

Microsoft 365 & Power Platform Development – Bi-weekly call

November 24th, 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!**

- **Adam Wójcik** - Introduction to CLI for Microsoft 365 and PnP PowerShell VS Code extensions

- **Chris Kent** (DMI) - List Formatting Magic



Opportunities to Participate in the community

Demo solution
or technical
pattern

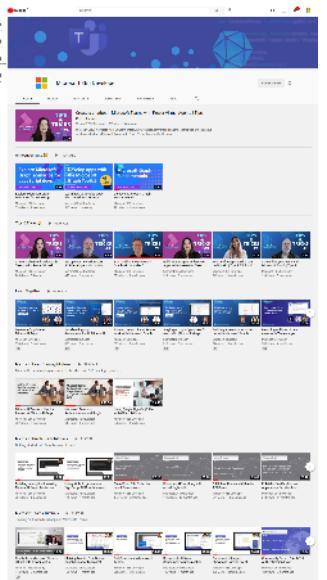
Contribute on
GitHub

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.

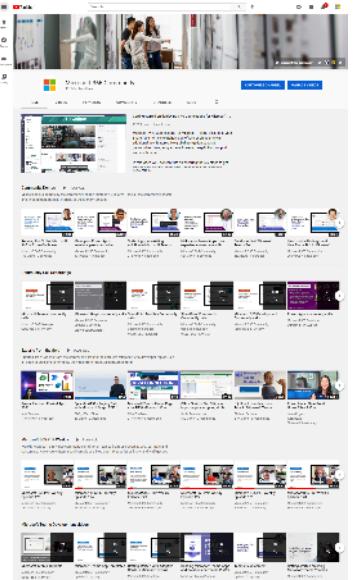
Request a demo spot on the call
<https://aka.ms/m365pnp/request/demo>

Microsoft 365 developer videos



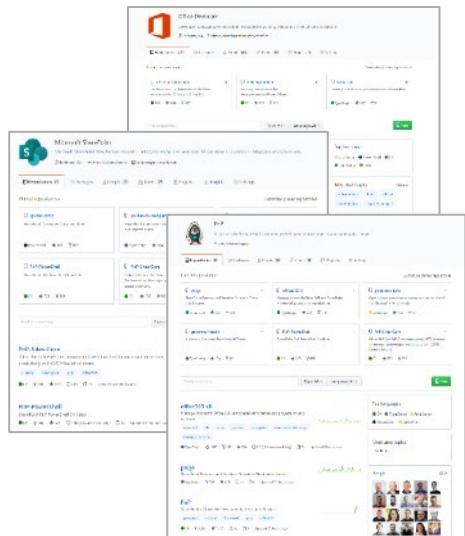
aka.ms/m365devyoutube

Microsoft 365 community videos



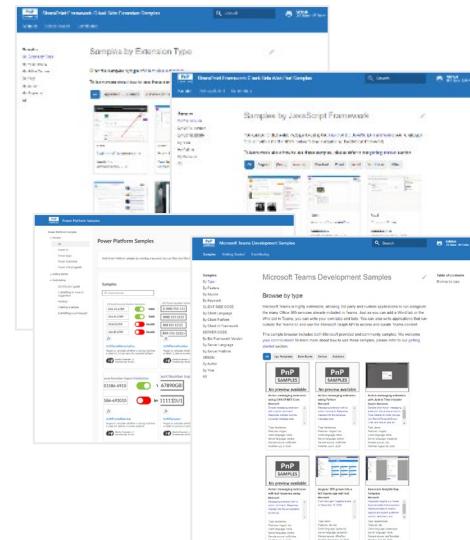
aka.ms/m365pnp/videos

Open-source



github.com/sharepoint
github.com/pnp
github.com/OfficeDev
github.com/microsoftgraph

Sample galleries



aka.ms/m365/samples
aka.ms/teams-samples
aka.ms/spfx-webparts
aka.ms/powerplatform-samples
aka.ms/spfx-extensions
aka.ms/list-formatting

