

# Microsoft 365 & Power Platform Development – Bi-weekly call

December 22<sup>nd</sup>, 2022

Your host in this call:  
David Warner (Microsoft)



# Agenda

- Latest Updates on community
- PnP .NET libraries
- PnP PowerShell
- Latest on yo Teams
- Latest on the Microsoft Teams Toolkit
- Latest on Microsoft Graph Toolkit
- Independent Publisher Connectors
  
- Latest on script samples
- Latest Microsoft Teams samples
- Latest on Power Platform samples
  
- Picture time with the **Together Mode!**
  
- **Markus Möller** - Extend Teams apps to M365 (Outlook and Office)
  
- **April Dunnam, Luise Freese & Robin Rosengrün** - Power Apps component library: Material design



# Opportunities to Participate in the community

Demo solution  
or technical  
pattern

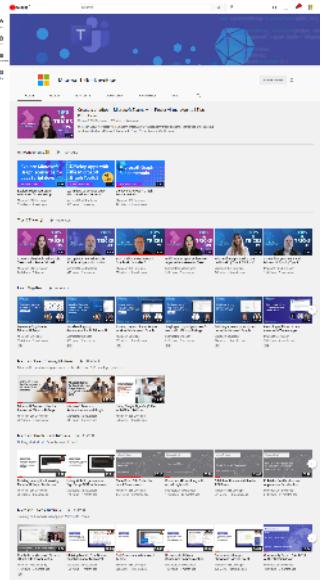
Contribute on  
GitHub

Provide  
feedback

Great opportunity to get visibility for you or your company. Demo sample or explain how you extend or customize SharePoint Online with live demo in your projects. Reach out to team for volunteering.

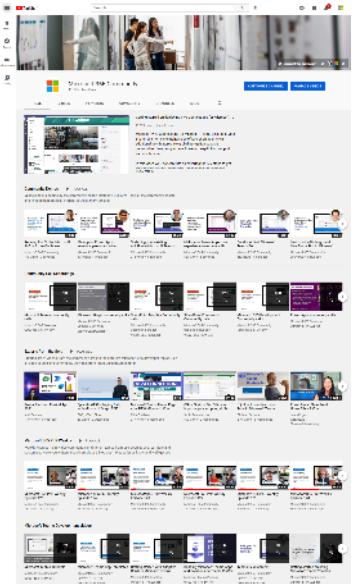
Request a demo spot on the call  
<https://aka.ms/m365pnp/request/demo>

## Microsoft 365 developer videos



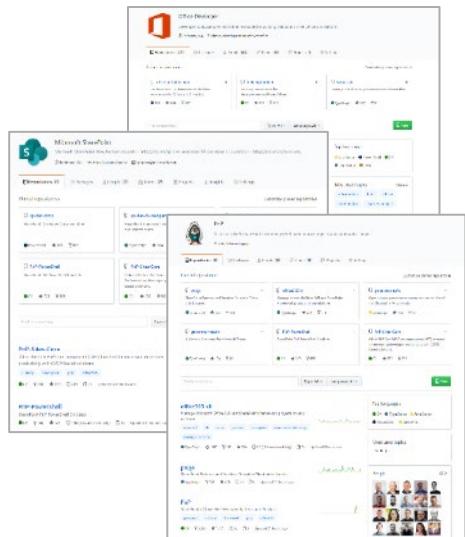
[aka.ms/m365devyoutube](https://aka.ms/m365devyoutube)

## Microsoft 365 community videos



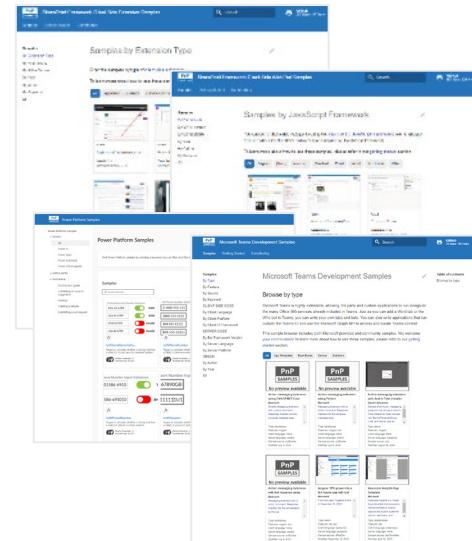
[aka.ms/m365pnp/videos](https://aka.ms/m365pnp/videos)

