



52° 20' 29" N

Amsterdam23

4° 53' 13" E



How to Manage Your Microsoft 365 Tenant and SharePoint Framework Projects from Any Platform

Martin Lingstuyl

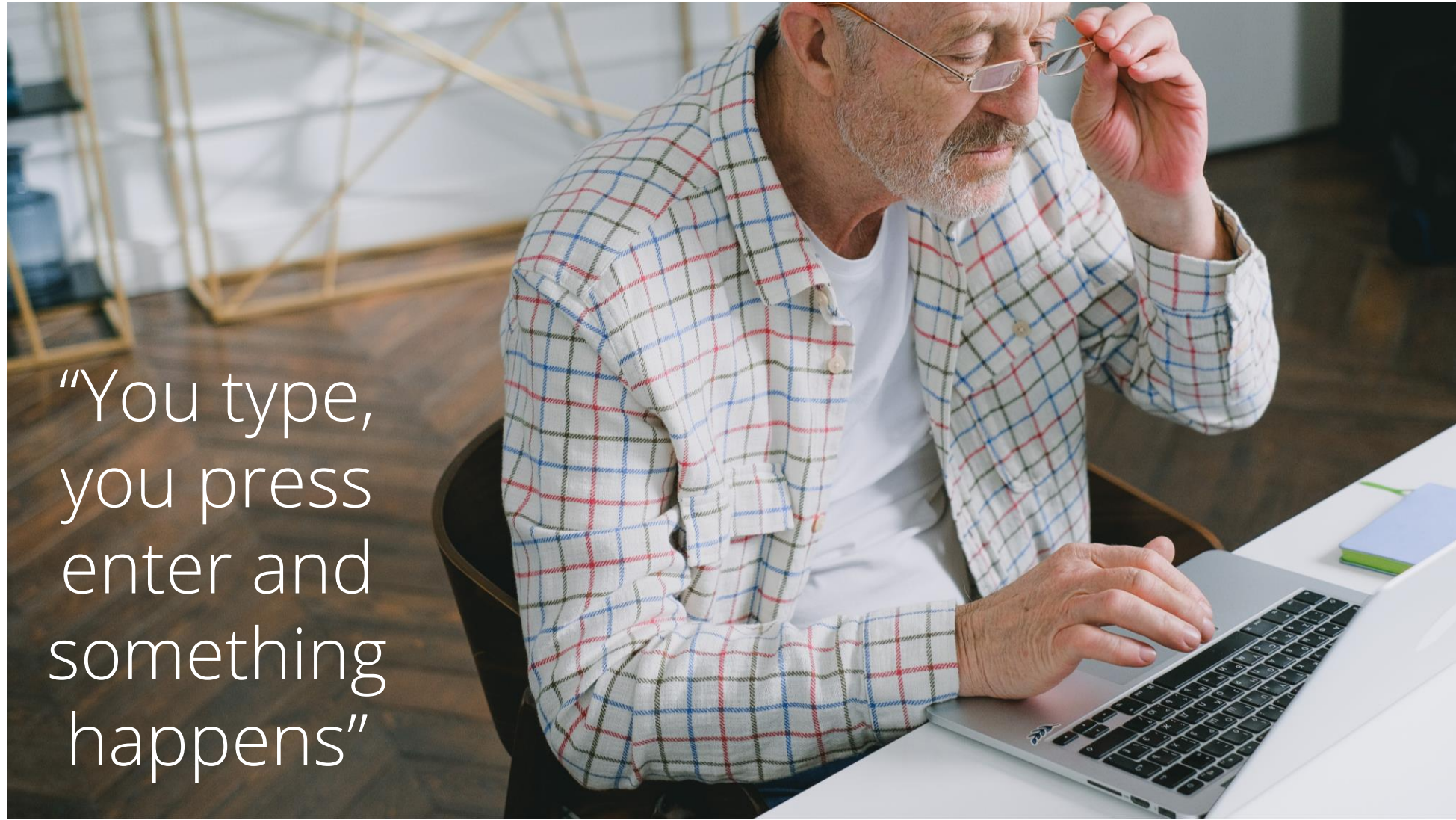
MVP, Microsoft 365 Architect,  I4-YOU, The Netherlands



I4-YOU

There used
to be a day
when
everything
was
command
line

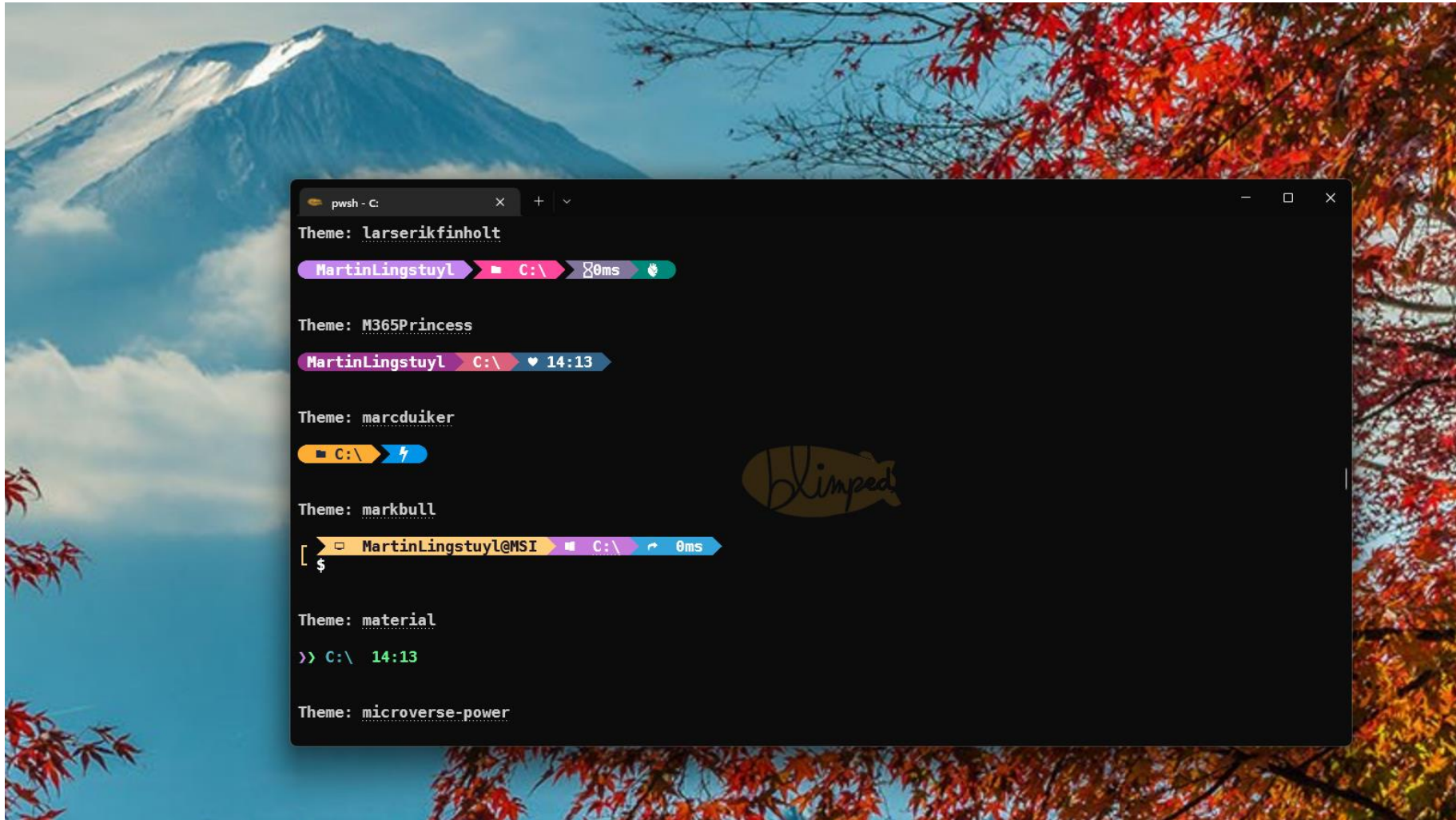




“You type,
you press
enter and
something
happens”

But then the
sun of the GUI
dawned...

