Data on Demand Addendum Management Pack for Windows Computers

Introduction

The MP named Windows.Computer.DataOnDemand.Addendum provides different kinds of Agent Tasks for direct use in the SCOM console or in a Dashboard Tool.

Tasks

- Get-ComputerDescription
  - Retrieves the computer's local description and the one from the Active Directory computer object.

- Get-ComputerLastChanges
  - Displays the computers' last changes; last installed software, interactive logged on user, last boot, etc.

- Get-RemoteSOAPServiceInfo
  - Queries a remote web service via SOAP / XML displays its data.
    - Before RESTful became standard, web services could be consumed via SOAP.

- Get-SCOMNotificationConfig
  - Displays the SCOM's notification configuration incl. subscription, subscribers, channel, etc. → Tasks works only if selecting a Management Server!

- Get-MSGraphData
  - Queries Microsoft's Graph API by extending given OData functions

- Get-MSGraphBetaData
  - As Get-MSGraph Data, but targeting the beta version of the API.

Change History

Date	Build No.	Changes
2020-01-28	1.0.0.93	Initial upload to GitHub
2020-07-22	1.0.0.166	Added tasks for Graph API

Contents

Overview

This Management Pack does not require a new MP for storing overrides.

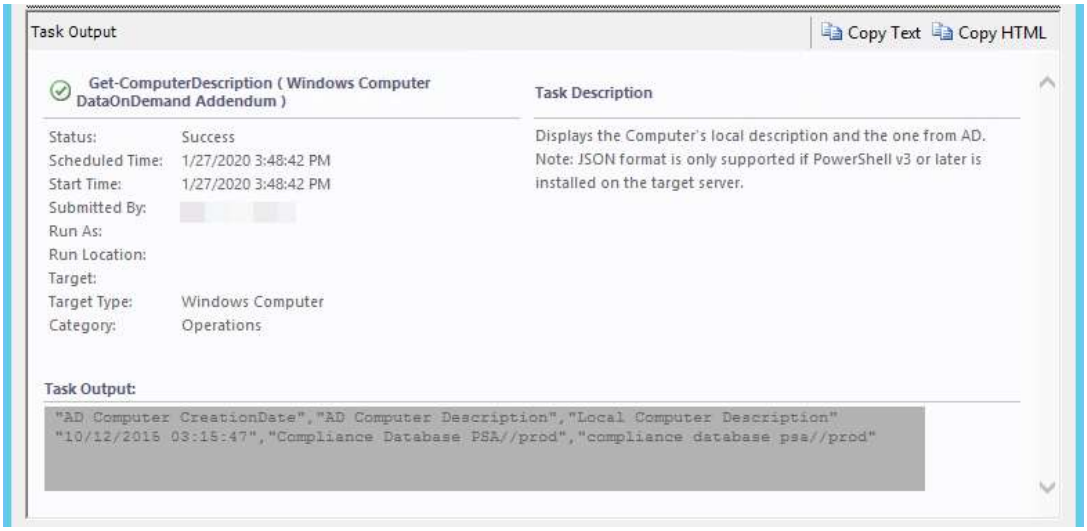
Tasks

Get-ComputerDescription

Description:
Retrieves the computer's local description and the one from the Active Directory computer object.

Possible overrides:
- Output format: CSV, JSON, Text. Default is CSV
- Script timeout in seconds. Default is 180.

Screenshot:

