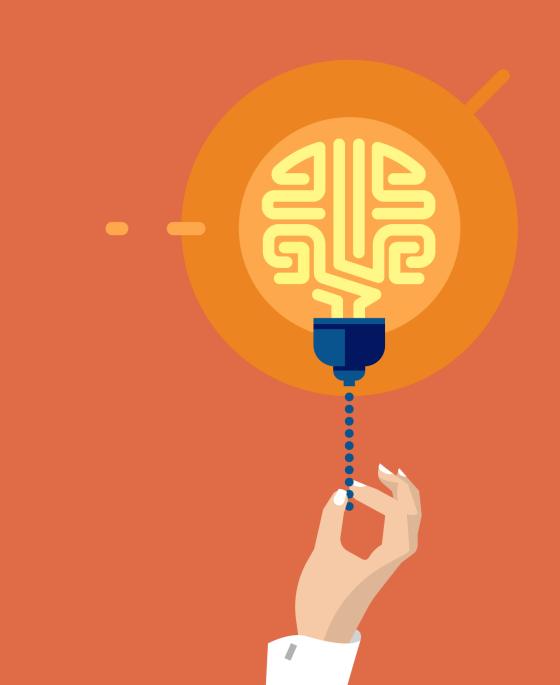
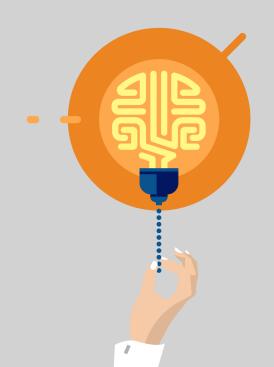


Two graphs and a chatbot

Roman Broich, Cloud Solution Architect



Introduction demo scenario



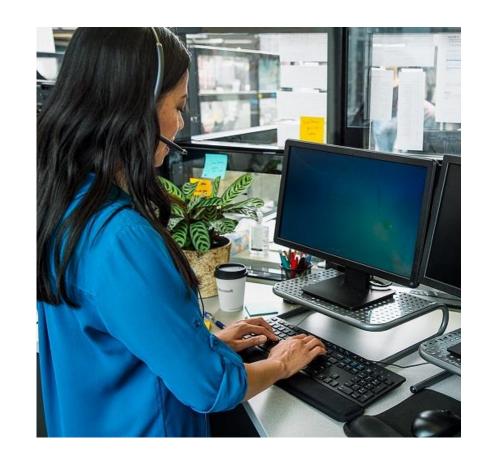
Demo busines scenario description

Business context

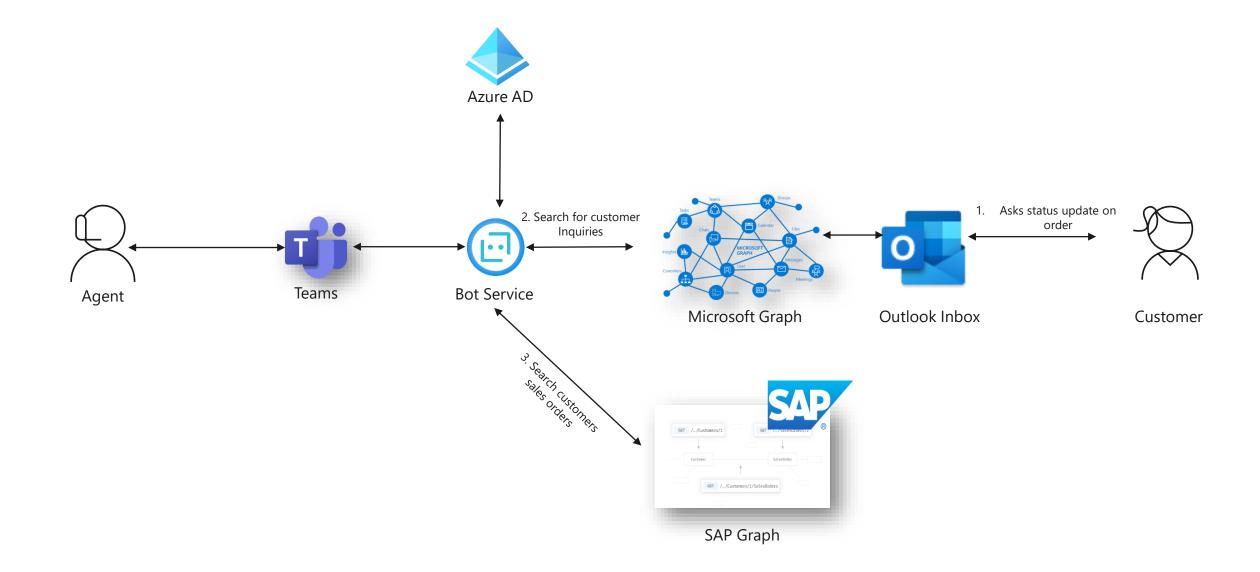
- Frontline worker with Microsoft Teams as single userinterface
- Access to Office365 and SAP via Teams
 - · Read Outlook Inbox
 - · Search for SAP Sales Orders
- · Guided interactions and workflow via Chatbot

