

Microsoft 365 & Power Platform Development – Bi-weekly call

November 10th, 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!**

- **Anoop Tatti** (Content + Cloud) -
- PowerShell predictors - PnP PowerShell and CLI for Microsoft 365

- **Daniel Laskewitz** (Microsoft) -Power Platform Communication Site Template



Opportunities to Participate in the community

Demo solution
or technical
pattern

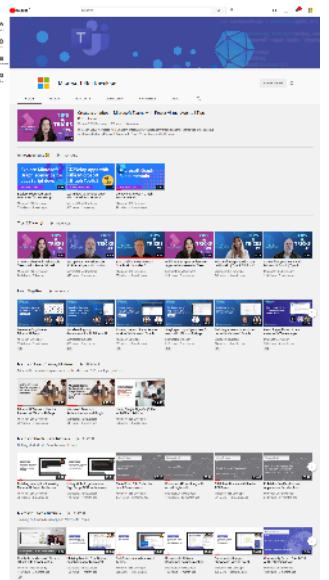
Contribute on
GitHub

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.

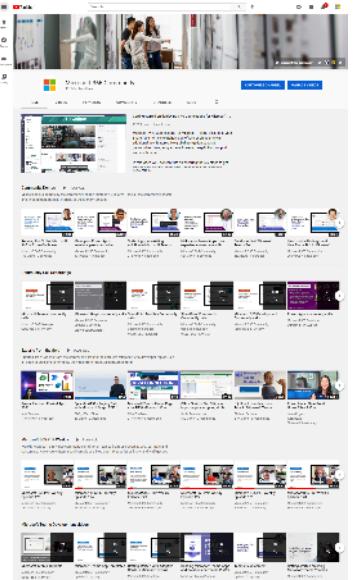
Request a demo spot on the call
<https://aka.ms/m365pnp/request/demo>

Microsoft 365 developer videos



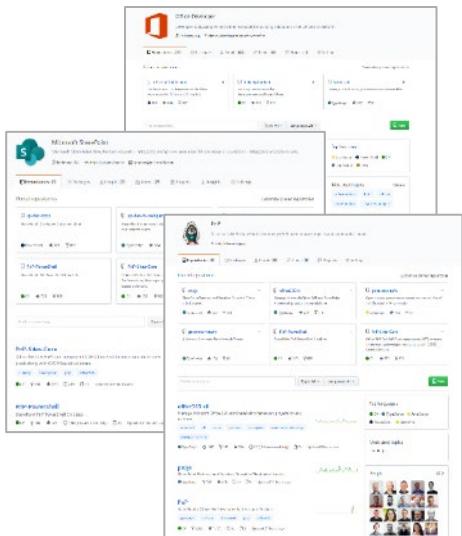
aka.ms/m365devyoutube

Microsoft 365 community videos



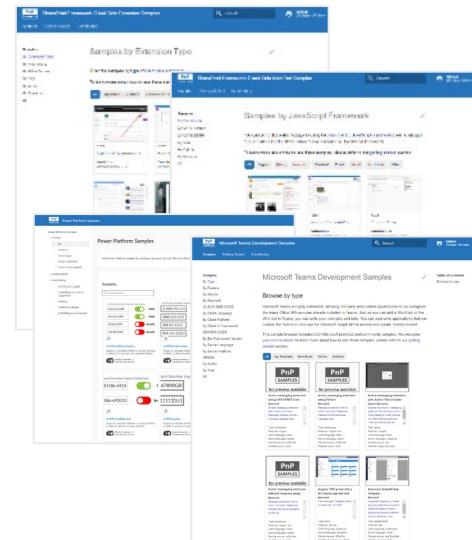
aka.ms/m365pnp/videos

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>

Adaptive Cards

<https://aka.ms/adaptivecardscommunitycall>

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

15th 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
- **Brian Jackett & Jason Johnston** – Calling Microsoft Graph from .NET Interactive Notebooks
- **Garry Trinder** - Add single sign-on to your Microsoft Teams bots using Teams Toolkit for Visual Studio Code
- **Hugo Bernier** - Using list components in Power Pages for securely displaying data to end users

