

Inventory

Inventorying Office 365



TITEL Inventory

AUTOR Docusnap Consulting

DATUM 11/03/2020

VERSION 2.0 | valid from October 01, 2020

Die Weitergabe, sowie Vervielfältigung dieser Unterlage, auch von Teilen, Verwertung und Mitteilung ihres Inhaltes ist nicht gestattet, soweit nicht ausdrücklich durch die Docusnap GmbH zugestanden. Zuwiderhandlung verpflichtet zu Schadenersatz. Alle Rechte vorbehalten.

This document contains proprietary information and may not be reproduced in any form or parts whatsoever, nor may be used by or its contents divulged to third parties without written permission of Docusnap GmbH. All rights reserved.



TABLE OF CONTENTS

1. Introduction		4
2. Pre	paring Microsoft Azure	5
2.1 Cı	reating the New Azure Application	5
2.1.1	App Registration	5
2.1.2	Register the application	6
2.1.3	Determine Application and Directory ID	7
2.1.4	Create a client secret	8
2.1.5	Authorizing the application – API permissions	9
3. Alte	ernative: PowerShell Script	11
4. Inv	entorying Office 365 with Docusnap	13
4.1 D	ocusnap Office 365 Inventory Wizard	13
4.1.1	Prerequisite: proxy configuration	13
4.1.2	Inventorying Office 365	14
4.2 O	ffice 365 scan result in Docusnap	15



1. Introduction

The Office 365 Inventory collects data about users, groups, and licenses. In this document we describe the necessary steps to map information of your Microsoft Office 365 environment in Docusnap.

The last revision of this HowTos and screenshots took place on 22.04.2020. Please note that some of the information on the screenshots may 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

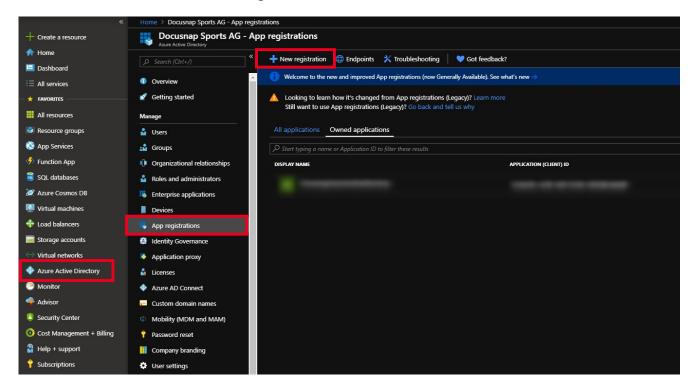


Fig. 1 - App registration



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

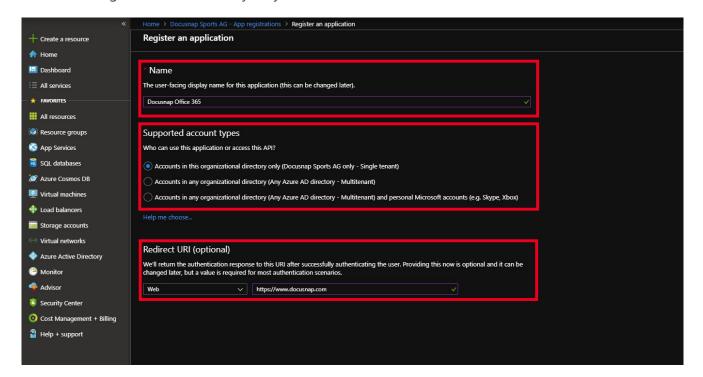


Fig. 2 – Register the application



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.