Simple demo scenario

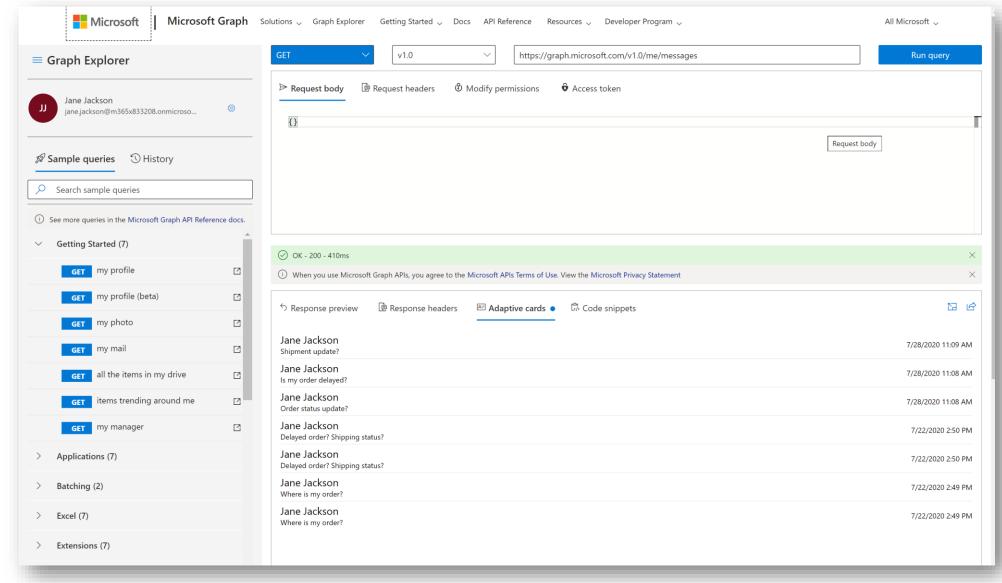
- Agent searches in the Outlook inbox for customer complaint about delayed orders via Chatbot
- Agent searches for corresponding SAP sales orders via customer name via Chatbot