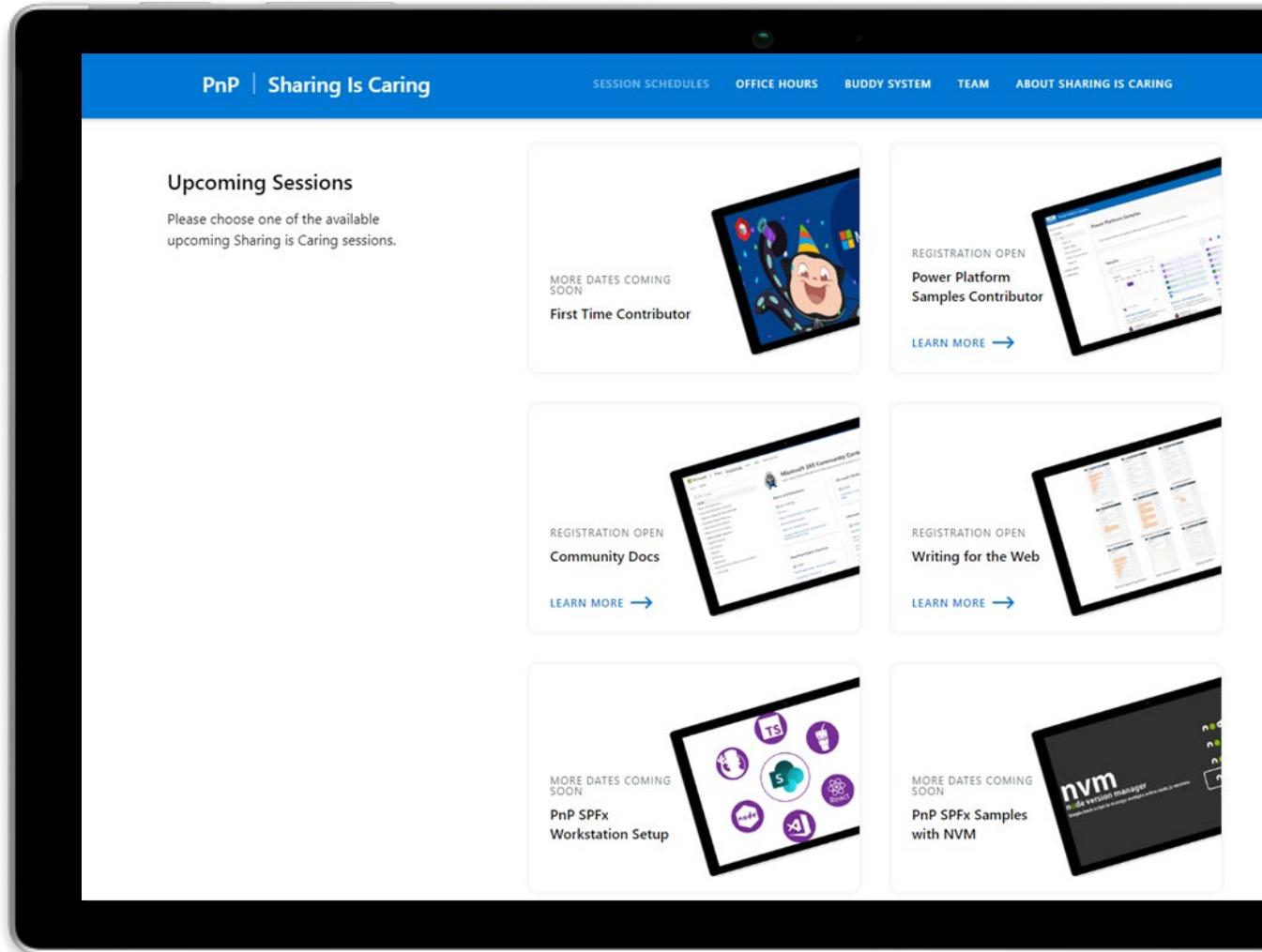
GUIDANCE

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

Power Platform
Samples Contributor
Nov 28th



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

COMMUNITY



PnP Recognition Program

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



<https://aka.ms/m365pnp-recognition>



Project specific updates

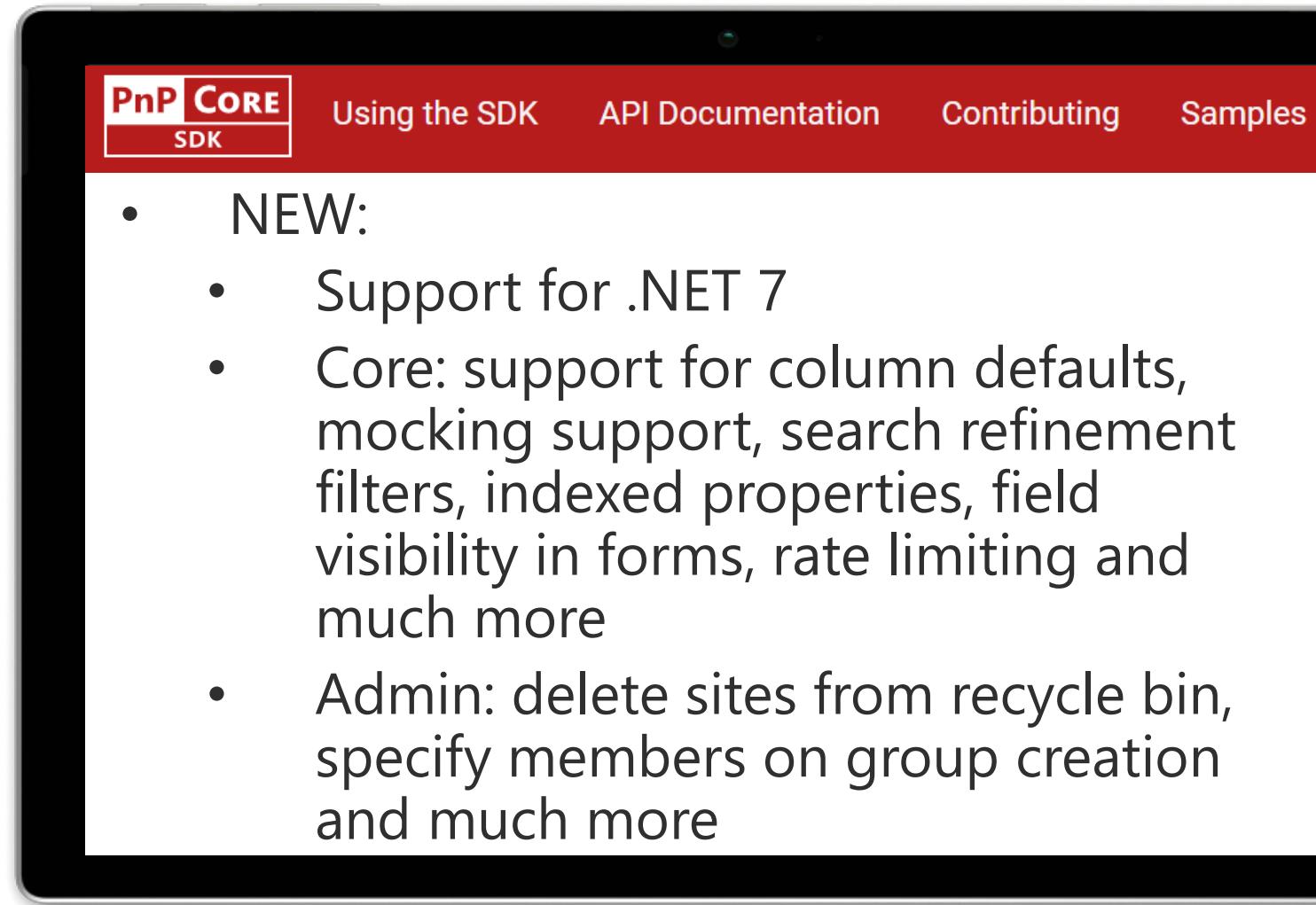
Updates and progress on the different open-source tooling lead by Microsoft and community members.

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

UPDATE

PnP Core SDK 1.8.0 release

aka.ms/pnp/coresdk



The screenshot shows a tablet displaying the PnP Core SDK documentation. The top navigation bar is red with the following links: 'Using the SDK', 'API Documentation', 'Contributing', and 'Samples'. On the left, there's a sidebar with a 'PnP CORE' logo and a 'SDK' link. The main content area contains a bulleted list of new features:

- NEW:
 - Support for .NET 7
 - Core: support for column defaults, mocking support, search refinement filters, indexed properties, field visibility in forms, rate limiting and much more
 - Admin: delete sites from recycle bin, specify members on group creation and much more

UPDATE

PnP Framework 1.11.0 release

aka.ms/pnp/framework

- Various improvements and fixes in the provisioning engine including the 202209 schema, extension methods and page transformation



