

An abstract graphic on the left side of the slide. It features a blue silhouette of a person standing with arms slightly out. Several thick, curved lines in various shades of blue, green, and purple flow around the person, creating a sense of movement and connectivity. The lines start from the left and curve upwards and then downwards towards the bottom right.

# PowerShell and MS Graph API demystified

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# Michael Seidl



- Microsoft MVP (since 2015)
- Automation Consultant (10+ Years)
- Founder, CEO | au2mator
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- GitHub: [github/seidlm](https://github.com/seidlm) | [github/au2mator](https://github.com/au2mator)
- [SeidIM @](#)   



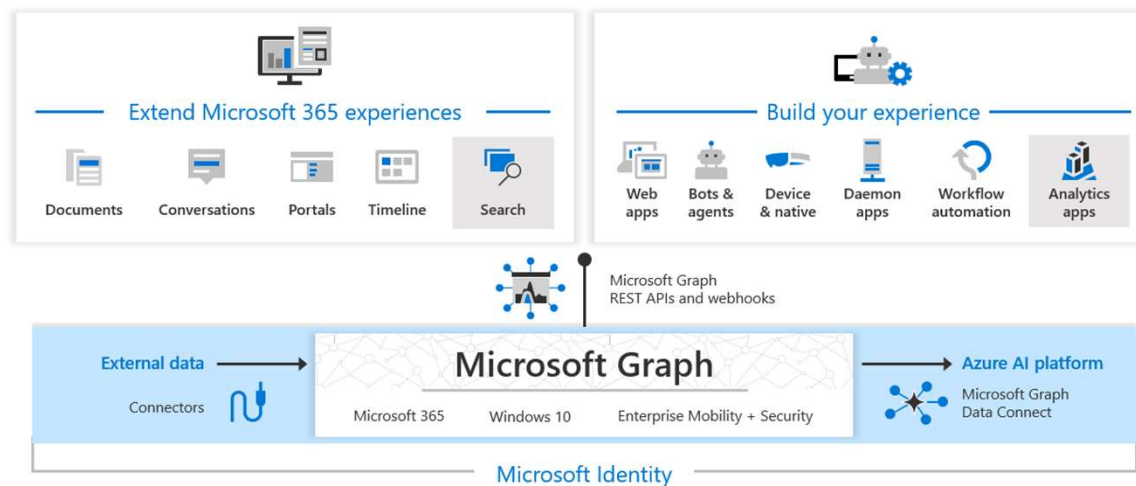
# AGENDA

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

# WHAT IS MS GRAPH API

## ONE API to the CLOUD

### Microsoft 365 Platform





# WHY use MS Graph API

- No PowerShell Module
- OnPrem/Cloud
- More Functionality over PS-Module
- 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



# Authenticate

- Azure APP Registration
- Client Secret or Certificate
- Delegate or Application Permission



# Delegate or Application

## Delegate

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

## Application

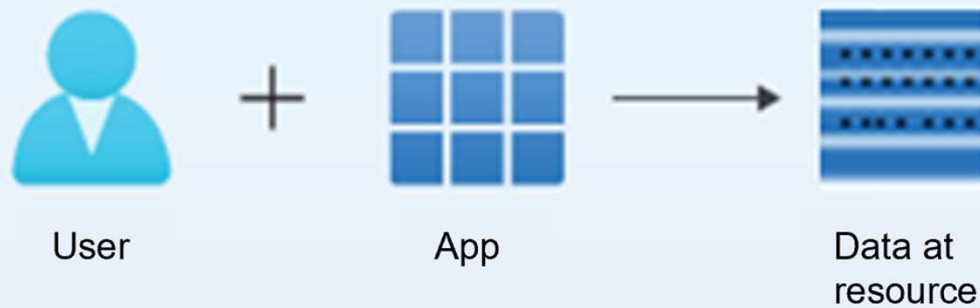
- No User
- App Permissions only
- Admin Consent only





# Delegate or Application

## Delegated access



**“Access on behalf of a user”**

## App-only access



**“Access without a user”**



DEMO TIME



# MORE

- Teams Management
- Endpoint Management
- Audit Logs
- Send Mail
- Azure App Reg, Permissions
- AAD User Group, Orgmanagement
- Sharepoint
- Patches
- .....



# END is near

- Examples on GitHub
  - <https://github.com/Seidlm/Events>
- Use MS Graph API
- Q&A
- Contact
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# Thank You!

