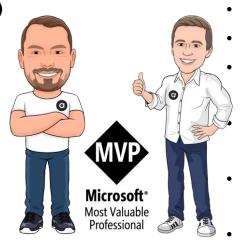


Ahmed Uzejnovic Michael Seidl

- Automation Consultant (4 Years)
- PowerShell & Automation Enthusiast
- Blog
 - https://powershell.works
- GitHub
 - https://github.com/uzejnovicahmed
- LinkedIn/uzejnovicah



Microsoft MVP (since 2015)

Automation Consultant (10+ Years)

Founder, CEO | au2mator

Self-Service Portal for Microsoft Automation

Blog

www.techguy.at | www.au2mator.com

GitHub

github/seidlm | github/au2mator

LinkedIn/SeidIM





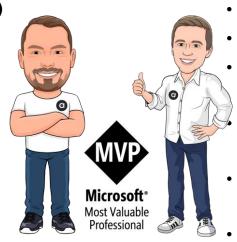






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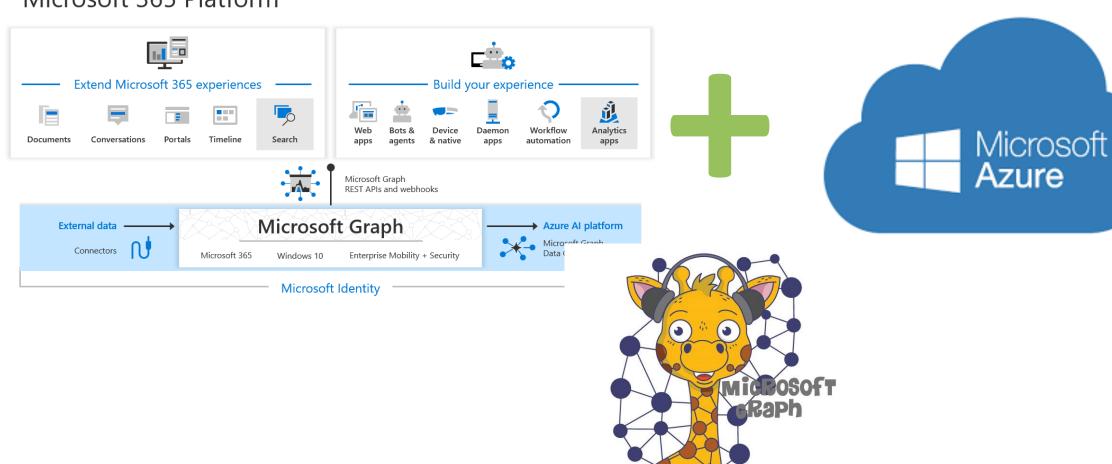
AGENDA

- ✓ INTRO
- GRAPH API BASICS AND AUTHENTICATION
- FILTER / SEARCH / SELECT
- PAGING
- BATCH
- END



ONE API to the Cloud

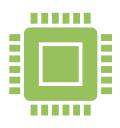
Microsoft 365 Platform



WHY use MS Graph API







No PowerShell Module

OnPrem/Cloud

More Functionality over PS-Module (delay)







Easy language

Unlimited Platforms

One API to all Cloud Services (Future)