## Open-source



[github.com/sharepoint](https://github.com/sharepoint)  
[github.com/pnp](https://github.com/pnp)  
[github.com/OfficeDev](https://github.com/OfficeDev)  
[github.com/microsoftgraph](https://github.com/microsoftgraph)

## Sample galleries



[aka.ms/m365/samples](https://aka.ms/m365/samples)  
[aka.ms/teams-samples](https://aka.ms/teams-samples)  
[aka.ms/spfx-webparts](https://aka.ms/spfx-webparts)  
[aka.ms/powerplatform-samples](https://aka.ms/powerplatform-samples)  
[aka.ms/spfx-extensions](https://aka.ms/spfx-extensions)  
[aka.ms/list-formatting](https://aka.ms/list-formatting)

## Open-source initiatives and samples



[aka.ms/m365/community](https://aka.ms/m365/community)

# Microsoft 365 developer community calls

Microsoft 365 platform (weekly) <https://aka.ms/m365-dev-call>

Microsoft identity platform

<https://aka.ms/IDDevCommunityCalendar>

Office Add-ins

<https://aka.ms/officeaddinscommunitycall>

Power Platform

<https://aka.ms/PowerPlatformMonthlyCall>

Microsoft 365 & Power Platform Development (bi-weekly)

<https://aka.ms/m365-dev-sig>

Viva Connections & SharePoint Framework (bi-weekly)