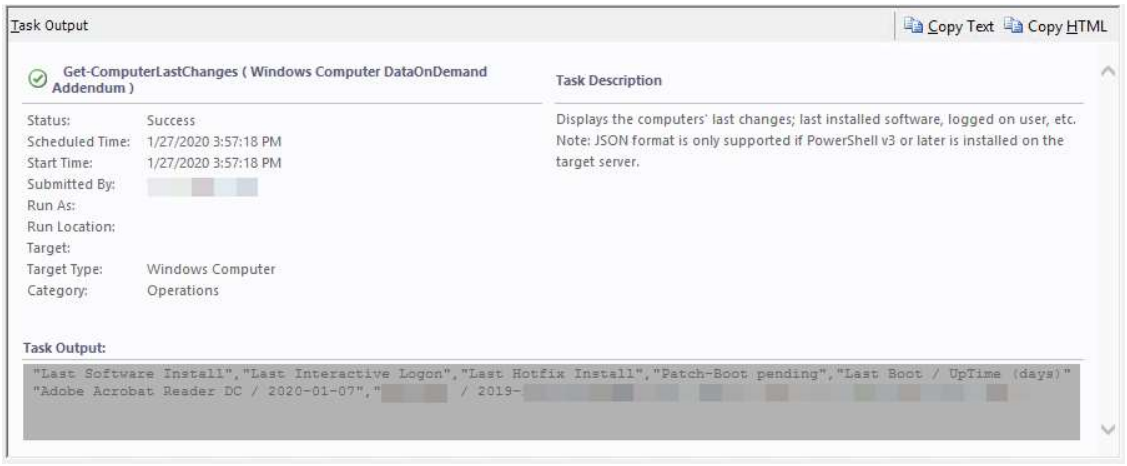


Get- ComputerLastChanges

Description:
Displays the computers' last changes; last installed software, interactive logged on user, last boot, etc.

Possible overrides:
- Output format: CSV, JSON, Text. Default is CSV
- Script timeout in seconds. Default is 180.

Screenshot:



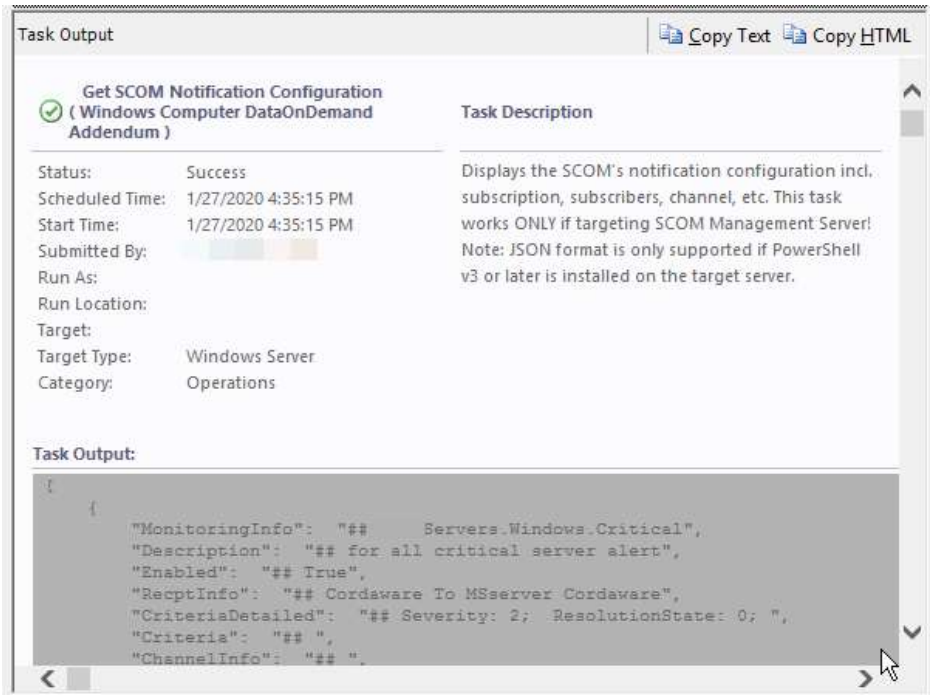
Get- SCOMNotificationConfig

Description:
Displays the SCOM's notification configuration incl. subscription, subscribers, channel, etc.
→ Task works only if selecting a SCOM Management Server!

Possible overrides:

Output format	CSV, JSON, Text. Default is CSV
TimeOut	Script timeout in seconds. Default is 180.
HideDisabled	Hides disabled subscriptions [true|false] (default = true)
HideChannelInfo	Hides Channel Information [true|false] (default = true)
SortedByColumn	Sorts according to the field specified. (E.g. Description, DisplayName, RecptInfo, Criteria, Enabled
AddVisualizationFlag	Adds a ## (double hashtag) at the beginning of every 2nd entry so that nice formatting can be performed

Screenshot:



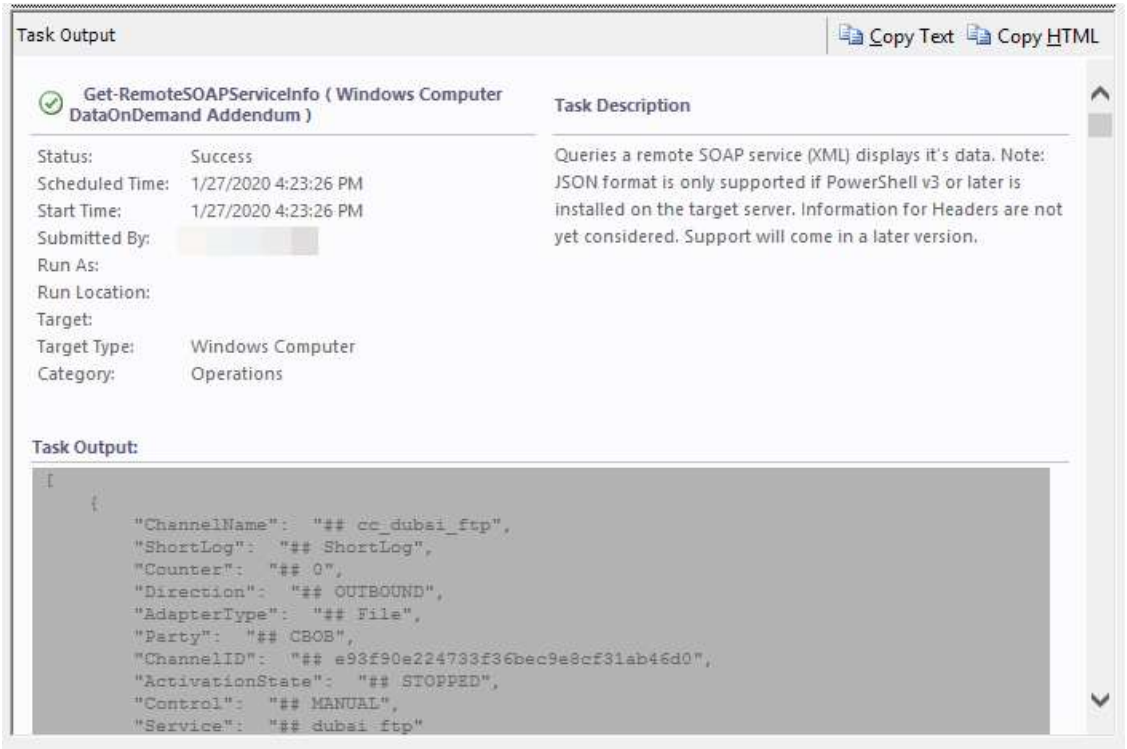
Get-RemoteSOAPServiceInfo

Description:
Queries a remote web service via SOAP / XML displays it's data.

Possible overrides:

Output format	JSON, Text, List, default: JSON
TimeoutSeconds	Script timeout, default: 180
WebServiceURL	e.g.: https://webserver.domain.com/apipoint
ContentType	Default: application/soap+xml
XMLNodeName	Name of the single node (e.g. unit or item or ...)
UserName	UserName in clear text, used for basic authentication
PassWord	Password in clear text, used for basic authentication
SortedByXMLNode	Filter a Node with PowerShell syntax. E.g. Element -notLike "*off*"
Headers	Request headers; presently only automatic via UserName and PassWord
AddVisualizationFlag	Adds a ## (double hashtag) at the beginning of every 2nd entry so that nice formatting can be performed. Default is: True

Screenshot:



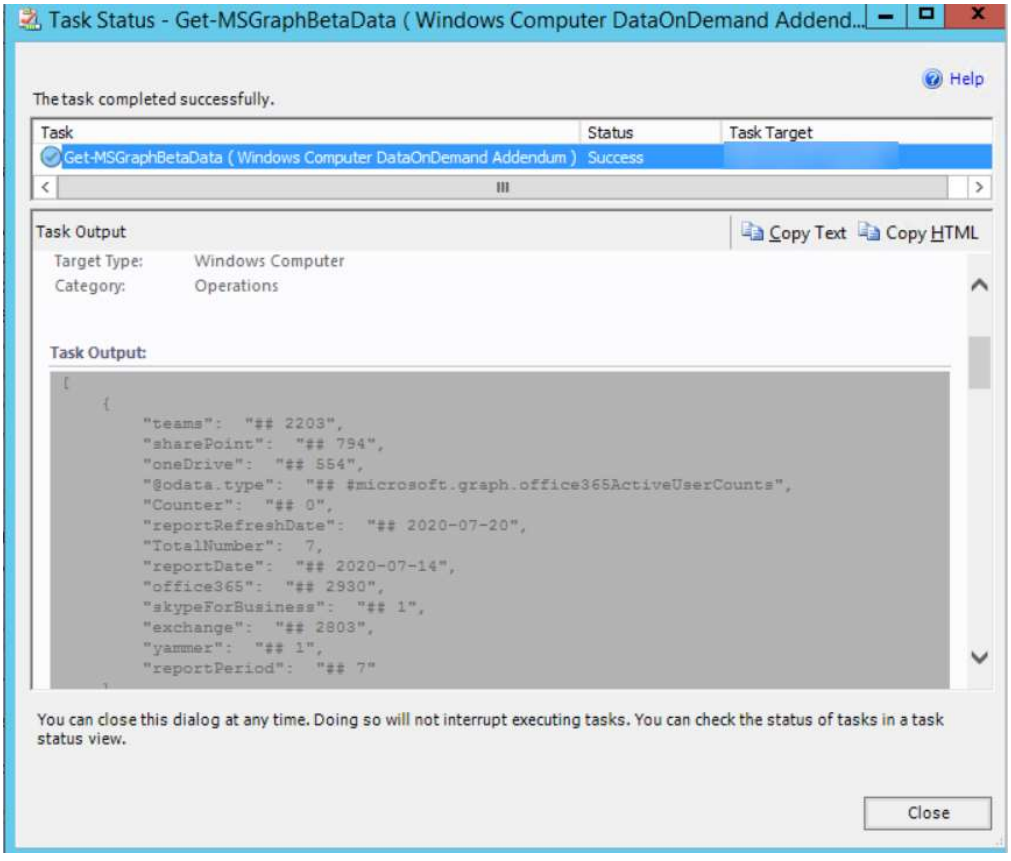
Get- MSGraphData / Get-MSGraphBetaData

Description:
Queries Microsoft's Graph API by extending given OData functions

Possible overrides:

Output format	JSON, Text, List, default: JSON
TimeoutSeconds	Script timeout, default: 180
WebServiceURL	Used for current Graph API Urls, overridable if MS changes.
ClientSecret	Retrieved from the Azure Portal / App Registration
ClientId	Retrieved from the Azure Portal / App Registration
TenantId	Retrieved from the Azure Portal / App Registration
FilteredBy	Filtering query result by PowerShell syntax
SortedBy	Property of the query that is used to sort the result
SortDescending	Flag to decide if result is sorted from Top to Bottom
DisplayItemNumber	Limits the items to be shown as the result
GraphQry	Query for the Graph API
AddVisualizationFlag	Adds a ## (double hashtag) at the beginning of every 2nd entry so that nice formatting can be performed. Default is: True

Screenshot:



Preparation

This Management Pack does not require a new MP for storing overrides.

Retrieve data from MS Graph API

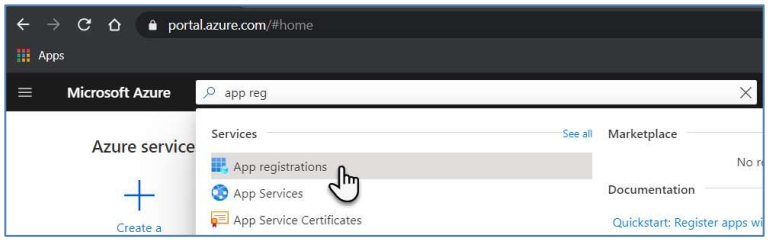
Before MS Graph API can be queried, permissions in Azure must be set.

A step by step instruction can be found on: https://www.lee-ford.co.uk/getting-started-with-microsoft-graph-with-powershell/

In short.