Open-source initiatives and samples



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

29th of November @8 AM PT

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

- Latest news from Microsoft engineering on the **Microsoft 365** topics
- Community together mode group photo
- **Sebastian Levert & Gavin Baron** – Microsoft Graph Toolkit updates and next steps
- **Philip Li** - Scale access to Microsoft 365 data with Microsoft Graph Data Connect
- **John Miller** - What's new in the Microsoft Teams Toolkit



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



The website features a blue header with the text "PnP | Sharing Is Caring" and navigation links for "SESSION SCHEDULES", "OFFICE HOURS", "BUDDY SYSTEM", "TEAM", and "ABOUT SHARING IS CARING". The main content area is titled "Upcoming Sessions" with the sub-instruction "Please choose one of the available upcoming Sharing is Caring sessions." Below this, there are six session cards arranged in a grid:

- First Time Contributor**: Preview image shows a cartoon character in a party hat. Status: MORE DATES COMING SOON. Registration: LEARN MORE →
- Power Platform Samples Contributor**: Preview image shows a screenshot of the Power Platform Samples contributor dashboard. Status: REGISTRATION OPEN. Registration: LEARN MORE →
- Community Docs**: Preview image shows a screenshot of the Microsoft 365 Community Docs page. Status: REGISTRATION OPEN. Registration: LEARN MORE →
- Writing for the Web**: Preview image shows a screenshot of a writing template or editor. Status: REGISTRATION OPEN. Registration: LEARN MORE →
- PnP SPFx Workstation Setup**: Preview image shows a collection of icons related to SPFx development. Status: MORE DATES COMING SOON. Registration: LEARN MORE →
- PnP SPFx Samples with NVM**: Preview image shows a screenshot of the Node.js command-line interface (CLI) showing "nvm" and "node" commands. Status: MORE DATES COMING SOON. Registration: LEARN MORE →

<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

Roadmap

PnP Framework

- >890,000 downloads!
- Released version 1.11.0
- Support for .NET 7, C# 10
- Improved interop between PnP Core SDK and PnP Framework 🚀 ↕ 🚀
- 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 🚀 ↕ 🚀

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



nuget.org/profiles/pnp
aka.ms/pnp/framework



nuget.org/profiles/pnp
aka.ms/pnp/coresdk

PnP Core SDK

- >1,130,000 downloads!
- Released version 1.8.0
- Support for .NET 7, C# 10
- New sample showing how to use managed identity + sites.selected in an Azure Function : Kinga Kazala 🚀 ↕ 🚀
- Several small fixes: Jens Haile, 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/pnpprovisioningschema>

- 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

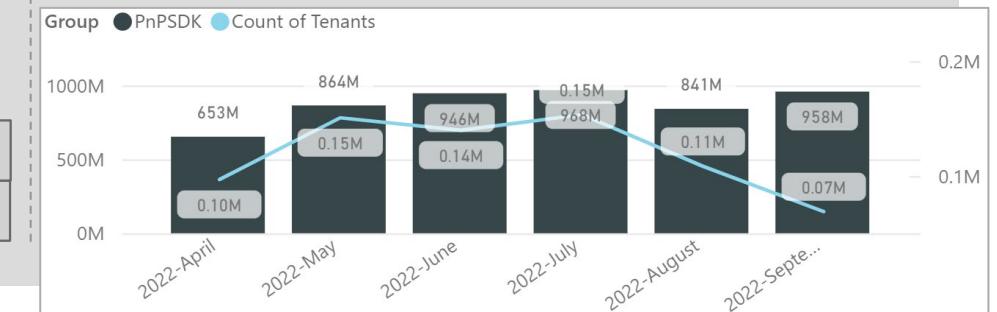
Referencing the PnP Core SDK

The recommended way to reference the PnP Core SDK is to add the following NuGet package to your project:

NOTE

- If you are using the PnP Core SDK in a .NET Core or .NET Standard project, make sure to add the `Microsoft.NETCore.App` dependency.

