

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

March 16<sup>th</sup>, 2023

Your host in this call:  
David Warner (Microsoft)

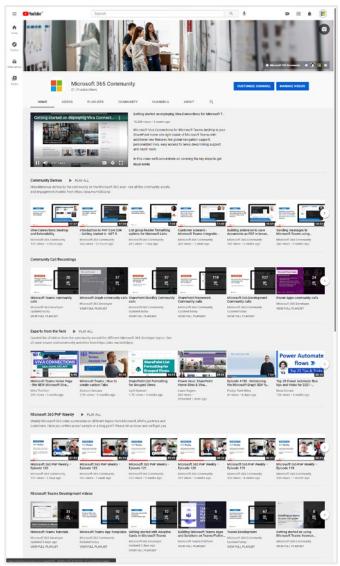


# Agenda

- 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!**
  
- **Matt Jimison** - Harnessing the Power of OpenAI inside Power Virtual Agents
  
- **Hugo Bernier** – Editing Site Headers in Power Pages



## Microsoft 365 & Power Platform community videos



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

Subscribe today!

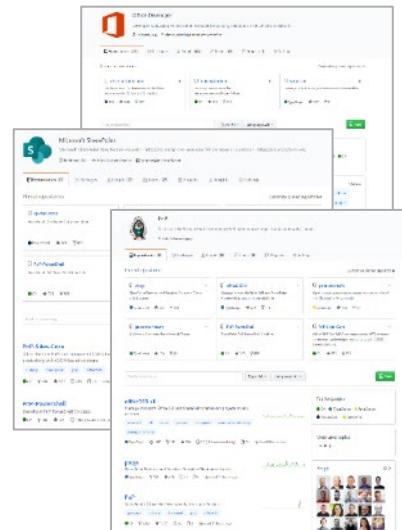
## LinkedIn group for discussions



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

Join today!

## Open-source



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

## Sample galleries

The Sample Solution Gallery displays various sample solutions for different Microsoft products. The products listed include:

- Microsoft Lists
- Microsoft Teams
- Azure AD
- Office
- Power Apps
- Power Automate
- Power Fx
- SharePoint
- Viva
- Microsoft Graph

Some of the samples shown are:

- One Productivity Hub (using Microsoft Lists)
- SPFx Form customizer (using Microsoft Lists)
- Working with provider-hosted add-ins (using Microsoft Lists)
- Lead Dashboard 1 (using Microsoft Lists)
- Review pending SharePoint item (using Microsoft Lists)
- Review SharePoint 2019 personal app (using Microsoft Lists)

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

[aka.ms/teams-samples](https://aka.ms/teams-samples)

[aka.ms/spfx-webparts](https://aka.ms/spfx-webparts)

[aka.ms/spfx-extensions](https://aka.ms/spfx-extensions)

[aka.ms/powerplatform-samples](https://aka.ms/powerplatform-samples)

[aka.ms/list-formatting](https://aka.ms/list-formatting)

## Open-source initiatives and samples



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

Follow us in Twitter for updates at @m365pnp – or see the updates in LinkedIn

# Microsoft 365 & Power platform community calls

Microsoft 365 & Power Platform  
(Weekly with Microsoft Speakers)

<https://aka.ms/community/ms-speakers-call-invite>

Power Platform (monthly)

<https://aka.ms/PowerPlatformCommunityCall>

Microsoft identity platform (monthly)

<https://aka.ms/IDDevCommunityCalendar>

Office Add-ins (monthly)

<https://aka.ms/officeaddinscommunitycall>

Microsoft 365 and Power Platform community (bi-weekly)

