



>_ State of the Shell

PowerShell Team

Welcome to the PowerShell Gallery

The central repository for sharing and acquiring PowerShell code including PowerShell modules, scripts, and DSC resources.

The packages on this repository are community content and should be regarded as inherently untrusted.



Search PowerShell packages:



13,860

Unique Packages

20,789,159,190

Total package downloads

433,482

Total packages

A screenshot of the Visual Studio Code interface showing the PowerShell extension page. The left sidebar displays the 'EXTENSIONS: MARKETPLACE' view with a search for 'powershell'. The main area shows the 'PowerShell' extension by Microsoft, with details like version 3.5, 13.8M downloads, and a 3.5 star rating. The 'Extension: PowerShell' page includes tabs for DETAILS, FEATURES, CHANGELOG, and DEPENDENCIES. The 'DETAILS' tab is active, showing the extension's description, installation instructions, and available features. The right sidebar shows the 'Installation' section with the identifier 'ms-vscode.powershell' and version '2025.0.0'. The bottom of the image shows a PowerShell terminal window with the command 'Connect-Azaccount -Tenant'.



PowerShell



PowerShell 7.5.0

PS C:\Users\sysmith2> Connect-Azaccount -Tenant





PowerShell / PowerShell

<> Code

Issues 1k

Pull requests 123

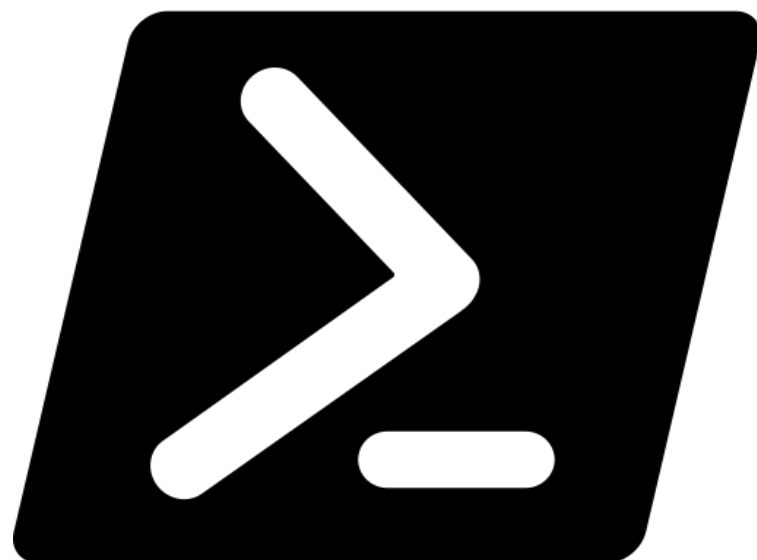
Discussions



PowerShell

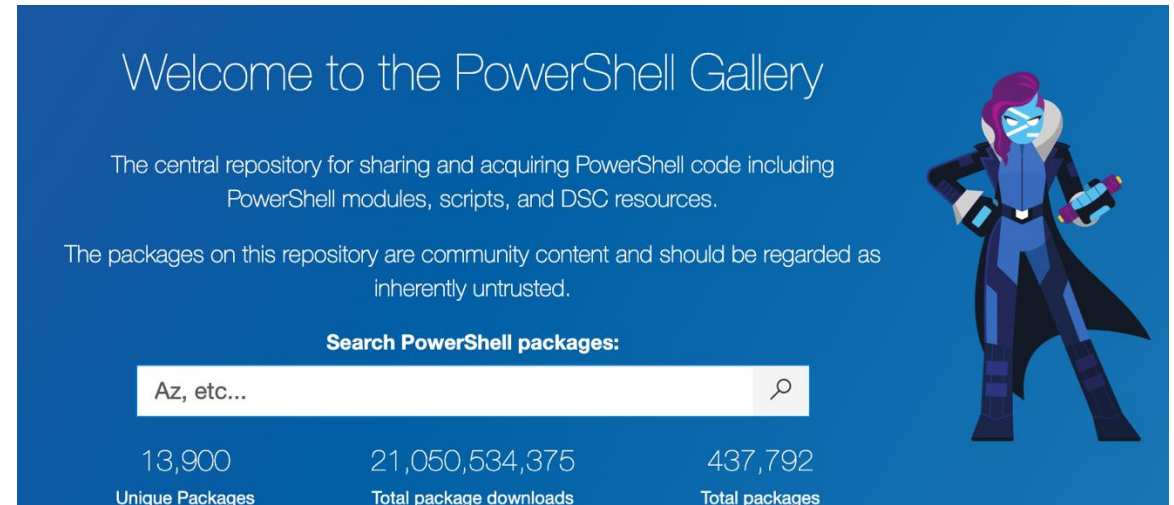
Public

Edit Pins




PowerShell 7.5 & telemetry

- Release of PowerShell 7.5
- 450+ published packages a day to the Gallery!
- 200M+ Machines using PowerShell 7 monthly
- 2B+ PS7 Sessions per month!




Az Module now in trusted MAR

```
PS C:\Users\sysmith2> Install-PSResource Az -Repository MAR
```

 Microsoft | Microsoft Artifact Registry Search

[Back to catalog](#)



Az

Microsoft

Repository:

[About](#) [Tags](#)

Filter:

	Artifact	Type	Digest	Last Published
>	13.2.0	application/vnd.oci.image.config.v1+json	sha256:38a362e0ec5a7af4c85c7f56fdfaf47de1498b120ac0213fd4e7b391efe3c63a	02/27/2025
>	13.0.0	application/vnd.oci.image.config.v1+json	sha256:16d50b9d2dddec4eb0148c44fc7683925d7e3f89e1b724815f97b7c6c9c3c1819	02/09/2025
>	13.1.0	application/vnd.oci.image.config.v1+json	sha256:4205d579e41e380e5d9dcb8c692d960f0c69f95a72b87a776ead29674d0e0492	01/22/2025