>130.000 Tenants in a month!



Where is the code?
Referencing the PnP Core SDK in your project
Configuring the needed services
Obtaining a PnPContext
Using the PnPContext for operations on Microsoft 365



PnP PowerShell

Working on it

Cross Platform PnP PowerShell

V1.12.0 released finally after 4 months !!!

Many updates, improvements and fixes!

- 3.9 million downloads!
- 100 million cmdlets executed per day!!
- Docs shifted, no more 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



github.com/pnp/powershell

New Stuff

- Nightly builds continue
- Fixed `Get-PnPAccessToken` cmdlet regression
- Added `Get-PnPServicePrincipal`, `Get-PnPServicePrincipalAssignedAppRole`, `Get-PnPServicePrincipalAvailableAppRole`, `Add-PnPServicePrincipalAppRole` and `Remove-PnPServicePrincipalAppRole` cmdlets to interact with service principals
- Bug fixes and improvements continue
- What next, .NET 6.0 support ? Would love to hear your thoughts !
- Discussion/feedback/issues - head to Github

>32.000 tenants in a month!



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



www.powerShellGallery.com
PnP.PowerShell

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



yo teams

<https://aka.ms/yoteams>

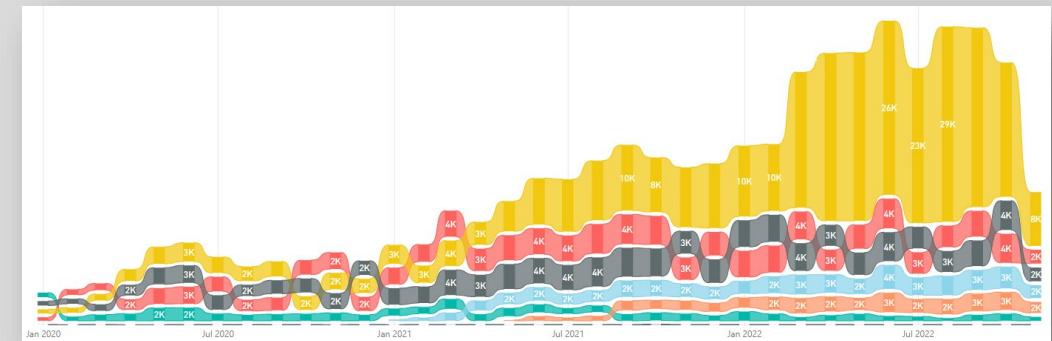
47K

Totals Downloads

What's new 🎉

- yoteams-build-core v1.8.0 is out
 - Fix typing mistakes by **Robert Pocklington**
 - Update codeql-analysis.yml by **Rick Van Rousselt**
- Branch updates
 - We switched from **master** to **main**
 - Branch cleanups were done

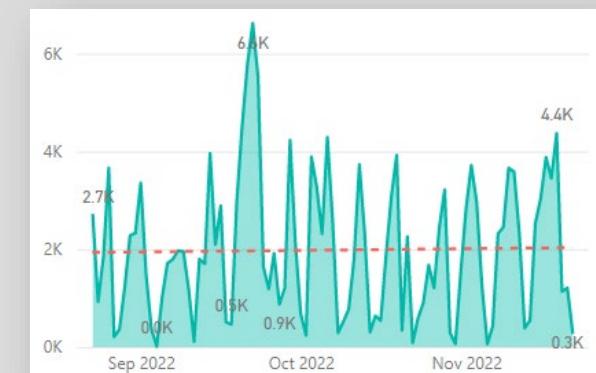
Package Downloads



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)

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 4.1.3 in VS Code – released 17th of November
 - Bump up version of @microsoft/teamsfx used in templates and samples to 2.0.0 that depends on @microsoft/teams-js version 2.0.0 and above. Starting from this version, it enables Teams app to run in Outlook and Office.
 - A/B testing on in-product documentation to display tutorial articles inside Visual Studio Code.
- 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? 📈