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

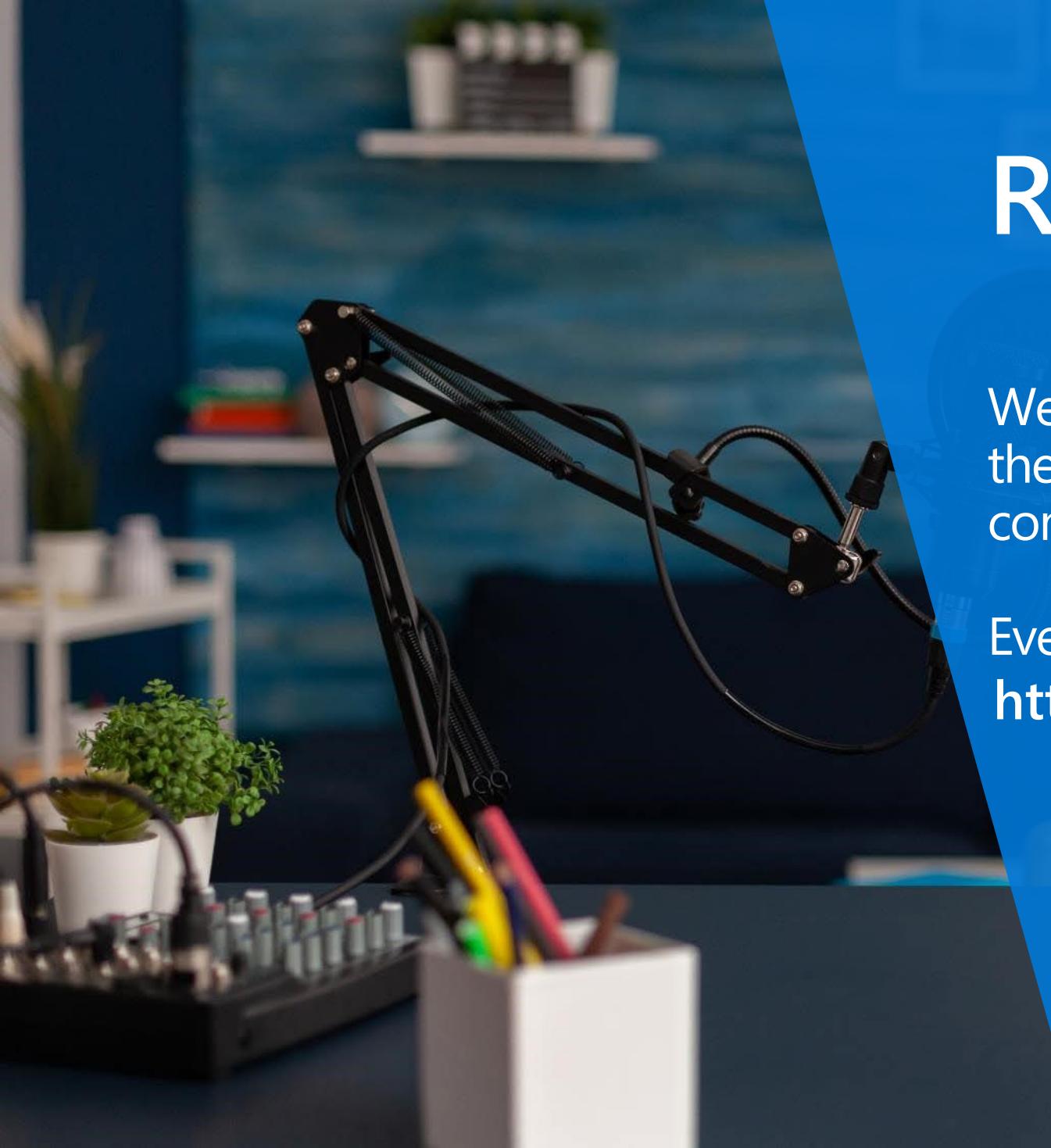
Viva Connections & SharePoint Framework (bi-weekly)

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

Download recurrent invites from  
**<https://aka.ms/community/calls>**

Agendas for the calls published in social media and in  
<https://aka.ms/community/meetup>





# Request to Present

We welcome everyone to present a demo on the Microsoft 365 & Power Platform community calls

Everyone is welcome!!!