<https://aka.ms/spdev-spfx-call>

Download recurrent invites from

<https://aka.ms/m365/calls>

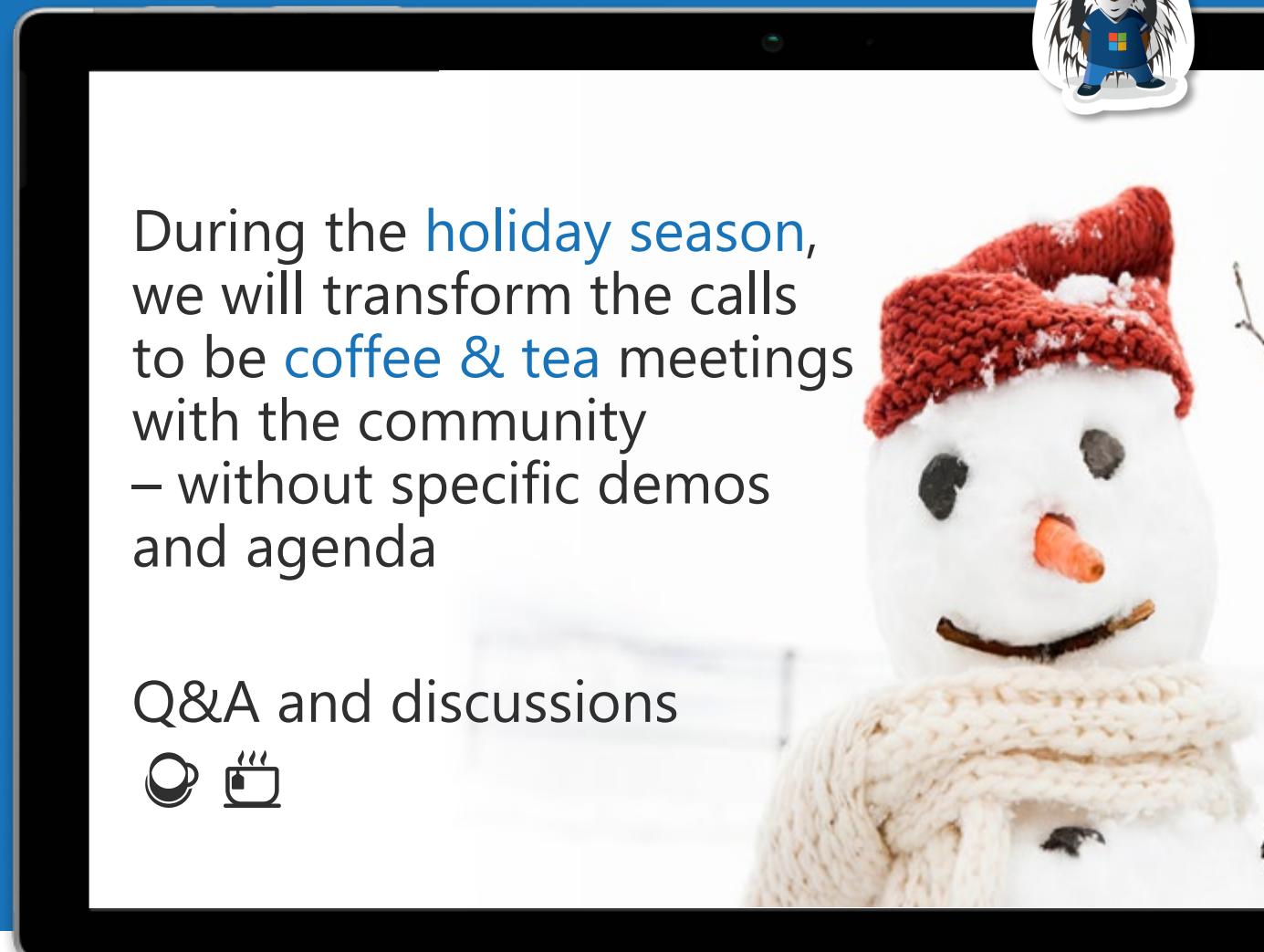
# Microsoft 365 platform call

27<sup>th</sup> of December @8 AM PT

<https://aka.ms/m365-dev-call>

During the **holiday season**, we will transform the calls to be **coffee & tea** meetings with the community – without specific demos and agenda

Q&A and discussions



# GUIDANCE

Learn how to get started in the open-source PnP community!

## Upcoming Sessions:

- **First-time contributor**
- **Power Platform Samples Contributor**
- **Writing for the Web**
- **Community Content Docs**
- **SPFx Developer Workstation Setup**
- **Using PnP SPFx samples w/ NVM**
- **More than code with VS Code**
- **First-time presenter**
- **M365 Maturity Model Practitioners**

New Dates  
Scheduled for  
January 2023



<https://aka.ms/sharing-is-caring>



# Community Recognition Program

- Showcasing your contributions
- Powered by Credly
- More achievement levels coming soon



<https://aka.ms/m365/recognition>



# Project specific updates

Updates and progress on the different open-source tooling lead by Microsoft and community members.

You are welcome to join the projects – your feedback matters! 🚀 ❤️



# PnP .NET libraries

Working on it

## PnP Framework

- >952K downloads!
- Released version 1.11.0
- Support for .NET 7, C# 10
- Documentation site ([PnP Framework documentation](#) | [PnP Framework](#)) started by Paul Bullock 🎉🔗🚀
- New PnP Provisioning Schema v. 202209 is now released:
  - Feedback welcome on GitHub repo (<https://github.com/pnp/PnP-Provisioning-Schema>)
  - Thank you Paolo Pialorsi and Paul Bullock 🎉🔗🚀

Roadmap

<https://github.com/pnp/pnppcore/blob/dev/src/sdk/CHANGELOG.rst>

[nuget.org/profiles/pnp](https://nuget.org/profiles/pnp)  
[aka.ms/pnp/framework](https://aka.ms/pnp/framework)

## PnP Core SDK

- >1.198M downloads!
- Released version 1.8.0
- Support for .NET 7, C# 10
- Fix for page API using float for sectionIndex : Suman Tokori 🎉🔗🚀
- Support for getting a file by id or by any link : Bert Jansen 🎉🔗🚀

What key scenarios  
are still missing?

PnP Core SDK Using the SDK API Documentation Contributing Samples

Using the SDK / SDK basics / Getting started

Enter here to filter...

- SDK basics

- Getting started
- Get data
- Get data using paging
- Adding, updating and deleting data
- Advanced PnPContext use
- Batching requests
- Async or not
- Custom API requests
- PnP Framework interop
- Microsoft Graph SDK interop
- Debugging
- General configuration
- API configuration
- Upgrade from beta2

+ Authentication

- + Sites
- + Webs
- + Lists
- + Fields
- + Content types
- + List Items

Where is the code?

