

A photograph of three people in an office environment. A man with a beard and a woman are looking down at a document on a desk, while a third person's head is visible on the right. There are plants and a lamp on the desk.

Build Modern Immersive Apps on Microsoft Teams

The hub for teamwork in Office 365

Vishrut Shukla
Customer & Partner Ecosystem
Microsoft Teams Product Engineering

Microsoft Teams

The hub for teamwork in Office 365



Communicate

through chat, meetings & calls



Collaborate

with deeply integrated Office 365 apps



Work with confidence

enterprise level security, compliance,
and manageability



Customize & extend

with 3rd party apps, processes, and
developer tools



Microsoft Teams Platform

build experiences that people love



Communicate

through chat, meetings & calls



Collaborate

with deeply integrated Office 365 apps



Work with confidence

enterprise level security, compliance,
and manageability



Customize & extend

with 3rd party apps, processes, and
developer tools



Gain context
without switching
context



Meet your
people where
they are



Tailor your
teamwork



Microsoft Teams – Incredible Momentum in the Last 1 Year



3m+

In the past year, 3 million+ teams have been created



329k

Organizations are using Teams



87

Fortune 100 companies are using Microsoft Teams



44

Microsoft Teams is available in 44 languages

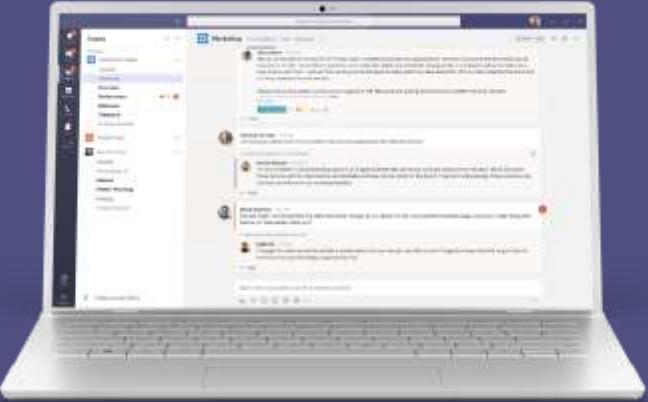


181

Teams users span 181 markets across the globe

Cross platform presence – Teams where you want it

Desktop



 Windows 7+



 OS X 10.10+

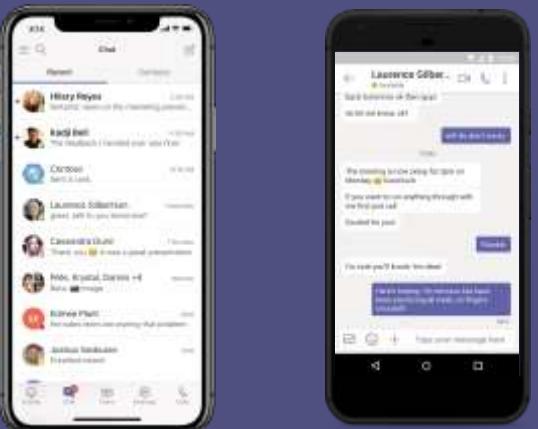
Mobile



iPad

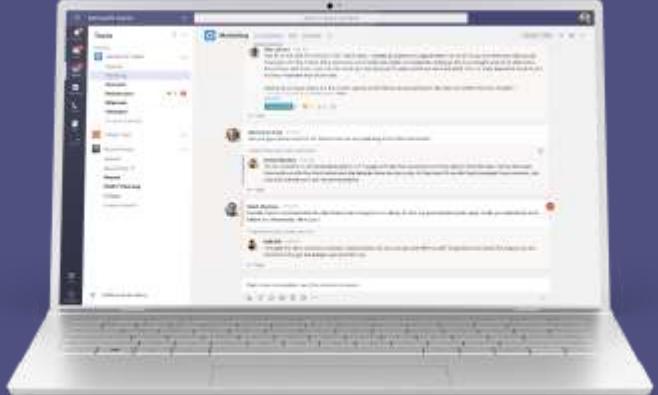


iPhone



Android

Browsers



Edge

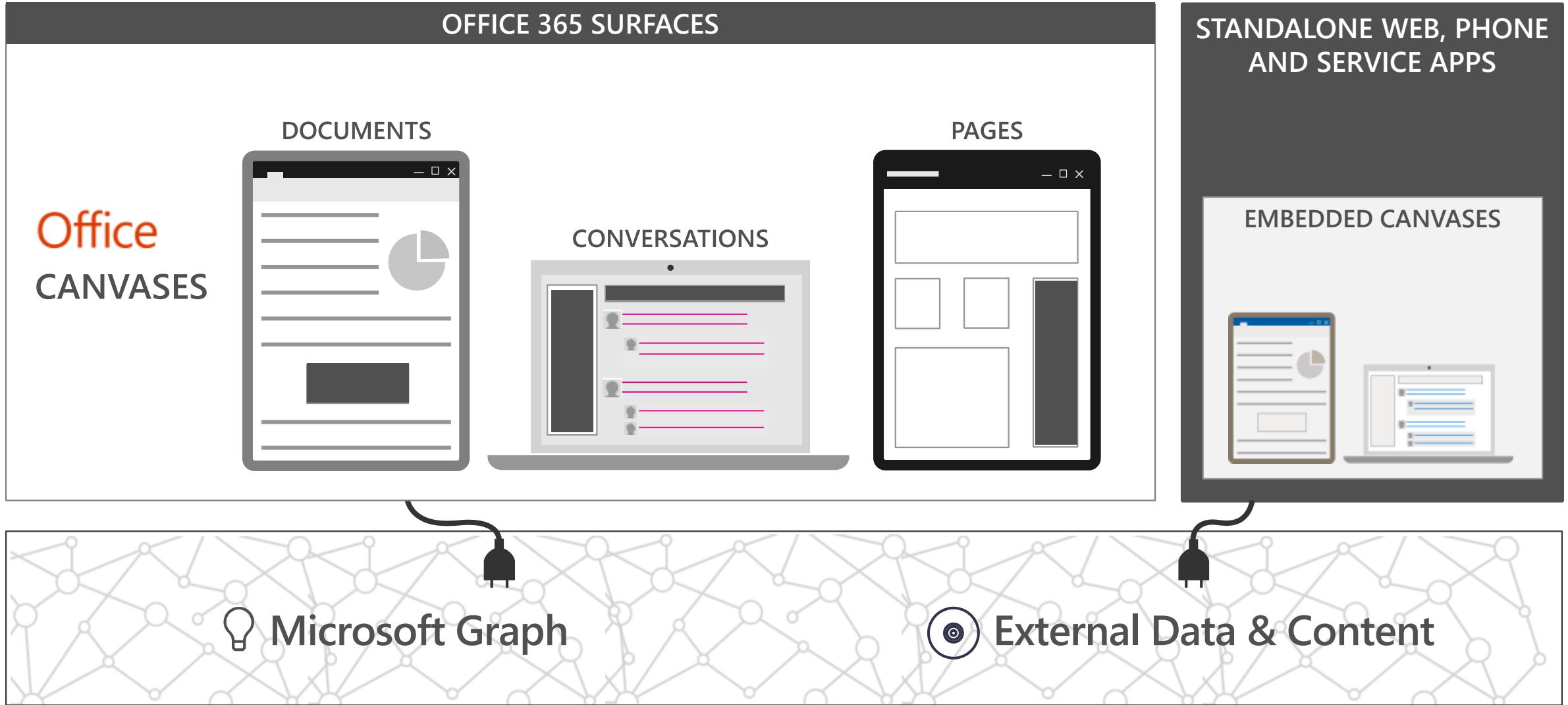


Chrome

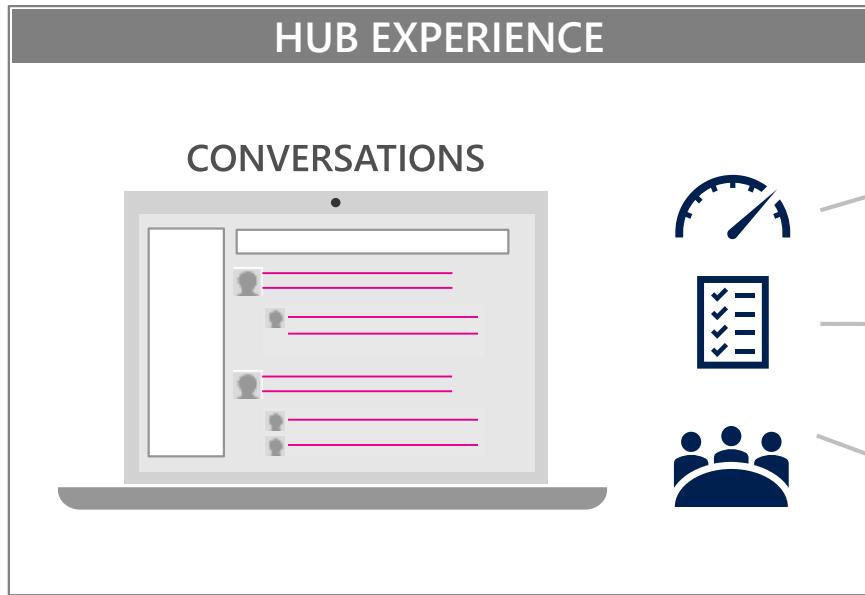


Firefox

Conversations are Core to the Office 365 Platform



Make teamwork more productive with Teams Apps



Enable your teams to make decisions and take action faster

Reduce context switching on important tasks

Create opportunities for collaboration around external content

Apps come from different publishers

1st Party Apps

- Developed by Microsoft
- Office 365 or Office workloads
- Enable better together scenarios

3rd Party Apps

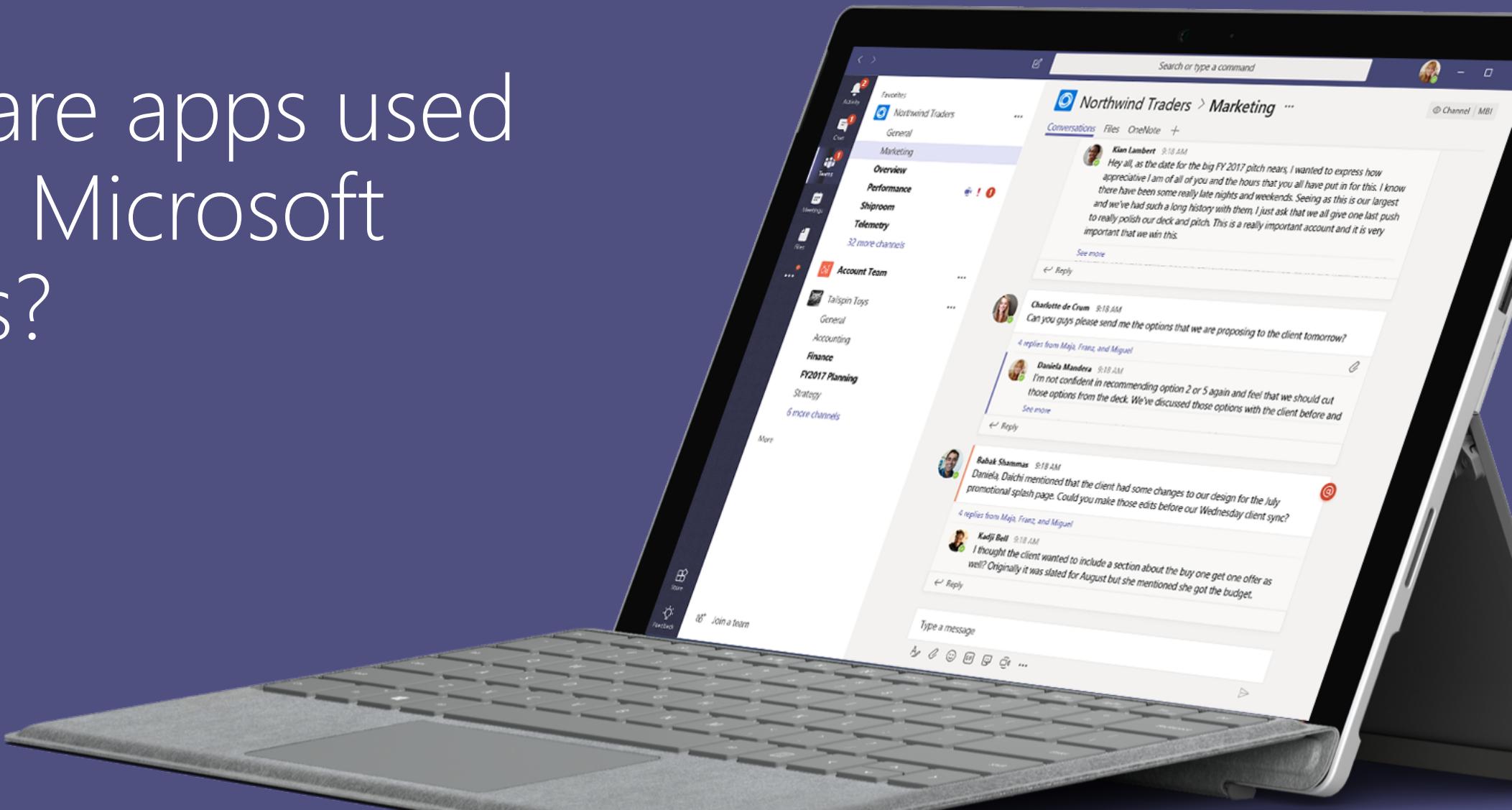
- Not built by Microsoft
- Popular work applications
- Enabled in central location

Custom Apps

- Built by your organization
- Custom for your business needs
- Accessible by users in Teams

How are apps used within Microsoft Teams?