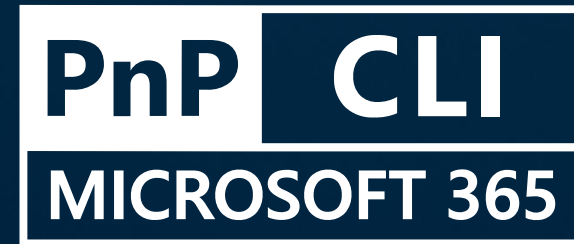




And yet... the command line is more alive than ever

Agenda

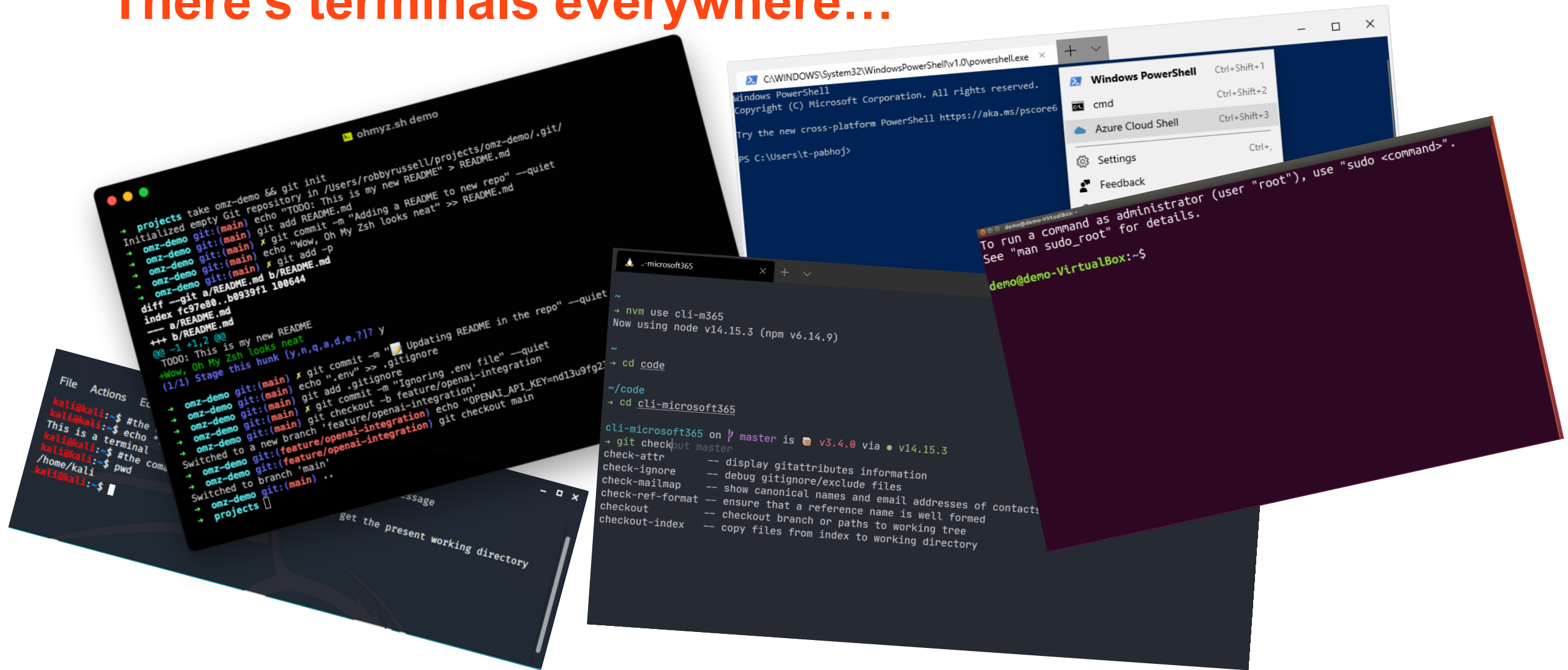
- What is it, what does it do?
- Installing, Configuring, Using
- Reporting on usage
- Managing your tenant
- Supporting Developer tasks
- Automating your work



CLI for Microsoft 365

What is it and what does it do?

There's terminals everywhere...



A cross platform command line tool...