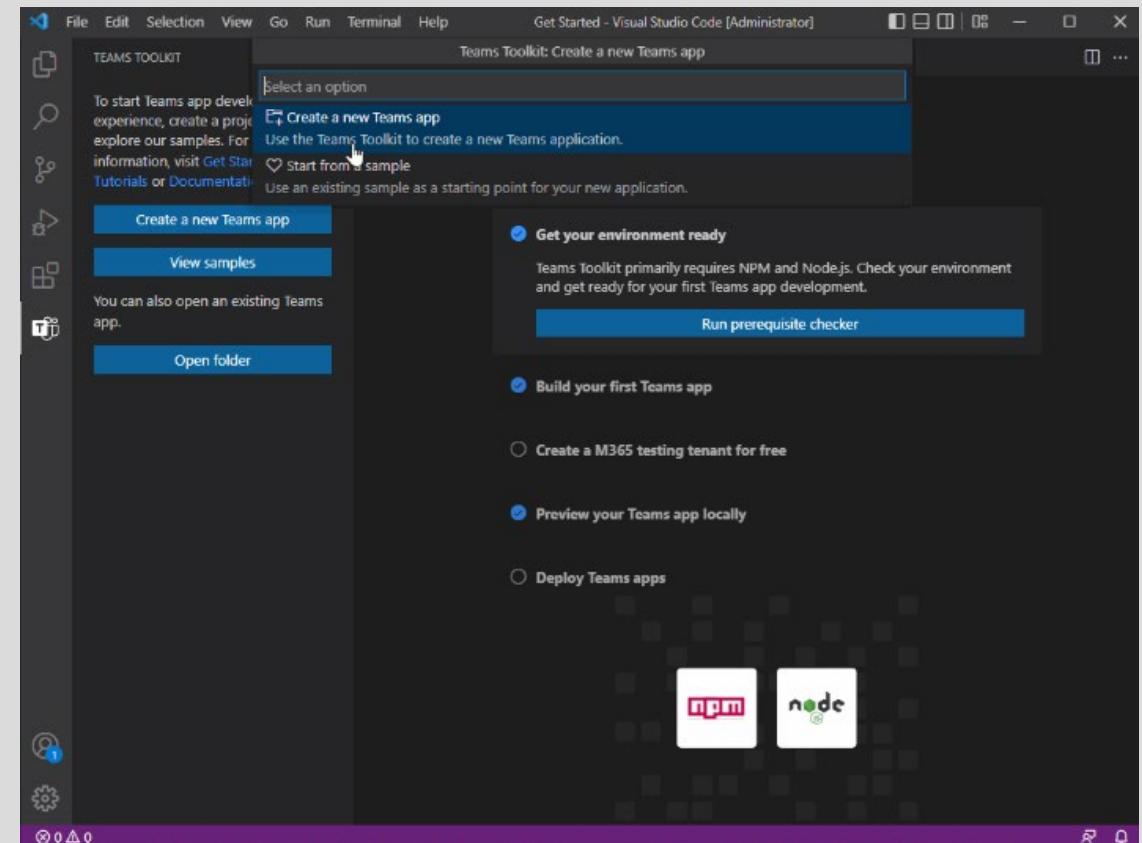
- We're making the orchestration and app model configurable so that each step of the app life-cycle is configurable.
 - Use a different tunneling tool; use scripts to Provision and Deploy; etc.