Demo





officevibe



meekan



freshdesk

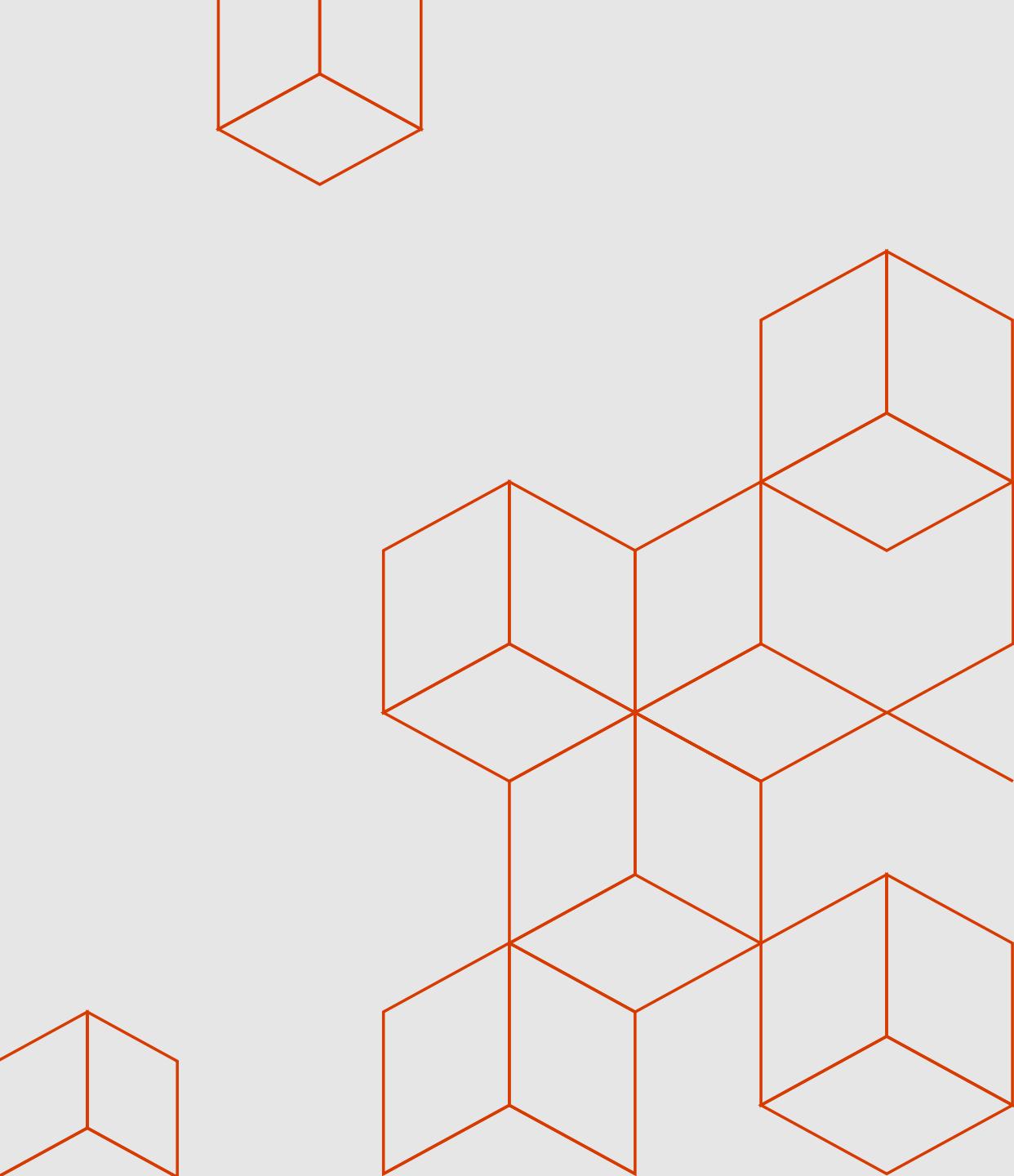


POPin



Stream

Building Apps

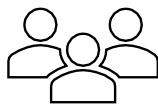


Why build custom apps for your organization?



Effortless discovery

Each employee already has access to Microsoft Teams as the primary collaboration and communication platform. It's intuitive to leverage an existing platform to float your app / service



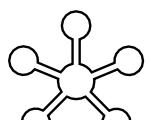
Choose the audience for your app

Drive engagement by submitting your app to the Office Store for entire world to us or submit only to your organization's Private App Catalog to distribute only to employees



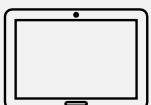
Conversations come free!

Microsoft Teams is built for collaboration through conversations which means your app / service does not need to build a conversation layer of its own – just plug into ours



Rich App Platform

Microsoft Teams app platform supports 6 capabilities already and more are coming up every quarter so that you can build immersive experiences on an enterprise-grade app platform!



Build once, use everywhere

Reduce design, development and service overheads by building a Microsoft Teams app once and enable users to access it across Microsoft Teams clients on Windows Desktop, Mac, Web, Android and iOS platform

Microsoft Teams Platform

Extensible and customizable so that you can reach your users in their chats, channels, notifications and personal workspace. A single app can provide one or more capabilities.



Bots

Help users get tasks done in conversations



Tabs

Surface rich content within Teams



Connectors

Post rich updates to channels



Actionable Messaging

Add rich interaction to your connector cards



Compose Extensions

Query and share rich cards in conversations



Activity Feed

Engage user via notifications

The screenshot shows the Microsoft Teams App Store interface. At the top, there's a search bar with the placeholder "Search or type a command". Below the search bar, the title "Store" is displayed, followed by a "Search all" input field and a magnifying glass icon. To the right of the search fields, there's a "Browse available apps and services" section with the sub-instruction "Add your favorite app for yourself or for a team." Below this, a "See our top picks:" section is visible. The main area displays a grid of app cards, each featuring the app's logo, name, and a brief description. The cards include:

- Aha!** Project Management: The Aha! connector sends notifications about activities related to your product or account.
- Airbrake** Developer tools: The Airbrake connector sends notifications about errors and exceptions in your applications.
- AppSignal** Analytics: The AppSignal connector sends notifications about exceptions in your applications.
- Avochato** Customer support: Avochato is text messaging software for sales, support, and operations teams.
- AzureBot** Developer tools: Be more productive with your own Microsoft Azure subscriptions using natural language. You can start, stop, and list Azure VMs and start Azu...
- Beeminder** Lifestyle: The Beeminder connector sends notifications about off-track long-term goals.
- CheckMarket** Sales + marketing: The CheckMarket connector sends notifications about responses to your surveys.
- Bitbucket** Developer tools: Bitbucket Cloud is the Git solution for professional teams. Distributed version control system that makes it easy for you to collabor...
- Bugsnag** Developer tools: The Bugsnag connector sends notifications about errors and exceptions in your applications.
- Dynamics 365** Sales + marketing: Microsoft Dynamics 365 connector sends notifications about activity updates in your connected Dynamics 365 records.
- Empsense** Human resources + recruiting: Empsense your team right here.
- GitHub** Developer tools: Browse issues and pull requests for your repositories within Teams using V-Empire GitHub for Microsoft Teams.

At the bottom left of the store interface, there are navigation icons for "Start" and "Feedback".

Build Apps in Teams

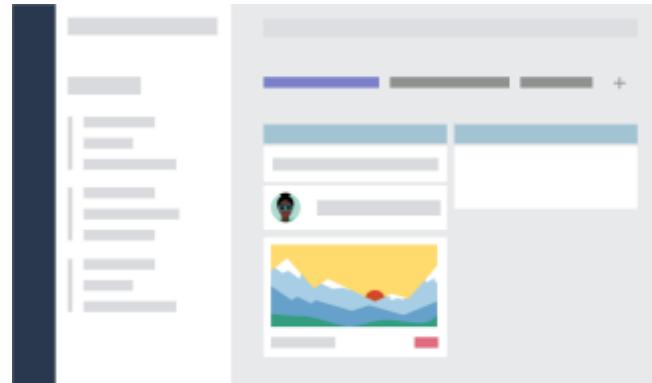
Two kinds of app experiences

Your app can provide content and services in channels, which enable groups of people to work collaboratively, or in personal or group chats or both. The term we use for services in channels is team scope and for chats is personal scope.

Therefore, always think SCOPES!

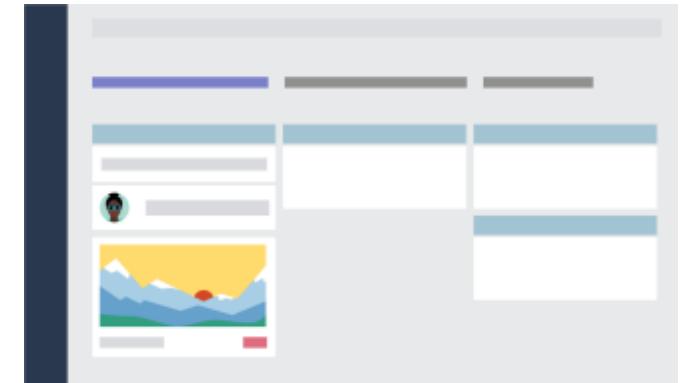
TEAM APPS

- Installed into Teams & Channels
- Accessible by all team members



PERSONAL APPS

- Installed into your left rail
- Accessible only by you



Quiz time - Can anyone guess a 3rd scope we've just announced for Teams apps?

Demo Time!

Great Teams apps may look like...

Site24x7 (ISV)

Zoho Projects (ISV)

Leave Personal App (Sample)

App Demo: Site 24x7

Site24x7 is an All-in-One IT monitoring solution that offers full-stack infrastructure monitoring from the cloud. Connect with Site24x7 to receive monitor status alerts and RCA details in your Microsoft Teams channel(s). Login to view any Site24x7 Custom Dashboard(s) inside the Microsoft Teams Channel Tab, collaborate and troubleshoot monitor issues faster.

Channel Tab

The Microsoft Teams Channel Tab displays the 'Monitor Server Health' dashboard for the 'Contoso Dev Team'. The dashboard includes several widgets:

- Availability & Response Time Widgets:** Two charts showing response times for Microsoft and Website-microsoft.com over the last 17 seconds.
- Website-microsoft.com Response Time:** Shows a response time of 854ms.
- Microsoft Response Time:** Shows a response time of 505ms.
- Availability Chart of HomePage-w3schools.com:** Shows availability at 100%.
- Response Time Chart of DNS - ns1.microsoft.com - microsoft.com:** A line chart showing response times over time.
- Monitors Status:** A summary table showing the count of monitors in various states: Green (0), Yellow (1), and Red (0).