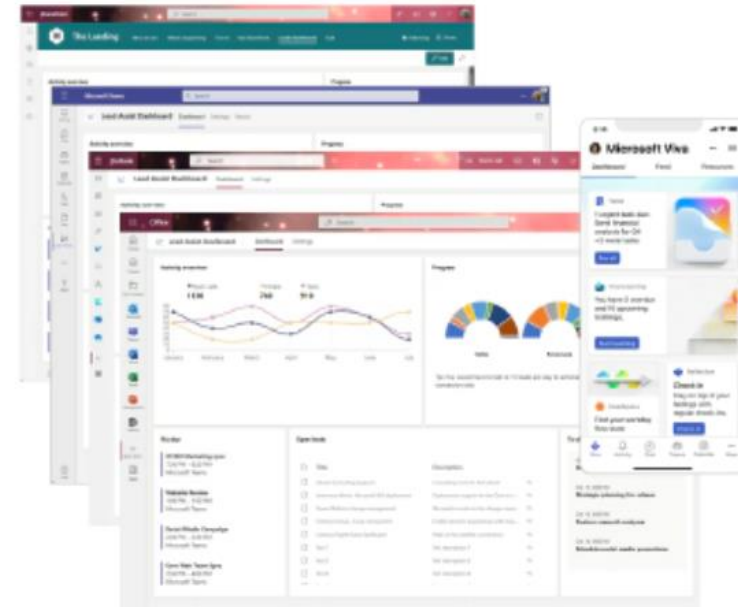
Install and run everywhere



- As long as the node.js runtime is installed



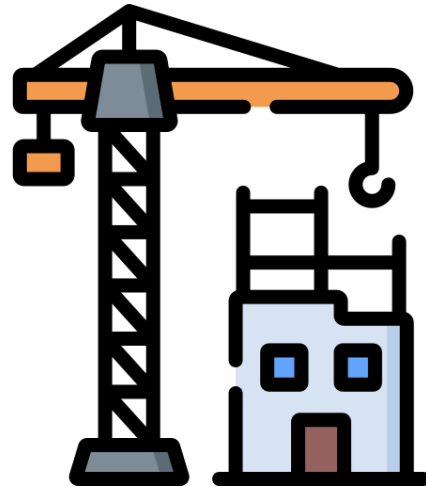
Manage Microsoft 365 and SPFx projects



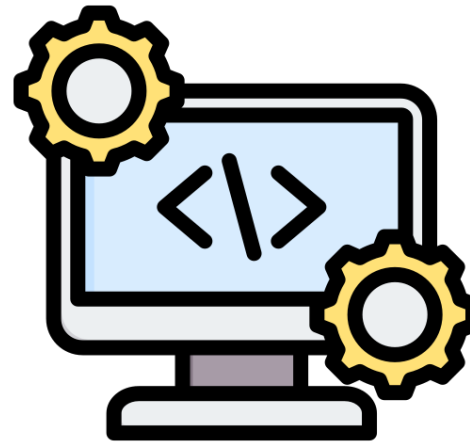
Applications



Reports



Provisioning &
Configuration



Developer
support



Automation

Open source

- Microsoft 365 Platform community
- Build by the tech community



The team



ADAM WOJCIK



ALBERT-JAN SCHOT

Blis Digital



ARJUN MENON

Tata Consultancy Services



GARRY TRINDER

Microsoft



JASEY WAEGEBAERT

WAE Consulting



MARTIN LINGSTUYL

I4-YOU



MILAN HOLEMANS

VanRoey



WALDEK MASTYKARZ

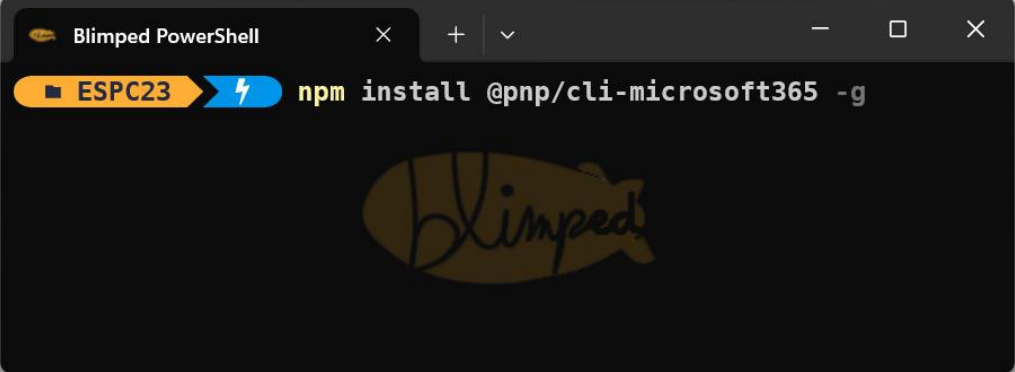
Microsoft



Installing, Configuring, Using

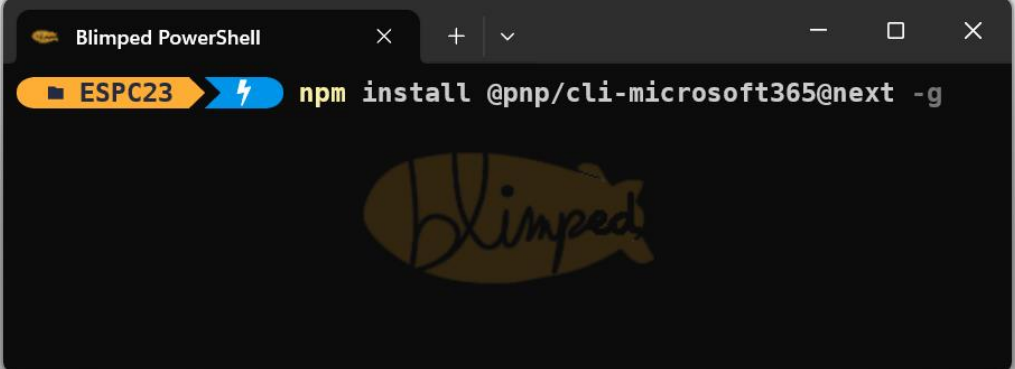
Installing

- Latest VS beta release
- Release cadence
 - Monthly minor version
 - Yearly major version



```
Blimped PowerShell
ESPC23 npm install @pnp/cli-microsoft365 -g
```

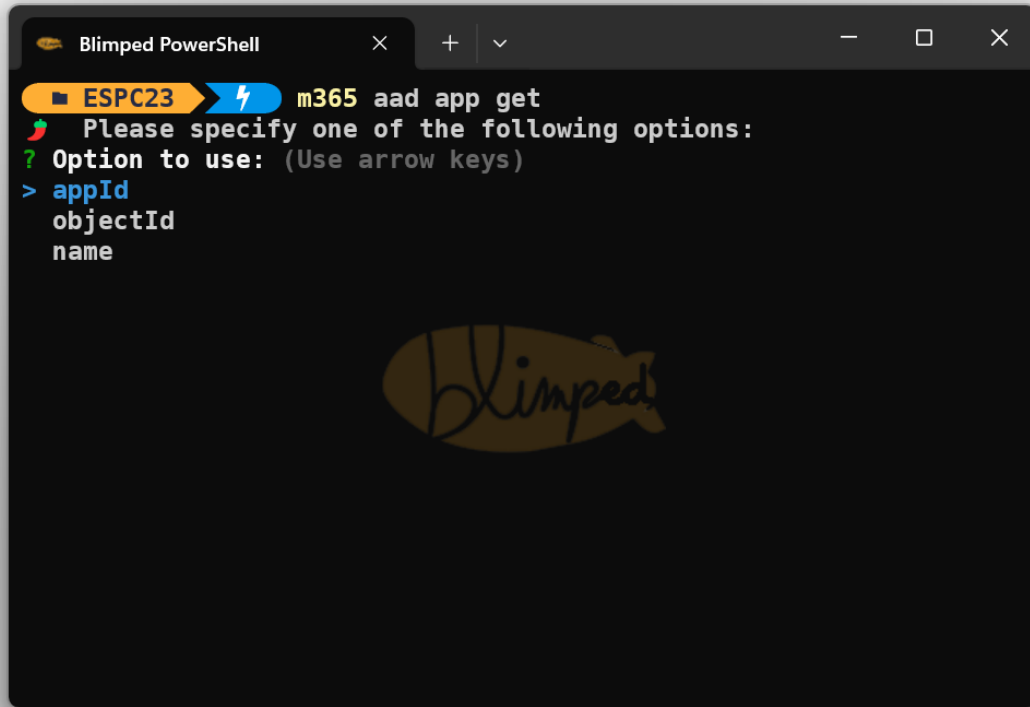
The terminal window shows the command `npm install @pnp/cli-microsoft365 -g` being executed. Below the command, the word "blimped" is written in a stylized, handwritten font.



```
Blimped PowerShell
ESPC23 npm install @pnp/cli-microsoft365@next -g
```

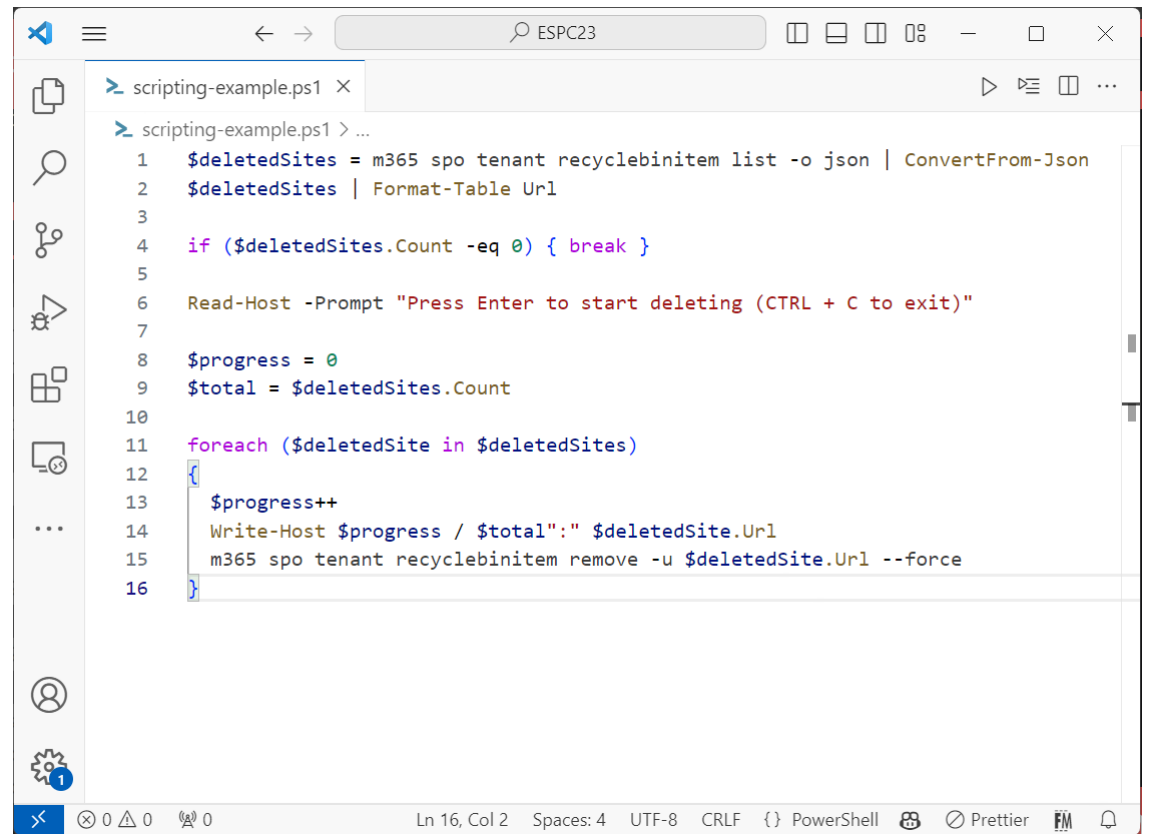
The terminal window shows the command `npm install @pnp/cli-microsoft365@next -g` being executed. Below the command, the word "blimped" is written in a stylized, handwritten font.