The PnP Core SDK is maintained in the PnP GitHub repository: <https://github.com/pnp/pnppcore>. You'll find:

- The code of the PnP Core SDK in the `src\ sdk` folder
- Examples of how to use the PnP Core SDK in the `src\samples` folder
- The source of the documentation you are reading right now in the `docs` folder

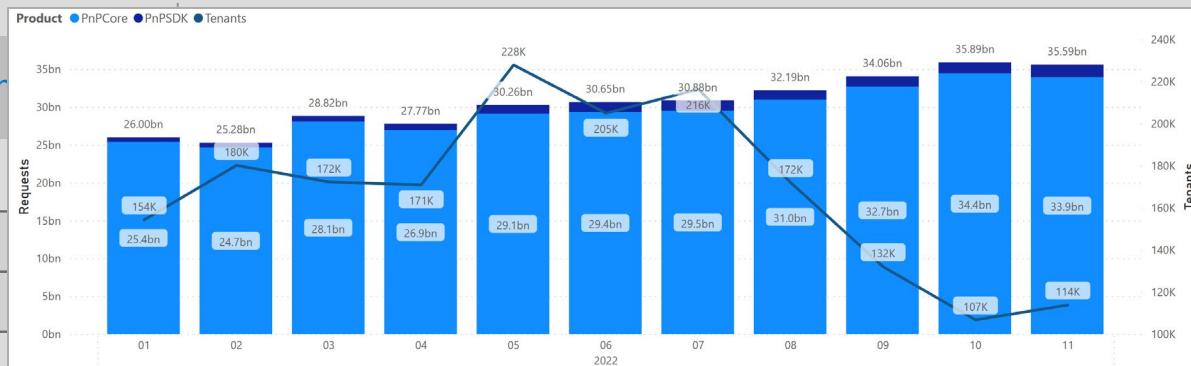
Referencing the PnP Core SDK in your project

The recommended approach is to use the preview `PnPCore` nugget package together with the preview `PnPCore.Auth` nugget package. The former is the actual PnP Core SDK library, while the latter is an helper library that provides a useful set of Authentication Providers to authenticate against Azure Active Directory. Each night these preview packages are refreshed, so you can always upgrade to the latest dev bits by upgrading your `nugget package` to the latest.

**NOTE**

- If you want to use the PnP Core SDK authenticating against AAD, make sure to use the `auto` provider.
- If you want to debug projects, make sure to use the `local` provider.

>35 billion  
requests a  
month!





# PnP PowerShell

Working on it

## Cross Platform PnP PowerShell

V1.12.0 is out !!!

Many updates, improvements and fixes!

- 4.3 million downloads!
- 140 million cmdlets executed per day!!
- Docs shifted, no more [docs.microsoft.com](https://docs.microsoft.com)
- Documentation, Articles and tips available at :  
<https://pnp.github.io/powershell>
- Thinking of dropping support for PS 5, any strong objections ???
- PnP PS runs in [PS 5, PS 7, Azure CloudShell, Azure Functions, Azure Runbooks & Raspberry Pi](#)

### New Stuff

- Bug fixes and improvements continue in nightly builds
- **.NET 6.0 support** is now available. Requires PS 7.2.x or later
- This unfortunately **doesn't work in Azure functions with PS 7.2** due to a product bug, works everywhere else like Windows, Mac, Linux, Azure Runbooks etc.
- Improved **Set-PnPField** cmdlet, now supports ensuring the field is visible in property pane
- Improved **Set-PnPTenant** cmdlet, now added support for EnableAzureADB2BIntegration and SyncAadB2BManagementPolicy properties
- Improved **Add-PnPDataRowsToSiteTemplate** by adding support for KeyColumn to overwrite existing list items
- Would love to hear from you. Discussion/feedback/issues - head to Github ?

>32.000 tenants in a month!



<https://github.com/anoopt/PnP.PowerShell.Predictor>



[github.com/pnp/powershell](https://github.com/pnp/powershell)