<https://aka.ms/community/request/demo>



# Microsoft 365 & Power Platform (Microsoft Speakers)

21<sup>st</sup> of March @8 AM PT

- Latest news from Microsoft engineering on the [Microsoft 365 & Power Platform](#) topics
- Community together mode group photo
- **Tomas Chladek** – Additional Azure Communication Services Features for your solutions
- **Gary Pretty** – Power Virtual Agents – latest features and capabilities
- **Garry Trinder** - Teams Toolkit Learn Path - Deploy a Microsoft Teams app to Azure using Teams Toolkit for Visual Studio Code

<https://aka.ms/community/ms-speakers-call-invite>



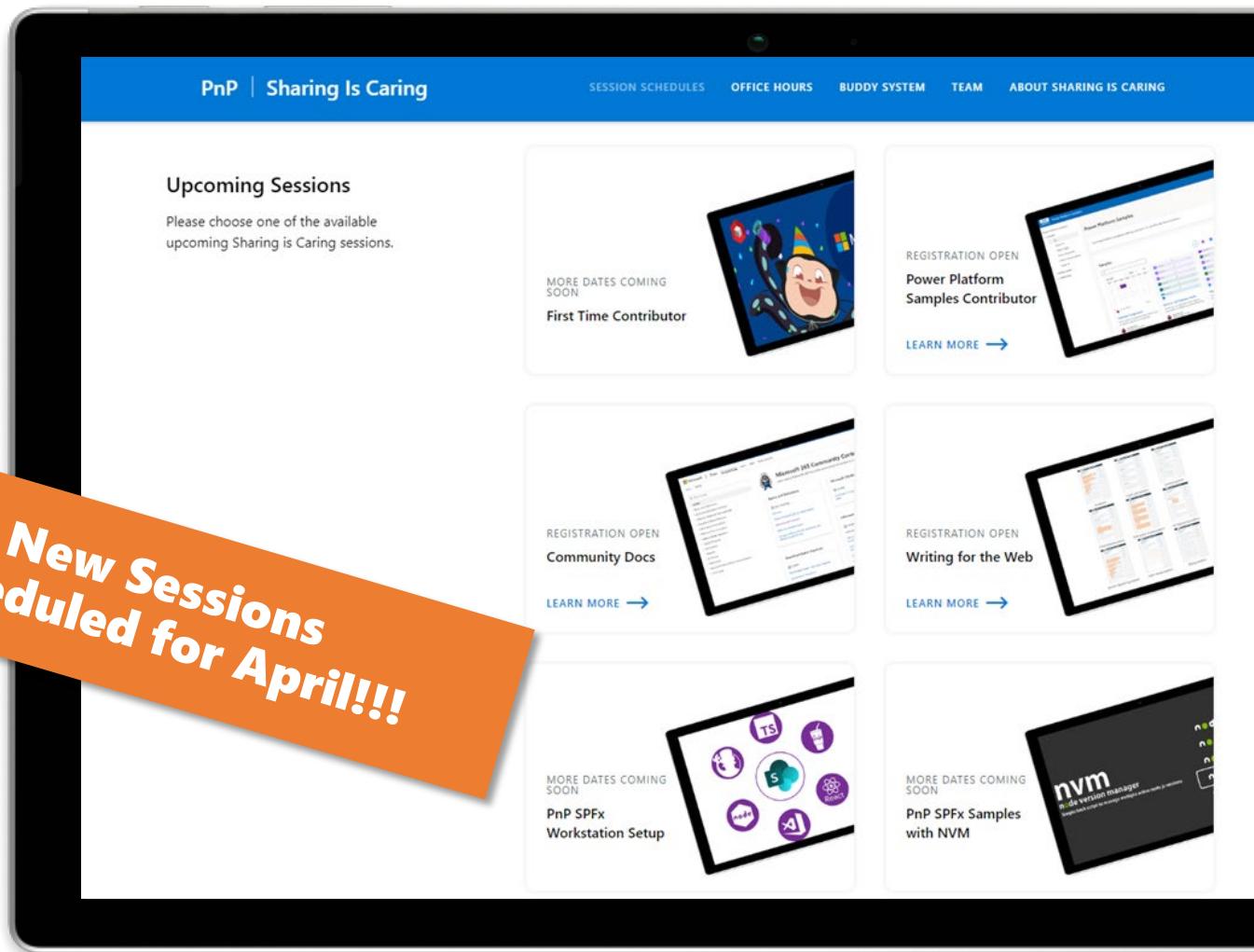
# GUIDANCE

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 Sessions  
Scheduled for April!!!