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

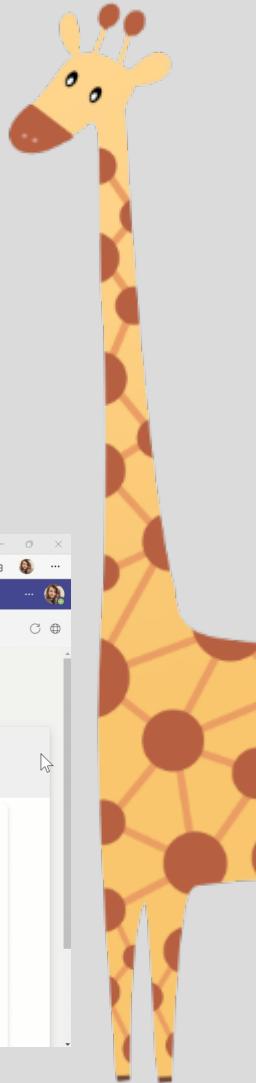
More information: aka.ms/mgt

What's new 🎉

- Just shipped! v2.7.1 is our latest release! Update your packages! <https://aka.ms/mgt/v2.7.1>
 - Thanks @kon-iro @patmoo @aslynblohm for your contributions 🎉
- The MGT samples repository is live! Keep your contributions coming!
<https://aka.ms/mgt/samples>

The screenshot displays several examples of Microsoft Graph Toolkit components:

- Teams channel messages using mgt-get:** Shows a message card with a profile picture, name (Sébastien Levert), and a timestamp (Modified on Mar 16, 2022).
- Linear events template using mgt-agenda:** Shows a list of events with times and locations: "March 11 2022 7:00 PM - 8:00 PM Friday Unwinder at Cafeteria" and "March 12 2022 11:00 AM - 8:00 PM Server Upgrades at Server Room".
- Multiple Person display in tooltip:** Shows a tooltip with multiple person icons and names: Sébastien Levert (Modified on Mar 11, 2022) and André Lage (Modified on Feb 27, 2022).
- Contact card:** Shows a contact card for Diana Smith, Product Designer at APS – R&D, with a photo, email (v-diana@microsoft.com), phone number (206 349 0342), and location (109/1510). It includes a "Message" button.
- One Productivity Hub:** A dashboard showing calendar events (e.g., "Morning Coffee Talk" at 2:00 PM - 2:30 PM), to-do tasks (e.g., "Update the Learn module" due March 20), and files (e.g., "Advocacy Plans FY23", "Azure Architecture Center Scenarios", etc.).



What's next? 💻

- New minor version coming up next week!
 - npm i @microsoft/mgt@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 ❤️

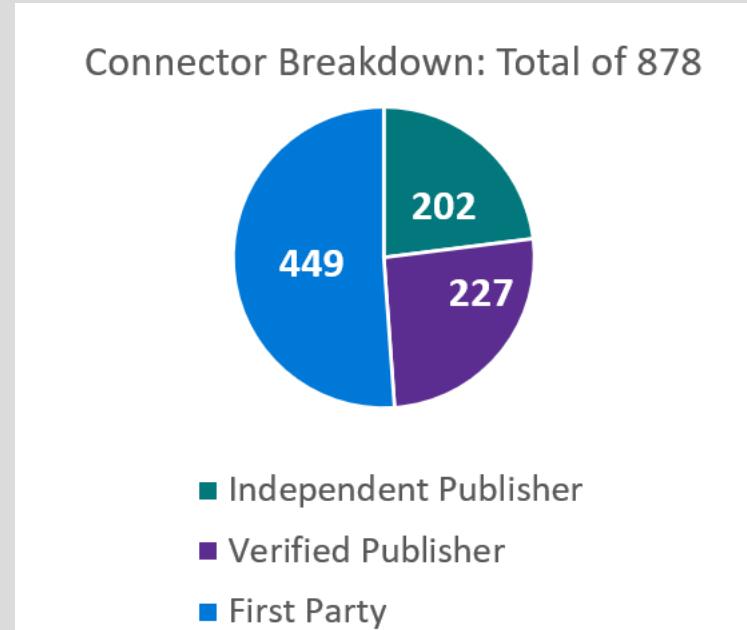
- Help us fix bugs
- Help us build/improve features
- help-wanted & good-first-issue -> <https://aka.ms/mgt/issues>



Independent Publisher Connectors

What's new ?