Connector

The Site24x7 Connector window shows a monitor status alert for 'SSL-w3schools.com' with the following details:

- Display name:** SSL-w3schools.com
- SSL host:** w3schools.com
- Monitor status:** TROUBLE
- Trouble since:** September 27, 2018 7:25 PM IST
- Monitor Dashboard Link:** <https://www.site24x7.com/app/client#/home/monitors/24305100000025100/Summary>
- Downtime in UNIX Format:** 1536759953968
- Trouble From Locations:** San Francisco - US
- Reason:** Certificate Expires in 14 day(s)

Personal Bot

The Site24x7 Personal Bot dashboard displays monitor status and a detailed alert for a Microsoft IIS server:

- Monitor status:** Shows counts for Down (1), Trouble (1), Up (19), Suspended (0), Maintenance (0), Discovery (0), and Configuration Error (0).
- Alert Details:** An alert for '00-06-01-0W-05.fareast.corp.microsoft.com-IIS' is shown, indicating it is Down. The alert details include:
 - Monitor Type:** Microsoft IIS Server
 - Last Polled Time:** 19 Sep 2018 02:50:46 AM
 - Start Time:** 19 Sep 2018 02:50:46 AM
 - Alarm Since:** 3 Days 3 Hrs 53 Mins
 - Comments:** Agent service stopped for Microsoft IIS Server monitor 00-06-01-0W-05.fareast.corp.microsoft.com.
- HomePage-w3schools.com is Up:** Shows a green arrow indicating up status.
- List of Trouble monitors:** Shows a list of monitors with their current status (Green, Yellow, or Red).

App Demo: Zoho Projects

Zoho Projects is a free online project management software that lets you create and manage your projects effectively. Plan your projects, assign work, manage resources and collaborate better with your team. Although Zoho Projects has an easy-to-use UI, it is also packed with immense functionality to accommodate your business growth.

Channel Tab

Contoso Dev Team > Project Planning

This team has guests:

Conversations Files Explore Zoho Projects Planner Task Tracking Feature Parity across platforms 2 more +

All Open

Task	Owner	Status	Start Date	Due Date
A quick way to get started! in SEO and Marketing Activities on 30 Apr, 2018	Zoho Projects Cr	Open	04-27-2018	04-30-2
EXM9-T2 Use 'Mail Alias for Project' to add status, tasks, forum p...	Zoho Projects Cr	Open	04-27-2018	04-30-2
Basics of Tasks & Milestones in SEO and Marketing Activities on 30 Apr, 2018	Zoho Projects Cr	Open	04-27-2018	04-30-2
EXM9-T3 Multiple users can be owners for a task	Zoho Projects Cr	Open	04-27-2018	04-29-2
EXM9-T4 Start & End (Due) date can be provided for the tasks.	Zoho Projects Cr	Open	04-28-2018	04-30-2
EXM9-T5 Priority level can be set for a task. The vertical line to t...	Zoho Projects Cr	Open	04-28-2018	04-30-2
EXM9-T6 Click the task name to see complete information about...	Zoho Projects Cr	Open	04-30-2018	04-30-2
EXM9-T7 Attachments and Discussions can be associated with a ...	Zoho Projects Cr	Open	04-29-2018	04-30-2
EXM9-T9 Click the 'Export Task' option at the top right corner of...	Zoho Projects Cr	Open	04-27-2018	04-28-2
EXM9-T10 This task is a recurring one.	Zoho Projects Cr	Open	-	-
EXM9-T11 The bell symbol at the end of the task name indicates...	Zoho Projects Cr	Open	-	-
EXM9-T12 Time can be logged for a task using the timer option ..	Zoho Projects Cr	Open	04-29-2018	04-30-2
EXM9-T13 Click the 'Uncheck' option here before this task is shown	Zoho Projects Cr	Open	-	-

The screenshot displays several windows of the Zoho Projects application:

- New Task:** A modal window for creating a new task, showing fields for Task Name, Description, and Task Information.
- Task List:** A list of tasks under the heading "A quick way to get started! in SEO and Marketing Activities". It includes columns for Task Name, Status, Start Date, Due Date, and a "More" button.
- Task Information:** A detailed view of a specific task, showing its description, start date (04-27-2018), due date (04-30-2), priority (High), and a note that it is a recurring task.
- Task Details:** A detailed view of the task "Basics of Tasks & Milestones", showing its description, start date (04-27-2018), due date (04-30-2), priority (Normal), and a note that it is a recurring task.

App Demo: Leave Personal App

Search or type a command

Activity

Babak Shamma Just now @
Northwind Traders / General
I can get on board with that. THanks for taking a look! Would you mind cc-ing Dan...

Keiko Tanaka 2m ago @
Northwind Traders / Marketing
I haven't checked the latest deck but the comps that Marie sent are in the Design ch...

Marie Beaudouin 3m ago 📈
Northwind Traders / Announcements
We hit 1m MAU!!! @General

Leave Bot 4m ago ⏴
Babak Shamma has approved...
Enjoy

Will Little 3h ago 📈+
Add you to Tailspin Toys

Aadi Kapoor 3h ago 📈+
Northwind Traders / Announcements
@NorthwindTraders

David Power 4h ago ←
Northwind Traders / Strategy
Yes that was also my thinking. But I am hesitatnt to only go in with 2 approaches...

Pete Turner 4h ago ←
Northwind Traders / Design
I really like this direction. I'm a huge fan of care too much for option 3...

Kadji Bell Just now @
Northwind Traders / Finance
Daniela, can you please approve the timesheets from your vendors?

Danielle Booker 5h ago @
Northwind Traders / Strategy
Can you send me available times for next week please? Daniela

Feedback

Store

Leave Bot

Conversation Leave Board Public Holidays Help About +

Leave Bot 10:57 AM

Welcome to the Leave Bot
Leave Bot helps you plan and organise your leaves in very quick and simple ways

Hey Preethy! Here's what I can do for you

- Make a leave request
- View leave balance
- View list of public holidays
- See how it works

Start a new conversation, use @ to mention someone

Activity

Chat

Teams

Meetings

Calls

Files

...

Feedback

Store

Search or type a command

Leave Bot

Conversation Leave Board Public Holidays Help About +

See how it works

Leave Bot 10:57 AM

From Duration
Thu, Sep 13, 2018 Full day

To Duration
Mon, Sep 17, 2018 Full day

Out of office for 2 days

Please specify a reason for your leave*

Vacation (highlighted)

Sickness

Personal work

Other

Start a new conversation, use @ to mention someone

A C GIFT...

Activity

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Northwind Traders / Marketing
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Northwind Traders / Announcements
We hit 1m MAU!!! @General
- Leave Bot 4m ago ↗
Babak Shamma has approved...
Enjoy
- Will Little 3h ago 📈
Add you to Tailspin Toys
- Aadi Kapoor 3h ago 📈
Northwind Traders / Announcements
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From Duration

Thu, Sep 13, 2018

Full day

To

Duration

Mon, Sep 17, 2018

Full day

Out of office for 2 days

Please specify a reason for your leave*

Vacation

Sickness

Personal work

Other

Start a new conversation, use @ to mention someone

A C GIFT...



@ Team MBI

...

Search or type a command

1603px x 902px

Activity

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Marie Beaudouin 3m ago Northwind Traders / Announcements We hit 1m MAU!!! @General

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Leave Bot 10:57 AM

From Duration
Thu, Sep 13, 2018 Full day

To Duration
Mon, Sep 17, 2018 Full day

Out of office for 2 days

Please specify a reason for your leave*

Vacation Sickness Personal work Other

Yay! Have a great Vacation!

Leave type*
Carried over from last year 3/6 remaining

Comments...(Optional)

Submit

Start a new conversation, use @ to mention someone

A C Gif Smiley Document ...

Activity
2

Chat
1

Teams
1

Meetings

Calls

Files

...

Activity
Y

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Kadji Bell Just now @
Northwind Traders / Finance
Daniela, can you please approve the timesheets from your vendors?

Danielle Booker 5h ago @
Northwind Traders / Strategy
Can you send me available times for next week please? Daniela

Leave Bot
Leave Bot

Leave Bot
10:57 AM

Your leave request has been successfully submitted to your manager! Please review your details below

Thursday Monday

Sep 13 - Sep 17, 2018

2 days OOF

PL • I am visiting home over the weekend. Will be available on call if required.

Approval status: Pending

Edit

Start a new conversation, use @ to mention someone

A
C
Smile
GIF
Message
File
...

>

Activity

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Northwind Traders / General
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Keiko Tanaka 2m ago @
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I haven't checked the latest deck but the comps that Marie sent are in the Design ch...

Marie Beaudouin 3m ago 📈
Northwind Traders / Announcements
We hit 1m MAU!!! @General

Leave Bot 4m ago
Chris Naidoo has requested for...
I am visiting [home](#) over the weekend. Will...

Will Little 3h ago
Add you to Tailspin Toys

Aadi Kapoor 3h ago
Northwind Traders / Announcements
@NorthwindTraders

David Power 4h ago
Northwind Traders / Strategy
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Danielle Booker 5h ago @
Northwind Traders / Strategy
Can you send me available times for next week please? Danielle

Pete Turner 4h ago
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Kadji Bell Just now @
Northwind Traders / Finance
Daniela, Can you please approve the timesheets from your vendors?

Feedback

Store

Search or type a command

Leave Bot

Conversation Leave Board Public Holidays Help About +

Leave Bot 10:57 AM

Chris Naidoo has requested for 'Paid leave' for 2 days

Thursday Monday
Sep 13 - Sep 17, 2018

Reason: Personal work
I have an appointment with my doctor. Will be available on call if required.

Approve Decline

Chat with Babak

Start a new conversation, use @ to mention someone

A

Search or type a command

Activity

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Leave Bot 4m ago Chris Naidoo has requested for... I am visiting home over the weekend. Will...

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Jete Turner 4h ago I really like this direction. I'm a huge fan of ...

Kadji Bell 4h ago Northwind Traders / Finance Danielle, can you please approve the timesheets from your vendors?

Danielle Booker 5h ago @ Northwind Traders / Strategy Can you send me available times for next week please? Danielle

Employee's manager can choose to approve or decline the request along with comments

Feedback

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Reason: Personal work
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Approve Decline

Comments...(Optional)

Cancel Approve

Start a new conversation, use @ to mention someone

A C Gif Smiley Document More

Activity
2

Chat
1

Teams
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Meetings

Calls

Files

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Conversation Leave Board Public Holidays Help About +

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I have an appointment with my doctor. Will be available on call if required.

Approve Decline

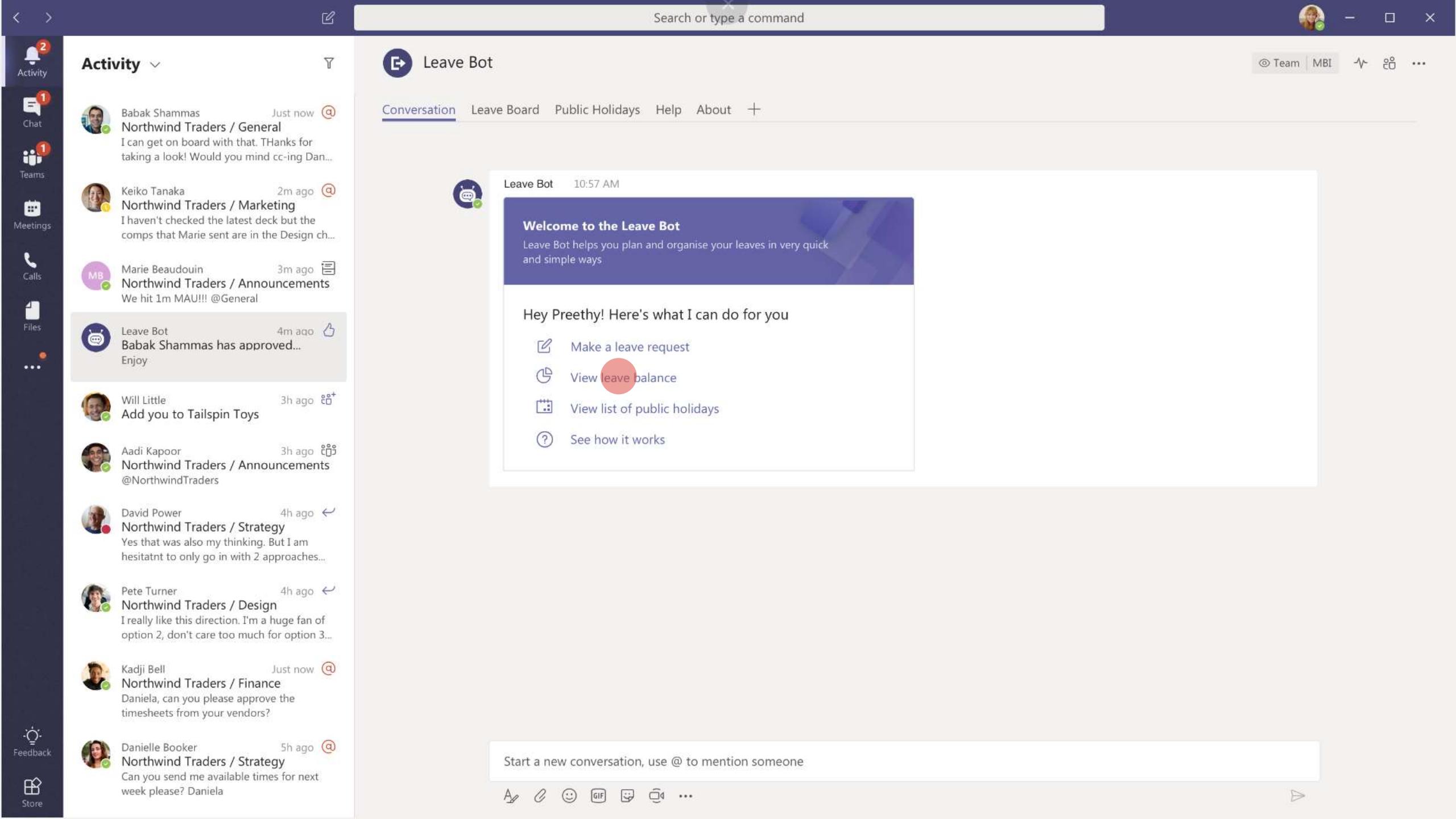
Reason for declining (Optional)
Other

Write a reason...