[www.powerShellgallery.com](http://www.powerShellgallery.com)  
PnP.PowerShell

<https://github.com/pnp/powershell/blob/dev/CHANGELOG.md>



# yo teams <https://aka.ms/yoteams>

48K

Totals Downloads

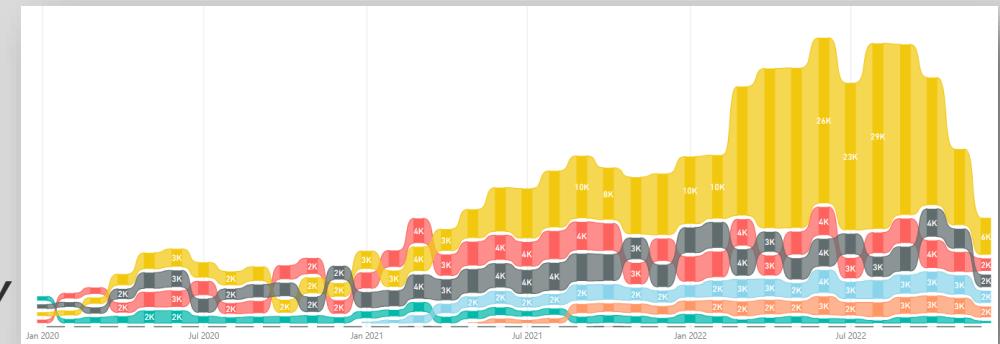
## What's new 🎉

- Preparing a new release for generator-teams v4.1.0 & yoteams-build-core v1.9.0
  - Added support for Teams manifest versions 1.14 and 1.15
  - Fixed some minor things in the generator

## What's next? 💻

- Release version 4.1.0 of yo teams
- Docs, Docs, Docs
- VS Code extension for yo teams (We would love your feedback) → **We're already working on that 😊**
- Support for SSO, MGT, meeting apps and many more
- Idea to produce videos for yo teams (tutorial-like)

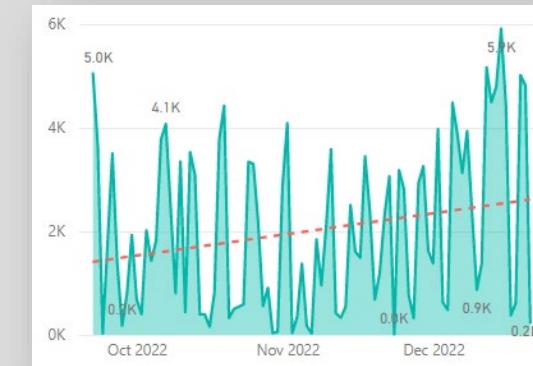
Package Downloads



Daily build events

## We need your help ❤️

- 🛠 Help us fix bugs
- 🚧 Help us build/improve features
- Watch out for "help wanted" & "good first issue" issues → <https://aka.ms/yoteams>





# Microsoft Teams Toolkit

## What's new 🎉

- Latest version currently is 4.2.0 in VS Code – released 21st of December
  - ***Use the new Dashboard tab template to create a personal and collaborative canvas in Teams. Learn more about this new template in the documentation.***
- Step-by-step guidance in Visual Studio Code to assist you while creating a free Microsoft 365 testing tenant.
- Scaffolds that use SharePoint Framework (SPFx) have been updated to use SharePoint Framework version 1.16 which introduces the ability to build experiences for Outlook and Office.com (Microsoft 365 app) in addition to Teams.
- Teams Toolkit for VS updated in version 17.4 - released 8th of November
- Create a Tab with/without SSO, add it later with Add Authentication Code menu
- Add SSO for bot project types

## What's next? 📈

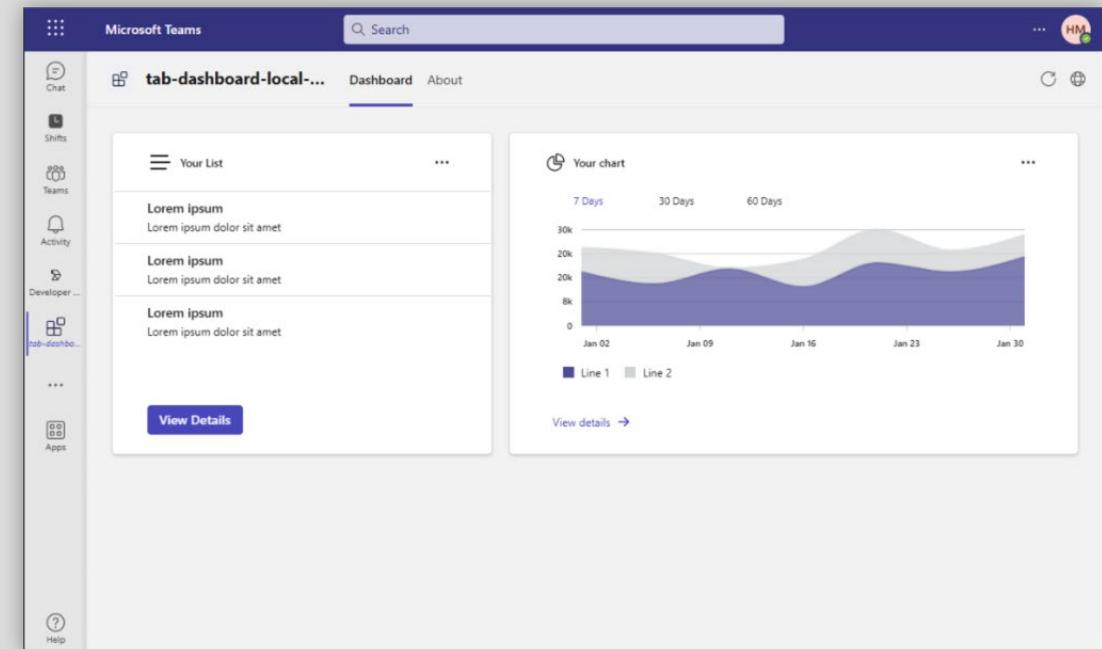
- We're making the orchestration and app model configurable so that each step of the app life-cycle is configurable.
  - Use a different tunneling tool; use scripts to Provision and Deploy; etc.