- **70 Amazing Independent Publishers!**
 - **Ashwani Kumar**
- **202 Independent Publisher connectors! +6**
 - **Shreyan Fernandes: MintNFT**
 - **Troy Taylor: Rebrickable, The Color, Veteran Confirmation**
 - **David Kjell: Workable**
 - **Fordos Andras: Google Books**



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



Do you have a cool flow? I want to write about it!
#FlowOfTheWeek is coming back!
Aka.ms/FlowOfTheWeekForm



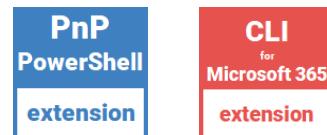
SCRIPT SAMPLES

Site now has 190 scenarios and 278 scripts, using Microsoft Graph, CLI for Microsoft 365, PnP PowerShell, SPO Management Shell tooling and more... 😊 AND samples integrated into *Microsoft Sample Solution Gallery*

Awesome 🎉 😊 🎉 🙌 Samples Include :

New Scenarios using PnP PowerShell

- Deploy sppkgs and install apps by **Matteo Serpi**
- Add demo content from a website such as Wikipedia by **Kevin McDonnell**
- Sample showing how to export basic site collection properties to CSV by **Kasper Larsen**
- Associate Form Customizer Extension with List or Libraries Form by **Siddharth Vaghasia**
- Add dummy folders and files by **Reshmee Auckloo**



<https://marketplace.visualstudio.com/publishers/adamwojcikit>

Extensions include SCRIPT SAMPLES! 🎉 🙌

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!



Microsoft Teams Samples

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



A Tale of Two Samples

Two great approaches for using Microsoft Graph Toolkit in a Teams app

The screenshot shows the 'Me Experience' tab in Microsoft Teams. It features a timeline of events for the next 8 days, a list of tasks assigned to the user, and a list of recently used documents. The interface is clean and modern, designed to provide users with a personalized view of their upcoming work.

"Me Experience" tab in SPFx
Rabia Williams @williamsrabia
<https://aka.ms/tab-spfx-me-experience>

The screenshot shows the "One Productivity Hub" React SPA in Microsoft Teams. It includes a dashboard with a weekly agenda, a list of tasks, and a list of emails. The interface is more complex than the 'Me Experience' tab, providing a broader view of productivity across multiple categories.

"One Productivity Hub" React SPA
Sébastien Levert @sebastienlevert
<https://aka.ms/tab-one-productivity-hub>



Power Platform Samples

aka.ms/powerplatform-samples

- Power Apps templates
 - Power Apps components
 - Power Apps connectors
 - Power Fx Custom Functions

- **Power Automate flow templates**
 - **PowerBI**
 - **Power Virtual Agents**

The image is a collage of screenshots from various Microsoft Power Platform applications and components. In the center, a large purple banner with white text reads "Power Platform Contributors Sharing is Caring Session November 28th NEXT WEEK!!!". Surrounding this central banner are numerous smaller screenshots of different Power App pages, including:

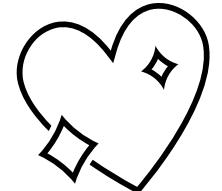
- A map showing coordinates and distance.
- An example of adding top values to a dropdown menu.
- A color contrast checker tool.
- A timer application.
- An expandable navigation component.
- A tag box component.
- A status indicator component.
- A phone number validation component.
- A URL validation component.
- A custom font samples component.
- A unit conversion component.
- A date validation component.
- A leap year validation component.
- A US phone number validation component.

Each screenshot includes a timestamp and author information at the bottom right.

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.

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 with a small image on it sits on the desk next to the laptop.

DEMO

- **Introduction to CLI for Microsoft 365 and PnP PowerShell VS Code extensions**
– Adam Wójcik
- **List Formatting Magic**
– Chris Kent (DMI) -

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: **December 8th at 07:00am PT**

Next Viva Connections & SharePoint Framework call: **December 1st at 07:00am PT**

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



Thank you