Cancel Decline

Start a new conversation, use @ to mention someone

A C Gif S D ...



Activity

Chat

Teams

Meetings

Calls

Files

...

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Marie Beaudouin 3m ago Northwind Traders / Announcements We hit 1m MAU!!! @General

Leave Bot 4m ago Babak Shamma has approved... Enjoy

Will Little 3h ago Add you to Tailspin Toys

Aadi Kapoor 3h ago Northwind Traders / Announcements @NorthwindTraders

David Power 4h ago Northwind Traders / Strategy Yes that was also my thinking. But I am hesitatnt to only go in with 2 approaches...

Pete Turner 4h ago Northwind Traders / Design I really like this direction. I'm a huge fan of option 2, don't care too much for option 3...

Kadji Bell Just now @ Northwind Traders / Finance Daniela, can you please approve the timesheets from your vendors?

Danielle Booker 5h ago @ Northwind Traders / Strategy Can you send me available times for next week please? Daniela

Search or type a command

Leave Bot

Conversation Leave Board Public Holidays Help About +

See how it works

Leave Bot 10:57 AM

Here's your balance status

Type	Remaining
Paid leaves	19
Sick leaves	5
Carried over from last year Recommended to utilise for vacations	2

[View details](#)

Start a new conversation, use @ to mention someone

A C Gif S M ...

Activity

Babak Shamma Just now @ Northwind Traders / General I can get on board with that. THanks for taking a look! Would you mind cc-ing Dan...

Keiko Tanaka 2m ago @ Northwind Traders / Marketing I haven't checked the latest deck but the comps that Marie sent are in the Design ch...

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Kadji Bell 4h ago Just now @ Northwind Traders / Finance Danielle, Can you please approve the timesheets from your vendors?

Danielle Booker 5h ago @ Northwind Traders / Strategy Can you send me available times for next week please? Danielle

Employees can access sign all Leave related information in their personal dashboard in 1:1 scope

Search or type a command

Leave Bot

Conversation Leave Board Public Holidays Help About +

Chris Naidoo
UX Designer
12 days OOF in 9 months

Apply leave

Notifications

Babak Shamma has approved your leave Enjoy Chat with Babak

Leave Bot
Tip
You can utilise the carried over leaves from last year for your recently applied leave...

Change leave type

Leave Bot
Upcoming long holiday from Oct 14 to Oct 16

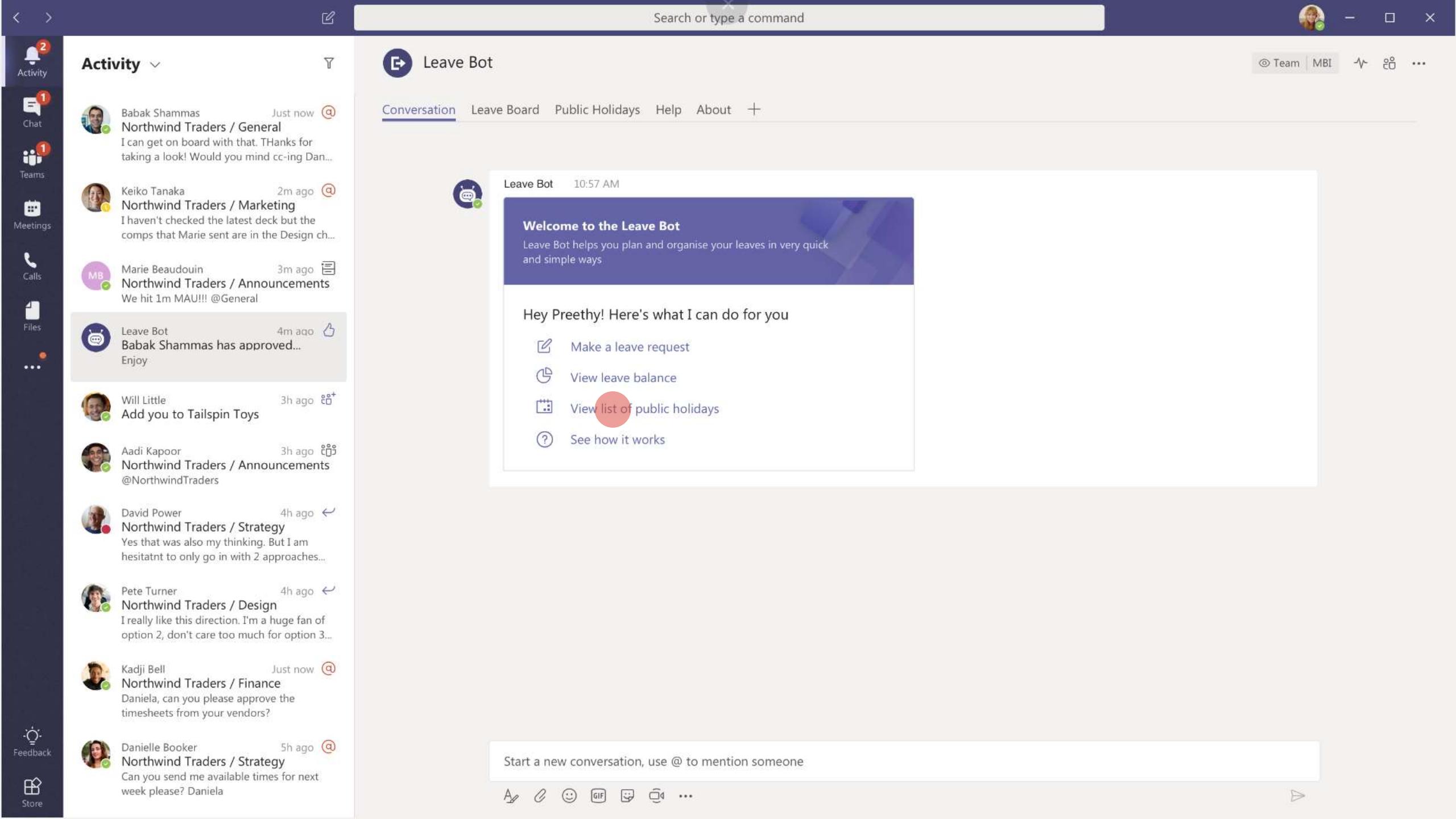
Balance status

Type	Remaining	Used	Allowance	
Paid Leaves	19	1	20	Last used in March
Sick Leaves	5	7	12	Last used in August
Carried over from last year	2	4	6	Recently used this month
Maternity Leaves	0	0	0	-
Paternity Leaves	0	0	0	-
Caregiver Leaves	0	0	0	-

Leave reports

Date Range	Type	Duration	Status	Action
Thu, Sep 13 - Mon, Sep 17, 2018	PL	2 days OOF	Pending	
Wed, Aug 1, 2018	SL	1 day OOF	Approved	
Mon, May 4 - Thu, May 7, 2018	SL	4 days OOF	Approved	
Fri, Apr 7 - Mon, Apr 10, 2018	PL	2 days OOF	Declined	

Load More



Activity

Chat

Teams

Meetings

Calls

Files

...

Feedback

Store

Activity

Babak Shamma Just now @ Northwind Traders / General I can get on board with that. THanks for taking a look! Would you mind cc-ing Dan...

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Search or type a command

Leave Bot

Conversation Leave Board Public Holidays Help About +

See how it works

Leave Bot 10:57 AM

Here is the list of upcoming public holidays

Date	Day	Event
02 Oct 2018	Tuesday	Gandhi Jayanti
19 Oct 2018 Optional	Friday ● Long holiday	Dussehra

[View All](#)

Start a new conversation, use @ to mention someone

A C Gif S D ...

Search or type a command



Activity
2

Chat
1

Teams
1

Meetings

Calls

Files

...

Activity

Y

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Northwind Traders / General
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Northwind Traders / Marketing
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Marie Beaudouin 3m ago 📈
Northwind Traders / Announcements
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Can you send me available times for next week please? Daniela

Leave Bot

Conversation
Leave Board
Public Holidays
Help
About
+

Upcoming holidays, 2018

Date	Day	Event
02 Oct 2018	Tuesday	Gandhi Jayanti
19 Oct 2018 <i>Optional</i>	Friday  Long holiday	Dussehra
01 Nov 2018	Wednesday	Kannada Rajyotsava
08 Nov 2018	Thursday	Diwali <i>Office Celebrations on a day before</i> 
25 Dec 2018	Thursday	Christmas

[View All](#)

How to build apps for Teams?

1

Get Started

Connect your content

- Reuse your existing web app in a Tab
- Aggregate with personal apps
- Create the app manifest using Teams App Studio

2

Enhance conversations

Add AI and context

- Enable conversations via Azure Bot Service
- Adaptive Cards
- Use Task Module to transition from chat to web UI
- Add calling, meetings

3

Polish the experience

Build for shareability

- Leverage compose extensions to query content from your app & drop into conversations
- Build UX optimized for Teams

4

Test your app

Iterate and improve

- Get your app's zip package created
- Ensure icon assets match the platform specifications
- Side load into any test to test the experience

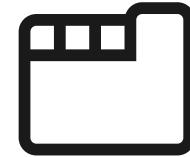
5

Distribute and automate

Make it available

- Publish to your company catalog
- Or, submit to the Office Store
- Improve the experience basis end user feedback and analytics data

Start with a tab for collaboration



Host your app's experience directly within Teams

As simple as embedding existing web app content

Integrate and get context via JavaScript SDK

Example: list of applicants to a job position

The screenshot shows a Microsoft Teams tab titled "Contoso IT > Hiring". The tab content is for a "Senior Software Engineer" position. At the top right, there are statistics: 3 APPLIED, 2 SCREENED, 2 INTERVIEWED, and 0 OFFERED. Below this, the "Job details" section describes the role, mentioning a Req ID of 04057 and a Hiring Manager named Julian Morelli. It specifies the location as San Francisco, CA and the deadline as "As soon as possible". The "Hiring team" section shows three team members. The "Active applicants" section lists three individuals: Meena Atul, Kayo Miwa, and Roberto Ribeiro, each with their application date, internal status (No or Yes), and current stage (Interviewing or Applied). The "Close applicants" section shows 0 items.

Name	Date applied	Internal	Current stage
Meena Atul	09/29/2017	No	Interviewing
Kayo Miwa	09/22/2017	No	Applied
Roberto Ribeiro	09/22/2017	Yes	Interviewing

Personal apps



Coming soon on Mobile

Enable personal productivity using your app in the Teams hub

Surface aggregated content and personal task completion

Offer a complete experience through bot and tabs

Example: My Tasks, My Notes, My Bugs, My Tickets, My Open Positions

The screenshot shows the Microsoft Teams hub interface. On the left, there's a vertical sidebar with icons for Home, Conversations, My tasks, My notes, My bugs, My tickets, My open positions, and Feedback. The main area is titled "Contoso HR" and displays a job posting for a "Senior Software Engineer". The job details include a requirement ID (Req ID 04057), a hiring manager (Allen Morelli), and a location (San Francisco, CA). It specifies that applications should be submitted "As soon as possible". Below the job details, there's a section for "Active applicants" with three entries:

Name	Date applied	Internal	Current stage
Meesha Atai	09/29/2017	No	Interviewing
Kayla More	09/22/2017	No	Applied
Roberto Ribeiro	09/22/2017	Yes	Interviewing

At the top right of the hub, there are four status indicators: 3 APPLIED, 2 SCREENED, 2 INTERVIEWED, and 0 OFFERED.