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

# COMMUNITY



<https://aka.ms/community/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

Roadmap

## PnP Framework

- >1.162M downloads!
- Prep for version 1.12.0 (end of March)
- Documentation site ([PnP Framework documentation](#) | [PnP Framework](#)) started by Paul Bullock 🎉🚀
- Support multiple default values when provisioning folders: Roberto Ramon 🎉🚀
- MailUtility improvements, support for vanity domain tenants in SearchExtensions: Koen Zomers 🎉🚀
- Support for different azure environment for team site creation, package dependency updates: Gautam Sheth 🎉🚀
- Interop with Core SDK improvements: Bert Jansen 🎉🚀

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

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

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

## PnP Core SDK

- >1.435M downloads!
- Prep for version 1.9.0 (end of March)
- Support for listing, adding and revoking permission grants for an app principal: Martin Loitzl 🎉🚀
- Ensure the 'Everyone except external users': Patrick Lamber 🎉🚀
- Create private/shared Teams channels: Jake Stanger 🎉🚀
- Support for discovery of SharePoint AddIns and Azure ACS principles, package dependency updates, various smaller fixes 🎉🚀

What key scenarios  
are still missing?

[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](#)
  - [Asyn 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](#)

**Getting started with the PnP Core SDK**

The PnP Core SDK is designed to be used in modern .Net development, hence it relies on dependency injection (generic host) for its core services. This implies that before you can actually use the PnP Core SDK you need to configure the needed services. Once that's done you can obtain a [PnPContext](#) from the [PnPContextFactory](#) and start using the library.

**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.nuget package](#) together with the preview [PnPCore.Auth.nuget 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 nuget package to the latest version.

**NOTE**

- If you want to use the PnP Core SDK authentication provider, simply add the [PnPCore.nuget package](#) to your project. The correct PnPCore.nuget package will be automatically added as a dependency.
- If you want to use the PnPCore.Auth.nuget package, you can include it in your project as a dependency.

133K tenants  
and 39B  
requests in a  
month!





# PnP PowerShell

Working on it

## Cross Platform PnP PowerShell

V1.12.0 is out, the newer 2.x is available in nightly builds !!!

Many updates, improvements and fixes!

- 5.5 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>
- PnP PS runs in [PS 7.2.x, Azure CloudShell, Azure Functions, Azure Runbooks & Raspberry Pi](#)
- Runs on Windows, Mac and Linux

### New Stuff

- Dropped **PS 5 support**, the 1.x versions will keep working in PS5 , encourage folks to update to PS 7.2 or later
- Improved **Restore/Clear-PnPRecycleBinItem** to support large no. of items
- Added **OpenDocumentsMode** parameter to **Set-PnPList** cmdlet
- Improved **Add/Set-PnPListItem** cmdlet for people/group column when using Batch parameter
- Improved **Register-PnPAzureADApp** certificate handling process
- Improved **Get-PnPUserProfileProperties**, will retrieve all properties
- Improved **Get-PnPField** , will always return the specific field type
- **Would love to hear from you. Discussion/feedback/issues - head to Github ?**

>37K tenants and 37B requests in a month!



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



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

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

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

49K

Totals Downloads

## What's new 🎉

- We have a new release →
  - **generator-teams@4.1.0**
  - **yoteams-build-core@1.8.1-preview**
  - **yoteams-deploy@1.4.0-preview**
- Added support for Teams manifest versions 1.14 and 1.15
- Fixed some minor things in the generator & docs
- **Give it a try** → `npm install generator-teams --global`

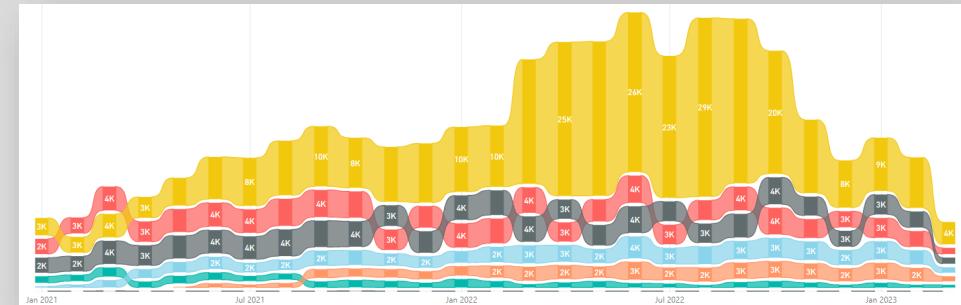
## What's next? 💻

- 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)