PnP .NET libraries

Working on it

Roadmap

PnP Framework

- >855,000 downloads!
- Released version 1.11.0
- Support for .NET 7, C# 10
- Various fixes: Miguel Angel García Martínez, Martin Loitzl, Patrik Hellgren, Autophanous, Christian Zuellig and Heinrich Ulbricht
🔗 🔗 🔁
- 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/pnpprovider/blob/dev/src/sdk/CHANGELOG.md>

What key scenarios
are still missing?

nuget.org/profiles/pnp

aka.ms/pnp/framework

nuget.org/profiles/pnp

aka.ms/pnp/coresdk

PnP Core SDK

- >1,094,000 downloads!
- Released version 1.8.0
- Support for .NET 7, C# 10
- Get terms by property (GetTermsByCustomProperty) : Martin Loitzl
🔗 🔁 🔁
- Language neutral timezone handling + GetTimeZoneInfo method

PnP Core SDK Using the SDK API Documentation Contributing Samples

Using 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/pnpprovider>

- 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

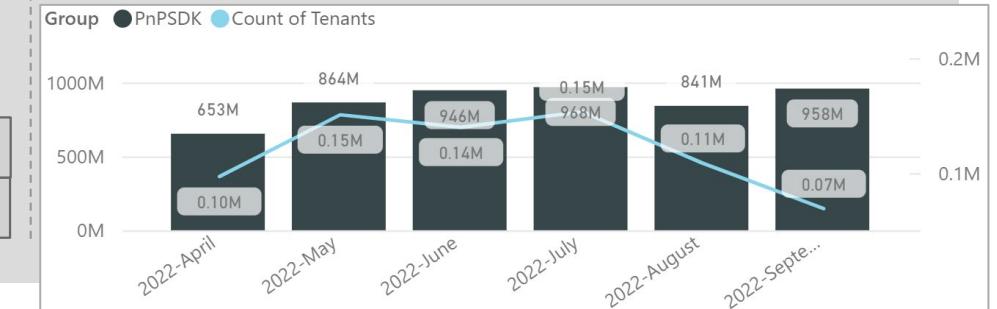
Referencing the PnP Core SDK

The recommended way to reference the PnP Core SDK is via NuGet. You can do this by adding the following line to your project's `csproj` file:

NOTE

- If you are using the PnP Core SDK in a .NET Core or .NET 5.0 application, 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

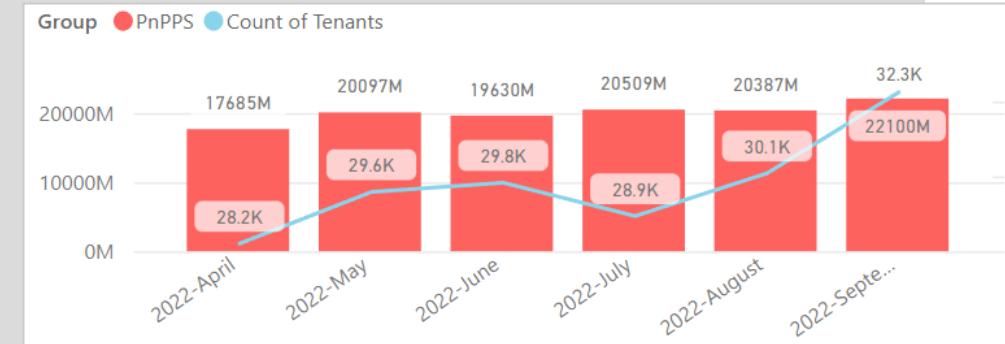
Cross Platform PnP PowerShell

- V1.11.0 released, 1.12.0 coming soon
- Many updates, improvements and fixes!
- 3.5 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](#)

New Stuff

- Nightly builds continue , 1.12.0 coming really really soon
- Improved **Get-PnPAzureADAppSitePermission** cmdlet
- Improved **Get-PnPTenantId** cmdlet by adding support for non-commercial M365 environments
- Improved **Set-PnPImageListColumn** cmdlet to support file upload
- 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>