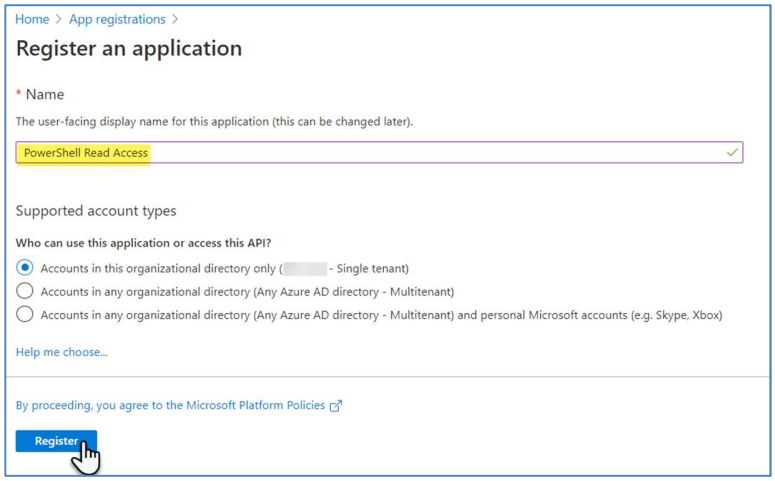
1. Navigate to **portal.azure.com**

2. Search for **app registrations** and click on it

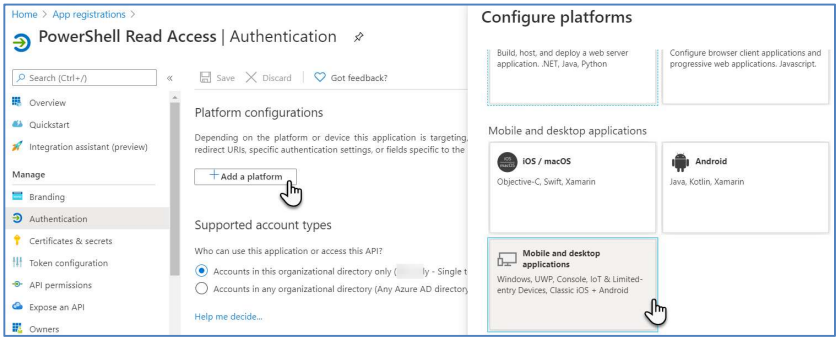


3. Click on **new registration**

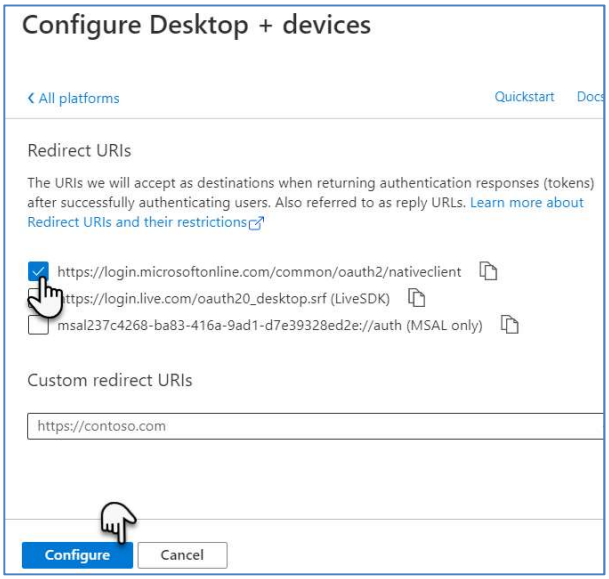
4. Set a name, e.g. ***PowerShell Read Access*** and click on **Register**



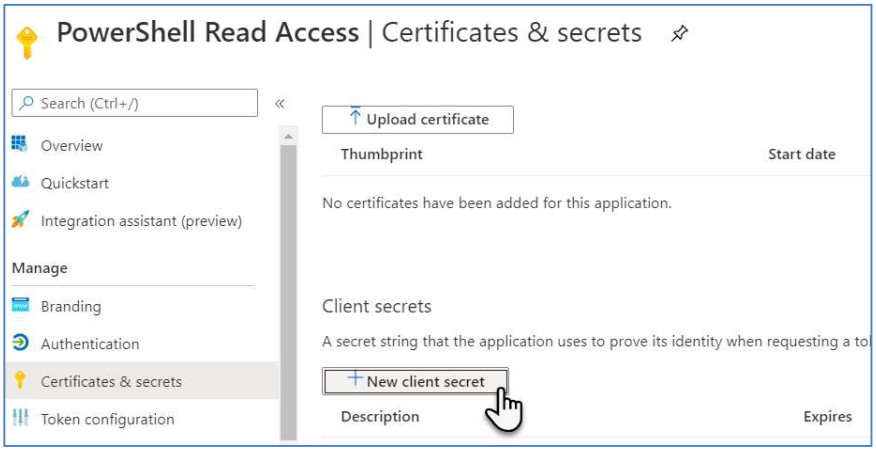
5. In **Authentication** select **Add a platform** and choose **Mobile and desktop applications**



