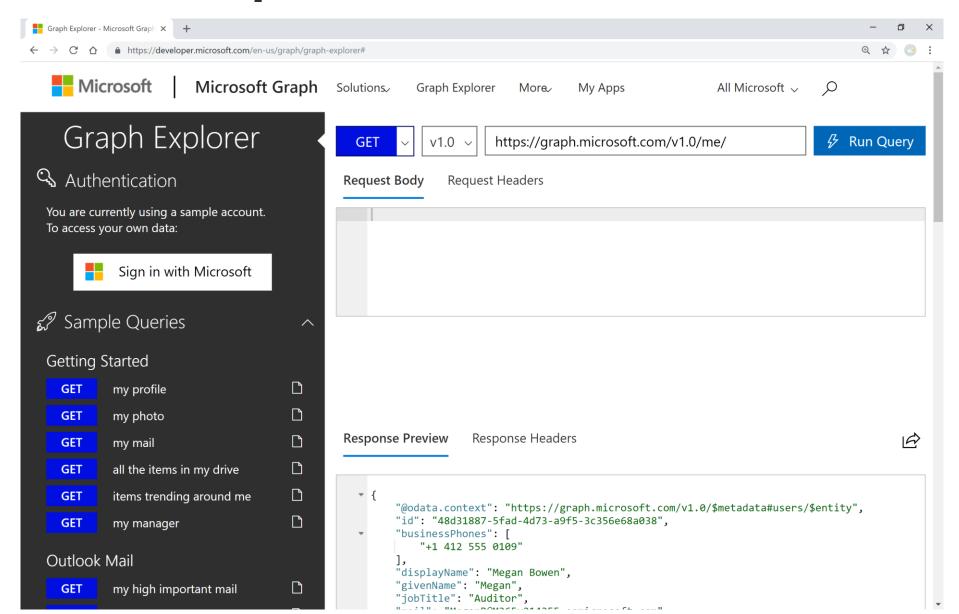


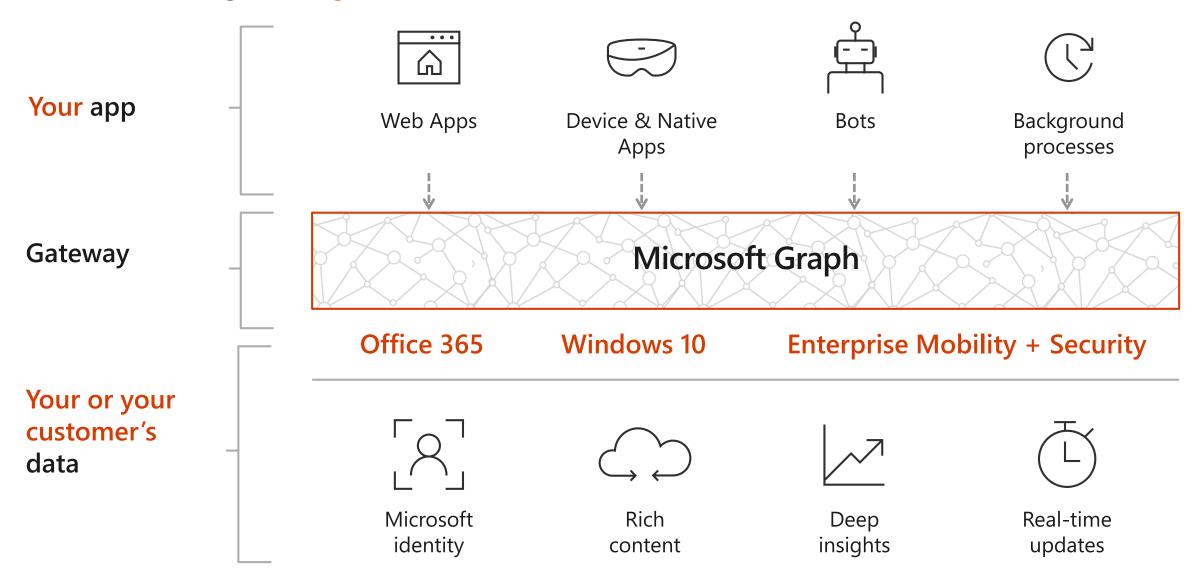
#### Adding custom intelligence to Microsoft Graph

Mark Stafford

#### Microsoft Graph: the API for M365



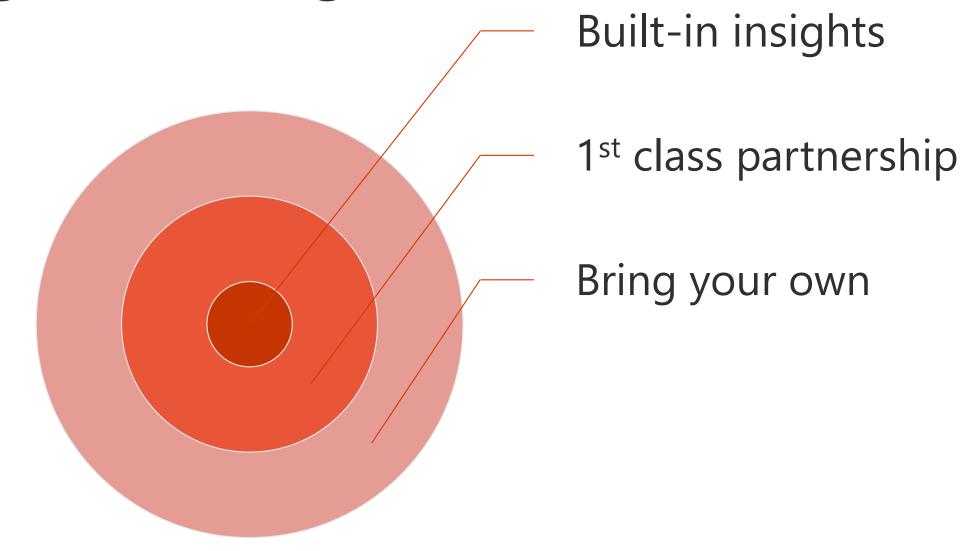
#### Gateway to your data in the Microsoft cloud



