|  |  |  |
| --- | --- | --- |
| 1.Create Azure Registration with 3 parameters: Tenant ID, Client ID, Client Secret Key | Keys given by Sylvain | Successful |
| 2.Create a query to call the users, devices, managed device from graph API | Cannot fetch managed devices data. | Sylvain issued a ticket for access |
| 3.Fetching appropriate data | Understanding the requirements. Read about paging. | Meeting required |

1. Implementing without Automation/Logic Apps

Reference: [Using Microsoft Graph API through Power BI – Part 2 - The BI Analyst](https://thebianalyst.com/238/graph-config-postman-powerbi-part2/)

[Authenticate to Graph directly from PowerBI! | Powers Hell (powers-hell.com)](https://powers-hell.com/2021/08/15/authenticate-to-graph-directly-from-powerbi/)

Cons: Client ID, client secret key will be handed over to everyone involved in implementation.

1. Implementing using Logic Apps.

|  |  |  |
| --- | --- | --- |
| 1.Create Azure Registration with 3 parameters: Tenant ID, Client ID, Client Secret Key | Keys given by Sylvain |  |
| 2.Create a logic APP | No access | Final result should look like |
| 3.In Power BI Desktop to create Power Query. |  |  |
| 4.Paging |  | [Handling Pagination with the MS Graph API in Logic Apps and Power Automate – William's IT Blog 🍉 (willpage.dev)](https://willpage.dev/2020/05/26/handling-pagination-with-the-ms-graph-api-in-logic-apps-and-power-automate/) |
|  |  |  |

Reference: [Use Graph API data in Power BI using Logic Apps - JanBakker.tech](https://janbakker.tech/use-graph-api-data-in-power-bi-using-logicapps/)

[Using a custom connector for device management actions in Microsoft Intune – All about Microsoft Intune (petervanderwoude.nl)](https://www.petervanderwoude.nl/post/using-a-custom-connector-for-device-management-actions-in-microsoft-intune/)

[Microsoft Graph API and the Power Platform, the Ultimate guide (sharepains.com)](https://sharepains.com/2023/01/03/microsoft-graph-api-the-power-platform/#Power_Automate_and_the_Microsoft_Graph_API)[USING POWER AUTOMATE]

3.Authenticating using managed identity for Microsoft graph with Logic App

|  |  |  |
| --- | --- | --- |
| 1.Create a Logic App | Need to be global admin |  |
| 2.Add logic App to managed identity |  |  |
| 3.Create HTTP Connector in Logic App designer |  |  |
| 4.Get service principle of Logic app, get graph API,  Get role ID API for managed devices. |  |  |
| 5.POST in graph for authentication. |  |  |
| 6. Pull data into power BI |  |  |

[Using Managed Identity for Microsoft Graph Authentication with Logic App (Real Demo) (youtube.com)](https://www.youtube.com/watch?v=zzwPJ2She84)

[Authenticate Logic Apps against Microsoft Graph using Managed Identity | Your Azure Coach](https://yourazurecoach.com/2023/05/08/authenticate-logic-apps-against-microsoft-graph-using-managed-identity/)

4.Automating Azure reports

|  |  |
| --- | --- |
| 1.Create Azure Automation account | Enable Managed identity |
| 2.Grant API Permissions | * **TenantID**. This is the tenant ID for your tenant. * **GraphAppId**. You do not need to change this. * **DisplayNameofMSI**. The display name of your managed identity, which is the same as the name of your automation account. * **Permissions**. |
| 3.Create Azure notebook and schedule |  |
| 4.Create Storage Container | to store the data files exported from MS Graph. Set the **Public access level** to **private** |
| 5.create a custom role at the storage account level which has just the permissions we need to upload data to the container. Assign this role to the managed identity or run as account of our Azure automation account. |  |
| 6. Data Export to Azure StorageAccount |  |
| 7.Connect Power BI to an Azure storage account data source |  |
| 8.Create power BI Report |  |

References:

[Create an Azure automation runbook | smsagent.blog](https://docs.smsagent.blog/microsoft-endpoint-manager-reporting/automating-data-exports-from-microsoft-graph/azure-automation-account/create-an-azure-automation-runbook)

[Create custom Intune reports with Microsoft Graph, Azure Automation and Power BI (smsagent.blog)](https://smsagent.blog/2021/05/12/create-custom-intune-reports-with-microsoft-graph-azure-automation-and-power-bi/)

[The Model PowerBI Dashboard - Model Technology (model-technology.com)](https://model-technology.com/model-powerbi-dashboard/)