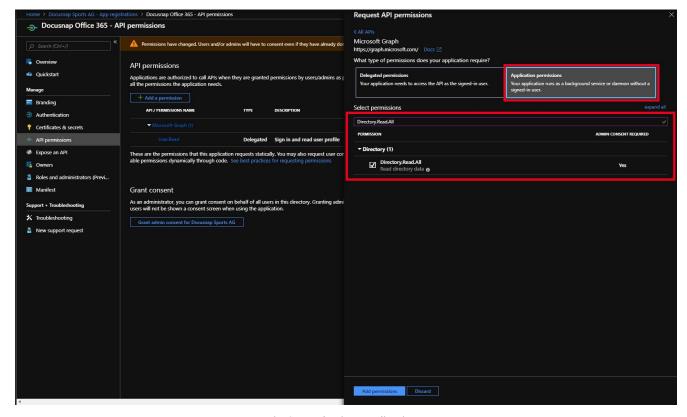


Fig 6 - Authorize Application II



Now you have to give your consent for the previously set permissions. To do this, select the control **Grant** admin consent for "Your subscription".

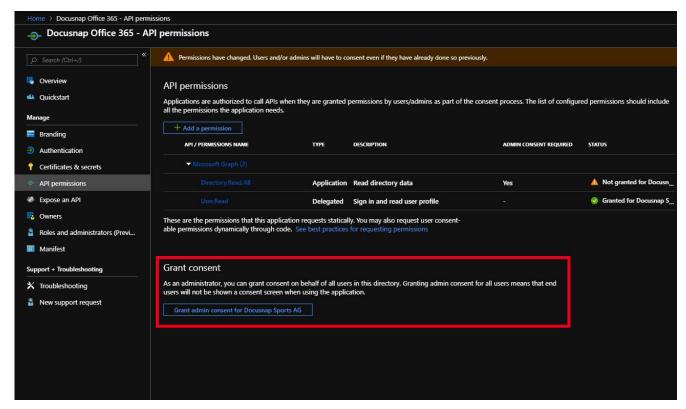


Fig 7 - Grant Consent



3. Alternative: PowerShell Script

Alternatively, a PowerShell script can be used to perform the steps described above.

The script is located in the installation directory of Docusnap

C:\Program Files\Docusnap X\Tools\scripts\ o365.key.creation.ps1

Important: The PowerShell script must be run as an administrator!

- Start PowerShell Script as an administrator
- Reload libraries if necessary and confirm execution dialogs
- Log in in the appearing window

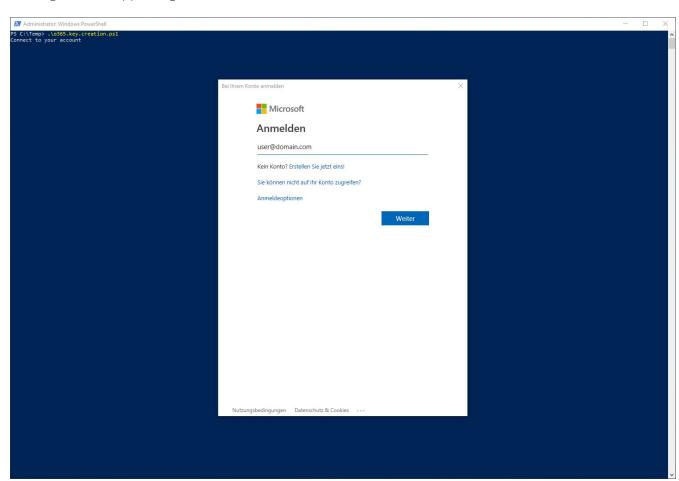


Fig 8 - PowerShell - login



Assign a name for the application: Docusnap Office 365

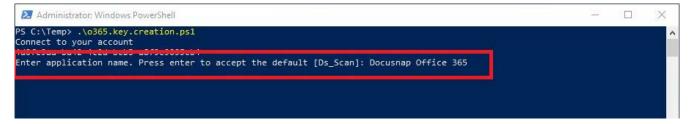


Fig. 9 - PowerShell - application name

- All required information (Application ID, Directory ID and Key) is displayed afterwards
- Important copy the displayed IDs the key can no longer be found afterwards

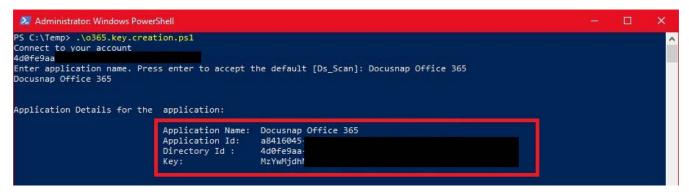


Fig. 10 - PowerShell - inventory credentials

You have to open the displayed URL in the browser - log in and confirm the access

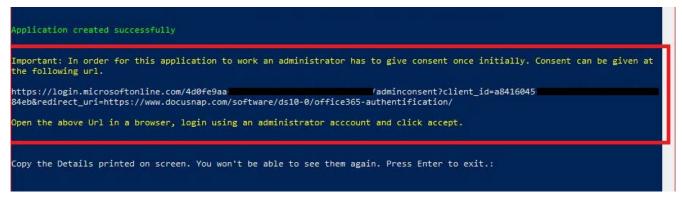


Fig. 11 - PowerShell - confirm access



4. Inventorying Office 365 with Docusnap

4.1 Docusnap Office 365 Inventory Wizard

4.1.1 Prerequisite: proxy configuration

If your network uses a proxy, you must specify the proxy parameters in the connection settings. It is possible that you normally do not need these settings when using the other scan modules. Basically, the proxy settings must be suitable for the respective DDS (Docusnap Discovery Service). The settings shown in the exemplary screenshot are suitable for interactive Azure inventory scans. If you selected the Discovery Service of another location as the DDS, you would have to adjust the proxy settings for this DDS installation.