## We need your help

🐞 Share issue and bug findings at

<https://github.com/OfficeDev/TeamsFx/issues>

- Provide us feedback to further improve the tooling – tell us what you need!





# Microsoft Graph Toolkit

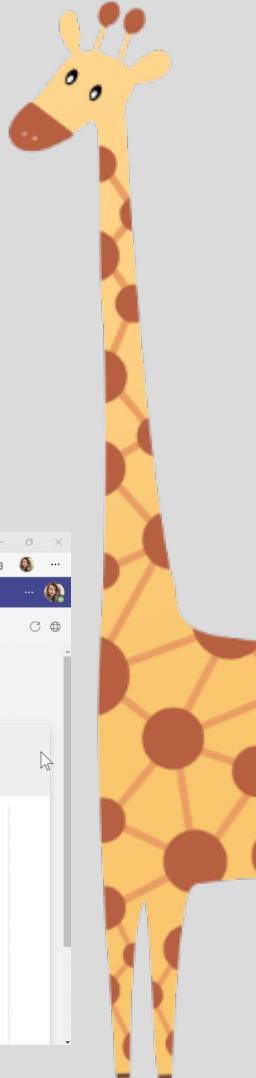
More information: [aka.ms/mgt](https://aka.ms/mgt)

## What's new 🎉

- Just shipped! V2.8.0 is our latest release! Update your packages! <https://aka.ms/mgt/2.9.0>
  - Updates to the mgt-person-card and mgt-people-picker
  - Thanks @nmtoblum and @sympmarc for your contributions 🎉
- The MGT samples repository is live! Keep your contributions coming!  
<https://aka.ms/mgt/samples>

The collage includes:

- Teams channel messages using mgt-get
- Linear events template using mgt-agenda
- Multiple Person display in tooltip
- Emails template using mgt-get
- A Microsoft Teams contact card for Diana Smith
- A Microsoft Teams personal tab showing the One Productivity Hub



## What's next? 🛠️

- Aligning all Toolkit components to Fluent UI Web Components
- More generic components and theming capabilities
- Install our v3.0 preview!
  - npm i @microsoft/mgt@next.fluentui

## We need your help ❤️

- Help us fix bugs
- Help us build/improve features
- help-wanted & good-first-issue -> <https://aka.ms/mgt/issues>