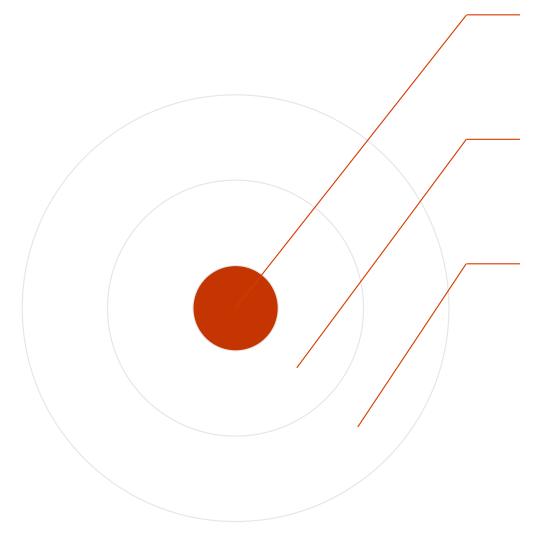
#### Problem

Microsoft Graph has tons of data... but how do we add intelligence?

### Intelligence strategies



## Intelligence strategies



#### **Built-in insights**

1<sup>st</sup> class partnership

Bring your own

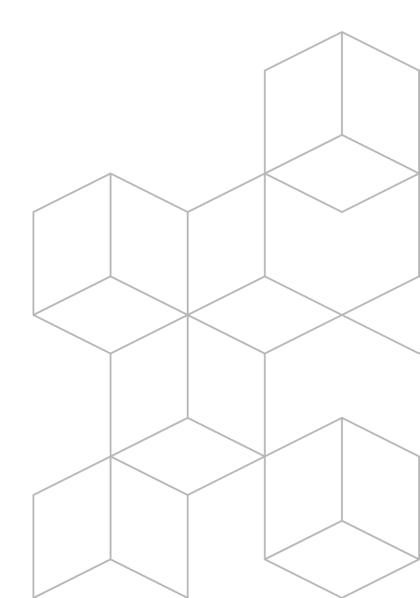
#### **Built-in insights**

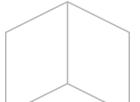
- · O365
  - · People
  - Insights
- Enterprise Mobility + Security
  - Security API
- Windows
  - Spatial Analytics