Two modes – Interactive VS Scripting



A terminal window titled "Blimped PowerShell" showing an interactive PowerShell session. The prompt is "m365 aad app get". The user is prompted to specify an option from a list: "Option to use: (Use arrow keys)". The user has selected "appId". The terminal also features a "Blimped" logo in the background.

```
Blimped PowerShell
ESPC23 m365 aad app get
Please specify one of the following options:
? Option to use: (Use arrow keys)
> appId
  objectId
  name
```

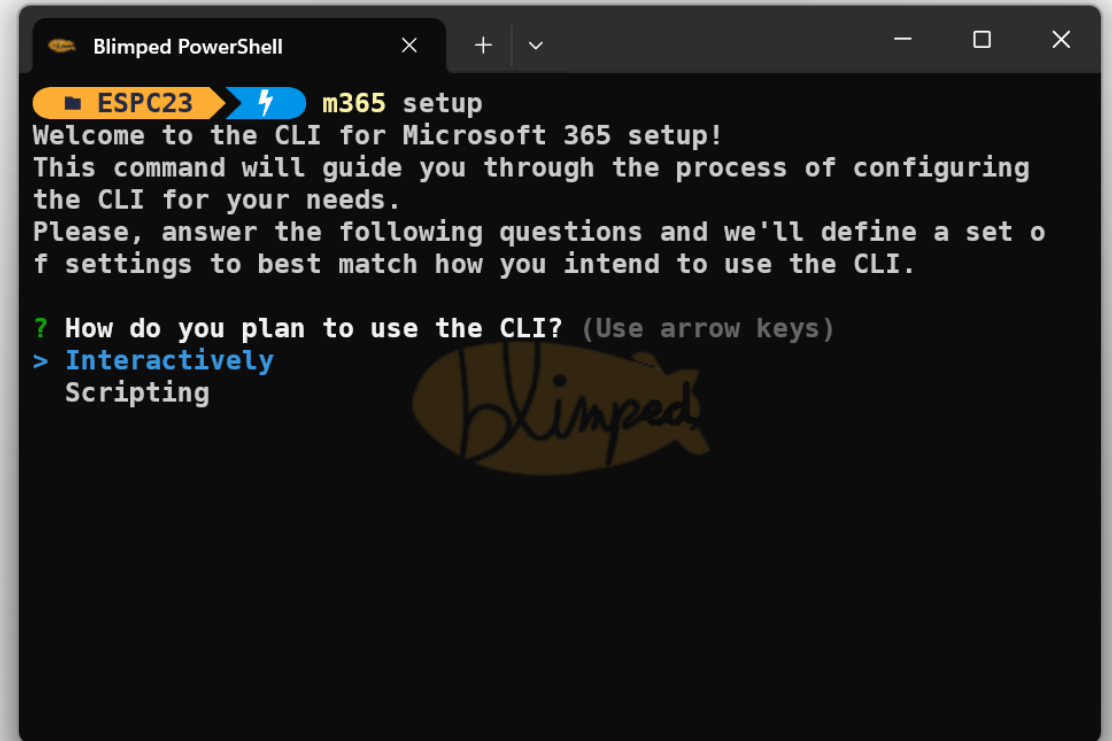


A VS Code editor window showing a PowerShell script named "scripting-example.ps1". The script lists deleted sites and then iterates through them to delete each one. The script includes a progress indicator and a prompt to start deleting.

```
scripting-example.ps1
scripting-example.ps1 > ...
1 $deletedSites = m365 spo tenant recyclebinitem list -o json | ConvertFrom-Json
2 $deletedSites | Format-Table Url
3
4 if ($deletedSites.Count -eq 0) { break }
5
6 Read-Host -Prompt "Press Enter to start deleting (CTRL + C to exit)"
7
8 $progress = 0
9 $total = $deletedSites.Count
10
11 foreach ($deletedSite in $deletedSites)
12 {
13     $progress++
14     Write-Host $progress / $total ":" $deletedSite.Url
15     m365 spo tenant recyclebinitem remove -u $deletedSite.Url --force
16 }
```

Configuration

- Wizard-style 'setup' command
- Further customization: 'config' commands

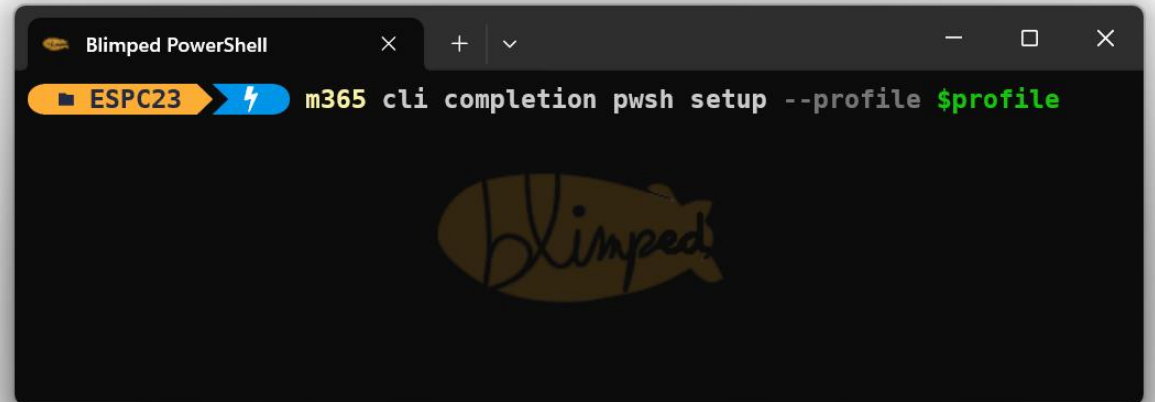


```
Blimped PowerShell
ESPC23 m365 setup
Welcome to the CLI for Microsoft 365 setup!
This command will guide you through the process of configuring
the CLI for your needs.
Please, answer the following questions and we'll define a set o
f settings to best match how you intend to use the CLI.

? How do you plan to use the CLI? (Use arrow keys)
> Interactively
   Scripting
```