Start building using the Teams App Studio



Tools to help you build your app

- Define your app's manifest through simple forms
- Card visualizer and code snippet generator
- Web UI control library

New: find documentation topics via chat

New: Teams App Studio saves your app manifest in the cloud

New: in-app registration with Azure Bot Service

The screenshot shows the Microsoft Teams App Studio interface. At the top, there is a navigation bar with tabs: Conversation, Card editor, **Manifest editor**, Control library, and About. Below the navigation bar, the URL is "Home > Create an app".
The main content area has several sections:

- App details**: A section for basic information about the app, including developer name and website. The developer name field contains "Contoso" and has a required value indicator.
- Complete these steps**: A list of steps to distribute the app, with "App details" currently selected.
- App names**: A section for short app names, with "New App" listed.
- Identification**: A section for app ID and version number, with "App ID" containing "300000000-XXXX-XXXX-XXXX-300000000000" and a "Generate" button.
- Capabilities**: A list of capabilities: Tabs, Bots, Connectors, and Messaging extensions.
- Distribute**: A section for testing and distributing the app.

Add your app to a private chat



Now in Developer Preview

Pin the tab in a 1:1 or group chat

Easily reuse the same tab content as in channels

Add a bot to a 1:1 or group chat

Example: list of positions your recruiter is assigned

Example: Query list of positions between a team of 3 recruiters focused on a geography

Recruiting chat ★ ⓘ
2 participants 1 app

Conversation Files Senior Developer +

Senior Software Engineer
Req ID 04057
Hiring Manager: Julian Morelli

3 APPLIED | 2 SCREENED | 2 INTERVIEWED | 0 OFFERED

Job details

We are looking for a Senior Software Engineer to produce and implement functional software solutions. You will work with management to define the software specifications and then implement them ...

San Francisco, CA
As soon as possible

Hiring team

Active applicants 3 items

Name	Date applied	Internal	Current stage
Meena Atul	09/29/2017	No	Interviewing
Kayo Miwa	09/22/2017	No	Applied
Roberto Ribeiro	09/22/2017	Yes	Interviewing

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Test your app

Iterate and improve

- Get your app's zip package created
- Ensure icon assets match the platform specifications
- Side load into any test to test the experience

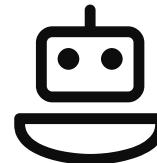
5

Distribute and automate

Make it available

- Publish to your company catalog
- Or, submit to the Office Store
- Improve the experience basis end user feedback and analytics data

Enhance conversations with bots



Integrate with Azure Bot Services

- A. Start with simple command line bots
- B. Natural language interaction for advanced scenarios

New: send or receive files

New: interact with users in private chats

New: multiple structured commands

New: Bot Builder 4.0 SDK support

The top screenshot shows a conversation with a bot named 'Contoso Talent'. The user asks for help, and the bot responds with options like 'Show top recent candidates' and 'Schedule interview'. It also displays a list of recent candidates, including Oscar Blanda, with details like job ID and current role.

The bottom screenshot shows a detailed view of a candidate profile for John Smith (Req ID: 0F812D01). The profile includes his application date (08/29/2018), current role (UX Designer), and a brief description of his experience. It also shows his hiring status (Applied to position 0E25C0E0, Hires 2) and interview details (Interview date Not set, No hires 2). There's a section for referrals and buttons to 'Set interview date' and 'Add comment'.

Complete tasks through Adaptive Cards



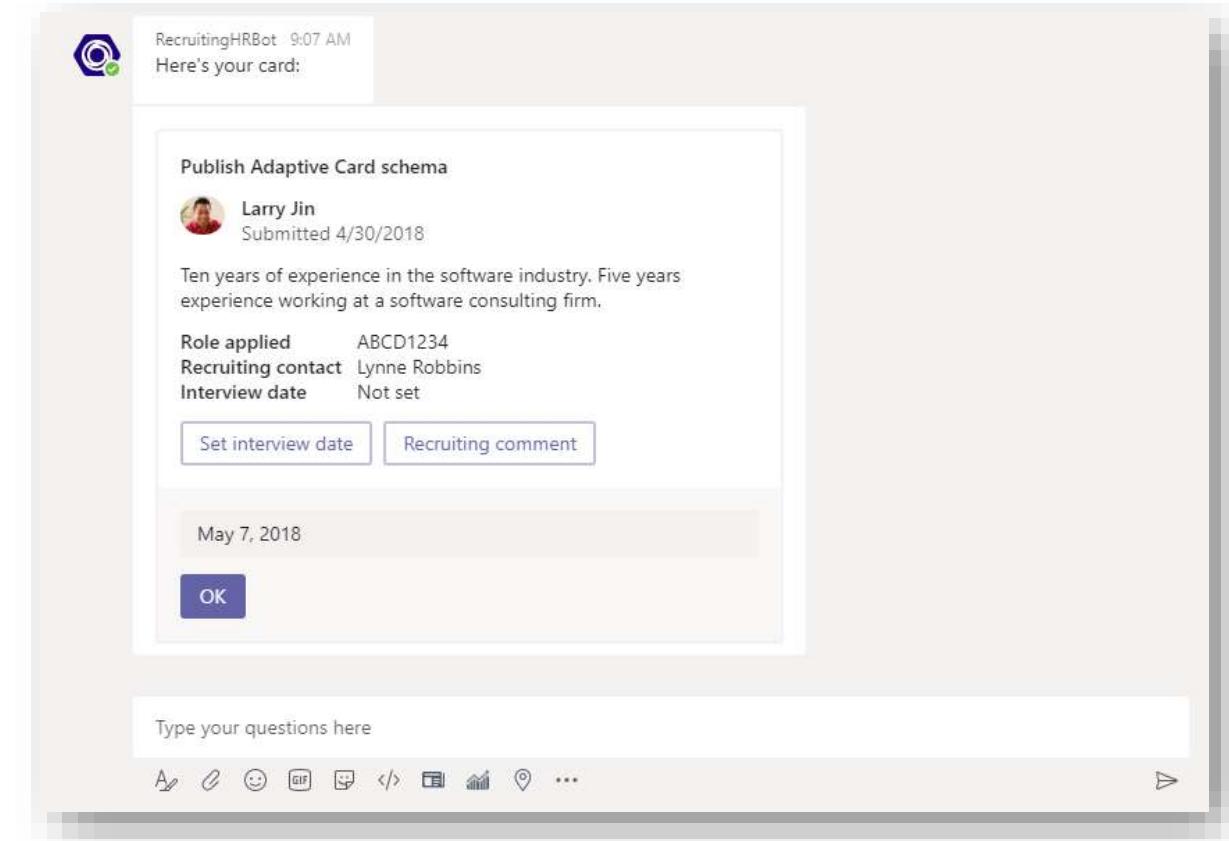
New

Create rich interactive cards

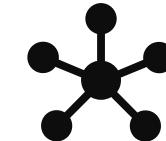
Send from a bot or messaging extension

Users can take quick actions like
comment, select options, set a date

Supported across Microsoft canvases:
Teams, Outlook, Windows



Add insights from the Microsoft Graph

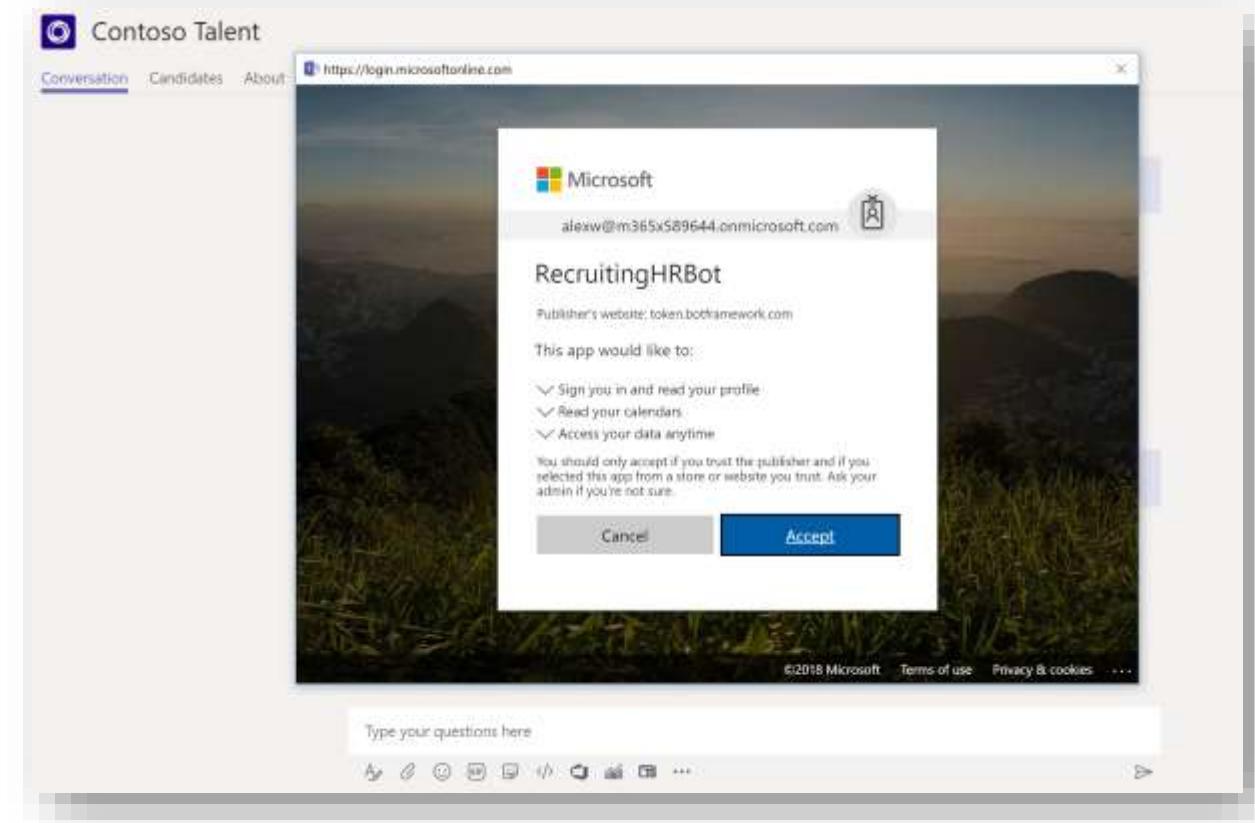


Integrate intelligent and insights directly from the Graph in your Teams app

Build workflows using organizational information eg: manager's approvals

Sign users in through inline login experience

New: simplify credential management via new Azure Bot Services OAuthCard



Programmable Calling & Meetings



Now in Developer Preview

<https://graph.microsoft.com/app/calls>

Call Control

Basic calling

Receive

Answer

Place

Transfer

Hang up

Group calling and Teams Meetings

Join

View Participants

Add Participants

Mute / Unmute

Create Meetings

Interactive Voice Response (IVR)