Demo busines scenario description

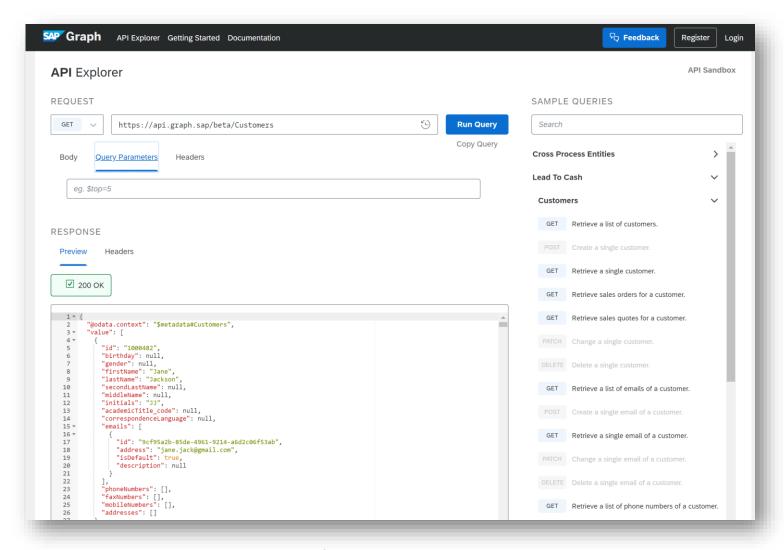


Microsoft Graph



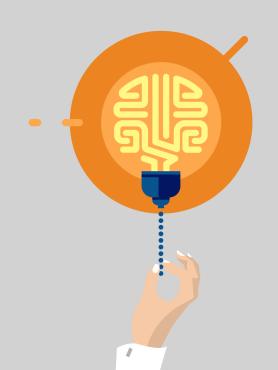
https://developer.microsoft.com/en-us/graph/graph-explorer

SAP Graph (Beta)



https://developer.microsoft.com/en-us/graph/graph-explorer

Technical setup



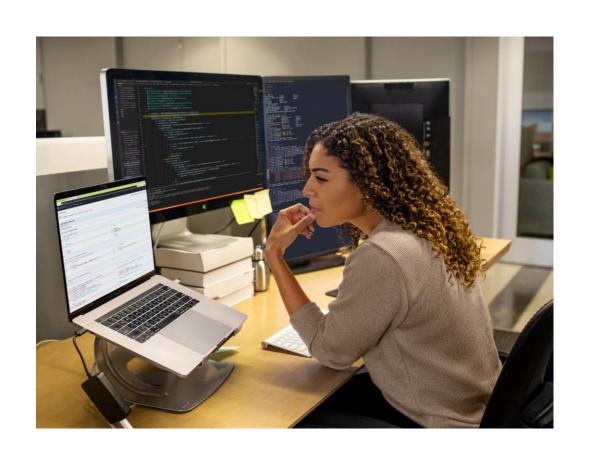
Development tools and tutorials

Development environment and tools

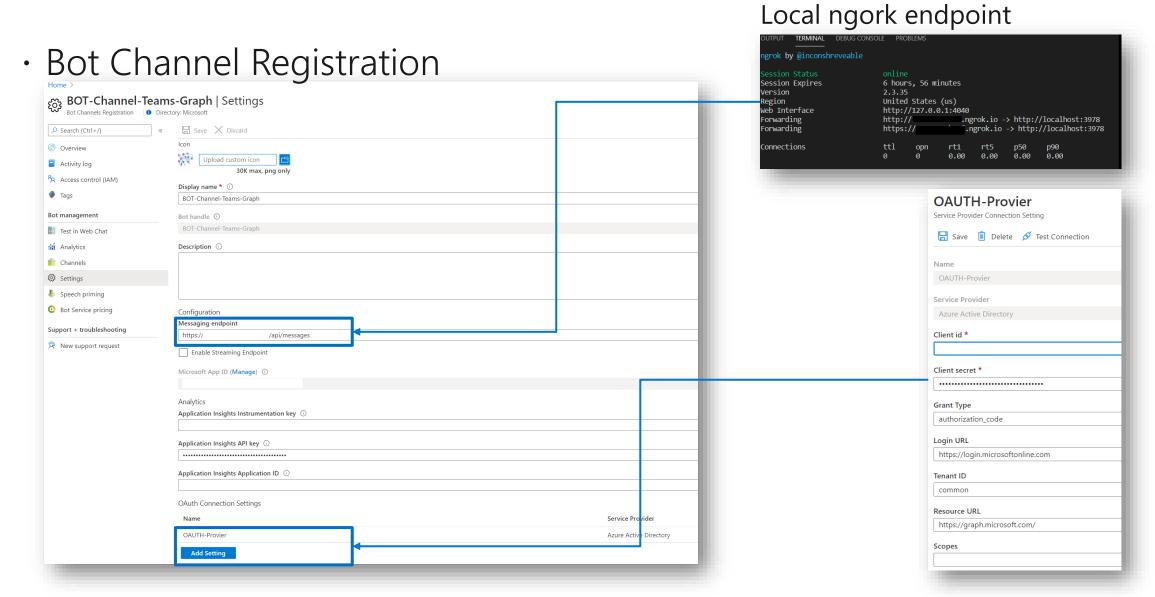
- Visual Studio Code (Link)
- · Git Client (Link)
- NGORK Client (<u>Link</u>)
- Bot Framework Emulator (<u>Link</u>)
- Bot Builder samples (<u>Link</u>)
- Microsoft 365 developer sandbox (<u>Link</u>)
- Teams App Studio (<u>Link</u>)