# Harnessing the power of the Intelligent Security Graph





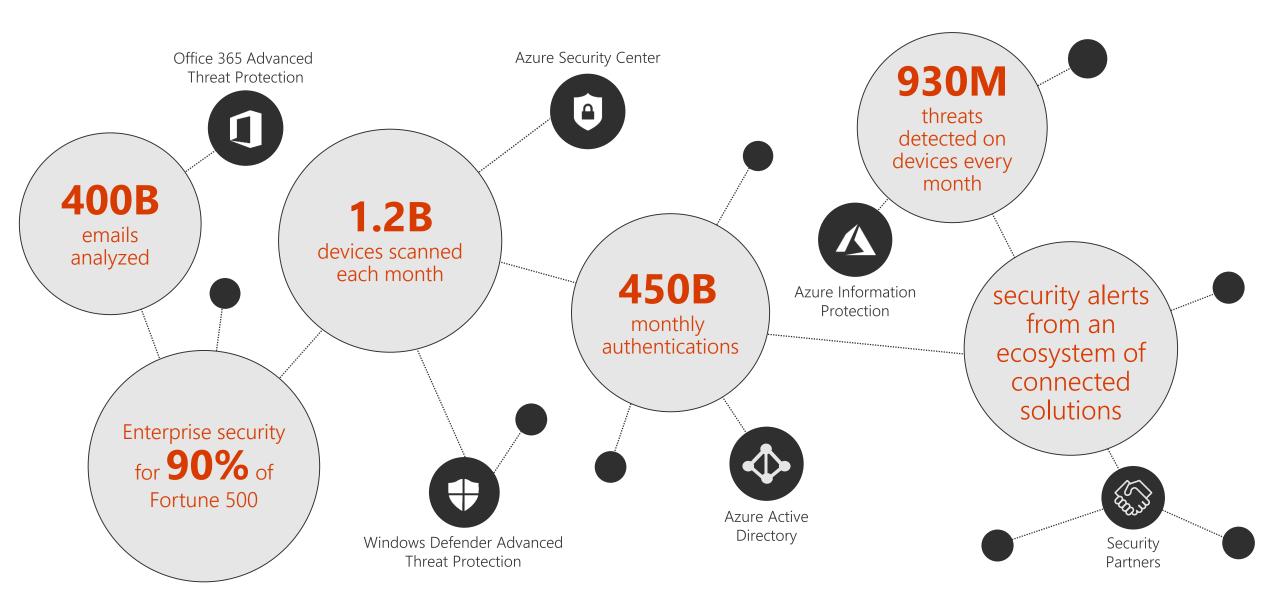
## The digital estate





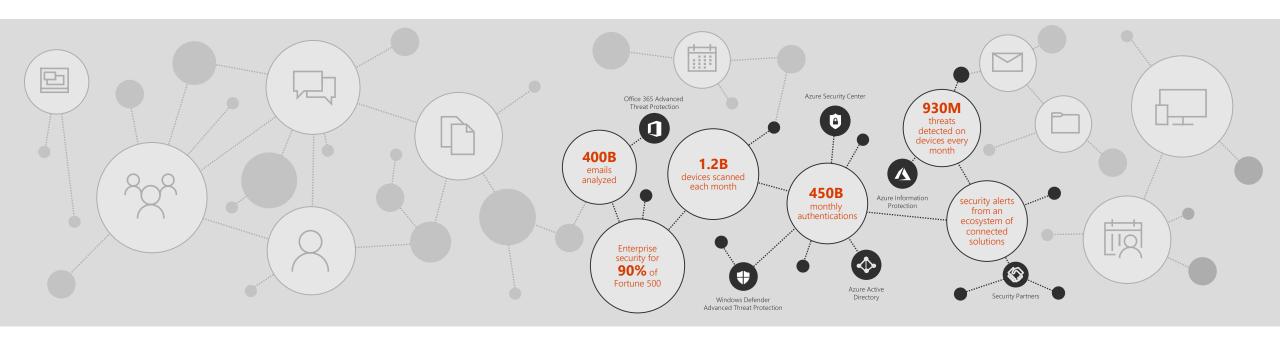


#### Security intelligence powered by trillions of signals



#### Now accessible through Microsoft Graph

Gateway to your data in the Microsoft cloud



Apps

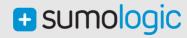
Security applications

ANOMALI



SIEM + log analytics splunk>

IRM

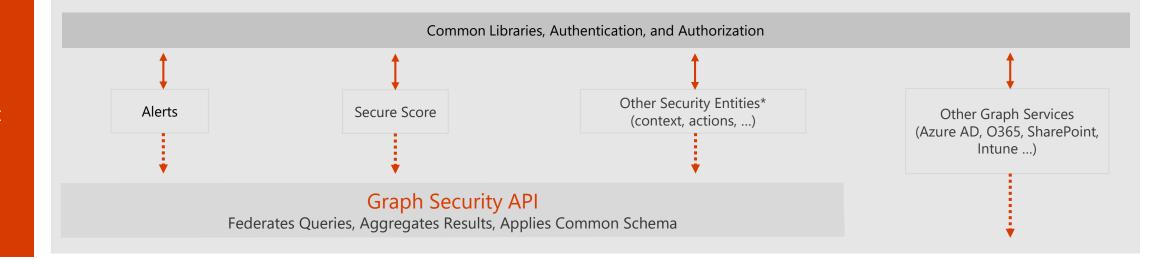






Your custom app

Microsoft Graph



Security **Providers**  Windows Defender ATP

Office 365 ATP

Azure ATP

Azure AD Identity Protection

Cloud Application Security

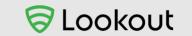
**Azure Security** Center

Azure Info Protection

Intune











## Microsoft Intelligent Security Association

## Collaboration strengthens protection

Teaming up with our security partners to build an ecosystem of intelligent security solutions that better defend against a world of increased threats









































#### Microsoft Graph Security API

Unified access to security insights and actions across Microsoft products, services, and partners







Streamline alert correlation and management

Unlock context to inform security operations

Simplify orchestration and automation

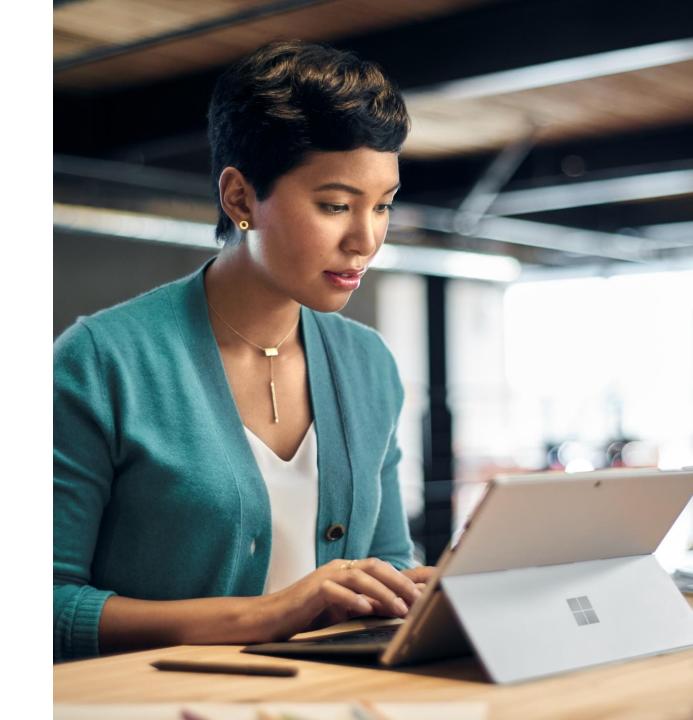
## Secure Score

Understand your Microsoft security position and get guidance on how to improve it

Visibility into Office 365, EMS, and Windows 10 security posture

Learn what security features are available to reduce risk while helping you balance productivity and security

View 90 days of historical data on controls used and score





Leverage all the sophistication of Microsoft's security platform to identify risky users