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Last Published
02/27/2025

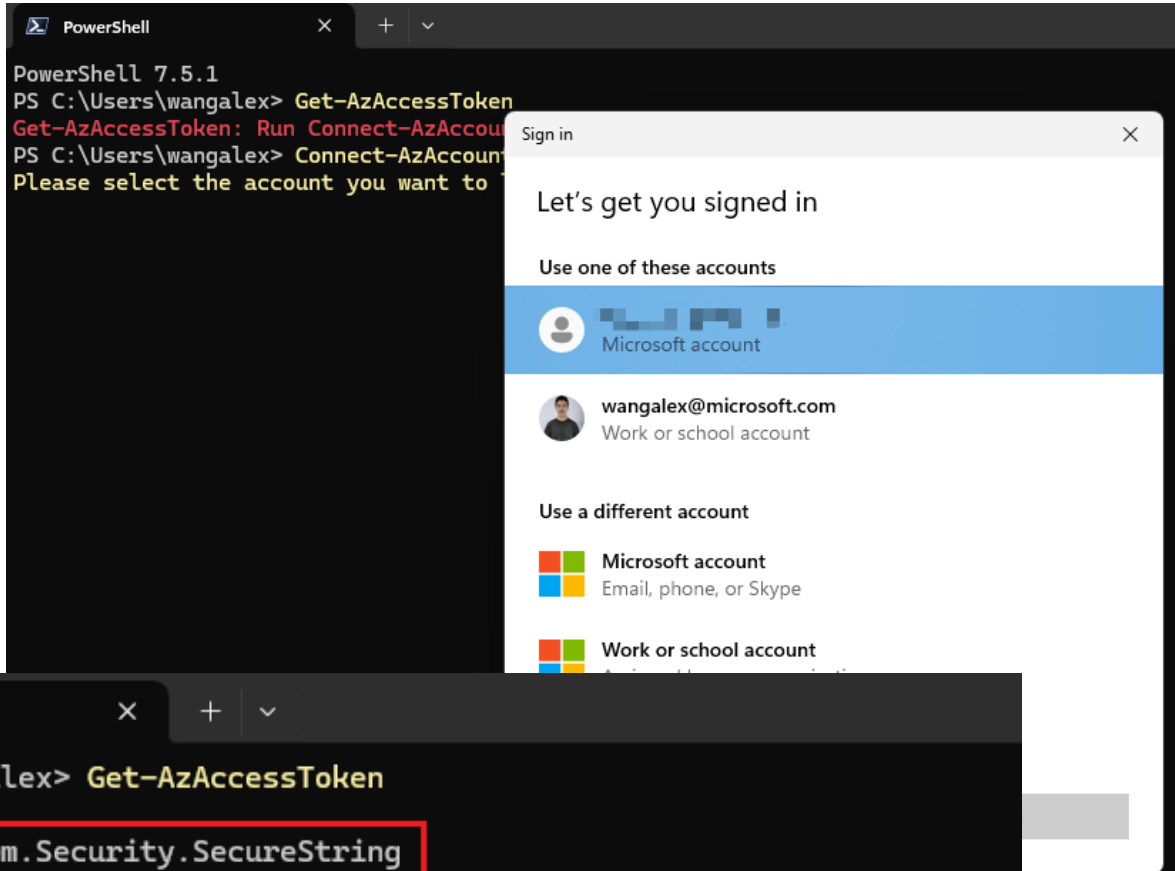
Pulls
655

Categories
Programming Languages
DevOps Tools

Project
[Project Website](#)
Apache-2.0 License

Azure CLI and PowerShell feature update

- **WAM** – Microsoft Web Account Manager is now the default authentication mechanism on Windows.
- **Get-AzAccessToken** in Azure PowerShell introduced a breaking change by updating the parameter type String -> SecureString.
- Azure CLI and PowerShell Long Term Support releases (**LTS**)
- Improve Copilot's response quality and performance (CLI&PS)



