Microsoft

Microsoft 365 DevDays // 5th

2019年4月13-14日　中国・上海

Microsoft

Microsoft Graph 101

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Microsoft 365

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Agenda

What is Microsoft Graph?

Getting started with Microsoft Graph

Demo

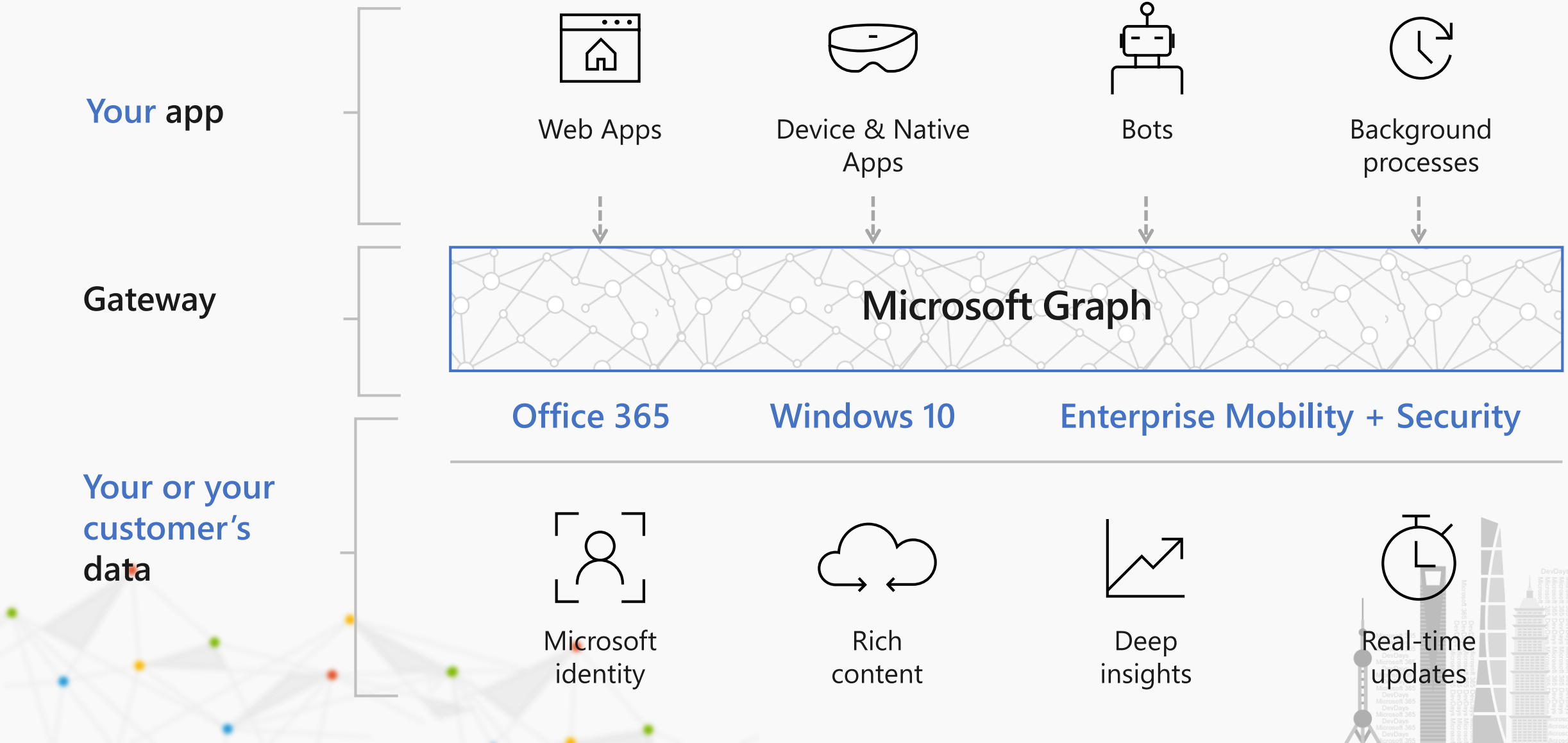
Graph roadmap

Teams API

Demo

What is Microsoft Graph?