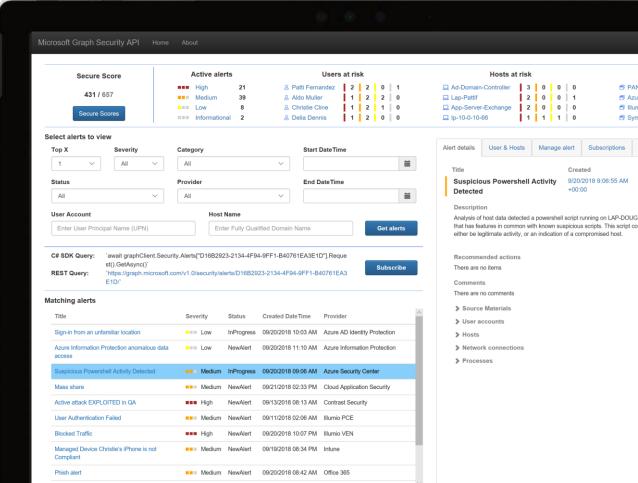
Use filtered queries to get all risky users or just users with a high level of risk; augment filters with other context

Subscribe to notifications for all new or updated risky users matching your criteria

Take action on risky users by using the full context of Microsoft Graph – enforce policies, disable devices, etc



# Demo Graph Security API



#### Technical resources

#### **Documentation**

Review the documentation <a href="https://aka.ms/graphsecuritydocs">https://aka.ms/graphsecuritydocs</a>

Learn how to stream alerts to your SIEM <a href="https://aka.ms/graphsecuritySIEM">https://aka.ms/graphsecuritySIEM</a>

Read the white paper: <a href="https://aka.ms/graphsecuritywhitepaper">https://aka.ms/graphsecuritywhitepaper</a>

#### Code

Code samples: <a href="https://aka.ms/graphsecurityapicode">https://aka.ms/graphsecurityapicode</a>

Download SDKs <a href="https://aka.ms/graphsecuritysdk">https://aka.ms/graphsecuritysdk</a>

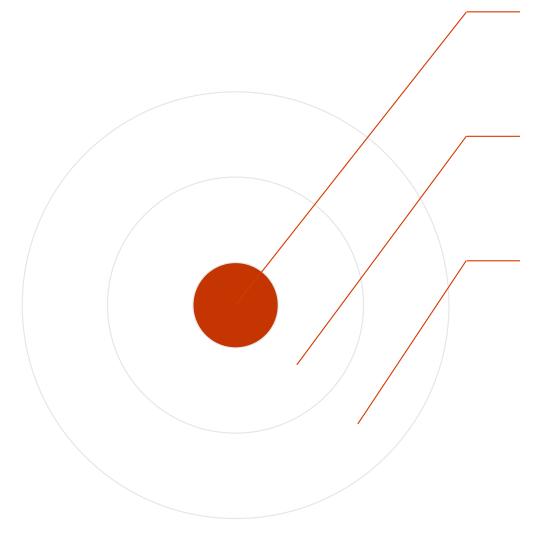
Explore in Microsoft Graph <a href="https://developer.microsoft.com/en-us/graph/graph-explorer">https://developer.microsoft.com/en-us/graph/graph-explorer</a>

#### Communities

Join the Tech Community <a href="https://aka.ms/graphsecuritycommunity">https://aka.ms/graphsecuritycommunity</a>

Follow the discussion on Stack Overflow <a href="https://stackoverflow.com/questions/tagged/microsoft-graph-security">https://stackoverflow.com/questions/tagged/microsoft-graph-security</a>