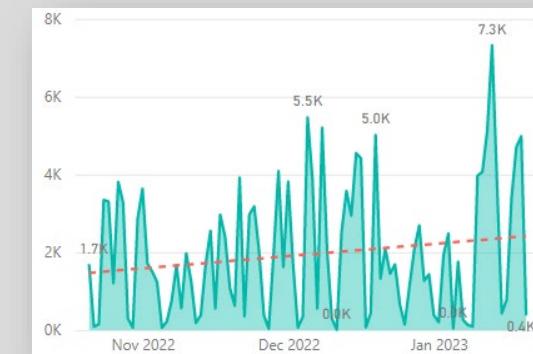
## We need your help ❤️

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

Package Downloads



Daily build events



```
# -----  
# > teamsfx pulse --year 2023 --week 11  
# -----
```



```
# -----  
# The latest highlights on Microsoft Teams developer tools  
# -----  
# Product           ::Recent highlights          > 5.0 Pre-Release  
#                   -vscode-extension             > Composable automation  
#                                         > Automatic channel registration  
#                                         > React 18 support, other QoL  
#                                         > ???  
#                                         > Productivity 🚀  
# -----  
# Community          > Thanks for your feedback!  
#                         > Want to chat?  
#                         > https://aka.ms/ttk-chat
```



# Microsoft Graph Toolkit

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

## What's new 🎉

- Just shipped! V2.9.2 is our latest stable release! Update your packages! <https://aka.ms/mgt/2.9.2>
  - Updates to the mgt-person
  - Thanks @JoshWhite for your contributions 🎉
- Just shipped! V3.0.0-Preview.1 is now available! Try it NOW! <https://aka.ms/mgt/3.0.0-preview.1>
- The MGT samples repository is live! Keep your contributions coming! <https://aka.ms/mgt/samples>

## What's next? 🛠️

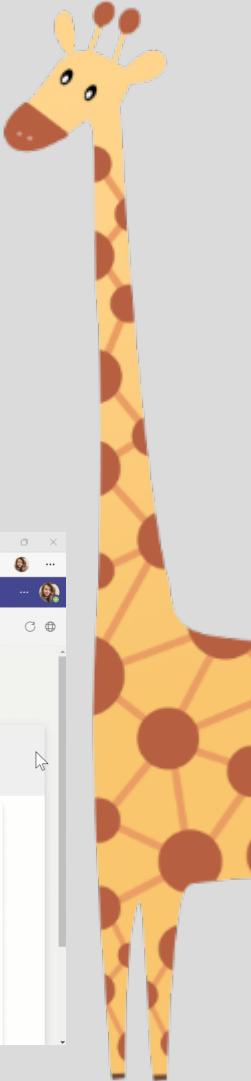
- A new preview happening every month until GA!
- Install our next packages!
  - `npm i @microsoft/mgt@next`

## We need your help ❤️

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

The screenshot displays several Microsoft Teams windows illustrating the Microsoft Graph Toolkit's capabilities:

- Teams channel messages using mgt-get:** Shows a message from Sébastien Levert with a link to a monthly digest.
- Linear events template using mgt-agenda:** Shows a calendar view for March 11-12, 2022, with events like "Friday Unwinder at Cafeteria" and "Server Upgrades at Server Room".
- Multiple Person display in tooltip:** Shows a tooltip for André Lage displaying multiple user profiles.
- Emails template using mgt-get:** Shows an email from Sébastien Levert with a link to a monthly digest.
- Contact card:** Shows a detailed contact card for Diana Smith, including her photo, title, department, phone number, and location.
- One Productivity Hub:** A central hub for managing tasks, files, and calendar events.