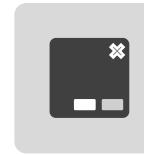
Play Audio Prompt

Capture Audio

Recognize DTMF Tones

Audio Routes

Task Module: rich modal canvas



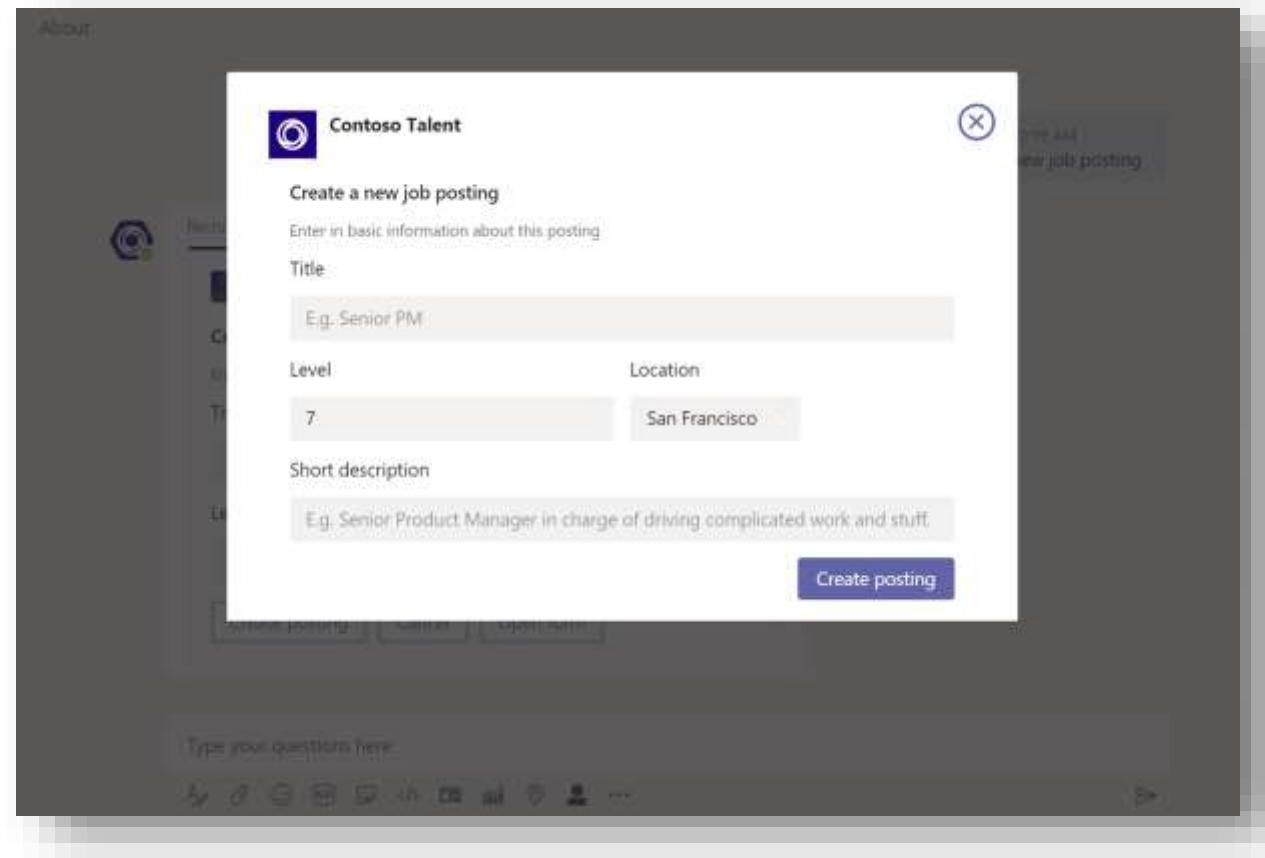
Now in Developer Preview

Open a modal dialog from a card action or link from a tab

Great for

- Filling out longer forms
- Viewing detailed information
- Showing rich media

Embed custom web content or show an Adaptive card



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Iterate and improve

- Get your app's zip package created
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Share content from app into conversations

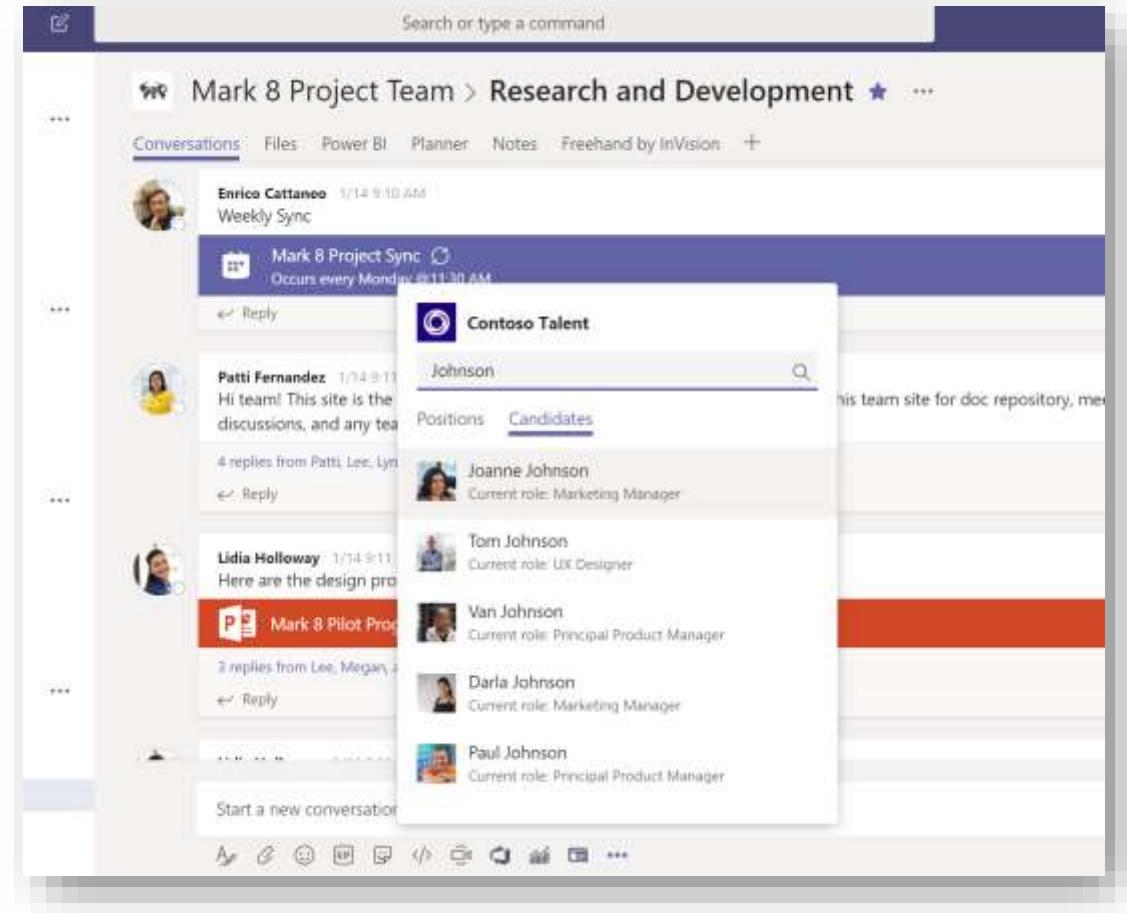


Structured commands through messaging extensions

Query content and drop into conversations using rich cards

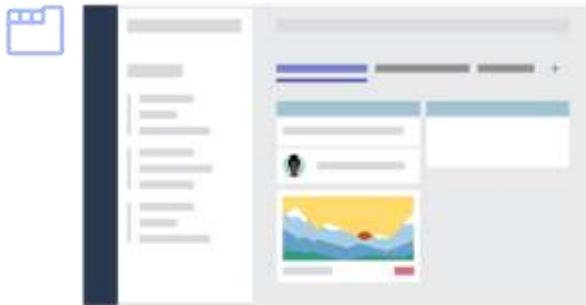
Use adaptive cards now supported in messaging extensions as well

New: multiple commands (up to 10) now supported for each messaging extension



Fine tune your experience to run inside Teams

Make use of extensive design guidelines available in dev docs to make your app a first class citizen in Teams



Channel Tab



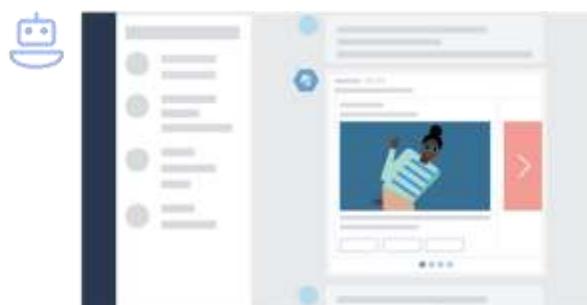
Personal Tab

*Web canvas to access the app
Display summary view, list view or results of all leadership engagements*

Microsoft Teams App Studio provides you with a set of **controls** that you can use in your own apps

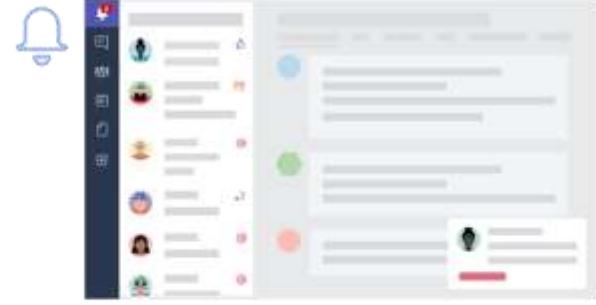


Bot Cards in Chats



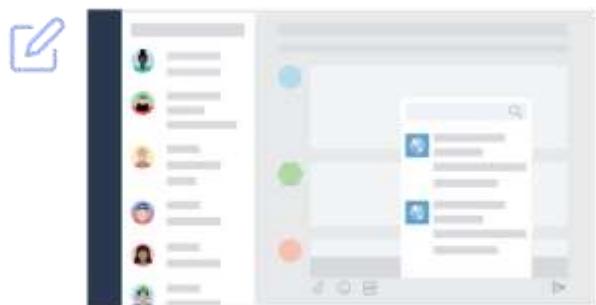
Bot Cards in Channels

*Rich, conversational interface to initiate new conversations, perform quick tasks, workflows and share responses
Get notified about incoming questions, feedbacks, polls etc. and respond quickly*



Activity Feed / Notifications

Get notified about incoming questions, feedbacks, polls etc. via channel or personal bot and respond quickly



Messaging Extension

*Drop rich (actionable) cards in conversations
Virality and shareability*

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Build for shareability

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4

Test your app

Iterate and improve

- Build for mobile
- Review capabilities
- Get your app's zip package created including icons
- Side load into any test to test the experience

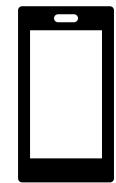
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Distribute and automate

Make it available

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- Improve the experience basis end user feedback and analytics data

Mobile Extensibility

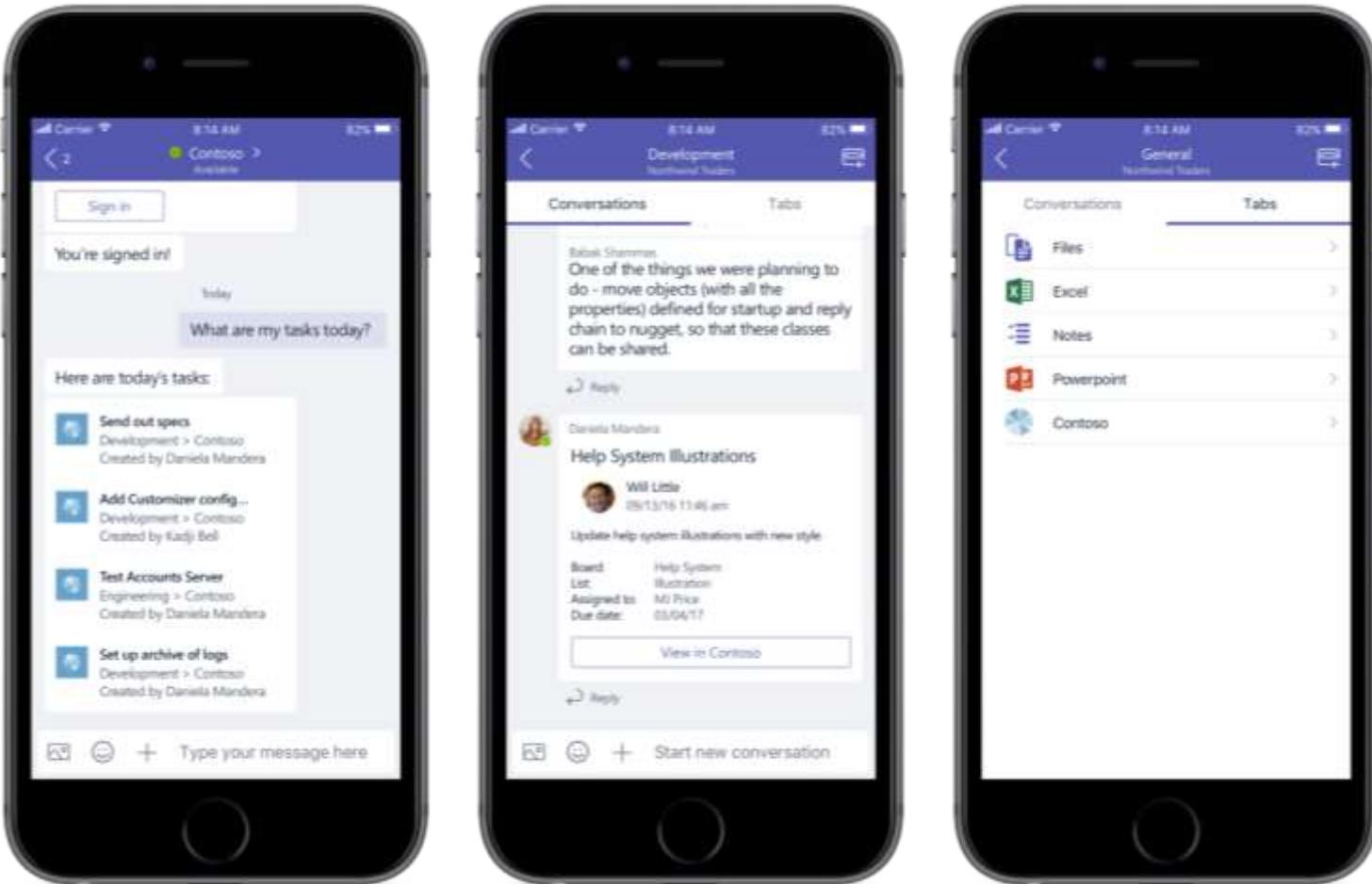


Top Engineering Investment Areas

Adaptive Cards mobile support for Android & iOS

Bring Desktop/Web parity for extensibility on mobile clients

- Personal apps (Tabs + Bots)
- Apps discovery and entry points on mobile clients
- Messaging Extensions
- Task Modules on mobile clients