# 900 Power Platform Connectors!

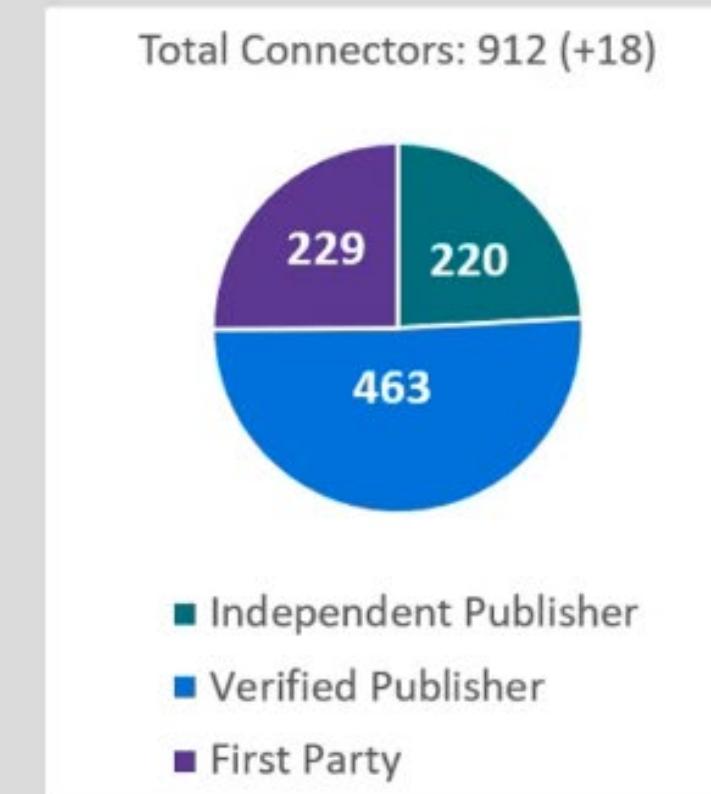




# Independent Publisher Connectors

## What's new ?

- 72 Amazing Independent Publishers!
  - Iona V.
  - Amit K.
- 220 Independent Publisher connectors! (+8)
  - Troy Taylor: DailyMed, Citymapper, TheGoodAPI, Holopin
  - Fordos Andras: FishWatch, Pixel Encounter, Exchange Rate
  - ViaData: SMS Wireless Services



## We need your help

Become an Independent Publisher by building one of these connectors: [Top Connector Asks - microsoft/PowerPlatformConnectors Wiki \(github.com\)](#)

OR

By adding more functionality to one of the existing Independent Publisher connectors on the Power Platform



# SCRIPT SAMPLES

Site now has 148 scenarios and 198 scripts, using Microsoft Graph, PnP PowerShell, SPO Management Shell tooling, CLI for Microsoft 365 and more... 😊 AND samples integrated into *Microsoft Sample Solution Gallery*

Awesome 🎉😊🎉🎊 Samples Include :

*New Scenarios using PnP PowerShell*

- Extract the configuration of a PnP Modern Search results web part and apply it on another site collection by **Kasper Larsen**

Remember to opt-in to  
the recognition program



**Want to contribute:**

- We have contribution guidance to get going using the "contributing" link on the site navigation or reach out to **Paul Bullock** on Twitter (@pkbullock), open to DMs, if you need help to get going.

**Thank you for your samples and contributions – your awesome!**



One centralized location for all scripts  
for helping your day-to-day life.  
Contribution's welcome!

A screenshot of a PowerShell Core window titled "PowerShell Core". The command ".\HappyHolidays-Community.ps1" is run from the path "PS C:\Git>". The output is a large, pixelated "HAPPY HOLIDAYS" message in white on a dark background, with "Thank you for EVERYTHING you do within the community! #CommunityRocks!" below it. The PowerShell window has a dark theme.



[aka.ms/script-samples](http://aka.ms/script-samples)



# Microsoft Teams Samples

## Teams App Sample of the Week

« Useful and inclusive »

Meeting tab that records names so everyone can pronounce them properly

Markus Moeller | @moeller2\_0

<https://aka.ms/tab-meeting-record-name>

Please share your Teams app samples!