## Intelligence strategies

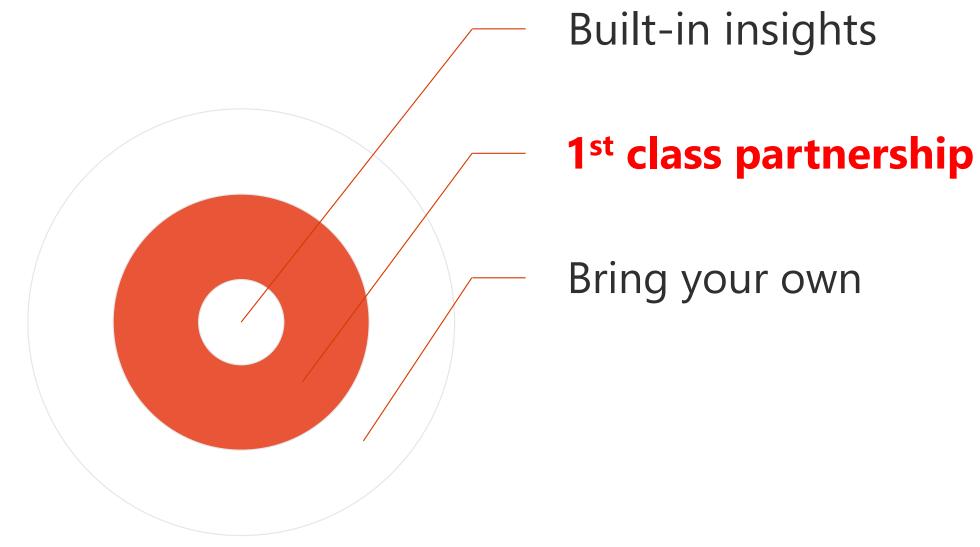


#### **Built-in insights**

1<sup>st</sup> class partnership

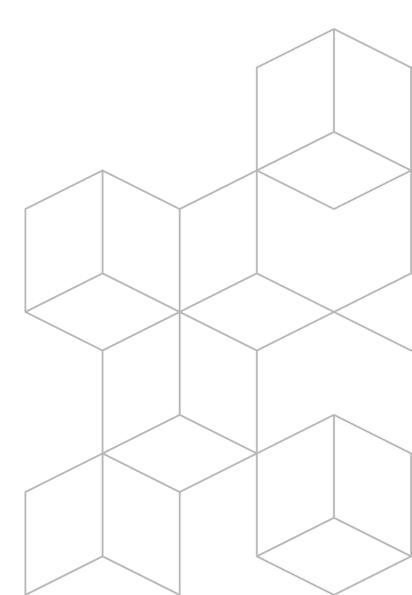
Bring your own

## Intelligence strategies





# Getting started with Microsoft Intelligence Platform





#### What are customers trying to do?

Top sales performer behavior

Opportunity health analysis

**Connect me to an expert** 

Engage customers Transform products

Organization data management

Automate legal case billing

Build product Q&A and FAQs

Detect fraud communication pattern

Drive change programs to adopt M365

Automate knowledge base creation

Optimize operations



**Digital** 

**Transformation** 

Empower employees

Customized employee training

Identify skills gaps in your org

**Effectiveness of D&I training** 

## **Analytics & Insights on Organizational Data**



Data access @ scale

is expensive, requiring complicated ETL engineering pipelines



Data Privacy

is difficult given limited administrative controls and inflexible consent model



Data Governance & Security

is reinvented by each application, with no common patterns for developers

#### Microsoft Graph data connect

Secure data platform enabling Analytics and Insights for Microsoft 365



Data access @ scale

Dataset based access rather than real time

API based access



Data Privacy

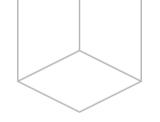
Row and column level scoping with advanced filtering capability