Adjusting the proxy settings:

- Click **Docusnap** in the upper left corner to open the **Options** panel
- Select the General Options item from the list of options
- In the Options dialog, click **Connections**.
- Under Proxy Settings:
 - o select Set up manually
 - Under Address, enter your proxy URL including the Port number
 - o Enter suitable values in the **User** and **Password** fields
- Click **OK** to confirm your changes

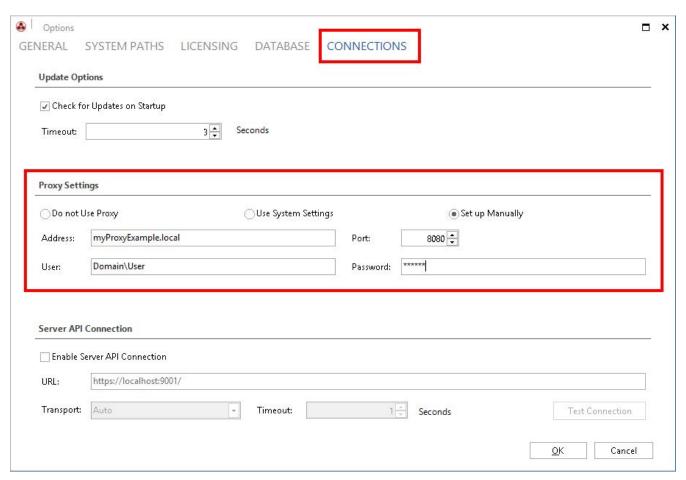


Fig. 12 - Docusnap Proxy Settings



4.1.2 Inventorying Office 365

Launch the Office 365 Inventory Wizard from the button in the Cloud Services section.

Select the desired company and domain.

Now you need the IDs and key information previously collected in Azure:

- Directory ID corresponds to the ID of your Azure Active Directory
- The ID of the previously created application is entered as the Application ID
- In the **Key** field, insert the value of the previously created key.

Then click Save. If you receive a proxy error, refer to the Proxy Configuration section of this chapter.

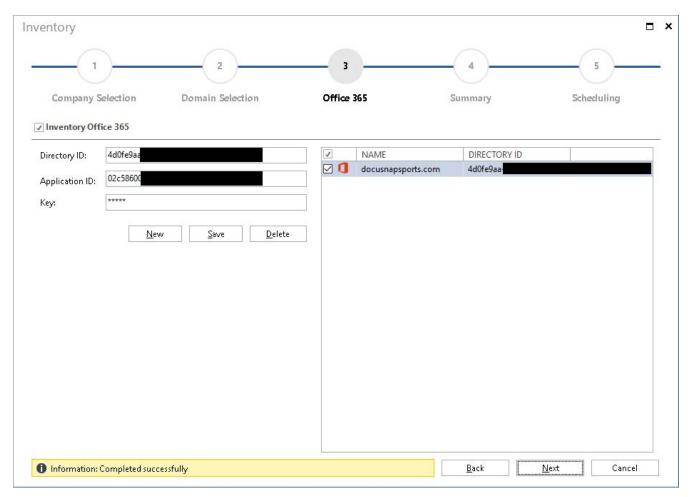


Fig. 13 – Add IDs for inventory



4.2 Office 365 scan result in Docusnap

The scan result can be found in the **Inventory** module as a separate node called **Office 365** below the previously selected domain, within the infrastructure of your client.

The screenshot below shows the top level of an Office 365 inventory:

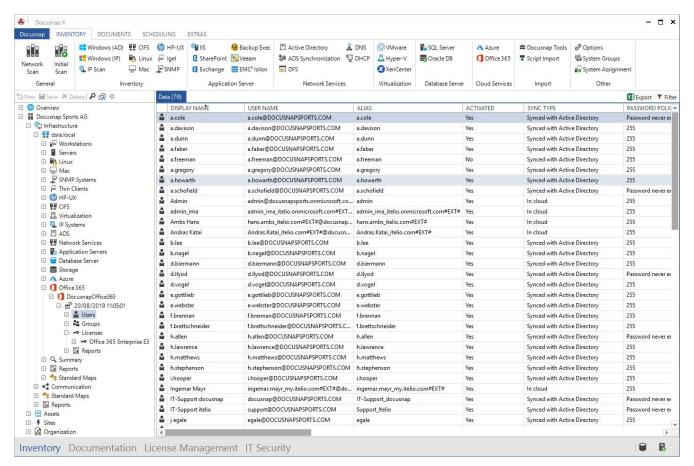


Fig. 14 - Scan result



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