github.com/pnp/powershell



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

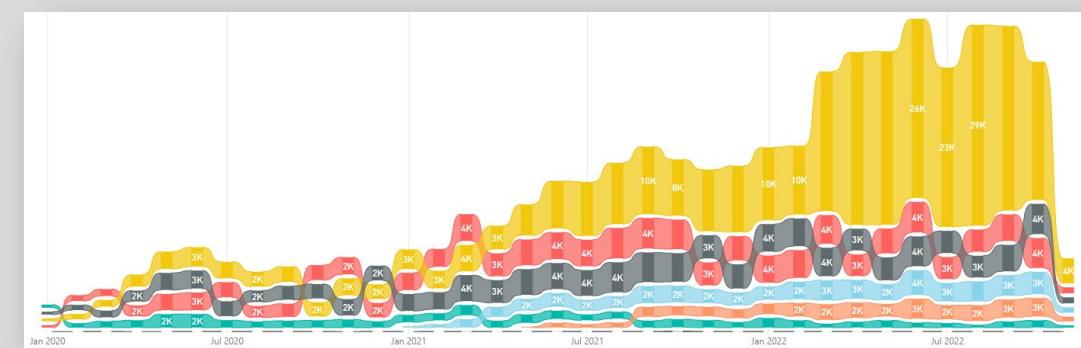
What's next? 💻

- 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)

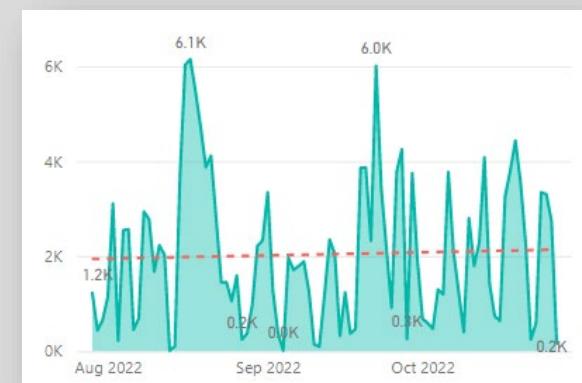
We need your help ❤️

- 🛠 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





Microsoft Teams Toolkit

What's new 🎉

- Latest version currently is 4.1.1 in VS Code – released 2nd of November
 - Improved experience obtaining a MS Graph client using `@microsoft/teamsfx`
 - `@microsoft/teamsfx` bumped to 2.0.0 which is compatible with `@microsoft/teamjs` 2.x
- 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