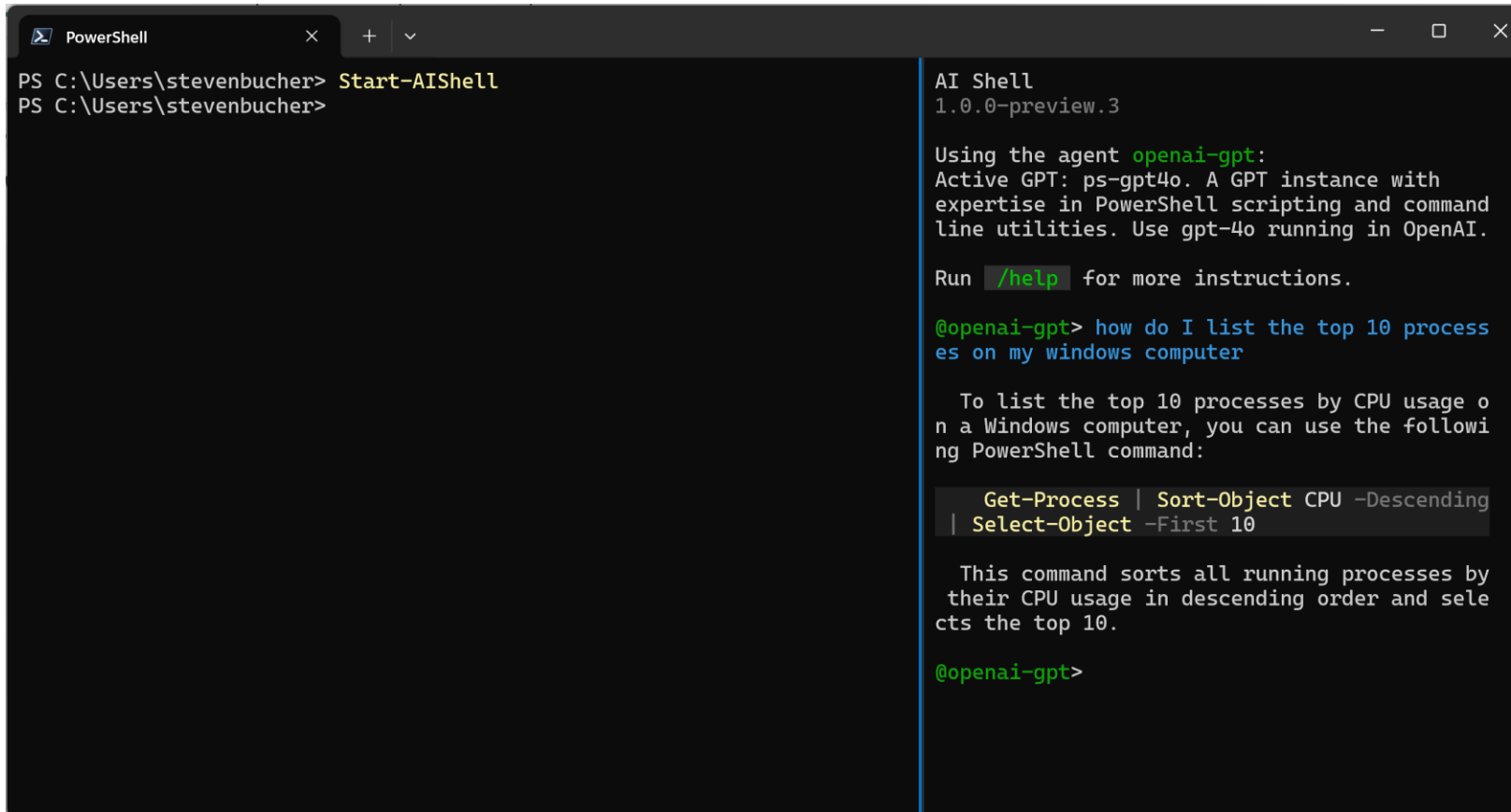
```
PowerShell
PS C:\Users\wangalex> Get-AzAccessToken

Token      : System.Security.SecureString
ExpiresOn  : 6/16/2025 11:06:09 PM +00:00
TenantId   : 72f988bf-86f1-41af-91ab-2d7cd011db47
UserId     : wangalex@microsoft.com
Type       : Bearer

PS C:\Users\wangalex> $Token = Get-AzAccessToken
PS C:\Users\wangalex> $Token.Token | ConvertFrom-SecureString -AsPlainText
eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsIngidCI6IHR5cGU6ImNpdjBPSjYRSj9.eyJhdWQiOiJodHRwczovL21hbmFnZWl1bnQuY29yZS53aW5kb3dzLm5ldC8iLCJpc3M...
```



- AI assistance directly in your Shell



```
PowerShell
PS C:\Users\stevenbucher> Start-AIShell
PS C:\Users\stevenbucher>
```

AI Shell
1.0.0-preview.3

Using the agent **openai-gpt**:
Active GPT: ps-gpt4o. A GPT instance with expertise in PowerShell scripting and command line utilities. Use gpt-4o running in OpenAI.

Run **/help** for more instructions.

@openai-gpt> how do I list the top 10 processes on my windows computer

To list the top 10 processes by CPU usage on a Windows computer, you can use the following PowerShell command:

```
Get-Process | Sort-Object CPU -Descending  
| Select-Object -First 10
```

This command sorts all running processes by their CPU usage in descending order and selects the top 10.

@openai-gpt>

Desire State Configuration (DSC) version 3

- Configuration step that is deeper in the stack
 - Think of standing up an ACR instance with Bicep but now being able to do something about it
- Decoupled from PowerShell
- Resources written in any language
- Configs written in JSON, YAML and Bicep

Thanks to the
community for their
vital involvement!

3.1 is GA!
(guess what 3.2 is coming soon!)