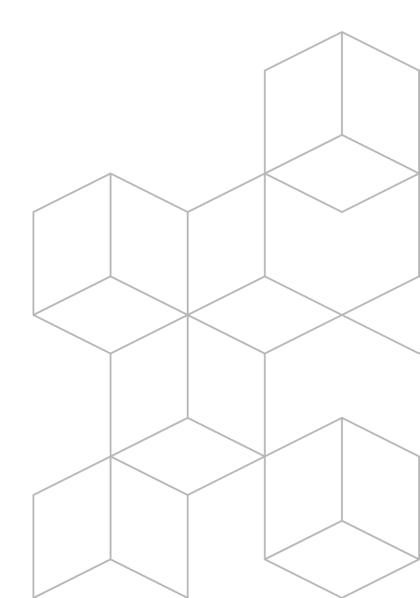
Data Governance & Security

Data controller has visibility over data throughout its entire lifecycle





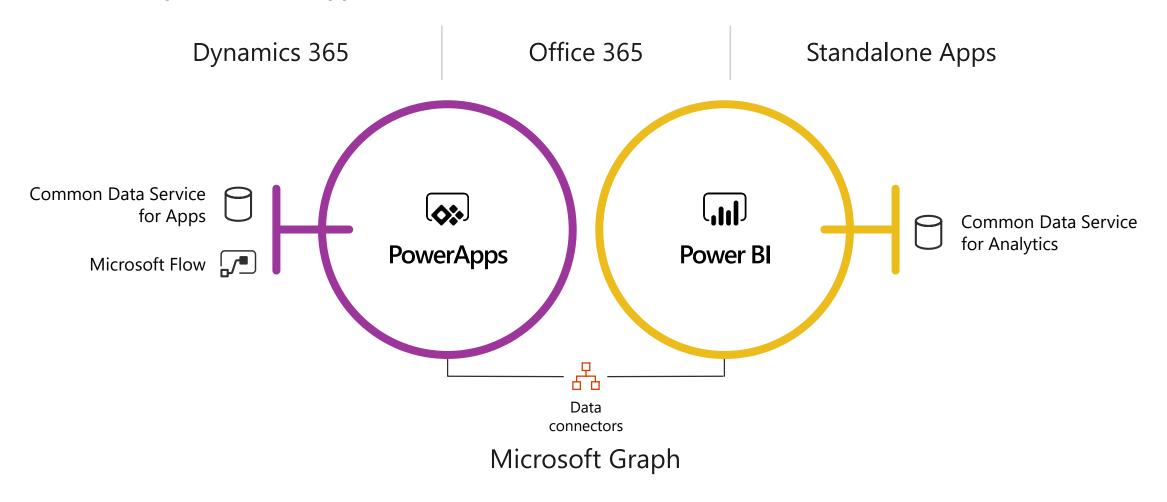
## PowerApps for citizen developers



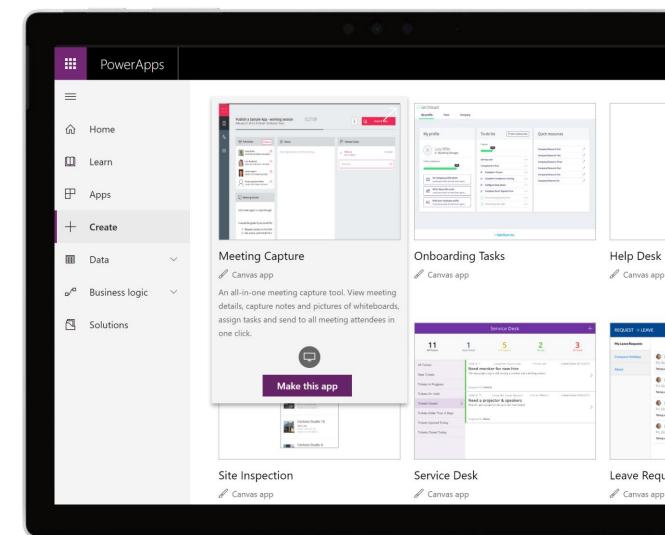


#### **Empowering Citizen Developers**

Microsoft Graph ♥ Business Application Platform



## Demo PowerApps



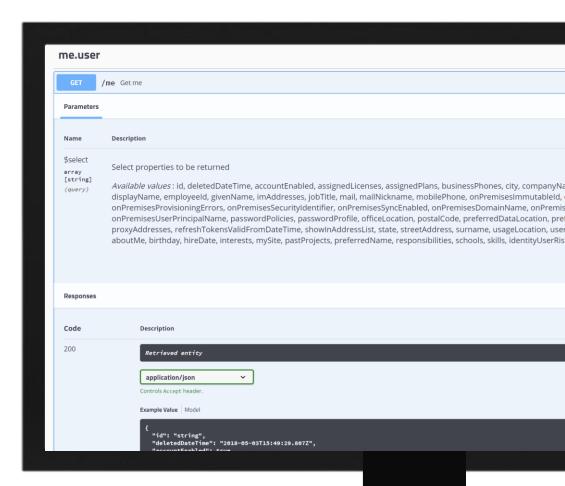
## First look: OpenAPI 3.0 (fka Swagger)

Most common API description format

Describes "first level" of Graph

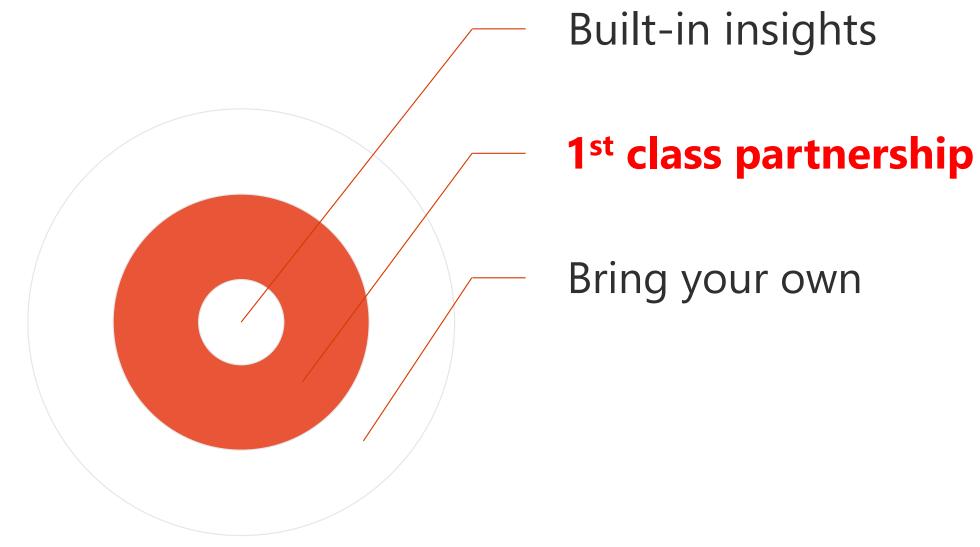
Use in any tool that supports OAS 3.0

Available by July for all Graph versions (~/api-docs)

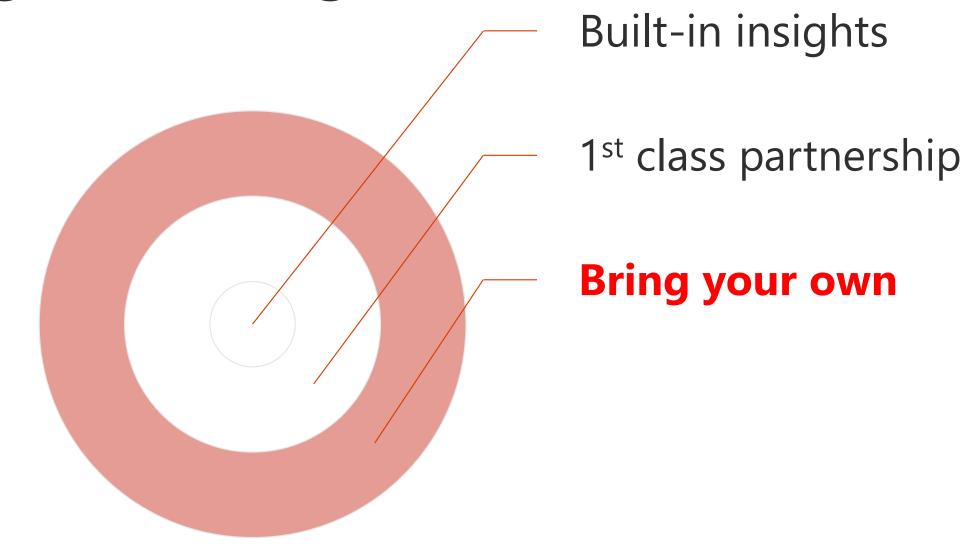


https://github.com/microsoftgraph/microsoft-graph-openapi

## Intelligence strategies



### Intelligence strategies



#### Microsoft Graph promise

https://graph.microsoft.com

#### **ALL**

Your data across Microsoft 365

Office 365 Windows 10

**EMS** 

#### ALL

Types of users

Corporate (@fabrikam.com)

Consumer (@outlook.com)