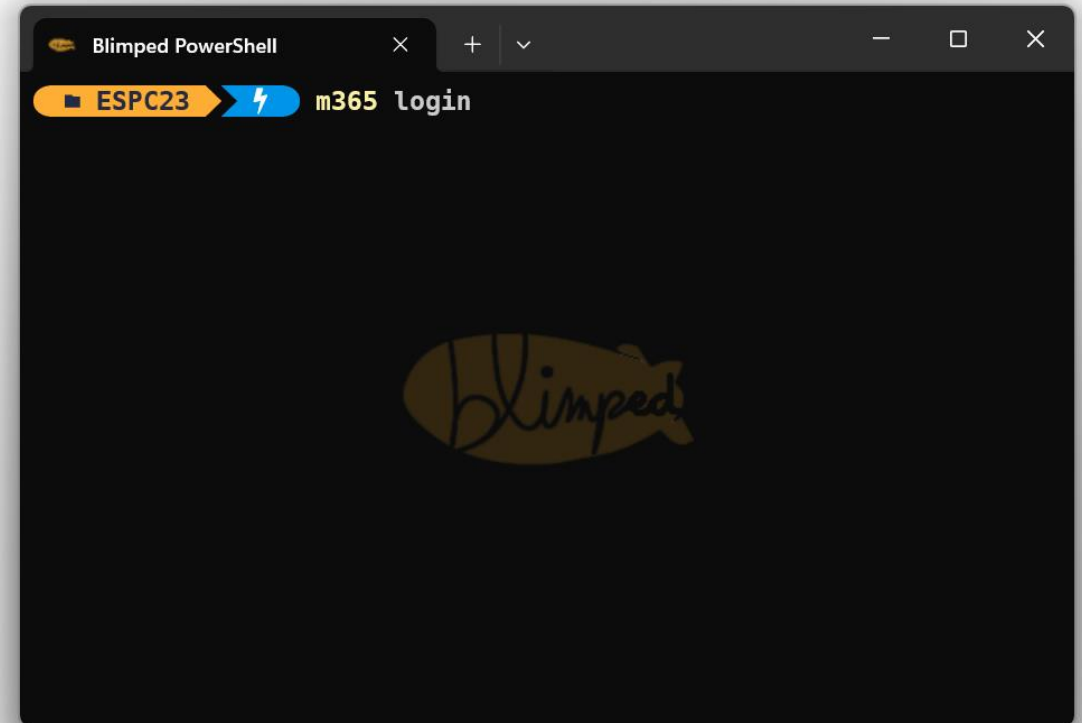
Configuration

- Configure autocomplete



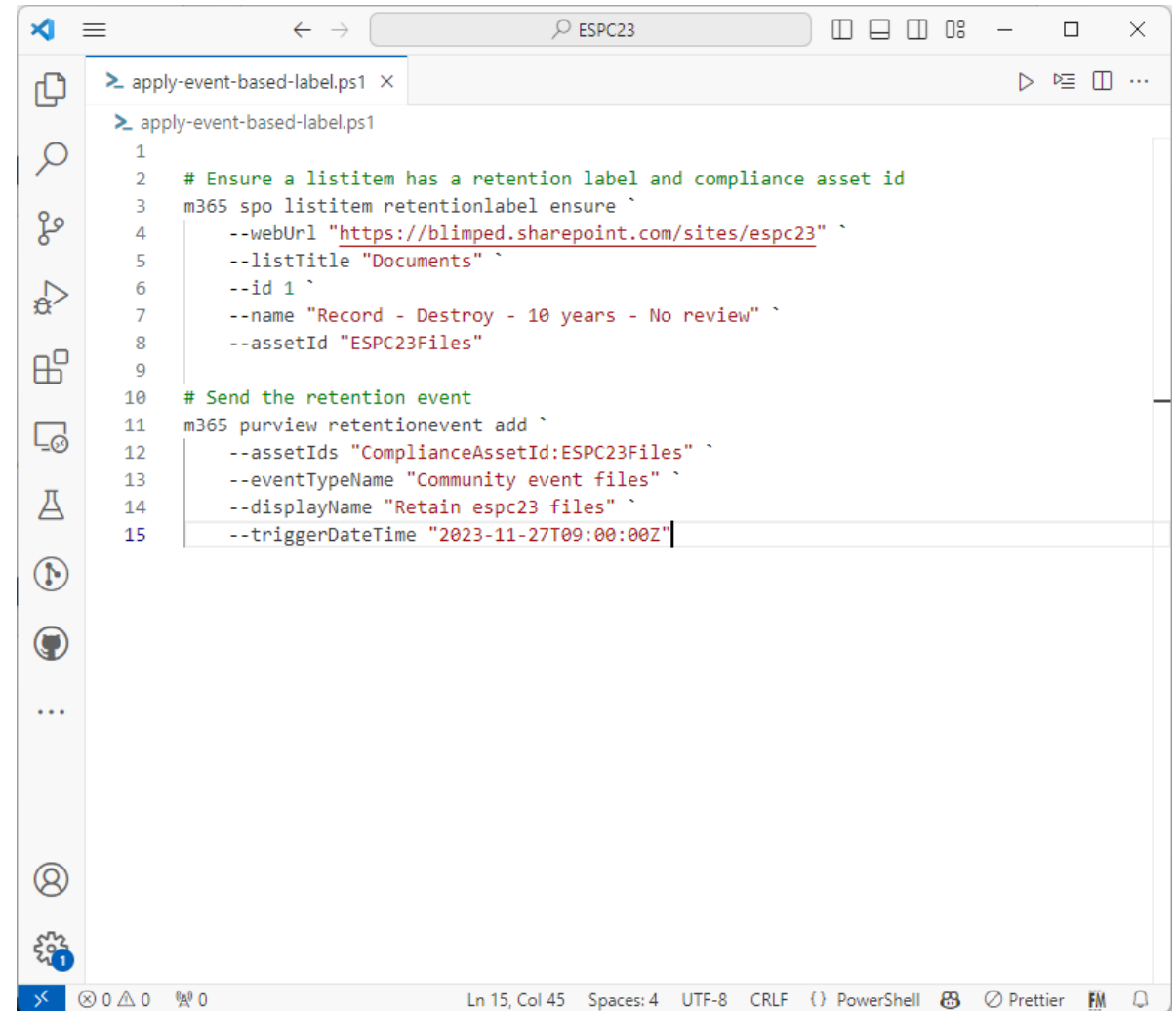
Logging in

- User VS Application
- User: DeviceCode, Browser, Password
- Application: Secret, Certificate, Managed Identity
- Consent / PnP Management Shell / Custom App



Input

- ‘m365 <workload> <commandgroup> <command> <verb>’
- Basic CRUD-verbs per command: list, get, add, set, remove.
- Options with double dashes + shorts with single dashes



```
1
2 # Ensure a listitem has a retention label and compliance asset id
3 m365 spo listitem retentionlabel ensure `
4   --webUrl "https://blimped.sharepoint.com/sites/espc23" `
5   --listTitle "Documents" `
6   --id 1 `
7   --name "Record - Destroy - 10 years - No review" `
8   --assetId "ESPC23Files"
9
10 # Send the retention event
11 m365 purview retentionevent add `
12   --assetIds "ComplianceAssetId:ESPC23Files" `
13   --eventName "Community event files" `
14   --displayName "Retain espc23 files" `
15   --triggerDateTime "2023-11-27T09:00:00Z"
```

Output

- JSON / text / csv / md / none
- No PowerShell-objects
Using JSON with
'ConvertFrom-Json'

```
Blimped PowerShell
ESPC23 m365 aad app get --name "Blimped Function application"
{
  "id": "e387b98e-3db3-454d-bc95-5943c2914157",
  "deletedDateTime": null,
  "appId": "06564e45-8ad4-439a-b26c-b684456333f2",
  "applicationTemplateId": null,
  "disabledByMicrosoftStatus": null,
  "createdDateTime": "2023-04-19T13:52:43Z",
  "displayName": "Blimped Function Application",
  "description": null,
  "groupMembershipClaims": null,
}
```

```
Blimped PowerShell
ESPC23 m365 aad app get --name "Blimped Function application"
| ConvertFrom-Json
id : e387b98e-3db3-454d-bc95-5943c2914157
deletedDateTime :
appId : 06564e45-8ad4-439a-b26c-b684456333f2
applicationTemplateId :
disabledByMicrosoftStatus :
createdDateTime : 19/04/2023 13:52:43
displayName : Blimped Function Application
description :
```

Demo – Custom Reports

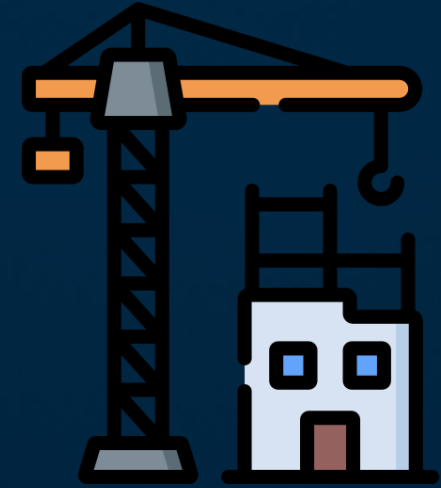


Reports

Custom Reports

- Get user signins
- Get user signins and compare with application permissions
- Get all Power Platform apps and flow across the tenant

Demo – Provisioning & Configuration



Provisioning &
Configuration

Provisioning & Configuration

- Managing people cards profile properties
- Creating Entra Application registrations
- Assigning permissions to Managed Identities

Adele Vance
Retail Manager · Retail
Send email Start chat

Overview **Contact** Organization Files LinkedIn

Contact information

- Email: adelev@blimped.nl
- Chat: adelev@blimped.nl
- Work phone: +1 425 555 0109
- Office location: 18/2111
- Job title: Retail Manager
- Department: Retail
- Business address: Bellevue
- Alias: AdeleV

Microsoft Azure Search resources, services, and docs (G+)

Home > blimped | Enterprise applications > Enterprise applications | All applications > Blimped Function Application

Blimped Function Application | Permissions

Permissions

Below is the list of permissions that have been granted for your organization. As an administrator, you can grant permissions to this app on behalf of all users (delegated permissions). You can also grant permissions directly to this app (app permissions). [Learn more.](#)

You can review, revoke, and restore permissions. [Learn more.](#)

To configure requested permissions for apps you own, use the [app registration](#).

[Grant admin consent for blimped](#)

Admin consent User consent

Search permissions

API Name	Claim value	Permission	Type	Granted through	Granted by	
Microsoft Graph	Group.Read.All	Read all groups	Delegated	Admin consent	An administrator	...