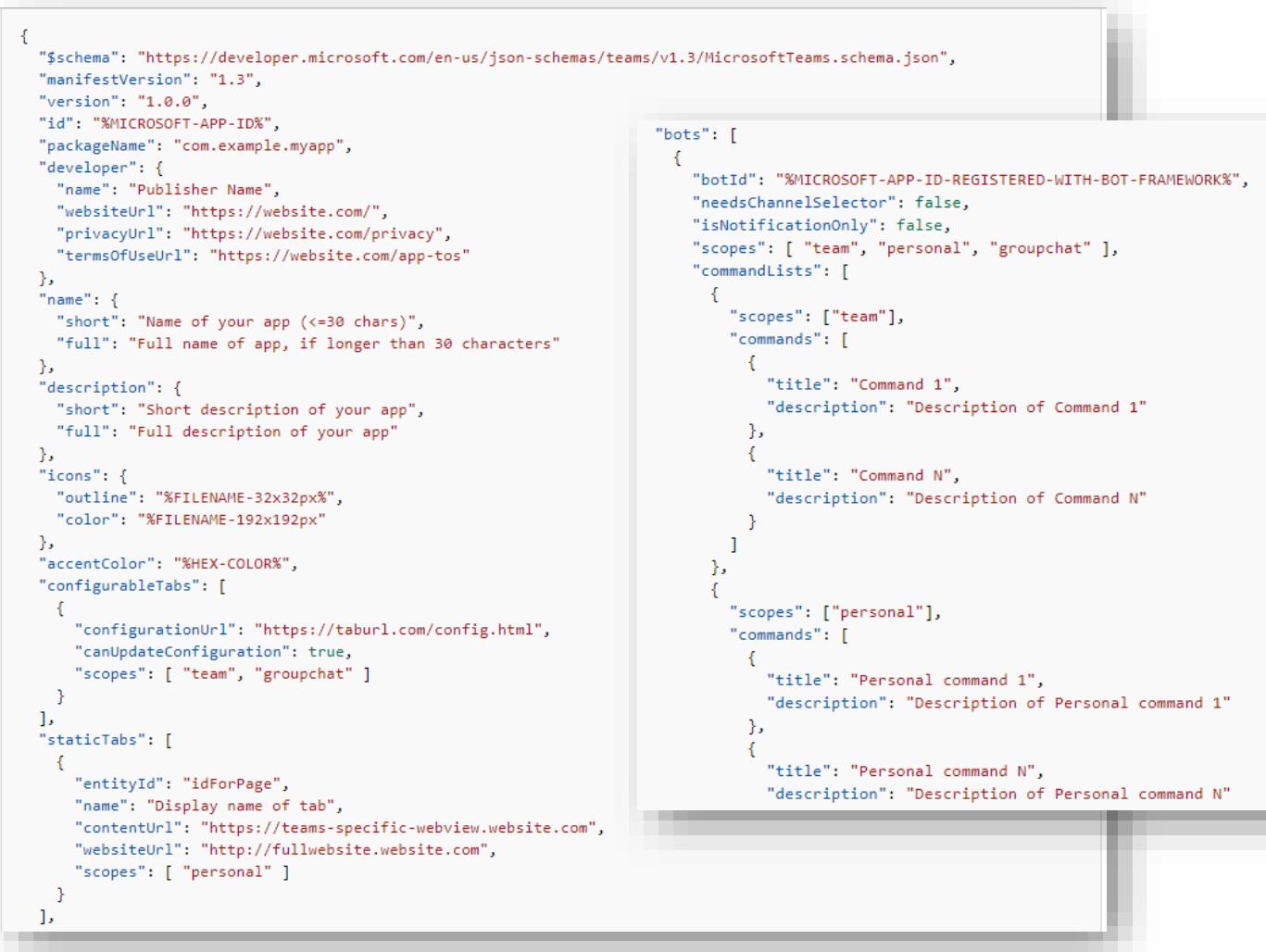


Review your app's capabilities in the manifest

Manifest is a simple JSON file describing your app

- Name, icon, description, and other properties
- List of capabilities and supported contexts
- Get your scopes right
- Reference to dependencies eg: Azure Bot ID, Connector ID, Tab URLs etc.
- Permissions and security metadata

New: Use app studio to build a complete manifest through UI

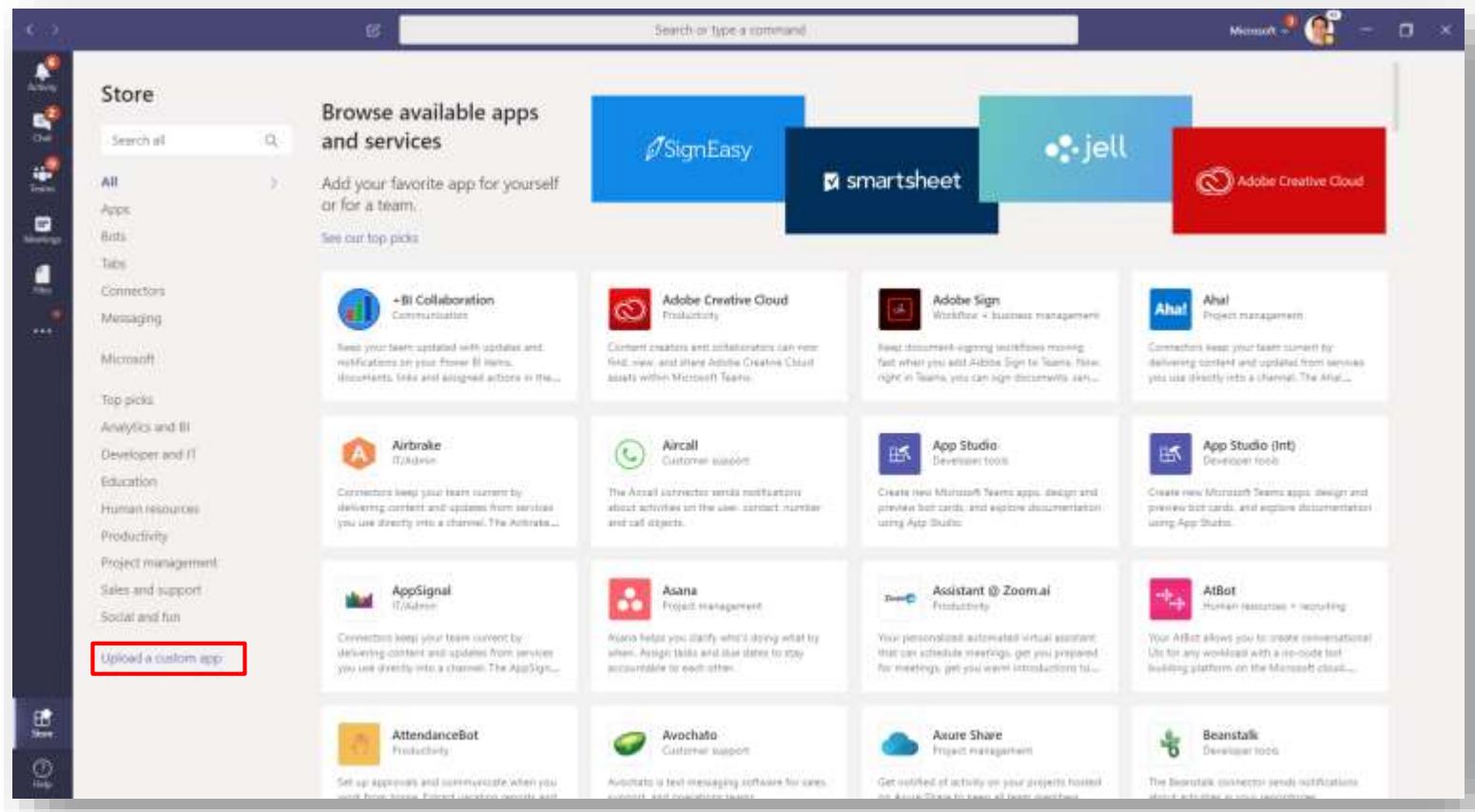


```
{  
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  "manifestVersion": "1.3",  
  "version": "1.0.0",  
  "id": "%MICROSOFT-APP-ID%",  
  "packageName": "com.example.myapp",  
  "developer": {  
    "name": "Publisher Name",  
    "websiteUrl": "https://website.com/",  
    "privacyUrl": "https://website.com/privacy",  
    "termsOfUseUrl": "https://website.com/app-tos"  
  },  
  "name": {  
    "short": "Name of your app (<=30 chars)",  
    "full": "Full name of app, if longer than 30 characters"  
  },  
  "description": {  
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    "full": "Full description of your app"  
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      "websiteUrl": "http://fullwebsite.website.com",  
      "scopes": [ "personal" ]  
    }  
  ],  
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      "isNotificationOnly": false,  
      "scopes": [ "team", "personal", "groupchat" ],  
      "commandLists": [  
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          "commands": [  
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              "description": "Description of Command 1"  
            },  
            {  
              "title": "Command N",  
              "description": "Description of Command N"  
            }  
          ]  
        },  
        {  
          "scopes": [ "personal" ],  
          "commands": [  
            {  
              "title": "Personal command 1",  
              "description": "Description of Personal command 1"  
            },  
            {  
              "title": "Personal command N",  
              "description": "Description of Personal command N"  
            }  
          ]  
        }  
      ]  
    }  
  ]  
}
```

Test and build confidence before releasing

Sideloaded adds the app to the team you select, and you and your team members can interact with it like end users

Now Available: Use App Studio to sideload directly into one of your teams to test the app



How to build apps for Teams?