Gateway to your data in the Microsoft cloud



Graph offers a great opportunity

90%

Fortune 500 companies have data in Microsoft Graph

135M+

monthly active users in Office 365

1.1B+

identities authenticated each month

65M+

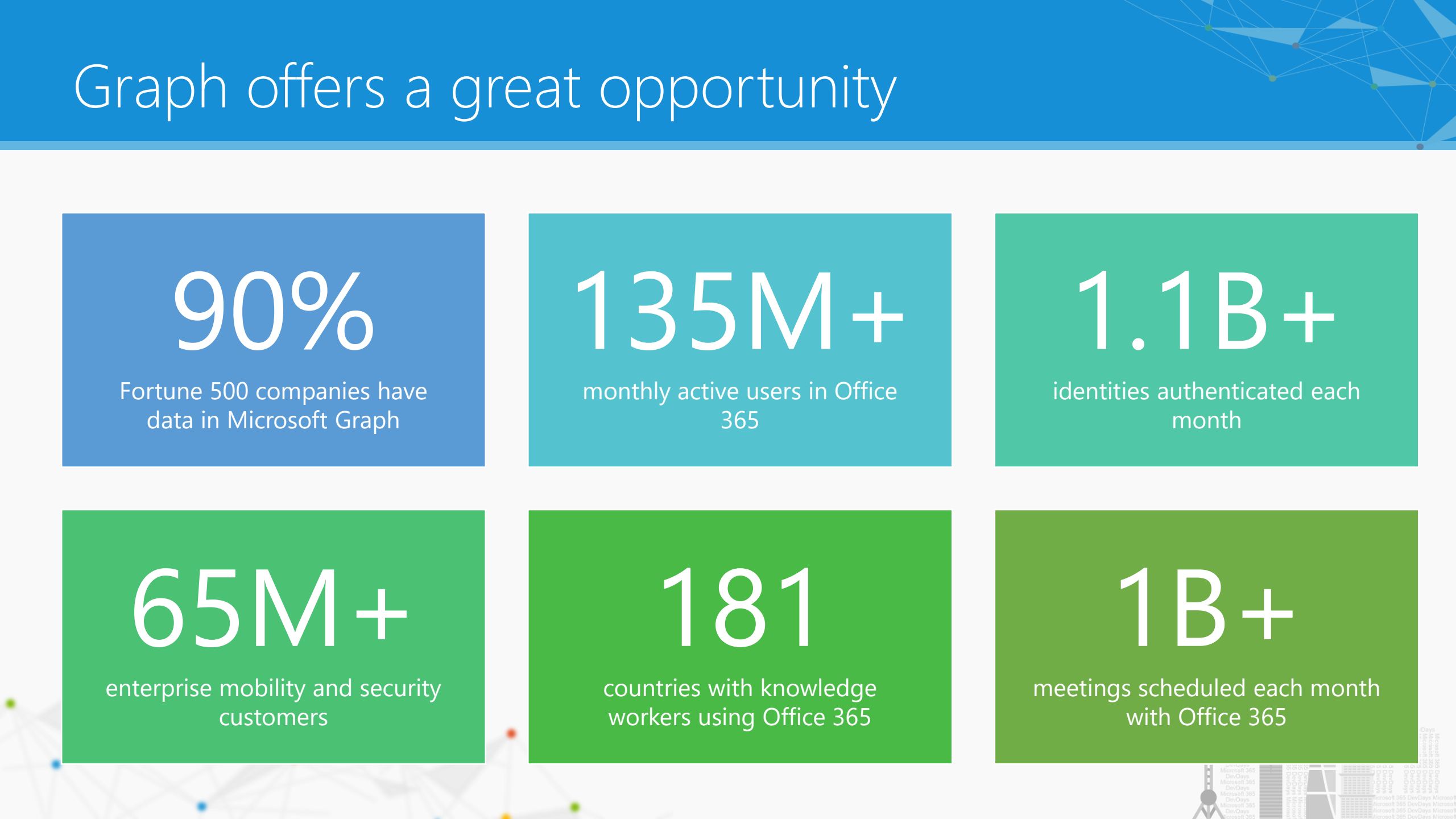
enterprise mobility and security customers

181

countries with knowledge workers using Office 365

1B+

meetings scheduled each month with Office 365



Microsoft Graph domains

Office 365

Users, Groups, Organizations
Outlook
SharePoint
OneDrive
Teams
Planner
Excel
OneNote

Windows 10

Activities
Device Relay
Commands
Notifications

Dynamics 365

Financials

Enterprise Mobility + Security

Azure AD
Intune
Identity Manager
Advanced Threat Analytics
Advanced Threat Protection

Mail, Calendar,
Contacts and Tasks
Sites and Lists
Drives and Files

Channels, Messages
Tasks and Plans
Spreadsheets
Notes, and more...

