

PowerShell and MS Graph API demystified

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Microsoft Learn



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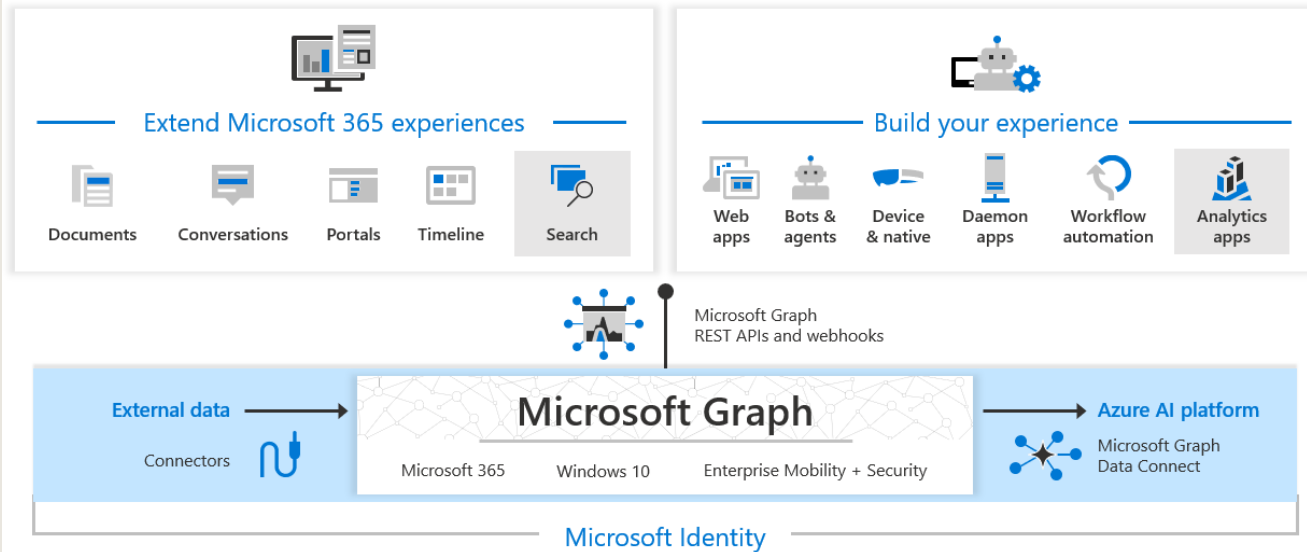


AGENDA

- ✓ Introduction
- MS Graph API
- WHAT, WHY, HOW
- Authenticate
- Examples, Demo, Scripting
- Q&A, 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, HTTP, 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**
- ✓ **System / User - Assigned Identity**

HOW to Authenticate



Delegate

- Signed In User
- Effective permission (User, APP)
- User/Admin Consent



Application

- No User
- App Permissions only
- Admin Consent only

DEMO TIME

MORE

- ✓ Teams Management
- ✓ Endpoint Management
- ✓ Send Mail
- ✓ Azure App Reg, Permissions
- ✓ Entra ID User, Group, Org Management
- ✓ Audit Logs
- ✓ SharePoint
- ✓ Patches
- ✓ ...

END is near

- Examples on GitHub
github.com/Seidlm/Events
- Use MS Graph API to replace deprecated Modules
- Q&A
- Contact
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Michael Seidl

IT Process Automation Expert | define, automate, and delegate your IT Processes with Microsoft Au...



THANK YOU