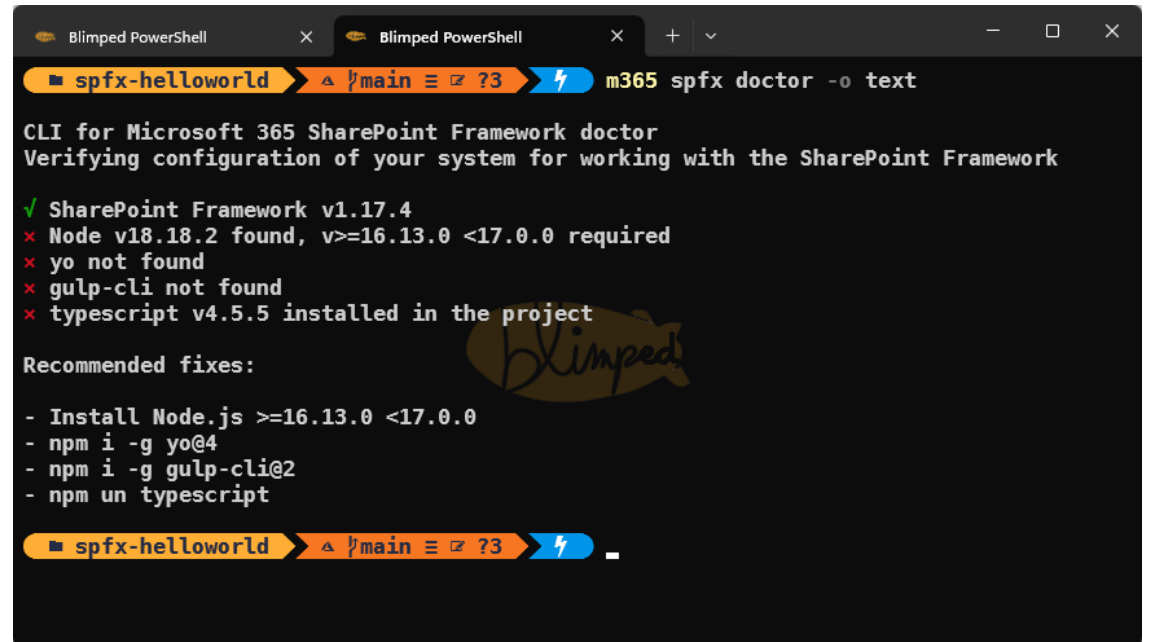
Demo – Developer support



Developer
support

Developer support

- Verify environment
- Verify project
- Upgrade project
- Rename project
- Add Github Deployment workflow
- Easy-grant web api permissions



```
Blimped PowerShell x Blimped PowerShell x + v
spfx-helloworld > main ?3 m365 sfx doctor -o text
CLI for Microsoft 365 SharePoint Framework doctor
Verifying configuration of your system for working with the SharePoint Framework

√ SharePoint Framework v1.17.4
× Node v18.18.2 found, v>=16.13.0 <17.0.0 required
× yo not found
× gulp-cli not found
× typescript v4.5.5 installed in the project

Recommended fixes:

- Install Node.js >=16.13.0 <17.0.0
- npm i -g yo@4
- npm i -g gulp-cli@2
- npm un typescript

spfx-helloworld > main ?3
```

Click through – Automation



Automation

EXPLORER

ESPC-AUTOMATION-FUNCTION

OUTLINE

TIMELINE

BARREL GENERATOR: EXPORT VIEW

CODETOUR

Welcome

Visual Studio Code

Start

- New File...
- Open File...
- Open Folder...
- Clone Git Repository...
- Connect to...

Recent

- spfx-helloworld C:\Repos
- PNH-Deployment C:\Repos
- blimped.nl C:\Repos
- PNH-IOS-AzureFunction C:\Repos
- ESPC23 F:\
- More...

>create new|

Azure Functions: **Create New** Project... recently used

Azure App Service: **Create New** Deployment Slot... other commands

Azure App Service: **Create New** Web App...

Azure App Service: **Create New** Web App... (Advanced)

Azure Developer CLI (azd): **Create** Environment (env new)

Create: New File... Ctrl + Alt + Windows + N

Create: New Jupyter Notebook

Front Matter: **Create new** content from defined content type or template

PowerShell: **Create New** Project from Plaster Template

Terminal: **Create New** Terminal Ctrl + Shift + `

Terminal: **Create New** Terminal (In Active Workspace)

Terminal: **Create New** Terminal (With Profile)

Terminal: **Create New** Terminal in Editor Area

Terminal: **Create New** Terminal in Editor Area to the Side

Terminal: **Create New** Terminal Starting in a Custom Working Directory

Viva Connections Toolkit: **Create new** project

Learn the Fundamentals

Boost your Productivity

Get Started with GitLens Updated

Getting Started with Docker Updated

More...

Show welcome page on startup

EXPLORER

- ESPC-AUTOMATION-FUNCTION
 - .vscode
 - TimerTrigger1
 - function.json
 - readme.md
 - run.ps1
 - sample.dat
 - .funcignore
 - .gitignore
 - host.json
 - local.settings.json
 - profile.ps1
 - requirements.psd1

OUTLINE

TIMELINE

BARREL GENERATOR: EXPORT VIEW

CODETOUR

```

> run.ps1 U x
TimerTrigger1 > > run.ps1 > ...
1 # Input bindings are passed in via param block.
2 param($Timer)
3
4 # Get the current universal time in the default string format
5 $currentUTCtime = (Get-Date).ToUniversalTime()
6
7 # The 'IsPastDue' property is 'true' when the current function invocation is later than scheduled.
8 if ($Timer.IsPastDue) {
9     Write-Host "PowerShell timer is running late!"
10 }
11
12 # Write an information log with the current time.
13 Write-Host "PowerShell timer trigger function ran! TIME: $currentUTCtime"
14

```

TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE PORTS GITLENS

TERMINAL

PowerShell Extension v2023.8.0
Copyright (c) Microsoft Corporation.

<https://aka.ms/vscode-powershell>
Type 'help' to get help.

espc-automation-function > master

PowerShell v7.3.9 is out-of-date. The latest version is v7.4.0. Would you like to open the GitHub release in your browser?

Source: PowerShell (Extension)

Finished creating project.

EXPLORER

- ESPC-AUTOMATION-FUNCTION
 - .vscode
 - TimerTrigger1
 - function.json
 - readme.md
 - run.ps1
 - sample.dat
 - .funcignore
 - .gitignore
 - host.json
 - local.settings.json
 - package.json
 - profile.ps1
 - requirements.psd1

OUTLINE
TIMELINE
BARREL GENERATOR: EXPORT VIEW
CODETOUR

```
{} package.json U x
{} package.json > ...
1 {
2   "name": "pnh-divreports",
3   "version": "1.0.0",
4   "description": "",
5   "main": "index.js",
6   "scripts": {
7     "test": "echo \"Error: no test specified\" && exit 1"
8   },
9   "author": "",
10  "license": "ISC",
11  "dependencies": {
12    "@pnp/cli-microsoft365": "7.1.0"
13  }
14 }
15
```

TERMINAL

PowerShell Extension v2023.8.0
Copyright (c) Microsoft Corporation.

<https://aka.ms/vscode-powershell>
Type 'help' to get help.

espc-automation-function > master

EXPLORER

- ESPC-AUTOMATION-FUNCTION
 - .vscode
 - TimerTrigger1
 - function.json
 - readme.md
 - run.ps1
 - sample.dat
 - .funcignore
 - .gitignore
 - host.json
 - local.settings.json
 - profile.ps1
 - requirements.psd1

OUTLINE

- TIMELINE
- BARREL GENERATOR: EXPORT VIEW
- CODETOUR

```
profile.ps1 U x
profile.ps1 > ...
1 # Azure Functions profile.ps1
2 #
3 # This profile.ps1 will get executed every "cold start" of your Function App.
4 # "cold start" occurs when:
5 #
6
7 # Set up locally installed CLI for Microsoft 365 in PATH variable
8 $functionPath = "$PSScriptRoot\node_modules\.bin"
9 if ($Env:PATH.Contains($functionPath) -eq $false) {
10     [System.Environment]::SetEnvironmentVariable('PATH',"$functionPath;$($Env:PATH)")
11 }
12
```

TERMINAL

PowerShell Extension v2023.8.0
Copyright (c) Microsoft Corporation.