DSCDemo.txt - Notepad

File Edit Format View Help

This demonstration is on Windows Server 2025.

- Configure a simple web server
- Using DSC v3 with Bicep configuration file
- Using PSDSC v1 WindowsFeature resource

Ln 6, Col 11 100% Windows (CRLF) UTF-8

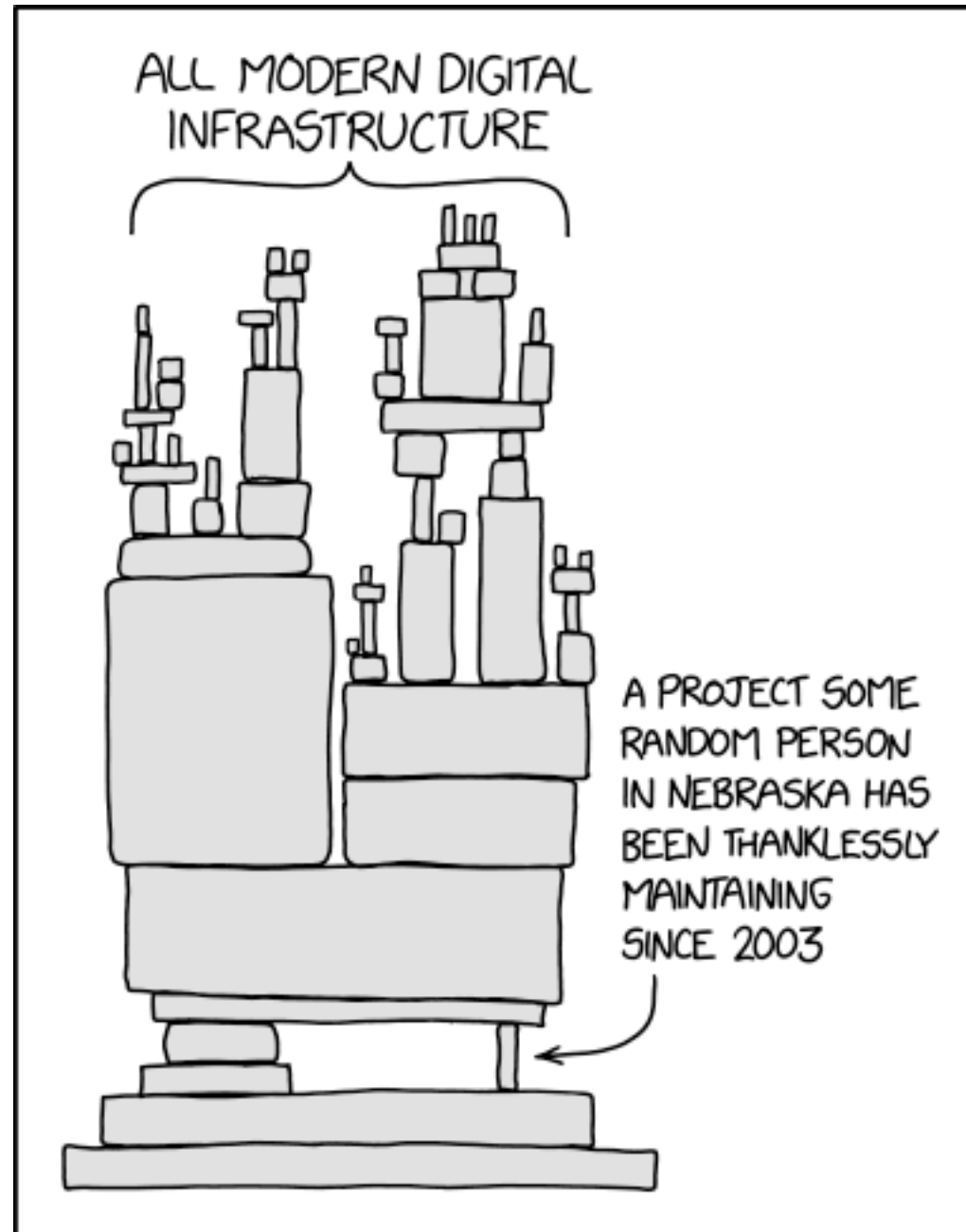


OpenSSH for Windows

- Increasing where you can use SSH in an easy seamless manner
- SSH Server (SSHD) is installed-by-default on Windows Server 2025
- SSH Posture Control supports auditing and configuring SSH Server settings on Azure machine