Samples and tutorials used

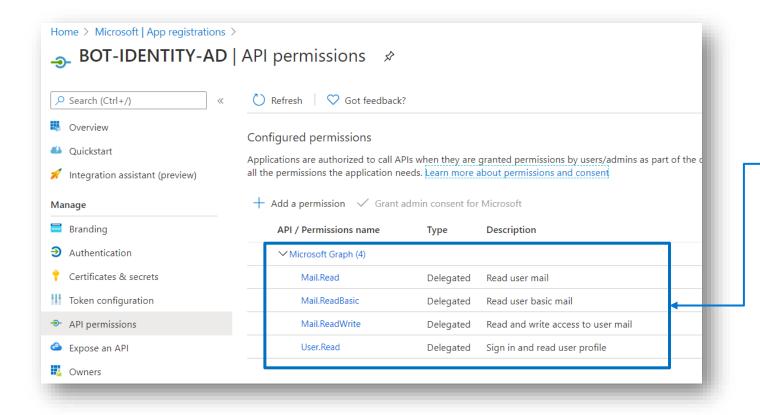
- · Bot builder samples:
 - · 24. MSGraph authentication
 - · 46. Teams authentication
- Add authentication to your Teams bot (<u>Link</u>)
- Quickly develop apps with App Studio for Microsoft Teams (<u>Link</u>)