# Independent Publisher Connectors

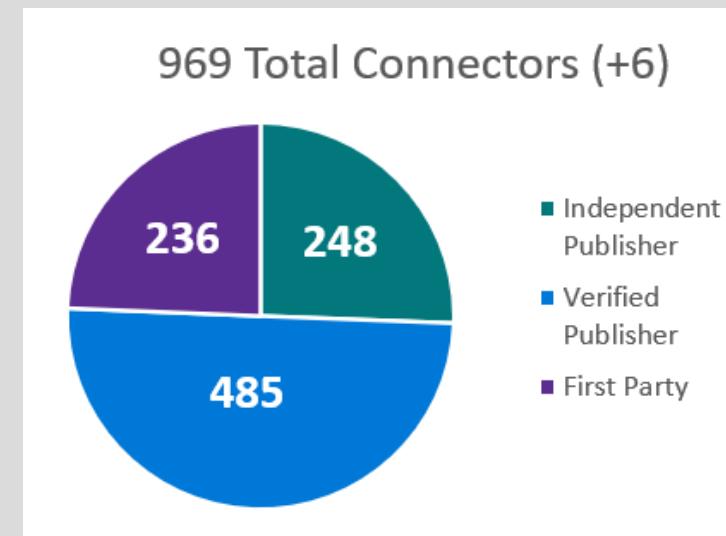
## What's new?

- 79 Amazing Independent Publishers!
- 248 Independent Publisher connectors! (+2)
- Ashwin Ganesh Kumar: Rijksmuseum
- Osazee Oodiegie: Originality.AI

The Low Code Revolution

### Add OpenAI Capabilities to your Power Platform solutions

hosted by  
April Dunnam  
Jocelyn Panchal  
Robin Rosengrün



Power Platform Integrations / Connectors LABs Participant Form

Scan me to participate!

## We need your help

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

OR

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



# SCRIPT SAMPLES

Site now has **175 scenarios and 229 scripts**, using Microsoft Graph, PnP PowerShell, SPO Management Shell tooling, CLI for Microsoft 365 and more... 😊 AND samples integrated into *Microsoft Sample Solution Gallery*

New set of awesome 🎉 😊 🎉 scenarios and samples:

## New Scenarios – Microsoft Graph SDK (PowerShell)

- Create test users using MS Graph API from a list or ask ChatGPT to generate users by **Valeras Narbutas**
- Loacat all Teams having a Wiki and export the list to CSV by **Valeras Narbutas**

## New Scenarios using PnP PowerShell

- Update SharePoint Page Banner Image by **Ganesh Sanap**
- Using a PnP Site Template including files and list items by **Kasper Larsen**

## Updated Scenarios using Microsoft Graph SDK PowerShell

- Multilingual SharePoint Page Summerization with Open AI API and Microsoft Graph PowerShell by **Anoop Tatti**

## Site Improvements – SEO Sitemap for improved sample discoverability

Please reach out to **Paul Bullock** on GitHub Issues/Twitter (@pkbullock), open to DMs, if you need help to get going.

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



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

The screenshot shows a web interface titled "Script Samples". At the top, there are navigation links: "PnP SAMPLES", "Scripts", "By Tool", "By Product", and "Contributing". Below the header, a section titled "Script Samples" displays several cards representing different scenarios. One card shows a screenshot of a SharePoint page with a "Create new site" button. Another card shows a PowerShell terminal window with a command to get a page summary. Other cards show screenshots of SharePoint libraries and lists. Each card includes a brief description, the author's name, and the date it was modified.

Remember to  
opt-in to the  
recognition  
program for a  
**BADGE**



aka.ms/script-samples



# Microsoft Teams Samples

Please contribute your Teams samples at <https://aka.ms/teams-samples>

New sample this week!

Code: <https://aka.ms/tab-mgt-person-csharp>

## User Profile Display with Teams Toolkit and Microsoft Graph Toolkit

Markus Moeller (@Moeller2\_0)

Shows how to use Microsoft Graph Toolkit to access Graph with:

- Teams Toolkit for VS 2022
- Microsoft Graph Toolkit
- Teams SSO with OBO Flow and MGT TeamsMSAL2Provider

----- ATTENTION -----

## ISV'S BUILDING MONETIZED TEAMS APPS

The ecosystem team wants to support you!  
<https://aka.ms/TeamsApp/Support>

ALL the  
toolkits!