“One thing we have learned over years is that the world moves quickly, and building is easy but supporting is hard....”

- Sydney Smith 2025



Core fundamentals

- Security
- Privacy
- Quality
- Supportability

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File Edit Selection View Go Run ...

vscode-docs - Extension: PowerShell

EXTENSIONS: MARKETPLACE

powershell

PowerShell 13.8M ★ 3.5
Develop PowerShell modules, com...
Microsoft Install

PowerShell Pro Tools 268K ★ 3.5
Powerful extensions for PowerShell ...
Ironman Software Install

Run in PowerShell 92K ★ 5
Runs scripts in a new Powershell ter...
Toby Smith Install

Azure PowerShell Tools 92K ★ 2
(preview) Automate the migration ...
Microsoft Install

Inline Values support ... 88K ★ 5
Enables inline values for variables w...

PowerShell
Microsoft microsoft.com | 13,817,264 | ★★★★★ (166)
Develop PowerShell modules, commands and scripts in Visual Studio Code!
Install Auto Update

DETAILS FEATURES CHANGELOG DEPENDENCIES

PowerShell for Visual Studio Code

CI Tests passing version rate limited by upstream service installs 14M
#vscode 2.8k online

This extension provides rich PowerShell language support for Visual Studio Code (VS Code). Now you can write and debug PowerShell scripts using the excellent IDE-like interface that VS Code provides.

This repository, [vscode-powershell](#), is the [Language Server Protocol](#) client for VS Code and [PowerShellEditorServices](#) is the server (also used by other editors, such as Emacs and Vim).

Available Features

- Syntax highlighting
- Advanced built-in code snippets
- IntelliSense for cmdlets and more
- Problems reported by PowerShell Script Analyzer
- Go to Definition of cmdlets, variables, classes and more
- Find References of cmdlets, variables, classes and more
- Document and Workspace Symbol Navigation

Installation

Identifier ms-vscode.powershell
Version 2025.0.0
Last 2025-02-20,
Updated 17:04:25
Size 302.78MB
Cache 5.27MB