Identity Management
Access Control
Synchronization
Domains

Administrative Units
Applications and Devices
Advanced Threat Analytics
Advanced Threat Protection

Alerts
Policies
and more...

Getting started with Microsoft Graph

Demo

Developing with Microsoft Graph

01

TRY

Graph Explorer and quick starts

02

LEARN

with docs and API reference

03

BUILD

with SDKs, samples, and tooling

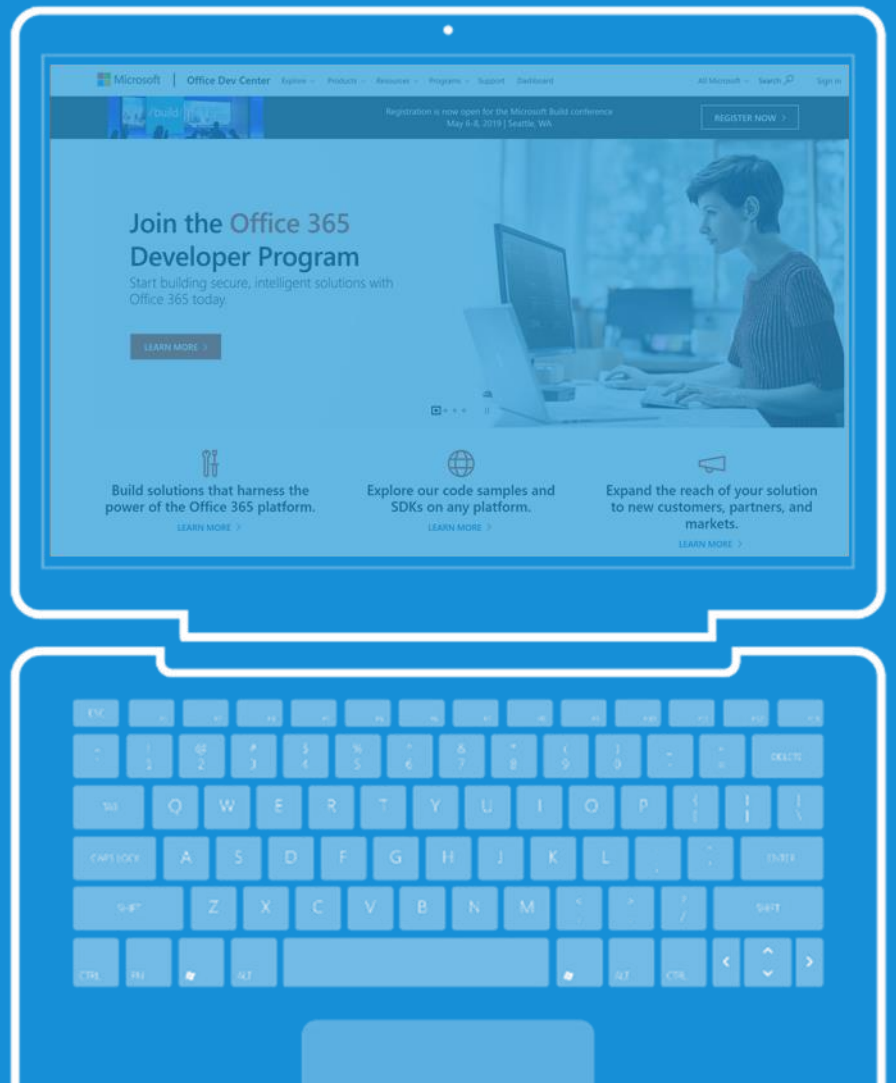
Graph Explorer

https://aka.ms/ge

Demo

Docs updated experience

Demo



Graph 101 exercises

https://aka.ms/graph101exercises

Hands-on

App types and permissions

Get access on behalf of users

Single page app

Web app

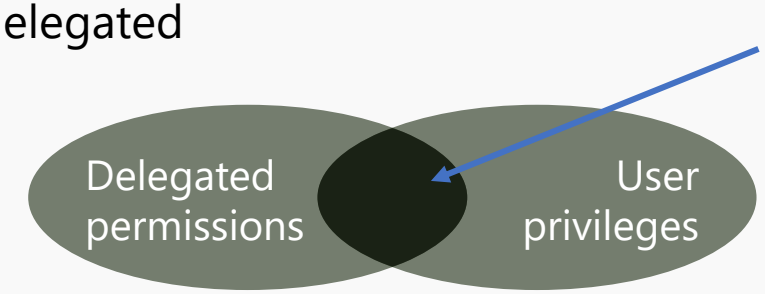
Mobile or desktop app

App with middle tier web API

Get access as a service

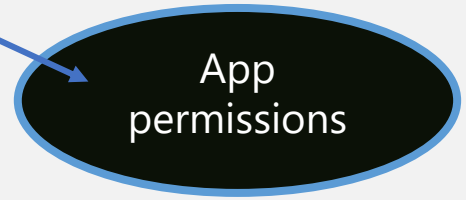
Service or daemon app