<https://aka.ms/vscode-powershell>
Type 'help' to get help.

espc-automation-function > master

EXPLORER

- ESPC-AUTOMATION-FUNCTION
 - .vscode
 - node_modules
 - TimerTrigger1
 - function.json
 - readme.md
 - run.ps1
 - sample.dat
 - .funcignore
 - .gitignore
 - host.json
 - local.settings.json
 - package-lock.json
 - package.json
 - profile.ps1
 - requirements.psd1

OUTLINE

TIMELINE

BARREL GENERATOR: EXPORT VIEW

CODETOUR

```

TimerTrigger1 > run.ps1 > ...
1 # Input bindings are passed in via param block.
2 param($Timer)
3
4 # Get the current universal time in the default string format
5 $currentTime = (Get-Date).ToUniversalTime()
6
7 # The 'IsPastDue' property is 'true' when the current function invocation is later than scheduled.
8 if ($Timer.IsPastDue) {
9     Write-Host "PowerShell timer is running late!"
10 }
11
12 $localTempDirectory = [System.IO.Path]::GetTempPath().TrimEnd('\')
13 $oneDriveUrl = "https://blimped-my.sharepoint.com/personal/martin_blimped_nl"
14 $serviceAccountServerRelativeUrl = "/personal/martin_blimped_nl/Documents/UsageReports"
15
16 m365 setup --scripting --output none
17
18 m365 login --authType identity
19
20 m365 aad user signin list --output csv > "$localTempDirectory\signins.csv"
21
22 m365 spo file add --webUrl $oneDriveUrl --path "$localTempDirectory\signins.csv" --folder $serviceAccountServerRelativeUrl
23
24

```

TERMINAL

▼ AZURE: ACTIVITY LOG

- ✔ Create Function App "es...

▼ TERMINAL

```

Copyright (c) Microsoft Corporation.

https://aka.ms/vscode-powershell
Type 'help' to get help.

• espc-automation-function > master 77 > npm install

added 477 packages, and audited 479 packages in 13s

71 packages are looking for funding
  run `npm fund` for details

1 moderate severity vulnerability

To address all issues, run:
  npm audit fix

Run `npm audit` for details.
• espc-automation-function > master 10 >

```

File Edit Selection View Go Run Terminal Help

espc-automation-function

profile.ps1 package.json function.json U run.ps1 U X

TimerTrigger1 > run.ps1 > ...

```
1 # Input bindings are passed in via param block.
2 param($Timer)
3
4 # Get the current universal time in the default string format
5 $currentTime = (Get-Date).ToUniversalTime()
6
7 # If the IsTrigger property is 'true' when the current function invocation is later than scheduled.
8 if ($Timer.IsTrigger -and $currentTime -gt $Timer.LastRunTime) {
9     Write-Host "PowerShell timer is running late!"
10 }
11
12 $localTempDirectory = [System.IO.Path]::GetTempPath().TrimEnd('\')
13 $oneDriveUrl = "https://blimped-my.sharepoint.com/personal/martin_blimped_nl"
14 $serviceAccountServerRelativeUrl = "/personal/martin_blimped_nl/Documents/UsageReports"
15
16 m365 login --authType identity
17
18 m365 aad user signin list --output csv > "$localTempDirectory\signins.csv"
19
20 m365 spo file add --webUrl $oneDriveUrl --path "$localTempDirectory\signins.csv" --folder $serviceAccountServerRelativeUrl
21
22
23 # Write an information log with the current time.
24 Write-Host "PowerShell timer trigger function ran! TIME: $currentTime"
25
```

Function App

- Create Function App in Azure...
- Create Function App in Azure... (Advanced)
- Refresh

blimped-test-functio

my-espc23-retentio

Logic App

PostgreSQL servers (F

PostgreSQL servers (Standard)

Spring Apps

Static Web Apps

Storage accounts

Virtual machines

WORKSPACE Local

- Attached Storage Accounts
- Attached Database Accounts
- Local Project espc-automation-functi...

HELP AND FEEDBACK

master* 0 0 0 Git Graph

Ln 10, Col 2 Spaces: 4 UTF-8 CRLF {} PowerShell Prettier FM

```

TimerTrigger1 > run.ps1 > ...
1 # Input bindings are passed in via param block.
2 param($Timer)
3
4 # Get the current universal time in the default string format
5 $currentUTctime = (Get-Date).ToUniversalTime()
6
7 # The 'IsPastDue' property is 'true' when the current function invocation is later than scheduled.
8 if ($Timer.IsPastDue) {
9     Write-Host "PowerShell timer is running late!"

```

```

empDirectory = [System.IO.Path]::GetTempPath().TrimEnd('\')
veUrl = "https://blimped-my.sharepoint.com/personal/martin_blimped_nl"
eAccountServerRelativeUrl = "/personal/martin_blimped_nl/Documents/UsageReports"

gin --authType identity

d user signin list --output csv > "$localTempDirectory\signins.csv"

o file add --webUrl $oneDriveUrl --path "$localTempDirectory\signins.csv" --folder $serviceAccountServerRelativeUrl

an information log with the current time.
ost "PowerShell timer trigger function ran! TIME: $currentUTctime"

```

- Browse Website
- Deploy to Function App...**
- Configure Deployment Source...
- Start
- Stop
- Restart
- Delete Function App...
- Start Streaming Logs
- Stop Streaming Logs
- Edit Tags...
- View Properties
- Open in Portal
- Refresh

```

Copyright (c) Microsoft Corporation.
https://aka.ms/vscode-powershell
Type 'help' to get help.

■ espc-automation-function > master 2 77 > npm install
added 477 packages, and audited 479 packages in 13s

71 packages are looking for funding
run `npm fund` for details

1 moderate severity vulnerability

To address all issues, run:
npm audit fix

Run `npm audit` for details.
■ espc-automation-function > master 2 10 >

```

Successfully created function app "espc-automation-function":

<https://espc-automation-function.azurewebsites.net>

Source: Azure Functions (Extension) View Output

Function App

blimped (blimped.nl)

+ Create Manage view

Filter for any field...

Name ↑↓

- blimped-test-function
- espc-automation-function**
- my-espc23-retention-job

espc-automation-function

Function App

Search

Browse Refresh Stop Restart Swap Get publish profile Reset publish profile Download app content Delete Send us your feedback

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Microsoft Defender for Cloud
- Events (preview)
- Functions
 - App keys
 - App files
 - Proxies
- Deployment
 - Deployment slots
 - Deployment Center
- Settings
 - Configuration
 - Authentication
 - Application Insights
 - Identity
 - Backups
 - Custom domains
 - Certificates
 - Networking

Essentials

Resource group (move) : [espcautomationfunction](#) URL : <https://espc-automation-function.azurewebsites.net>

Status : Running Operating System : Windows

Location (move) : West Europe App Service Plan : [ASP-espc-automation-function-576f \(Y1: 0\)](#)

Subscription (move) : [Visual Studio Enterprise Subscription](#) Runtime version : 4.27.5.21549

Subscription ID : 4b432821-d67a-49b8-861c-33547bb8550c

Tags (edit) : Add tags

Functions

+ Create {} Set up local environment Refresh

Filter by name...

Name	Trigger	Status	Monitor
TimerTrigger1	Timer	Enabled	Invocations and more

Function App
blimped (blimped.nl)

+ Create Manage view

Filter for any field...

Name ↑↓

- blimped-test-function
- espc-automation-function**
- my-esp23-retention-job

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Microsoft Defender for Cloud

Events (preview)

Functions

- App keys
- App files
- Proxies

Deployment

- Deployment slots
- Deployment Center

Settings

- Configuration**
- Authentication
- Application Insights
- Identity
- Backups
- Custom domains
- Certificates
- Networking

espc-automation-function | Configuration

Search Refresh Save Discard Leave Feedback

Application settings * Function runtime settings General settings

Application settings

Application settings are encrypted at rest and transmitted over an encrypted channel. You can choose to display them in plain text in your browser by using the controls below. Application Settings are exposed as environment variables for access by your application at runtime. [Learn more](#)

+ New application setting Show values Advanced edit

Filter application settings

Name	Value	Source	Deployment slot setting	Delete	Edit
APPINSIGHTS_INSTRUMENTATIONKEY	Hidden value. Click to show value	App Service			
AzureWebJobsStorage	Hidden value. Click to show value	App Service			
FUNCTIONS_EXTENSION_VERSION	Hidden value. Click to show value	App Service			
FUNCTIONS_WORKER_RUNTIME	Hidden value. Click to show value	App Service			
WEBSITE_CONTENTAZUREFILECONNECTION:	Hidden value. Click to show value	App Service			
WEBSITE_CONTENTSHARE	Hidden value. Click to show value	App Service			
WEBSITE_NODE_DEFAULT_VERSION	~18	App Service			
WEBSITE_RUN_FROM_PACKAGE	Hidden value. Click to show value	App Service			

Connection strings

Connection strings are encrypted at rest and transmitted over an encrypted channel. Connection strings should only be used with a function app if you are using entity framework. For other scenarios use App Settings. [Learn more](#)

+ New connection string Show values Advanced edit

Filter connection strings

Function App

blimped (blimped.nl)

+ Create Manage view

Filter for any field...

