

### Sponsors



















Dublin25

01-04 DECEMBER

Collaborator







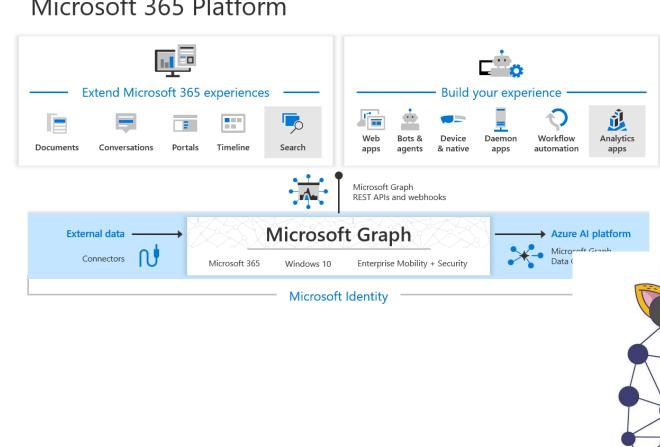
### Agenda

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

✓ System / User - Assigned Identity



#### HOW to Authenticate



### Delegate

- Signed In User
- Effective permission
- User/Admin Consent



### Application

- No User

- App Permissions only
- Admin Consent only



#### TIME to be a GRAPH API HERO

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



#### PAGING

- Subset of Result
- Performance and Load
- Implement Paging from the Beginning



#### PAGING



#### FILTER & SEARCH

- 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



#### FILTER & SEARCH



#### SELECT

- Get what you want and need
- Performance and Load
- Additional Properties



#### SELECT



#### BATCH

- SuperPower of Performance, Read and Write
- Buy 1, get 20
- Sequence
- Throttling and Limits



#### BATCH