The screenshot shows a Microsoft Teams app interface. At the top, there's a navigation bar with icons for grid view, a search bar containing 'tab-mgt-person-csharp', and tabs for 'Personal Tab' (which is underlined in blue) and 'About'. Below the navigation, there's a user profile card for 'Markus Möller'. The card includes a small profile picture of a man, his name 'Markus Möller', and his email 'Markus.C.Moeller@onmicrosoft.com'. Below the profile picture, there are five small circular icons representing other users, followed by '+ 5'.

Check out all the samples!  
<https://aka.ms/m365/samples>

Please share your Teams app sample!  
#SharingIsCaring



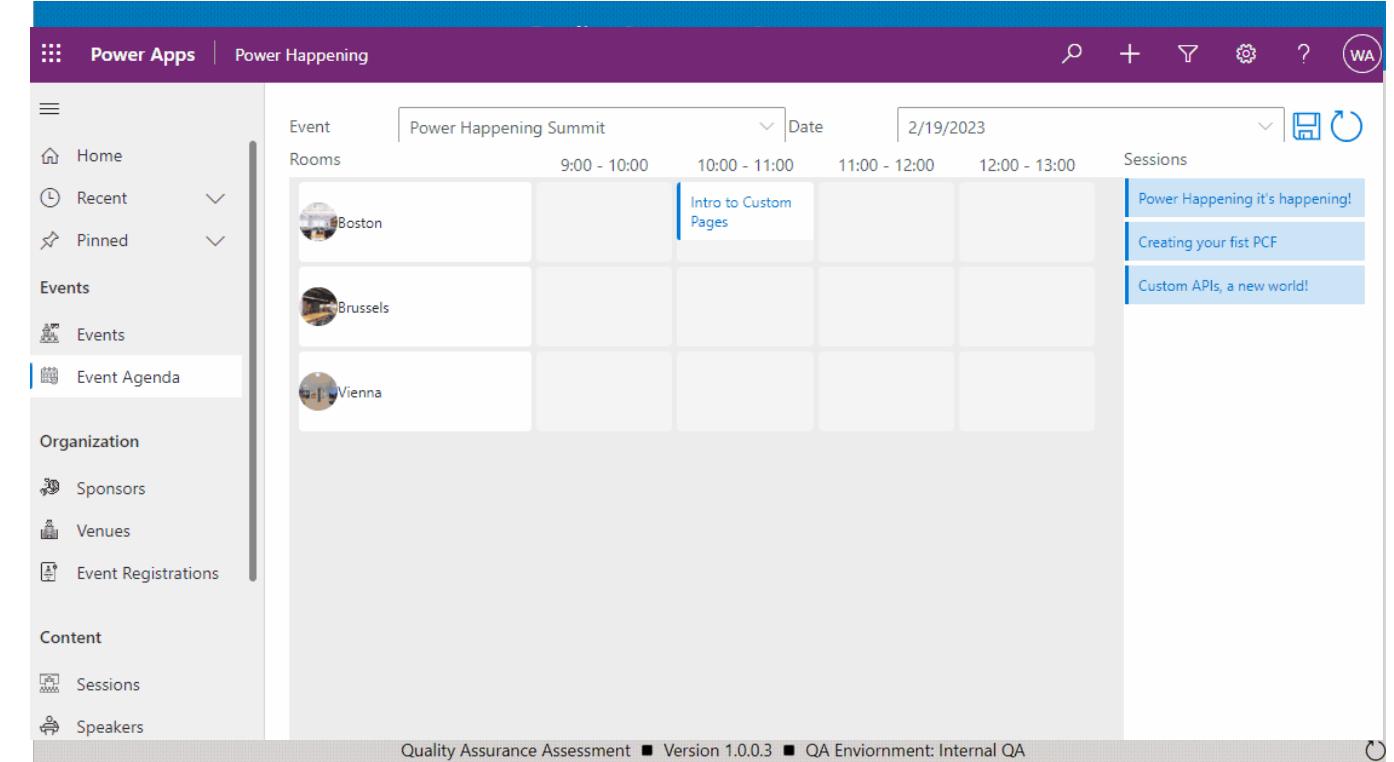
# Power Platform Samples

## New:

-  Quality Assurance Assessment Solution  
**Nati Turtledove | NatiTurts**
-  Power Happening  
**Wilmer Alcivar | walcivar**  
**Ben den Blanken | BendenBlanken**