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Make it available

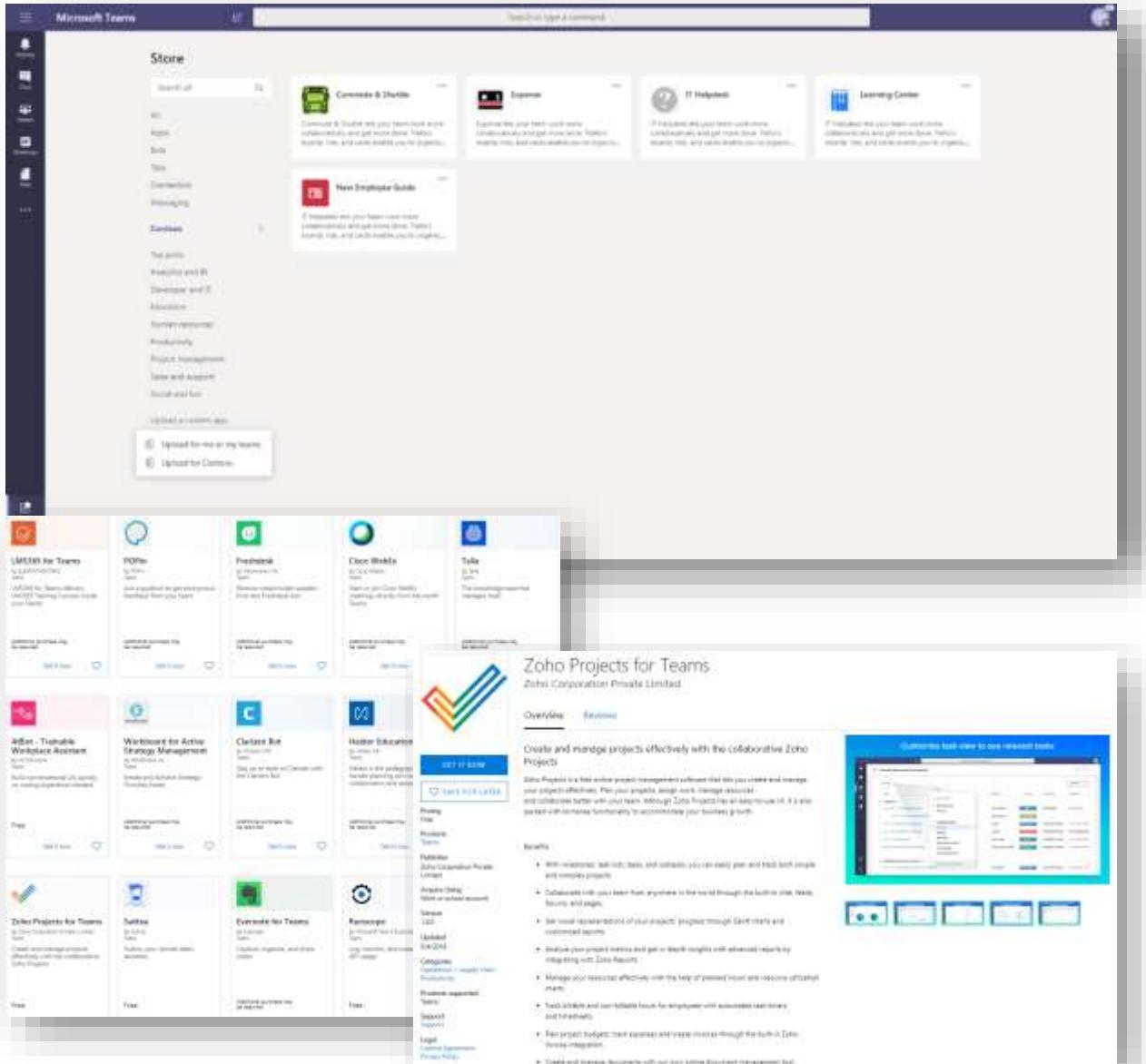
- Publish to your company catalog
- Or, submit to the Office Store
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Publishing your app to the Store

Users can discover custom apps built and published for your organization right within the in-app Apps store in Microsoft Teams

In addition to your company catalog, you can also publish to Office Store

New: Submit to AppSource (increase reach and direct marketing)



Office 365 Admin Portal

The Future of Managing Apps

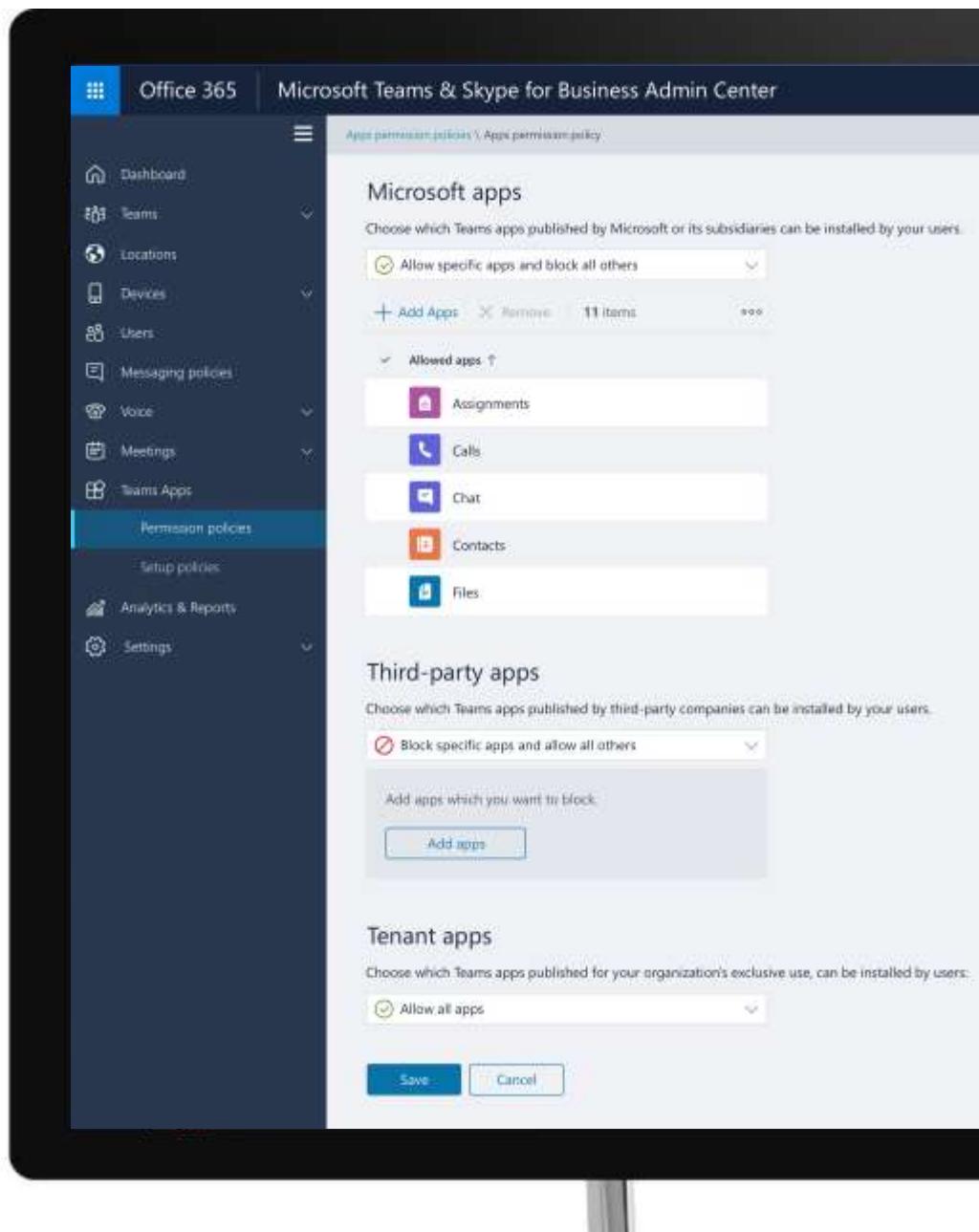
Coming soon!

Granular App Policies

Apply group and user level policies

App Analytics

Understand apps in Teams usage



How to build custom apps for Teams?

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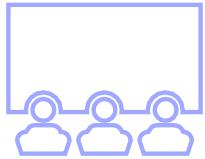
Make it available

- Publish to your company catalog
- Or, submit to the Office Store
- Improve the experience basis end user feedback and analytics data

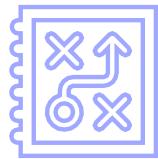
Summary: Tenets of Building on the Teams Platform



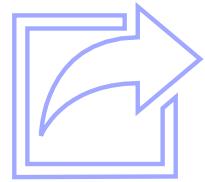
Choose one or more platform capabilities from our offerings to suit your app scenarios



Build immersive apps by implementing multiple platform capabilities in your app



Navigate the user flow from one app capability to another using deep links



Adopt a refined way of querying content & sharing information from your services



Leverage existing SharePoint portals or Websites by bringing them in as tabs



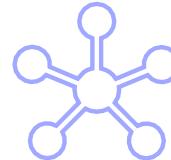
Implement bots to leverage conversations for quick workflows and queries



Notify users 1:1 or in channels through bot notifications in the Activity Feed



Leverage new adaptive cards to surface rich, actionable UI across all clients



Build intelligent apps using Office 365 knowledge available through Graph APIs

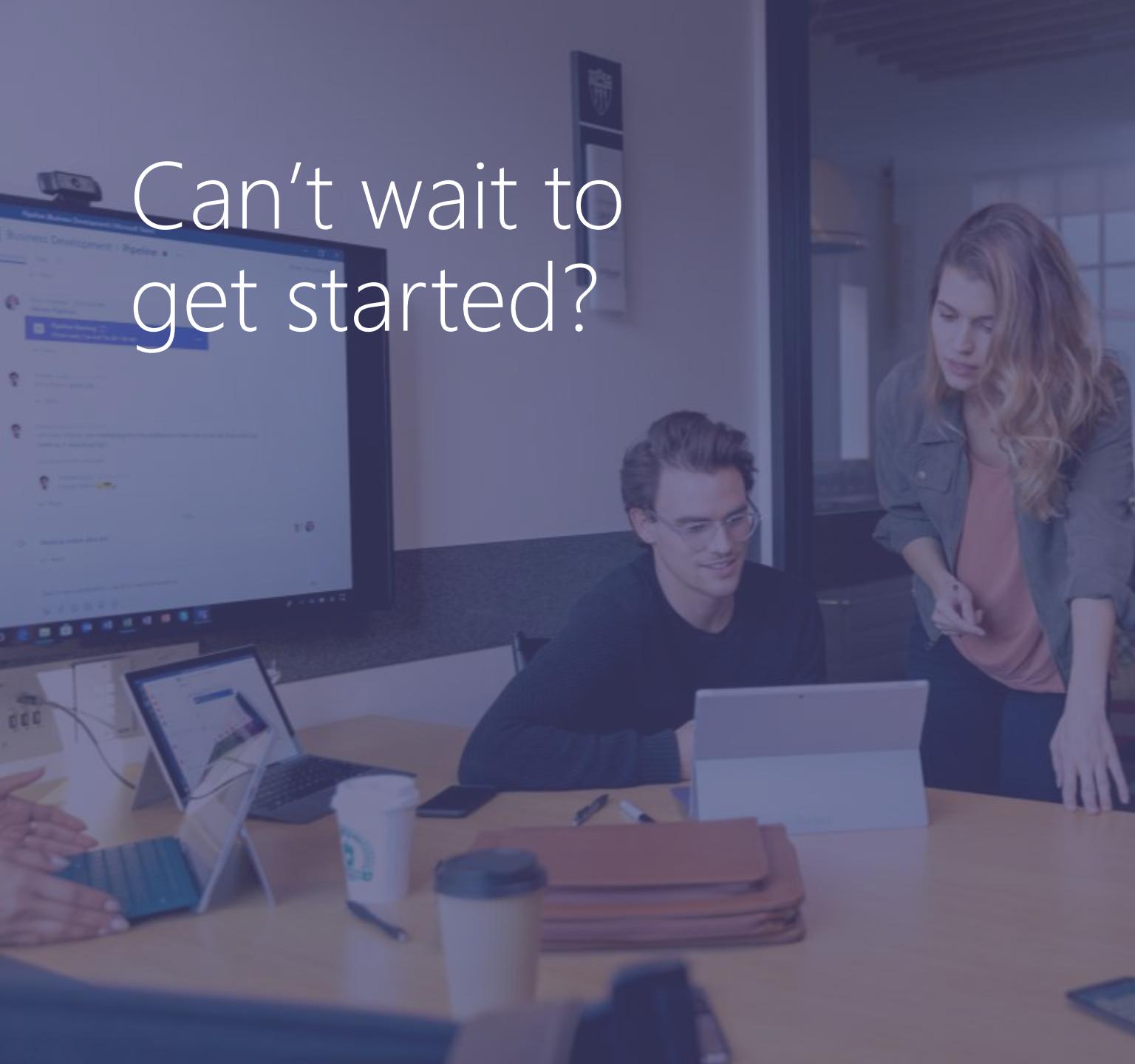


Bake in-the-moment actions right inside your app to reduce context switching



Yours is next?





Can't wait to get started?

Start exploring

- Check out existing integrations already live in the App Gallery (in-app store)
- Play around with [Teams App Studio](#), [Node.js](#), and [c#/NET](#)
- Understand capabilities of the Teams extensible platform
- Brainstorm and finalize scenarios for integrations as a Teams app (tab, bot, messaging extensions, personal apps et al)

Get started developing

- [Teams Developer Documentation](#)
- Teams Sample Code on GitHub

Leverage Teams in-house experts

- Discuss scenarios, best practices, and workarounds
- Send Microsoft extensibility feature asks
- Reach us on: [Microsoft Teams Partner Connect](#)
mstpart@microsoft.com