#### ONE

Way to access it

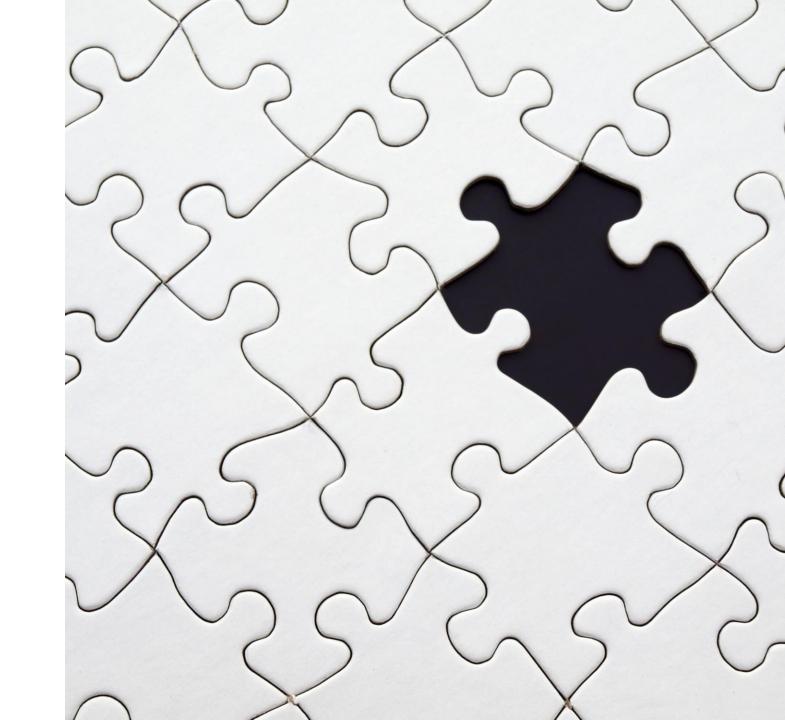
One endpoint

One auth key

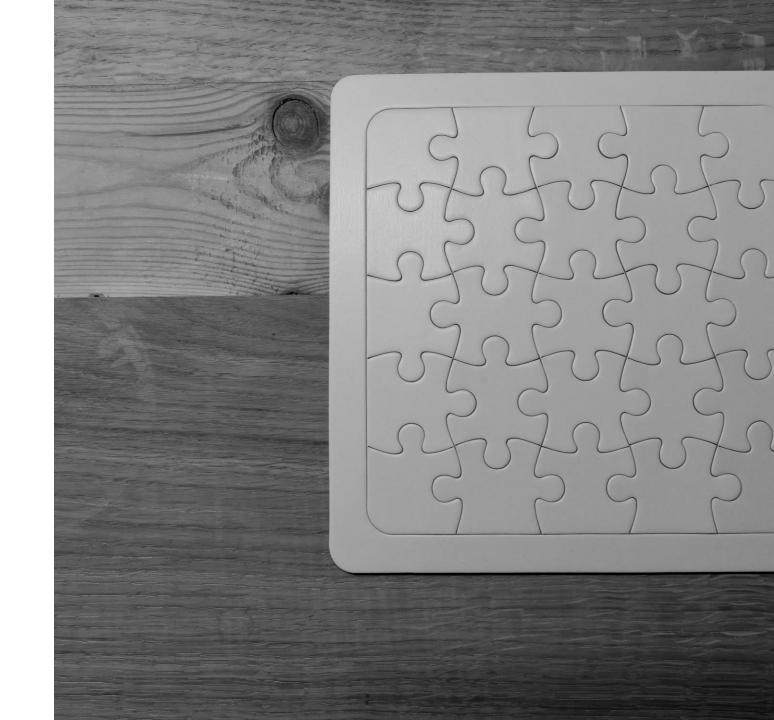
One set of docs

One SDK

Graph will rarely be 100%



Supplement with other data and intelligence



## Microsoft Graph

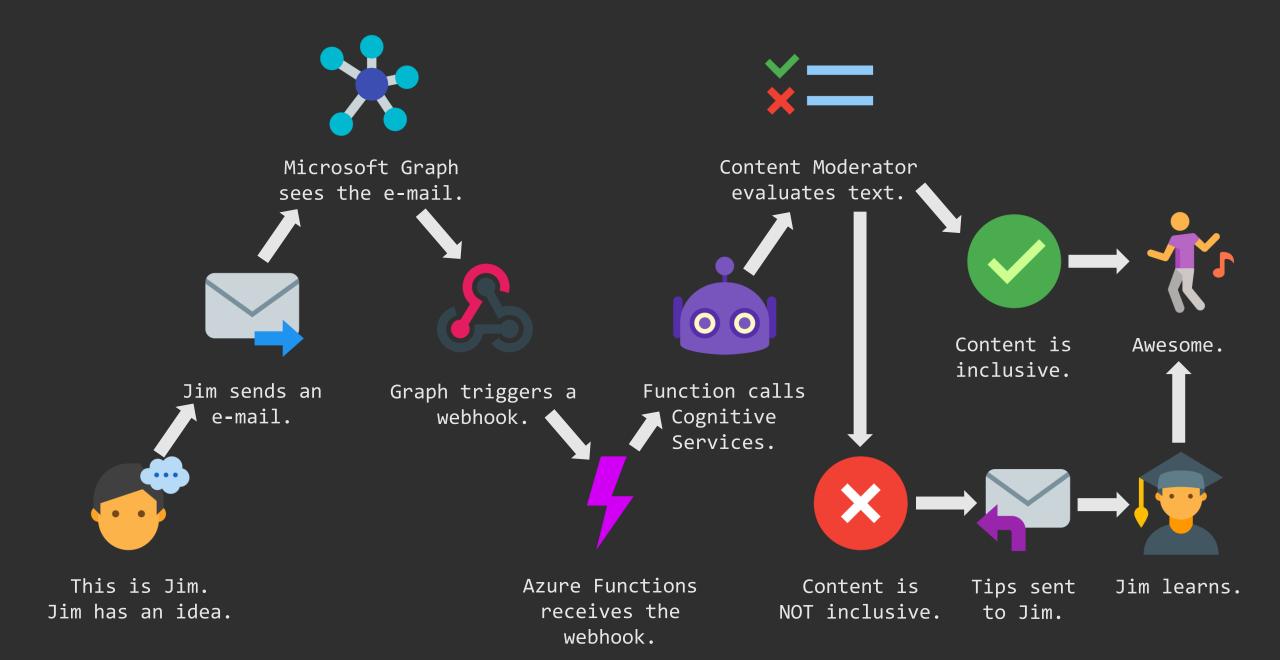


# Cognitive Services

"There exists, for everyone, a sentence - a series of words - that has the power to destroy you. Another sentence exists, another series of words, that could heal you."

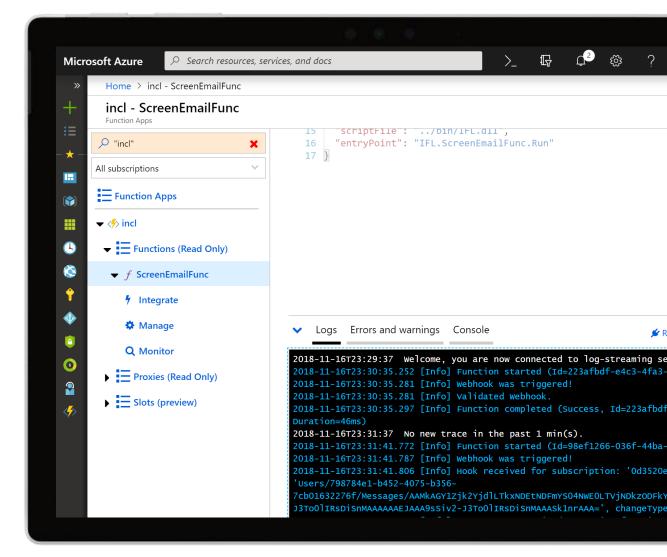
— Philip K. Dick, VALIS



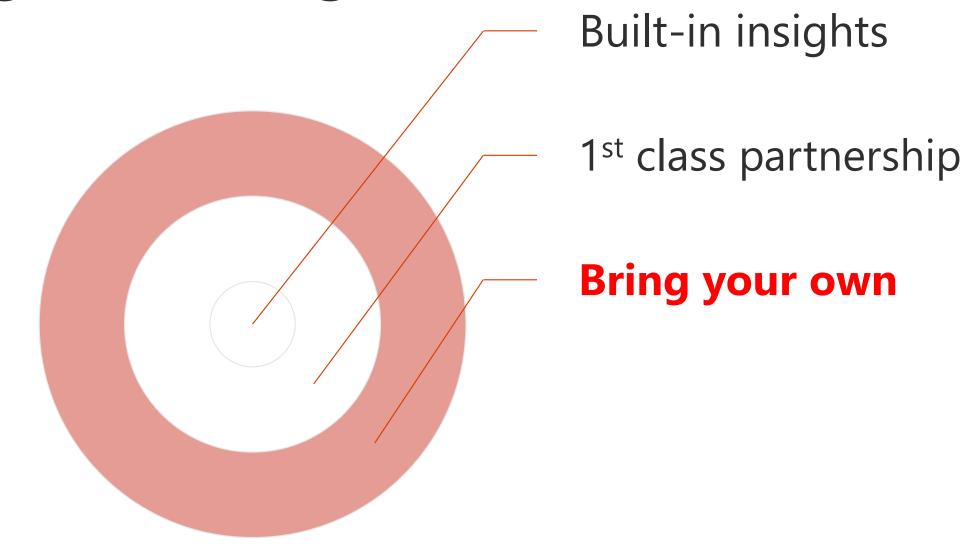