Marketplace

Published 2015-11-17,
18:50:38
Last 2025-01-21,
Released 14:15:53

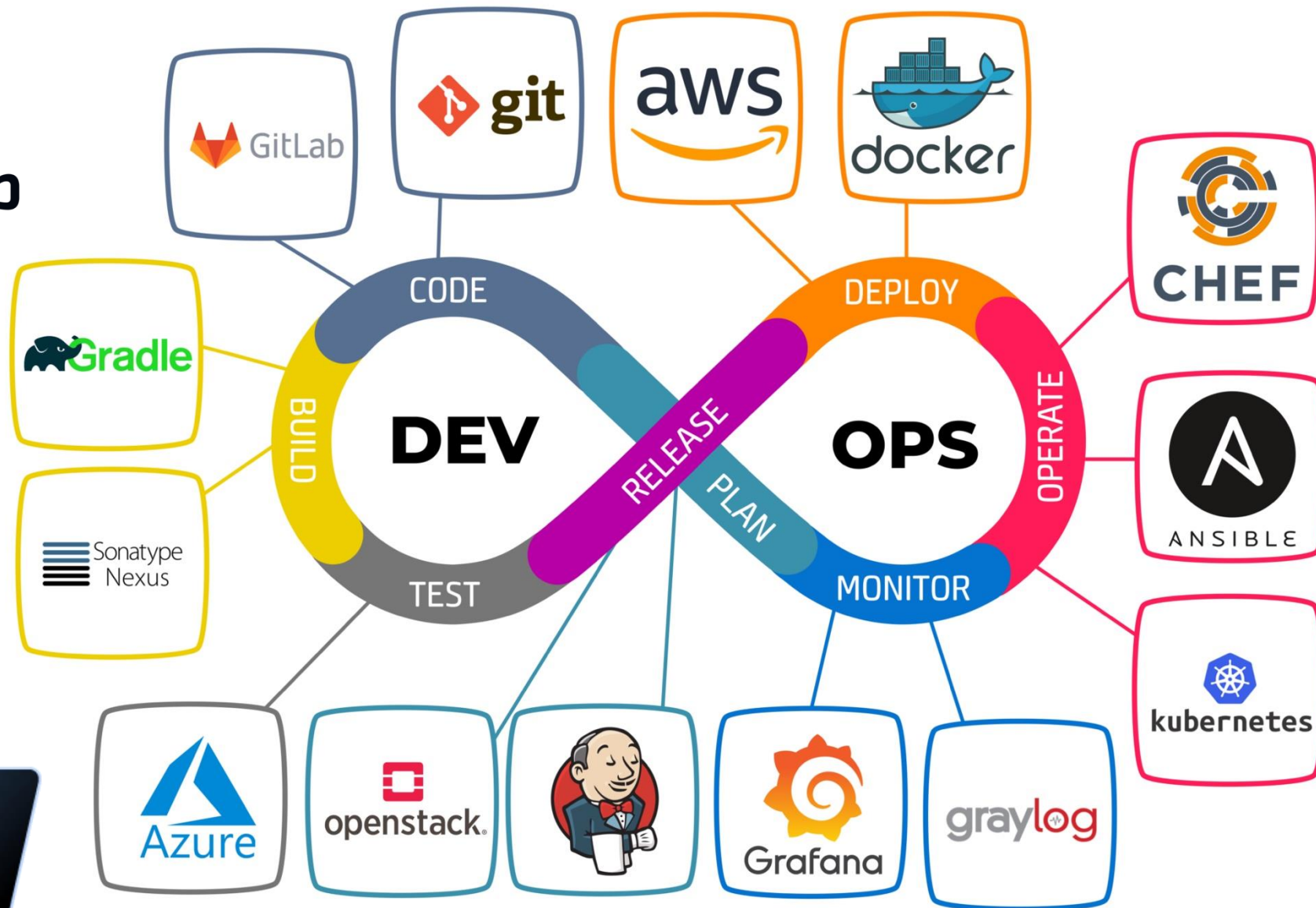
Categories

Debuggers Formatters
Programming Languages
Snippets Linters

PowerShell

PowerShell 7.5.0

PS C:\Users\sysmith2> Connect-Azaccount -Tenant



Call to action!

- Take the opportunity take someone's learning as your training



Schedule of Sessions

- Monday
 - 1pm - **What's new in WinGet** – Demitrius Nelon
- Tuesday
 - 2pm - **PSResourceGet: Enhancing Trust in the Supply Chain with Container Registry Galleries** – Anam Navied
 - 5pm - **Mastering AI Shell and dive into AI Operations** – Steven Bucher
- Thursday 1pm -
 - **Secure your cloud environment with all-new Azure Policy and Machine Configuration features!** - Mutemwa Masheke
 - **SSH and SSH Arc: What's new and next** – Tess Gauthier
 - **PowerShell 7 Security** – Anam Navied

To stay in touch

- Join the community call 3rd Thursday of every month 9:30am
 - March and September are hosted for alternate time zone
 - <https://aka.ms/PSCommunityCallInfo>
- Get involved in the community!
- Learn something new this week!



Resources for core principals

- [Script security](#)
- [Script authoring](#)
- [Execution policies](#)
- [PowerShell Docs](#)

<https://aka.ms/SOTS2025>