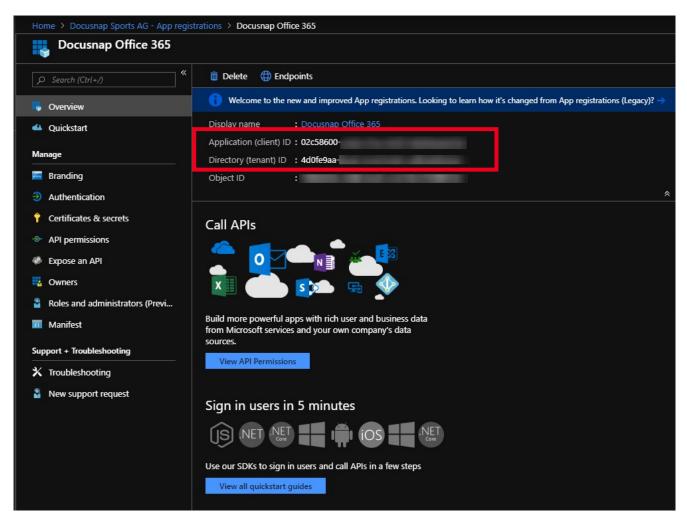


Fig. 3 - Determine Application and Directory ID



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.

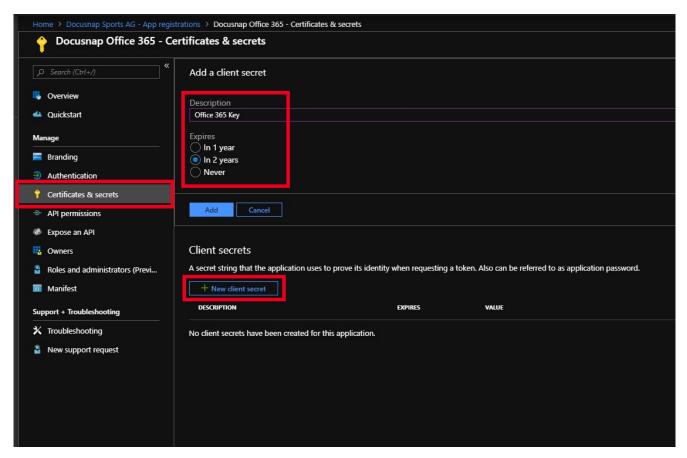


Fig. 4 - Create a secret client key



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

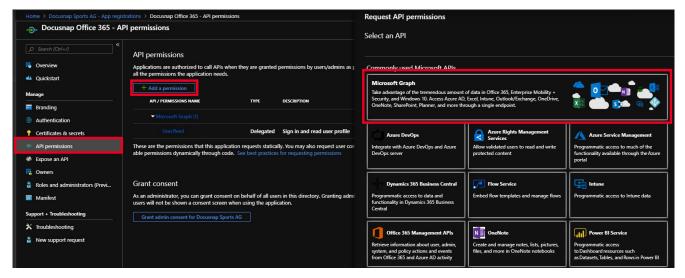


Fig 5 – Authorize Application

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.