Disclaimer: Jim is a work of fiction. Any resemblance to an actual Jim is purely coincidental.

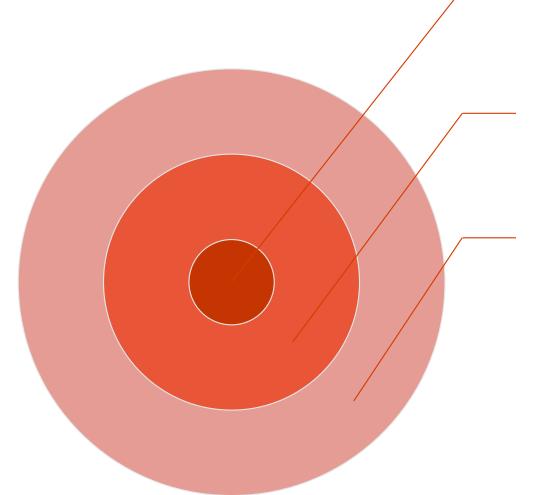
## Demo Custom intelligence



### Intelligence strategies



## Intelligence strategies



#### Built-in insights

Security, Spatial Analytics

#### 1<sup>st</sup> class partnership

Managed Access, PowerStack

#### Bring your own

Webhooks +?

#### Next steps

1.

Try Graph Explorer right now: aka.ms/ge 2.

Join other Graph talks and labs

3.

Brainstorm creative ideas or try this one: <a href="https://doi.org/line.100%/aka.ms/incl">aka.ms/incl</a>

4.

Build awesome, intelligent apps 5.

Profit!





## Thank you