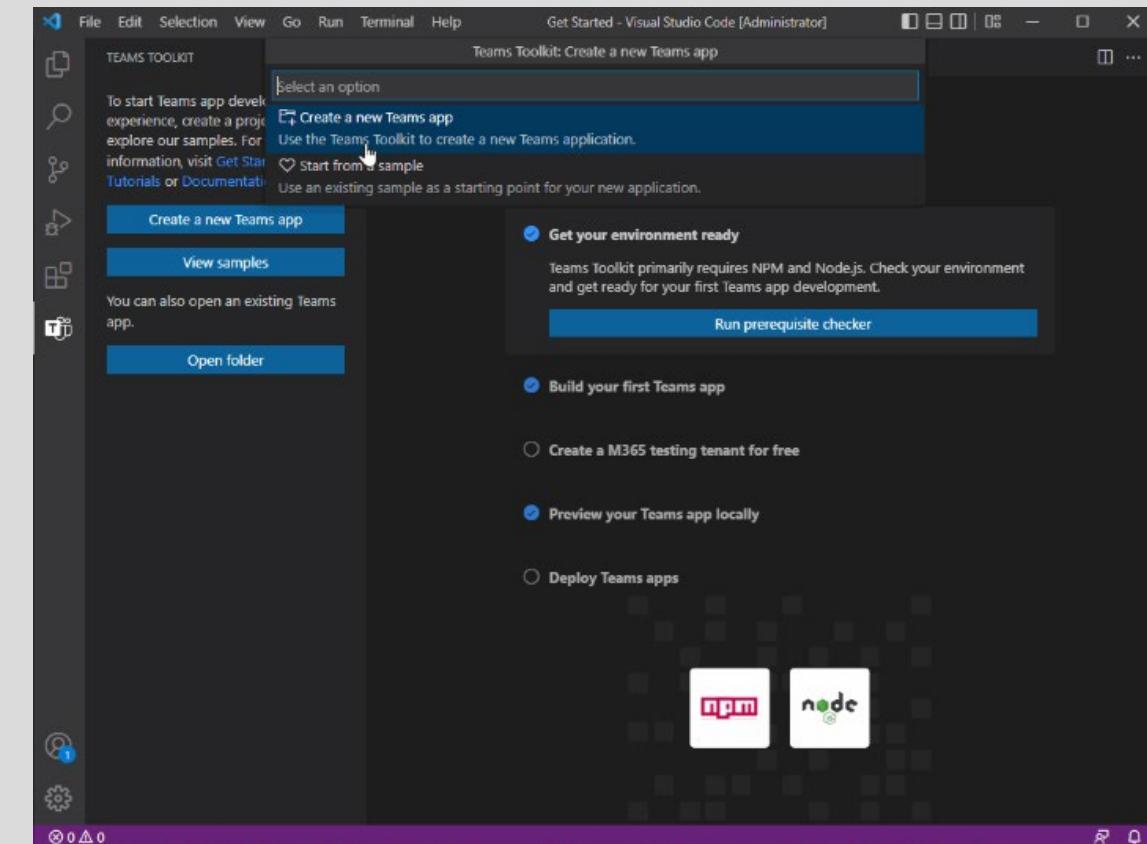
What's next? 📈

- 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>

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





Microsoft Graph Toolkit

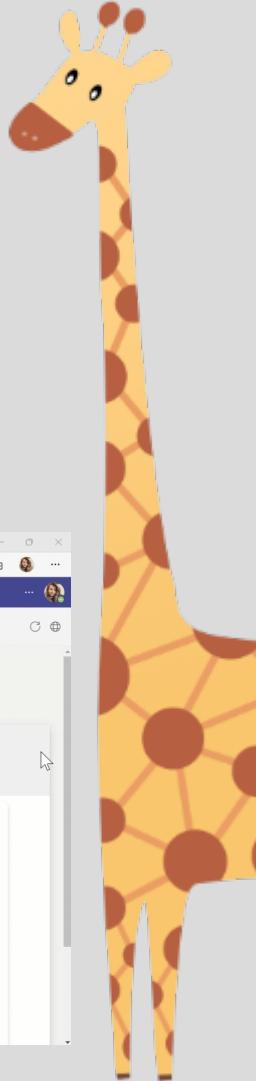
More information: aka.ms/mgt

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 Microsoft Graph Toolkit samples:

- 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 (e.g., Friday Unwinder at Cafeteria, Server Upgrades at Server Room).
- Multiple Person display in tooltip:** Shows a tooltip containing multiple person cards (Sébastien Levert, André Lage).
- Emails template using mgt-get:** Shows an email card with a profile picture, name (Sébastien Levert), and a timestamp (Modified on Feb 25, 2022).
- Message card:** Shows a contact card for Diana Smith (Product Designer, APS – R&D) with a message input field.
- Contact card:** Shows a contact card for Ayca Bas (aycabas@m365advocates.onmicrosoft.com, Cloud Advocate) with details like phone number (206 349 0342) and location (109/1510).
- One Productivity Hub:** A dashboard showing calendar events (Alex/Ayca Sync, Morning Coffee Talk, Solution Architecture Review), to-do tasks (Update the Learn module, Prepare next week's Learn from the community blog post), and files (Advocacy Plans FY23, Azure Architecture Center Scenarios, Brainstorming notes, Events, Learn from the community initiative, Learn Together 2022).



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 ❤️

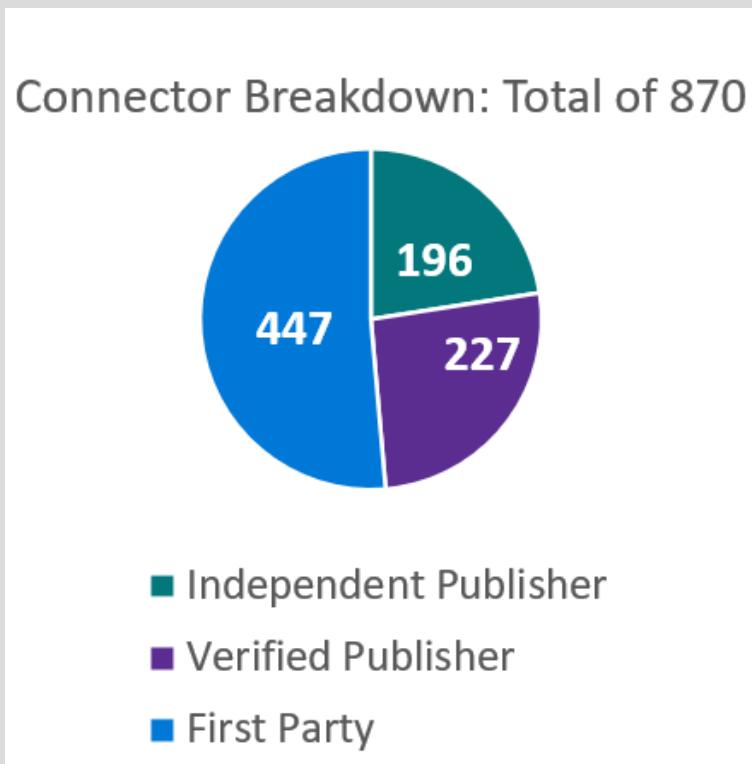
- Help us fix bugs
- Help us build/improve features
- help-wanted & good-first-issue -> <https://aka.ms/mgt/issues>