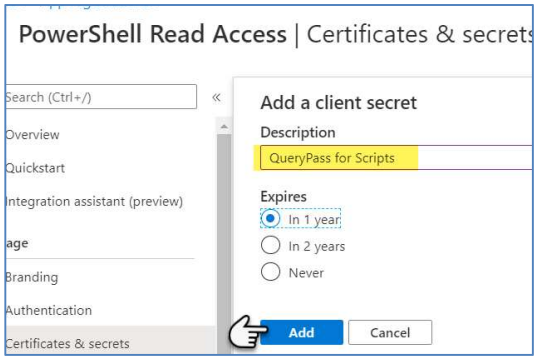
6. Tick the first option "**login.. /oauht2/nativeclient**" and confirm with **configure**



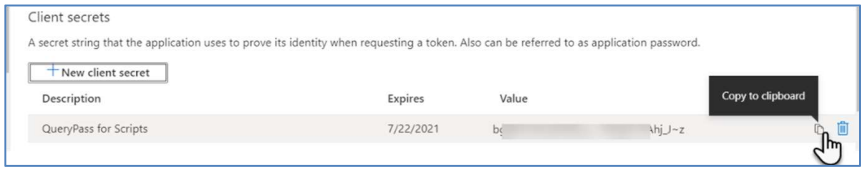
7. In **Certificates & secrets** choose **New client secret**



8. Add a ***description*** and choose an ***expiration time*** and proceed with **Add**.

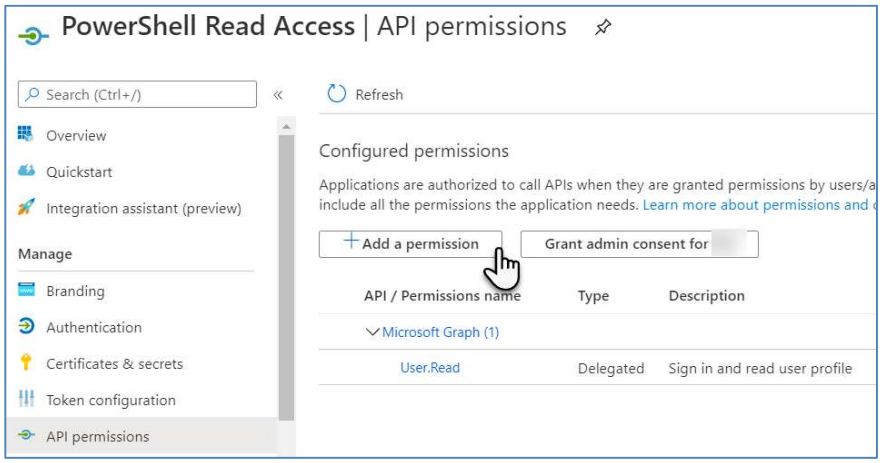


9. **Copy the password to the clipboard and store it into a Password-Safe!**

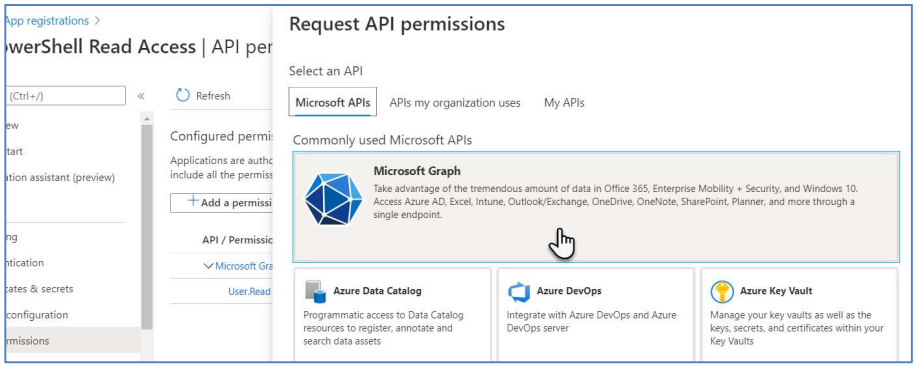


*This password is the **clientSecret** and required when connecting with SCOM Task.*