Name ↑↓

- blimped-test-function
- espc-automation-function**
- my-espc23-retention-job

espc-automation-function | Identity

Function App

Search

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Microsoft Defender for Cloud
- Events (preview)

Functions

- App keys
- App files
- Proxies

Deployment

- Deployment slots
- Deployment Center

Settings

- Configuration
- Authentication
- Application Insights
- Identity**
- Backups
- Custom domains
- Certificates
- Networking

System assigned User assigned

A system assigned managed identity is restricted to one per resource and is tied to the lifecycle of this resource. You can grant permissions to the managed identity by using Azure role-based access control (Azure RBAC). The managed identity is authenticated with Microsoft Entra ID, so you don't have to store any credentials in code.

Save Discard Refresh Troubleshoot Got feedback?

Status ⓘ

Off **On**

Object (principal) ID ⓘ

916e75be-7cb8-408f-9e7f-cdacfc07635e



Permissions ⓘ


Azure role assignments

i This resource is registered with Microsoft Entra ID. The managed identity can be configured to allow access to other resources. Be careful when making changes to the access settings for the managed identity because it can result in failures.

✓ Enabled system assigned managed identity

Successfully registered 'espc-automation-function' with Microsoft Entra ID.

```
Blimped PowerShell x Blimped PowerShell x + v
ESPC23 ⚡
> m365 aad approleassignment add --appObjectId "916e75be-7cb8-408f-9e7f-cdacfc07635e" --resource SharePoint --scopes "Sites.FullControl.All"
> m365 aad approleassignment add --appObjectId "916e75be-7cb8-408f-9e7f-cdacfc07635e" --resource "Microsoft Graph" --scopes "AuditLog.Read.All"
```



TimerTrigger1 | Code + Test

Search

Save Discard Refresh Test/Run Upload

Your app is currently in read only mode because you are running from a package file. To make any changes update the content in your zip file and WEBSITE_RUN_FROM_PACKAGE app setting.

espc-automation-function \ TimerTrigger1 \ run.ps1

```

12 $localTempDirectory = [System.IO.Path]::GetTempPath($env:UserName)
13 $oneDriveUrl = "https://blimped-my.sharepoint.com/personal/martin_blimped_nl"
14 $serviceAccountServerRelativeUrl = "/personal/martin_blimped_nl/Documents/UsageReports"
15
16 m365 setup --scripting --output none
17
18 m365 login --authType identity
19
20 m365 aad user signin list --output csv > "$localTempDirectory\signins.csv"
21
22 m365 spo file add --webUrl $oneDriveUrl --path "$localTempDirectory\signins.csv" --folder $serviceAccountSer
23 .....
24
25 # Write an information log with the current time.
26 Write-Host "PowerShell timer trigger function ran! TIME: $currentUTCtime"
27

```

Logs App Insights Logs Log Level Stop Copy Clear Maximize Leave Feedback

```

Connected! You are now viewing logs of Function runs in the current Code + Test panel. To see all the logs for
this function, please go to 'Monitor' from the Function menu.
2023-11-17T11:03:42Z [Information] Executing 'Functions.TimerTrigger1' (Reason='This function was
programmatically called via the host APIs.', Id=00635878-195f-4eb1-a9b2-51135c8f572b)
2023-11-17T11:03:42Z [Verbose] Sending invocation id: '00635878-195f-4eb1-a9b2-51135c8f572b'
2023-11-17T11:03:42Z [Verbose] Posting invocation id:00635878-195f-4eb1-a9b2-51135c8f572b on
workerId:5219e6d9-746a-45ee-a0b1-0f1d17ff9c80
2023-11-17T11:03:48Z [Information] OUTPUT: {
2023-11-17T11:03:48Z [Information] OUTPUT: "connectedAs": "espc-automation-function",
2023-11-17T11:03:48Z [Information] OUTPUT: "authType": "Identity",
2023-11-17T11:03:48Z [Information] OUTPUT: "appId": "31359c7f-bd7e-475c-86db-fdb8c937548e",
2023-11-17T11:03:48Z [Information] OUTPUT: "appTenant": "common",
2023-11-17T11:03:48Z [Information] OUTPUT: "cloudType": "Public"
2023-11-17T11:03:48Z [Information] OUTPUT: }
2023-11-17T11:04:16Z [Information] INFORMATION: PowerShell timer trigger function ran! TIME: 11/17/2023
11:03:42
2023-11-17T11:04:16Z [Information] Executed 'Functions.TimerTrigger1' (Succeeded, Id=00635878-195f-4eb1-
a9b2-51135c8f572b, Duration=33768ms)

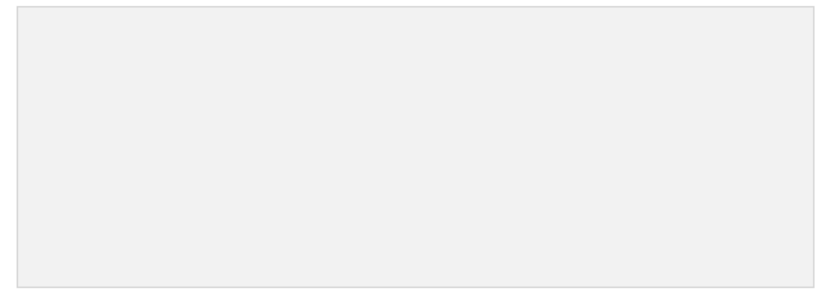
```

Input Output

HTTP response code

202 Accepted

HTTP response content



Run Close

+ Add new

Share Copy link Download Automate

Sort Details

Martin Lingstuyt

- Home
- My files
- Shared
- Favorites
- Recycle bin

Browse files by

- People **New**
- Meetings **New**

Quick access

- ESPC23
- Team 2 abc2
- CLITest5
- Learning2 - DocLibraryWi...
- Learning2 - TestLibrary
- Learning2 - TestLibrary3
- Learning2 - Siteactiva
- DutchSite

More places...

Storage

< 0.1 GB used of 1 TB (1%)

My files > UsageReports





Name	Modified	Modified By	File size	Sharing	Activity
signins.csv	About a minute ago	SharePoint App	77.5 KB	Private	

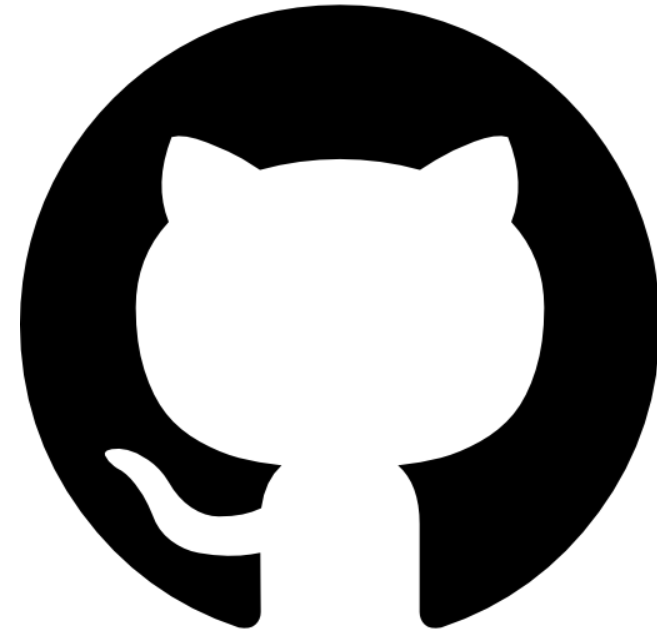
In conclusion

Links

- Website: <https://pnp.github.io/cli-microsoft365>
- Contribute: <https://github.com/pnp/cli-microsoft365>
- Blogs:
 - Automation: <https://www.blimped.nl/how-to-run-the-cli-for-microsoft365-on-an-azure-function/>
 - CI/CD: <https://www.blimped.nl/deploying-spfx-apps-with-azure-devops-pipelines-all-yaml/>

How to engage?

-  Feedback
-  Report bugs
-  Contribute samples
-  Contribute new features





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