Independent Publisher Connectors

What's new ?

- **69 Amazing Independent Publishers! +2**
 - Aldo Gillone
 - Lenard Schockaert
- **196 Independent Publisher connectors! +7**
 - Aldo Gillone: One-Time Secret
 - Troy Taylor: Festivo, QuickChart, The SMS Works
 - Lenard Schockaert: De Lijn
 - Michal Romiszewski: DeepLIP



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



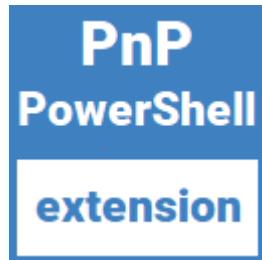
SCRIPT SAMPLES

Site now has 185 scenarios and 273 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

- Download all the content type document templates files associated with a library by **Leon Armston**
- Gets usage from a particular user(s) or site(s) from the Unified Audit Log by **Russell Gove**
- Copy the folder structure of a directory to a SharePoint List by **Russell Gove**



<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!

A screenshot of a tablet displaying the "Script Samples" website. The top navigation bar includes "PnP SAMPLES", "Scripts", "By Tool", "By Product", and "Contributing". Below the navigation is a search bar with the placeholder "Search scripts". The main content area shows several cards representing different scripts:

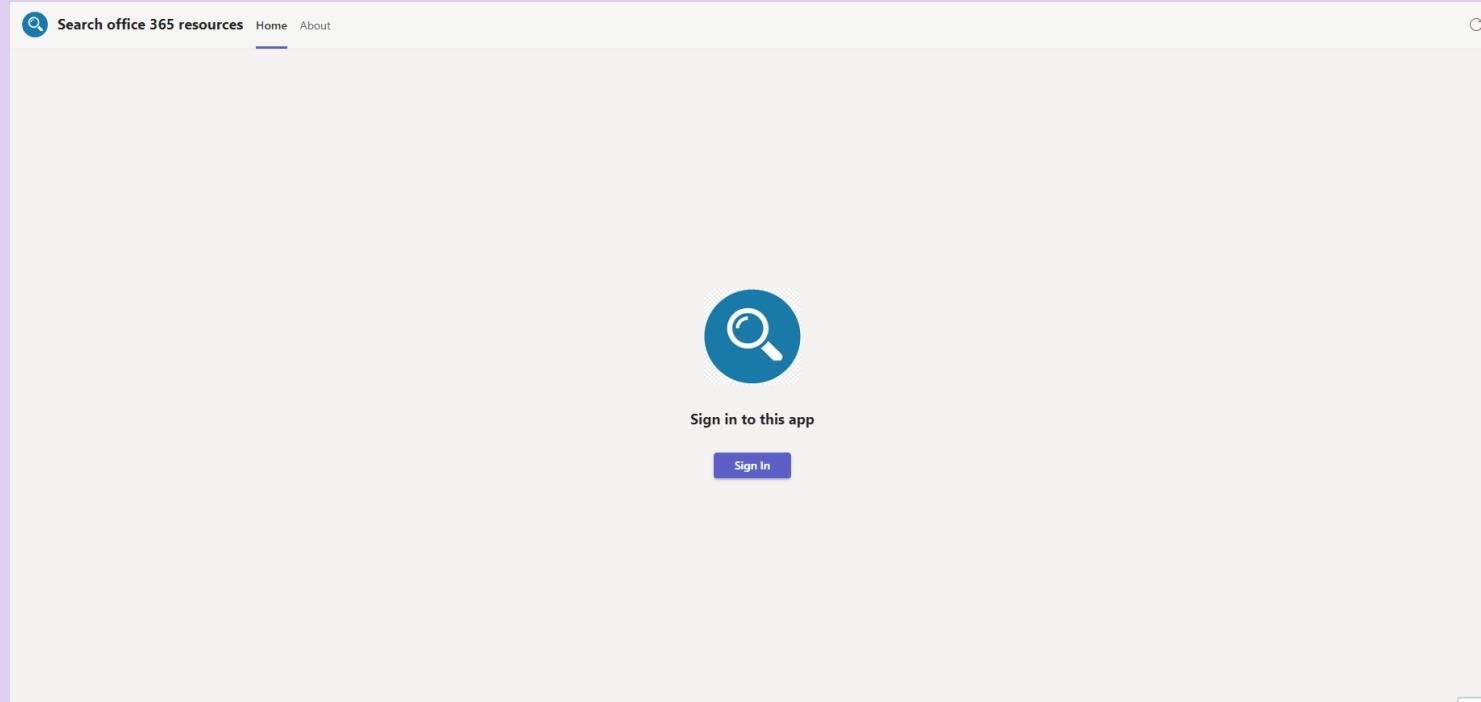
- SharePoint Modern Page Publishing Report**: A card showing a screenshot of a SharePoint page with a table of publishing status for pages. It includes a photo of Nanddeep Nachan and a modification date of Jul 06 2022.
- Get Flows Connected to SharePoint**: A card showing a screenshot of a PowerShell script titled "Get-Flows.ps1". The script retrieves all flows connected to a SharePoint site.
- Add bulk users to SharePoint**: A card showing a screenshot of a PowerShell script titled "Add-BulkUsers.ps1". It adds multiple users to a SharePoint site.
- #COMMUNITY ROCKS**: A card showing a screenshot of a PowerShell script titled "Get-Flows.ps1" with a large "#COMMUNITY ROCKS" graphic overlaid.
- Add multiple folders in .csv file**: A card showing a screenshot of a PowerShell script titled "Add-MultipleFolders.ps1" which creates multiple folders in a .csv file.