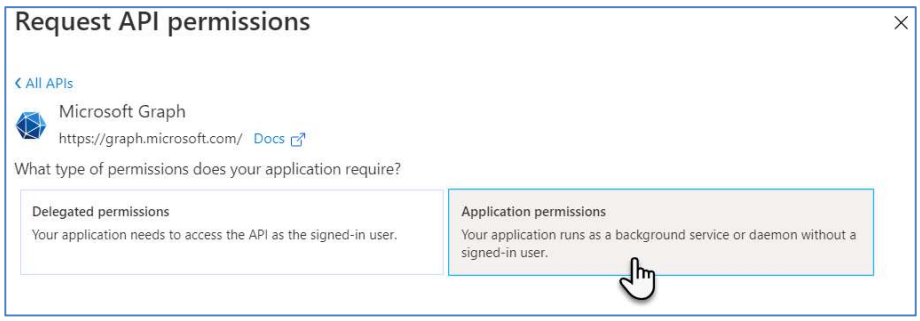
10. Change to **API permissions** and click on **Add permissions**



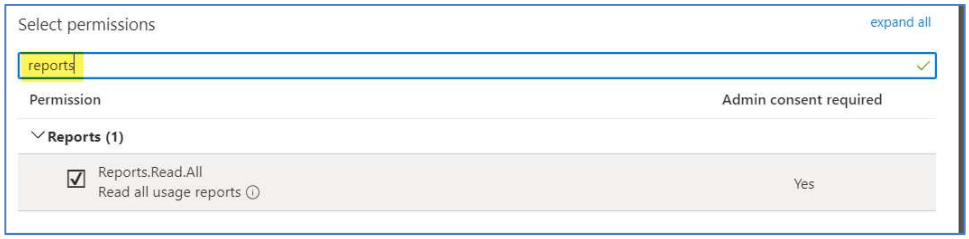
11. Select **Microsoft Graph**



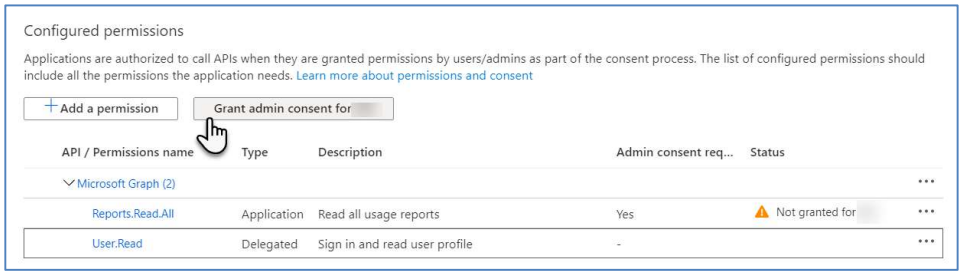
12. Select Application permissions



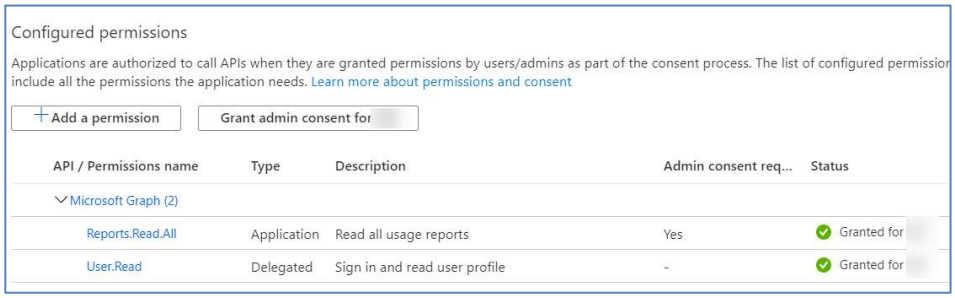
13. Search for reports and select **Reports.Read.All** and others if required.



14. Click on **Grant admin consent for** …



afterwards it should look as below:



15. Note down the client ID (yellow) and the tenant ID (blue-ish) for usage.