## Updated:

- Name Pronunciation Recorder  
**Lindsay Shelton | lsheltonSTO**

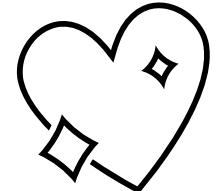


The screenshot shows the Power Apps portal interface. The top navigation bar includes 'Power Apps' and 'Power Happening'. The left sidebar has sections for Home, Recent, Pinned, Events (Events and Event Agenda), Organization, Sponsors, Venues, and Event Registrations. The main content area displays a calendar for the 'Power Happening Summit' on 2/19/2023. The calendar grid shows sessions for Boston, Brussels, and Vienna. A session titled 'Intro to Custom Pages' is highlighted. On the right, there is a sidebar with three sample pages: 'Power Happening it's happening!', 'Creating your fist PCF', and 'Custom APIs, a new world!'. The bottom of the screen shows the footer with 'Quality Assurance Assessment ■ Version 1.0.0.3 ■ QA Environment: Internal QA'.

# 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!



Let's all be  
like Seb



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

A photograph of a man and a woman looking at a laptop screen. The man is on the left, wearing a grey sweater, and the woman is on the right, wearing a dark blue patterned top. They are both looking down at the laptop. A white coffee cup is on the desk next to the laptop.

# DEMO

- Harnessing the Power of OpenAI inside Power Virtual Agents
  - Matt Jimison
- Editing Site Headers in Power Pages
  - Hugo Bernier

# Community Calls Conversations

Let's continue the conversation!

Dedicated conversation space has been created to help continue the conversation from multiple Community Calls throughout the month. We will be including speakers and demonstrations that take place in the calls.

The tablet screen shows a community engagement page with the following details:

**Power Apps Community > Community Engagement**

## Community Calls Conversations

Join the discussion

**Start a topic**   **Options**

Subject	Replies	Views
Welcome to the Community Calls Conversations- PLEA... by <b>ADMIN</b> DavidWarner 48m ago	0	35
Jan 19   M365 & Power Platform Dev Community Call ... by <b>ADMIN</b> DavidWarner Friday	0	57
Jan 19   Demo: Create a conversational bot in Team... by <b>ADMIN</b> DavidWarner Friday	0	60
Jan 19   Demo: Building a Extend Azure AD to add p... by <b>ADMIN</b> DavidWarner Friday	0	34
Jan 18   Power Platform Community Call   Main Meet... by <b>ADMIN</b> DavidWarner Friday	0	36
Jan 18   Demo: Effortlessly showing grids of data		



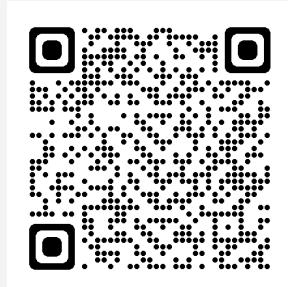
# Community Calls Conversations

**Matt Jimison**

[@mjimison](https://twitter.com/mjimison) 



Harnessing the Power of OpenAI inside  
Power Virtual Agents



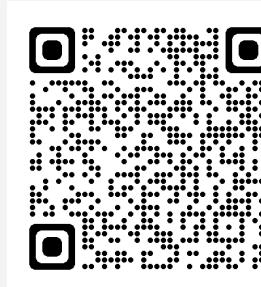
[aka.ms/Mar16-Demo1](https://aka.ms/Mar16-Demo1)

**Hugo Bernier**

[@bernierh](https://twitter.com/bernierh) 



Editing Site Headers in Power Pages



[aka.ms/Mar16-Demo2](https://aka.ms/Mar16-Demo2)

# Thank you

Recording will be available in 24 hours on  
**Microsoft 365 & Power Platform Community YouTube channel**  
<https://aka.ms/community/videos>  
*(subscribe today)*

Follow us in Twitter for updates @m365pnp  
or see the updates in LinkedIn <https://aka.ms/community/li>

Next M365 & Power Platform bi-weekly call: **March 30<sup>th</sup> at 07:00am PT**  
Next Viva Connections & SharePoint Framework call: **March 23<sup>rd</sup> at 07:00am PT**  
See all other community calls from <https://aka.ms/community/calls>



Thank you