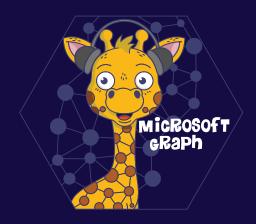








NICROSOFT GRAPH











PowerShell and MS Graph API demystified Michael Seidl



Michael Seidl









- 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





iiii Agenda

MICROSOFT GR/\PH DEVD/\\2023



- ✓ Introduction
- MS Graph API
- WHAT, WHY, HOW
- Authenticate
- Examples, Demo, Scripting
- o Q&A, END











ONE API to the Cloud.

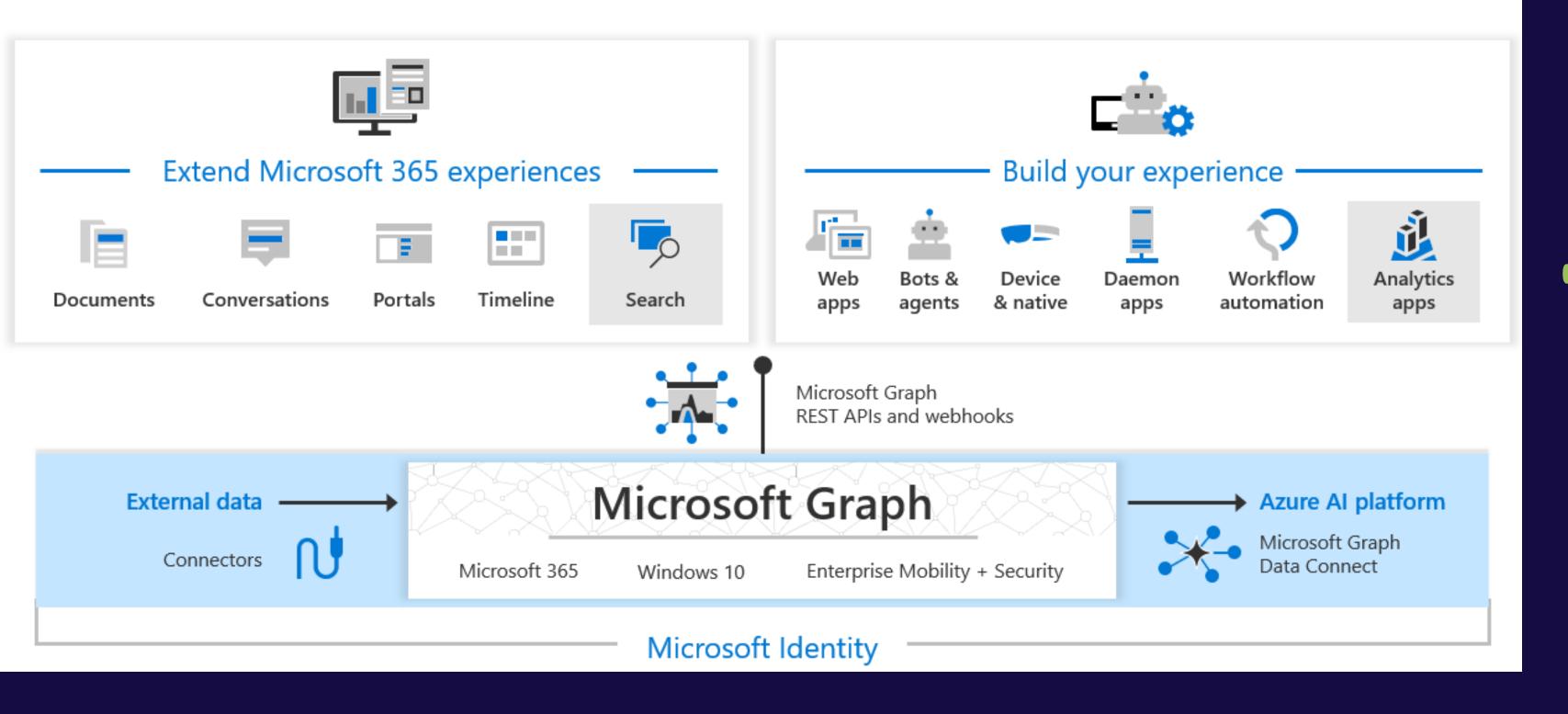








Microsoft 365 Platform









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



HOW to Authenticate











Delegate

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



Application

- No User
- App Permissions only
- Admin Consent only













DEMOTIME





MORE





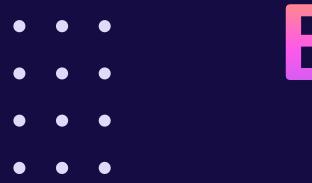




- ✓ Teams Management
- ✓ Endpoint Management
- ✓ Send Mail
- ✓ Azure App Reg, Permissions
- ✓ Entra ID User, Group, Org Management
- ✓ Audit Logs
- √ SharePoint
- ✓ Patches







END is near



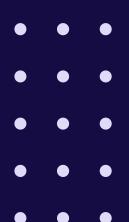






- Examples on GitHub
 github.com/Seidlm/Events
- Use MS Graph API, and soon deprecated Modules
- Q&A
- Contact
 LinkedIn/seidlm













THANKYOU