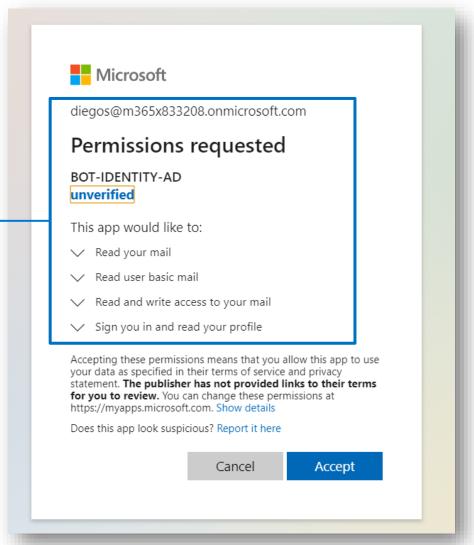


Azure – Bot channel registration



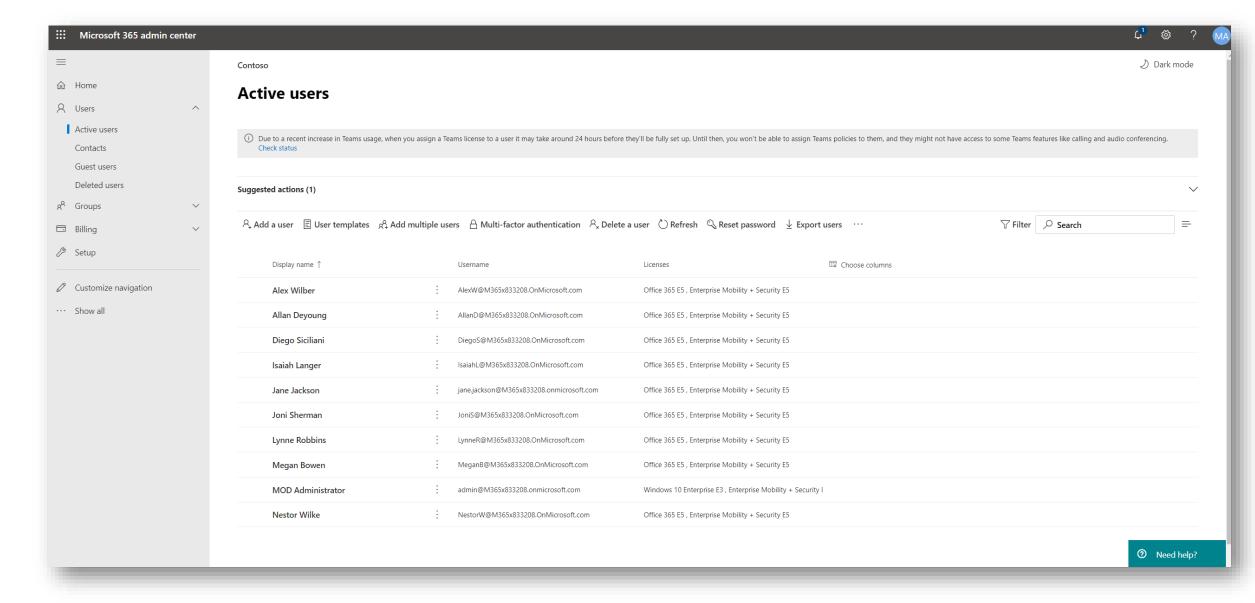
Azure – OAuth permission for MS Graph



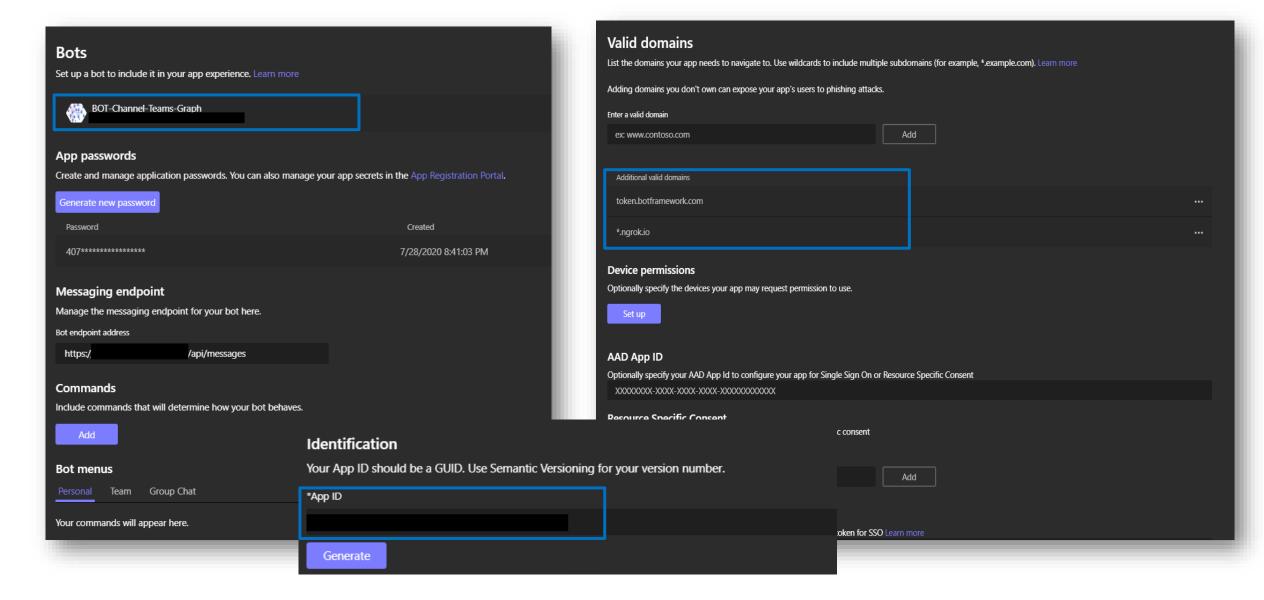


Admin approval required! (Use MS 365 development tenant)