<https://github.com/pnp/teams-dev-samples>



Also, check out all the samples at  
<https://aka.ms/m365/samples>

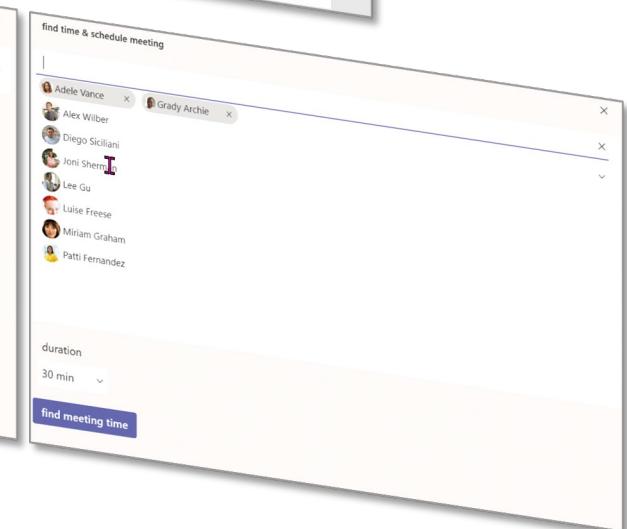
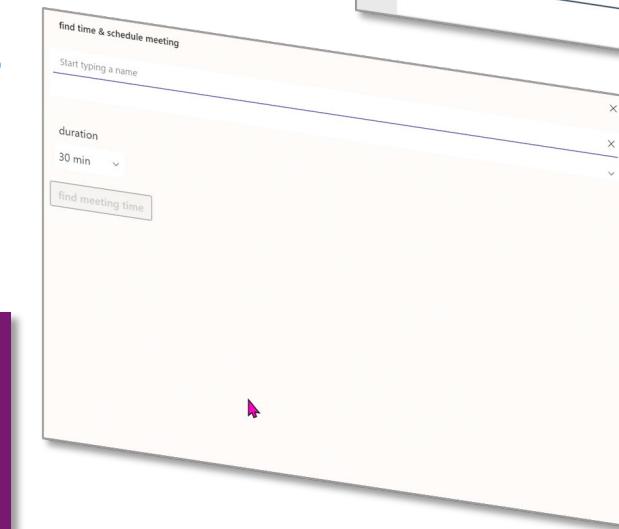
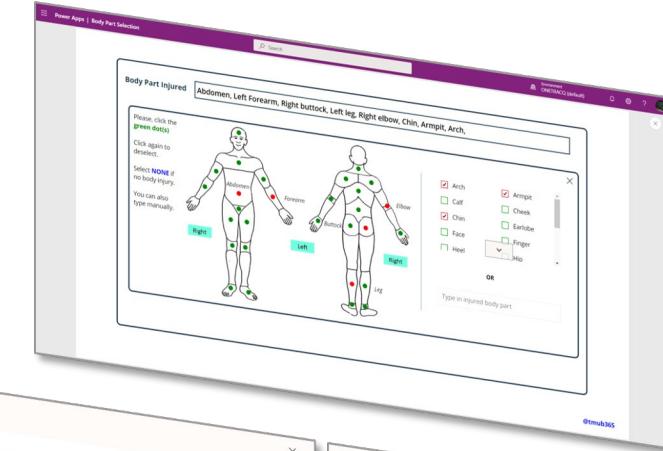
The screenshot shows the Microsoft Teams interface with the "Pronounce name" app open. At the top, there are icons for video, microphone, and upload, along with a red "Leave" button. Below that, the title "Pronounce name" is displayed. On the right, there are three entries for "User name recordings": 1. Markus Möller with a photo of a man, play, pause, and volume controls. 2. Hans Hansen with a photo of a teddy bear, play, pause, and volume controls. 3. Jens Jensen with a photo of a hare, play, pause, and volume controls.



# Power Platform Samples

New:

- Injured Body Part Selection Gallery App  
**Mubarak Adeyemo** | HCS Business Solutions
- Microsoft Graph toolkit People Picker  
**Luise Freese**
- SharePoint copy pages between sites  
**Thijs Hereygers** | Capgemini
- Set Dataverse lookups  
**Taylor Becktold** | RSM US LLP

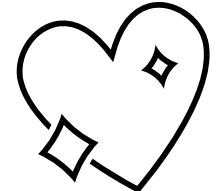


Join the Power Platform Contributors  
Sharing is Caring Session – January 10th

# Optional picture time!

Video on and we'll grab  
a Together Mode pic  
with those who are  
willing to do this.

We are together on this  
as a community!



*By enabling your camera for the picture, you'll give us the permission to share your picture in social media.*



# DEMO

- Extend Teams apps to M365  
**(Outlook and Office)**
  - Markus Möller
- Power Apps component library: Material design
  - April Dunnam
  - Luise Freese
  - Rudolf Rosengrün

# Thank you

Recording will be available in 24 hours on  
Microsoft 365 Community (PnP) YouTube channel

<https://aka.ms/m365/videos>

*(subscribe today)*

Follow us on Twitter  
[@Microsoft365Dev](https://twitter.com/Microsoft365Dev) | [@M365PnP](https://twitter.com/M365PnP)

Next M365 General Dev call: **January 5<sup>th</sup> at 07:00am PT**

Next Viva Connections & SharePoint Framework call: **December 29<sup>th</sup> at 07:00am PT**

See all other community calls from <https://aka.ms/m365/calls>



Thank you