Permission type: delegated



Effective permission

Permission type: application



Users can consent for their data or admin can consent for all users

Only admin can consent

Learn more: https://aka.ms/ConsentAndPermissions

Graph roadmap

Microsoft Graph at Ignite 2018 | Data sets

	GA (v1.0)	Preview (beta)
Office 365	• Exchange (get mail tips) • OneDrive (preview, followed docs) • AAD (device configuration)	• Exchange (get free/busy, add custom headers to message) • SharePoint (sharing links, followed content, pages, list views) • Teams (tab creation, calling, app context, provisioning, classroom creation
Dynamics		• Business Central (financials)
EMS	• Security (Alerts)	• AAD (risky users, sign-in, access reviews, B2B invite status) • Security (secure score)

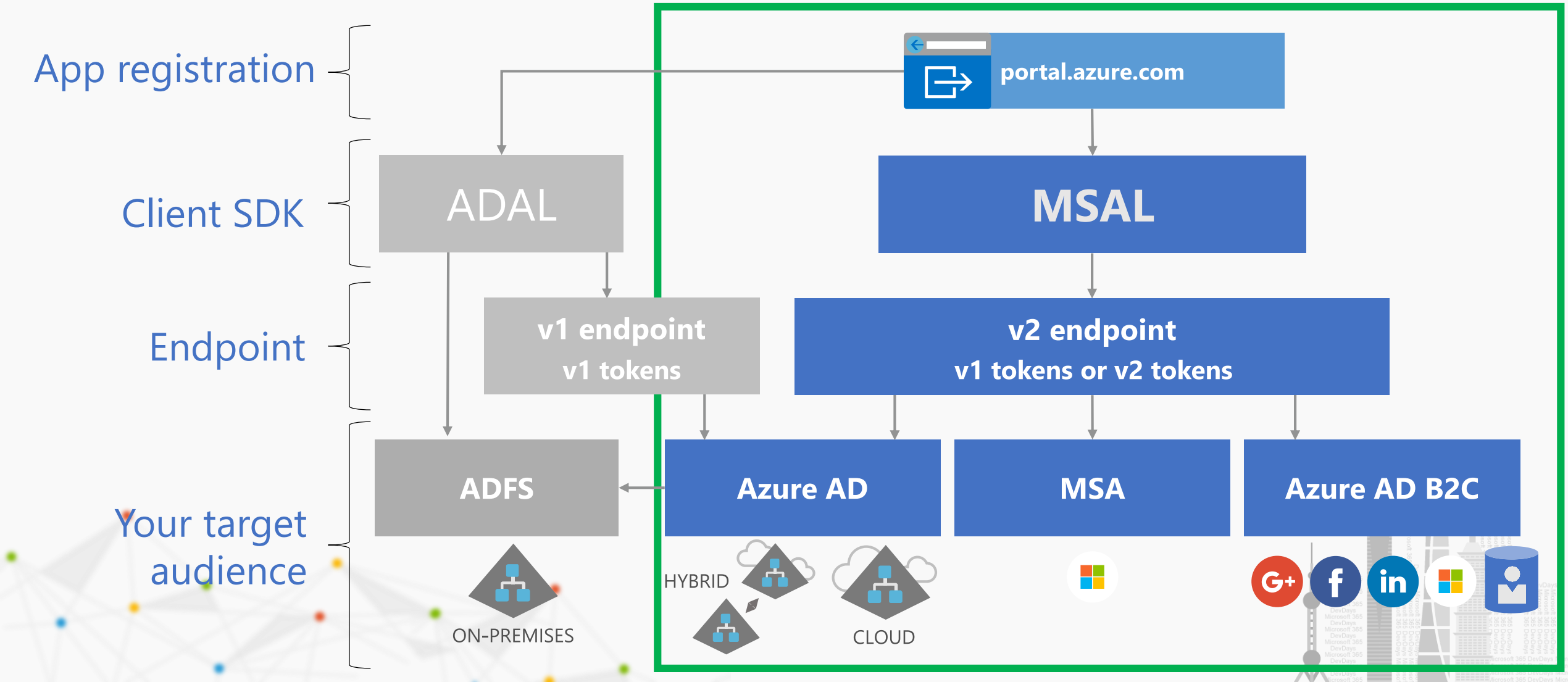
Microsoft Graph at Ignite 2018 | Capabilities