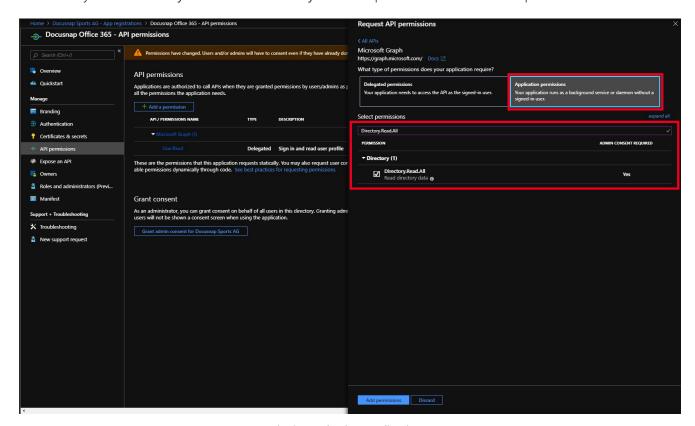


Fig 6 - Authorize Application II



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

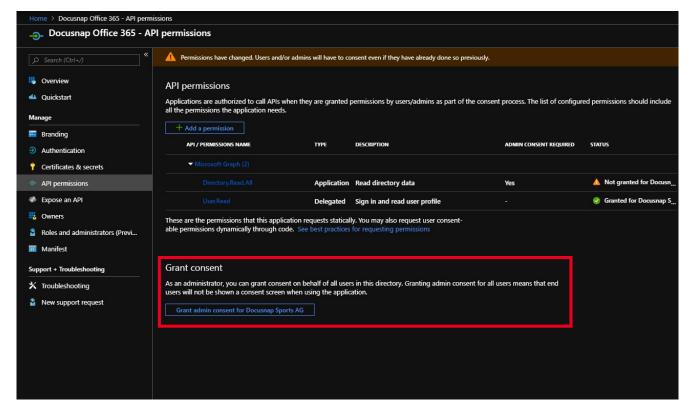


Fig 7 - Grant Consent



3. Alternative: PowerShell Script

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

The script is 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

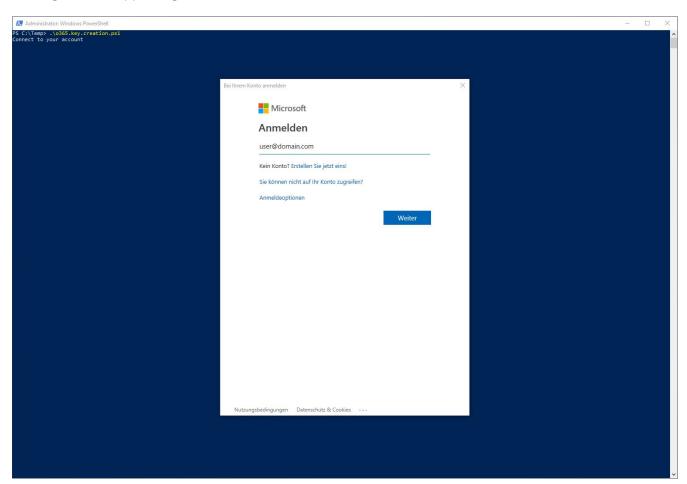


Fig 8 - PowerShell - login



Assign a name for the application: Docusnap Office 365

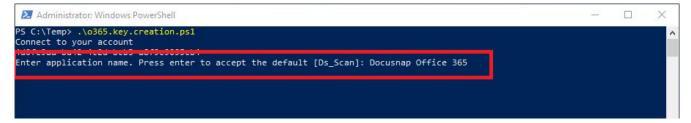


Fig. 9 - PowerShell - application name

- 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

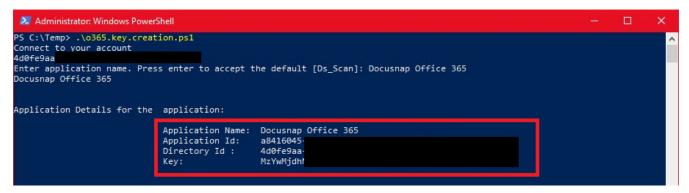


Fig. 10 - PowerShell - inventory credentials

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

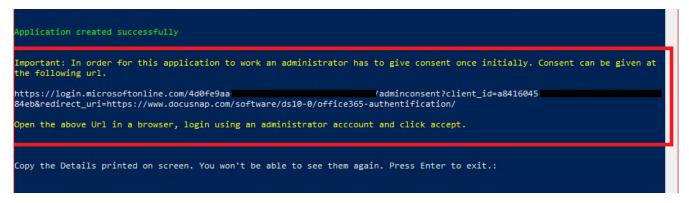


Fig. 11 - PowerShell - confirm access



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 on the gear wheel (Settings) in the top right-hand corner of the title bar
- Select General
- In the Options dialog, click **Connections**.
- Under Proxy Settings:
 - o select Set up manually
 - o 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