aka.ms/script-samples

Microsoft Teams Samples

New Sample: Adaptive Cards Search Tab



Teams tabs built with adaptive cards??

- User authentication
- Display and submit in tabs using adaptive cards
- Perform Graph search as the logged in user
- Interact via a dialog with adaptive card

<https://aka.ms/tab-adaptive-cards-graph-search>

Many thanks to Ramin Ahmadi!
@raminahmadi1986



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



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

Power Platform Contributors Sharing is Caring Session November 28th!!!

TwoPoints
Calculate distance in unit of meter and compass heading.

AddTopValue Examples
Add All to top
Add 'Please Select' to top

IsTime
Regex to validate time format [hh:mm:ss]/[hh:mm:ss]/[mm:ss]/[m:s]/[ss]/[s]

Custom Font Samples
177 custom font samples for Power Apps

timer
Example of how to use the timer function as a stopwatch

Expandable Navigation
This Canvas Application is an example for a expandable navigation using Fluent UI icons.

Tag Box
Contains a textbox that adds items into a dynamic list.

Status Indicator
Shows how to add a status indicator in a display form.

chkContrast
Calculates the contrast between two colors

getLuminance
Calculates the relative luminance of linearized RGB colors

HexToDecimal
This function is used to convert hex to decimal.

ConvertUnit
Perform unit conversion for length.

IsInCurrentDay
Checks if a date occurs within the current day

IsLeapYear
Checks if a date belongs to a leap year

JS Phone Number Validation
1 (888) 555-1211
(888) 555-1212
888 555 1212
888-555-1212 x

IsUSPhoneNumber
Regex to validate whether a string matches a valid US phone number pattern

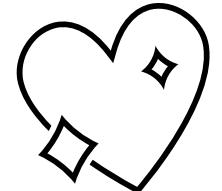
Input Validation
os://www.github.com
OS:
host:80?test

IsURL
Regex to validate whether a string matches a valid URL pattern

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

- **PowerShell predictors - PnP PowerShell and CLI for Microsoft 365**
– Anoop Tatti (Content + Cloud)
- **Power Platform Communication Site Template**
– Daniel Laskewitz (Microsoft)

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: **November 24th at 07:00am PT**

Next Viva Connections & SharePoint Framework call: **November 17th at 07:00am PT**

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



Thank you