	GA (v1.0)	Preview (beta)
Delta	• Return only changed properties on users and groups	• Support added for apps, directoryRoles • Support single delta query for multiple types inheriting from directoryObject
Webhooks	• Notifications on user/group created/modified/deleted	• Coming soon: “rich” webhooks
Other		• Data connect (analytics at scale) • User notifications (Project Rome)

Microsoft Graph at Ignite 2018 | SDKs

	GA (v1.0)	Preview (beta)
.NET	• 1.11.0 Nuget package update	• Coming soon
Java	• General availability	• Coming soon
JavaScript	• Core library as a npm package	
TypeScript	• npm package; coming soon to DefinitelyTyped	
PHP	• 1.3.3 Composer update	
Objective C	• Preview: support for core Graph functionality	

Simplifying the developer platform



Microsoft Authentication Libraries (MSAL) 3.0

Targeting GA by early summer

PREVIEW

JavaScript

PREVIEW

AngularJS

PREVIEW

.NET

PREVIEW

UWP

PREVIEW

Android

PREVIEW

iOS

iOS

PREVIEW

Xamarin

Teams API

Demo

Demo coming soon: user notifications

Demo

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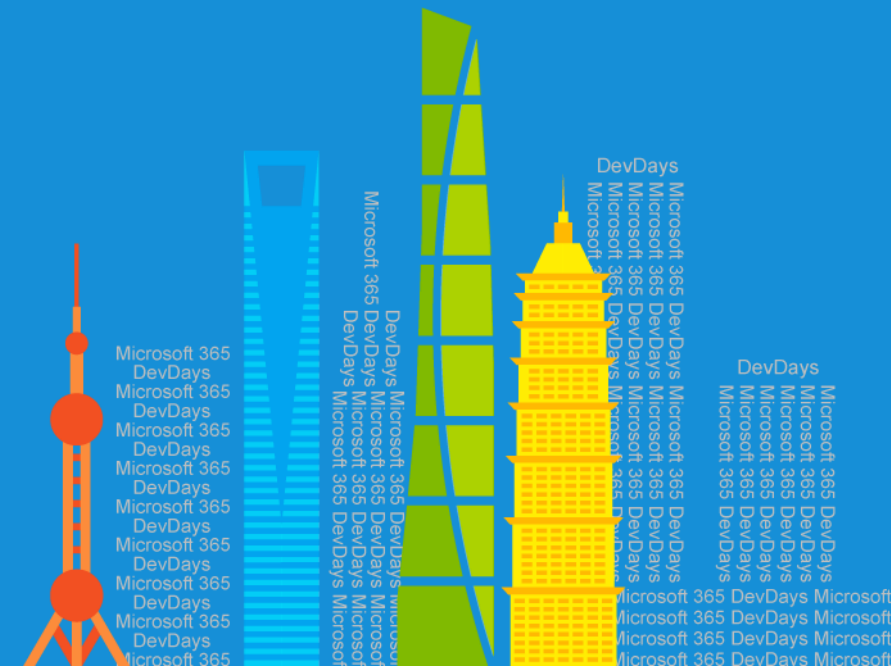
Questions



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Thanks