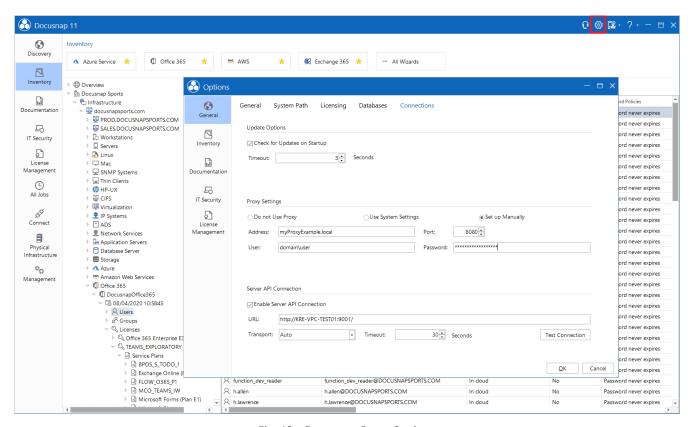


Fig. 12 - Docusnap Proxy Settings



4.1.2 Inventorying Office 365

Start the Office 365 Inventory Wizard by clicking the button in the Inventory section. If you do not see the button, you can find it by clicking the All Wizards button.

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.

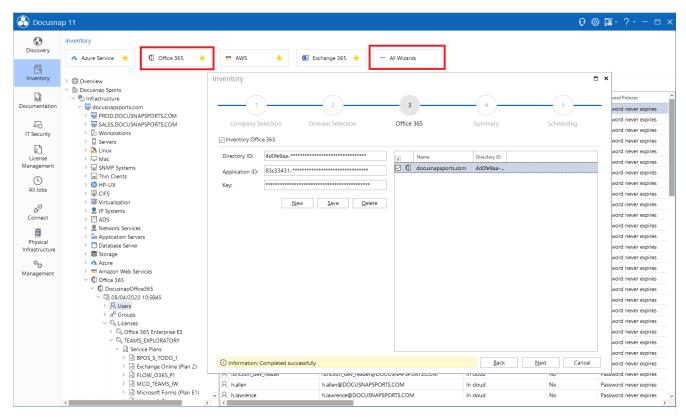


Fig. 13 – Add IDs for inventory



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:

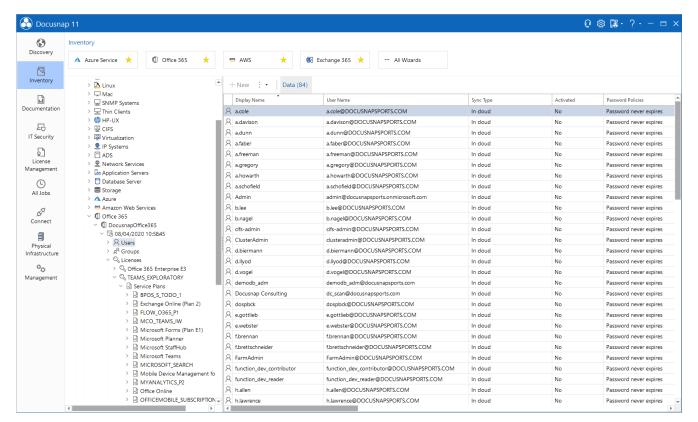


Fig. 14 - Scan result



ABBILDUNGSVERZEICHNIS

FIG. 1 - APP REGISTRATION	5
FIG. 2 – REGISTER THE APPLICATION	6
FIG. 3 - DETERMINE APPLICATION AND DIRECTORY ID	7
FIG. 4 - CREATE A SECRET CLIENT KEY	8
FIG 5 – AUTHORIZE APPLICATION	9
FIG 6 - AUTHORIZE APPLICATION II	9
FIG 7 – GRANT CONSENT	10
FIG 8 - POWERSHELL - LOGIN	
FIG. 9 - POWERSHELL - APPLICATION NAME	
fig. 10 - powershell — inventory credentials	12
fig. 11 - Powershell - Confirm access	12
FIG. 12 - DOCUSNAP PROXY SETTINGS	13
FIG. 13 — ADD IDS FOR INVENTORY	14
FIG. 14 - SCAN RESULT	15



VERSION HISTORY

Date	Description
September 20, 2018	Document created
August 20, 2019	Changed Screenshots
April 23, 2020	Version 2.0 - Revision of the HowTos for Docusnap 11