Microsoft 365 development tenant for test users



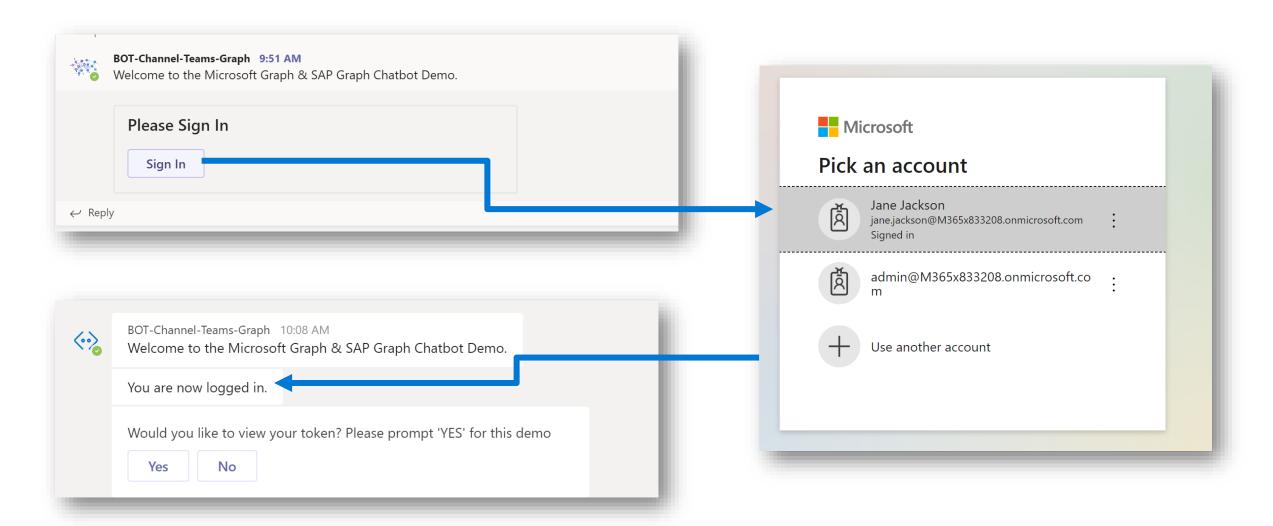
Teams App Studio configuration



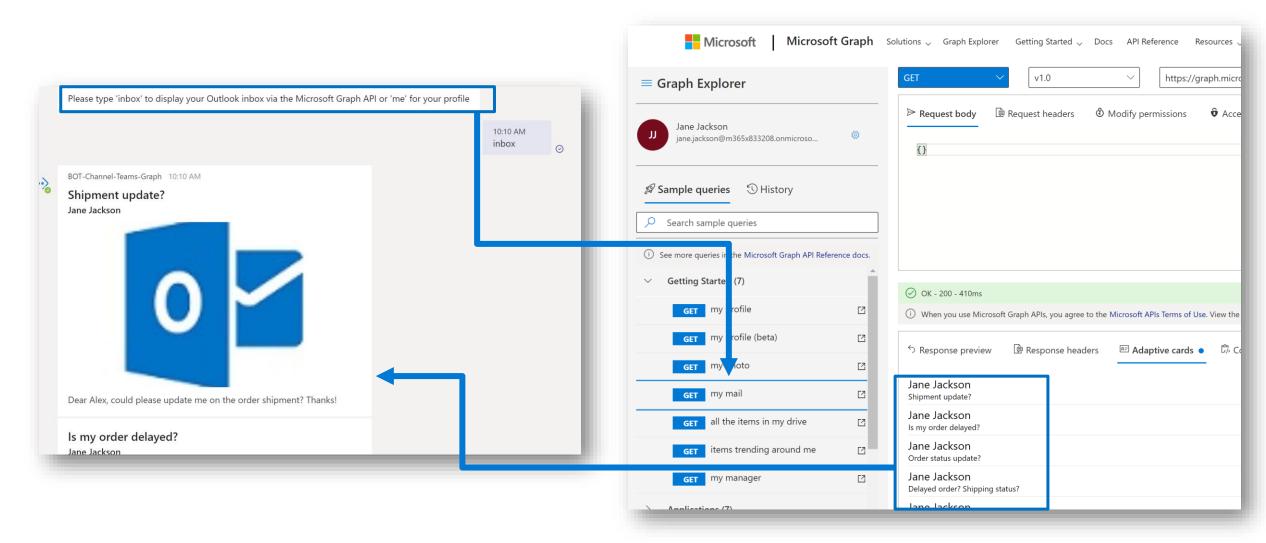
Demoflow and used APIs



Demo flow – Azure AD logon

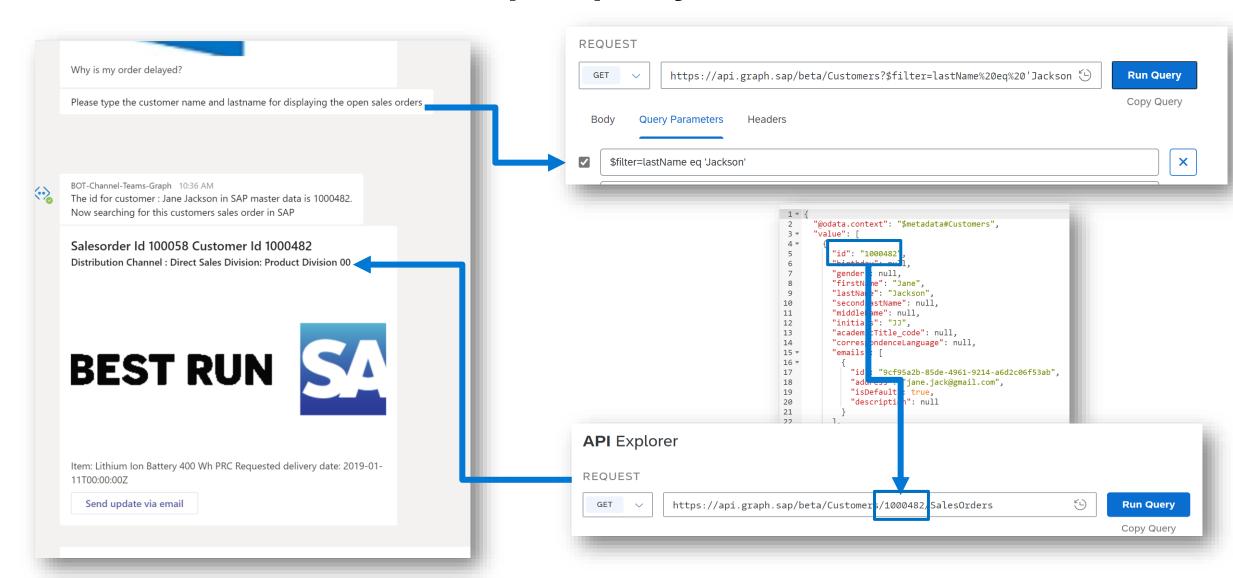


Demo flow – MS Graph query

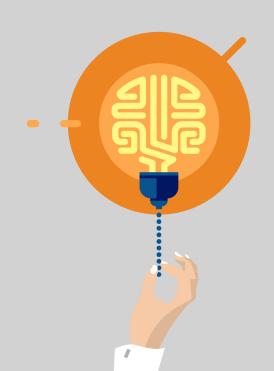


https://developer.microsoft.com/en-us/graph/graph-explorer

Demo flow – SAPP Graph query



Next steps & Open items



ToDo's & Next steps

- · SAP Graph (Beta) with currently public Bearer token (Only)
- Improve adaptive cards layout
- · Implement Microsoft Graph Search API to search beyond Inbox



Roman Broich

Cloud Solution Architect

Roman.Broich@microsoft.com - linkedin.com/in/roman-broich/