HOW to use MS Graph API



REST Call, HTTPS, WEB URL



https://graph.microsoft.com/v1.0/

Users | Groups | Teams | ToDo | Azure App ...
GET, POST, PUT, PATCH, DELETE



Graph Explorer

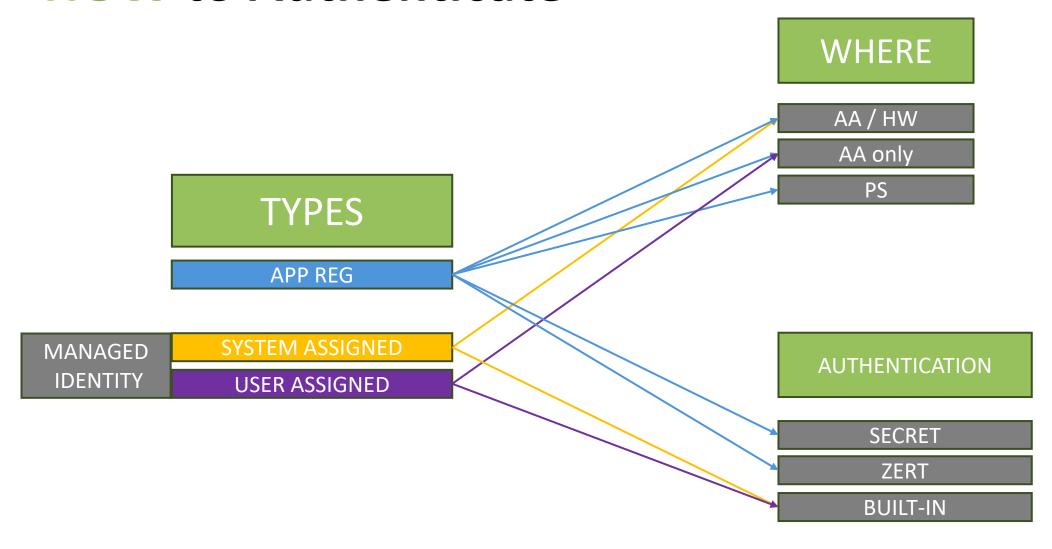


JSON

HOW to Authenticate

- ✓ Azure APP Registration
 - ✓ Client Secret or Certificate
 - ✓ Delegate or Application Permission
- ✓ Managed Identity
 - ✓ System / User Assigned Identity

HOW to Authenticate



HOW to Authenticate



Delegate

- Signed In User

- Effective permission

- User/Admin Consent



Application

- No User

- App Permissions only

- Admin Consent only

GRAPH API BASICS AND AUTHENTICATION

DEMO

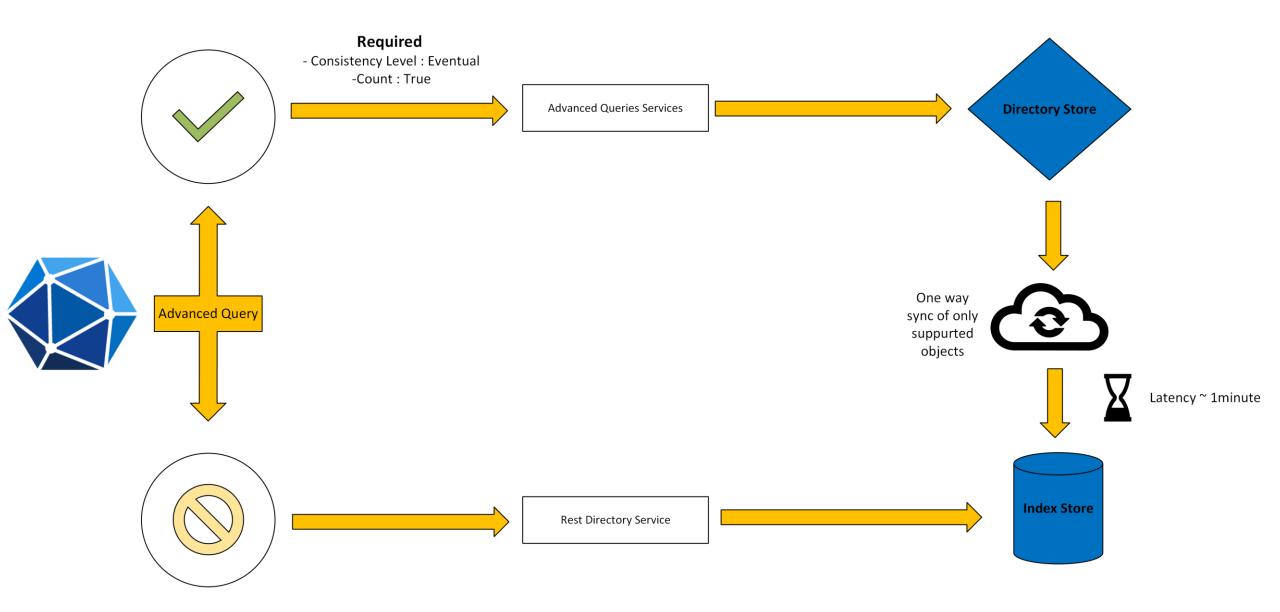
FILTER or SEARCH

- SEARCH only for some Endpoints
 - Endpoints
 - Outlook: Mail or Event
 - SharePoint, OneDrive: driveitem, list, site, drive...
 - Person: mainly User Object
 - Graph Connector Content
 - Admin Search
 - More Properties at once
- FILTER
 - Know the property
 - All Endpoints
 - Advanced Query

FILTER or SEARCH

DEMO

Graph API Advanced Querys



PAGING

Subset of Result

Performance and Load

Implement
Paging from the
Beginning

PAGING

DEMO

BATCH

- Superpower of Performance, Read and Write
- Buy 1, get 20
 - Combine 20 Requests in a single Call
- Sequence
- Throttling and Limits

BATCH

DEMO











END is Near

- Examples on GitHub
- Q&A
- Contact



Silver









Web







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