

The Experts Conference

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September 29-Oct 1, 2025 Minneapolis, MN

Where Identity Security, Microsoft 365, and Copilot experts gather, learn, and innovate



PAULA JANUSZKIEWICZ Founder and CEO, CQURE

ALEX SIMONS CVP, Microsoft

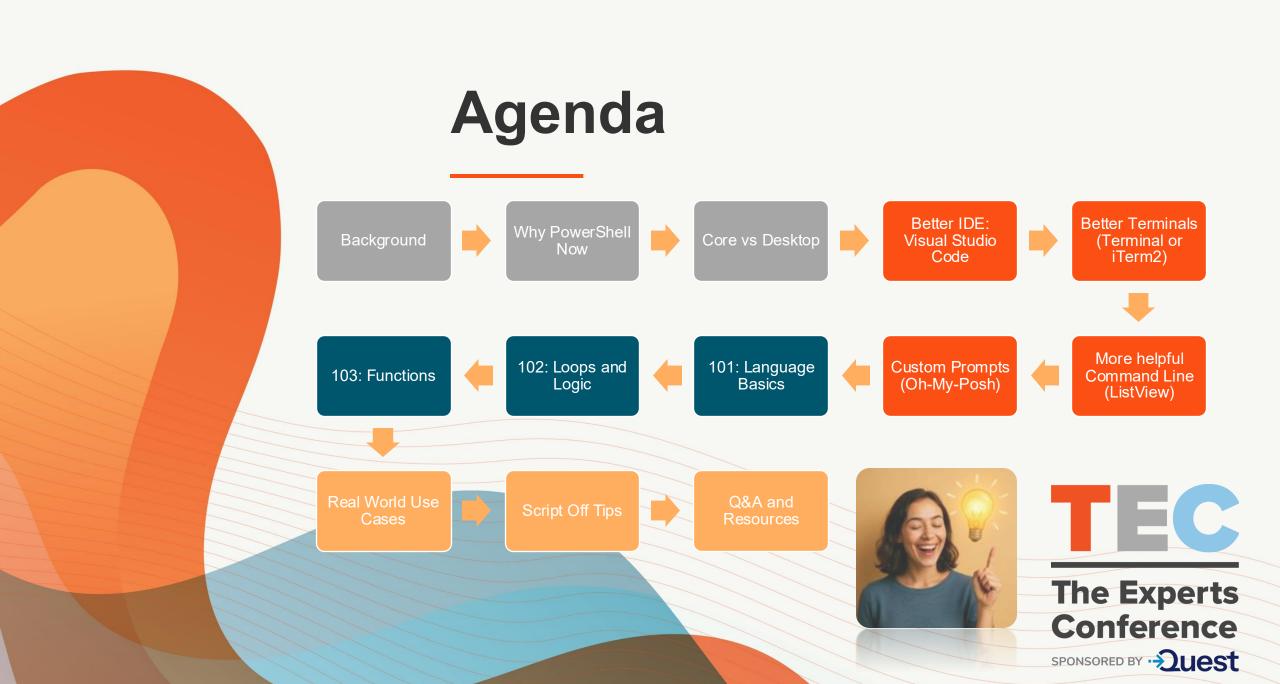
ADAM BANKS Former CIO, Maersk



Eric Weintraub

IT Architect
Manager of Identity Automation
Quest Software

PowerShell Demystified: From Zero to Script Off Challenge Contender



The Experts Conference

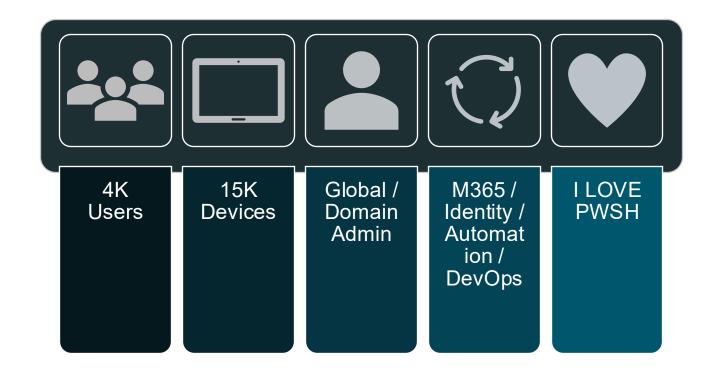
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from the Trenches



IT Architect and 20-year veteran of Microsoft technologies. From NT4 to Azure infrastructure and everything in between. Focused on modernizing systems management for a cloud-first world. Originally from ScriptLogic.



Don't be afraid!



Fun

 It's like building with Lego, but it's business critical

AI / Vibe Scripting

Ai gives everyone the ability to create

Cross-Platform & Modern

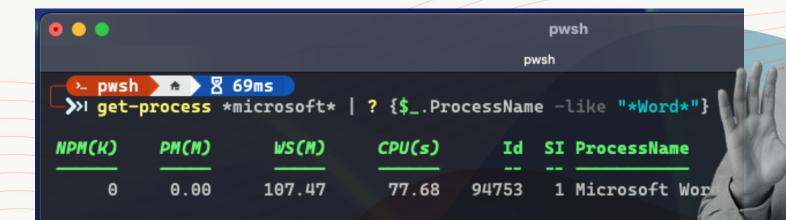
 PowerShell 7+ runs on Windows, macOS, and Linux

Microsoft

 Microsoft doesn't like to make nice Admin tools for us, they give us PowerShell modules

Career

 Be the one automating not the one Ai replaces with automation



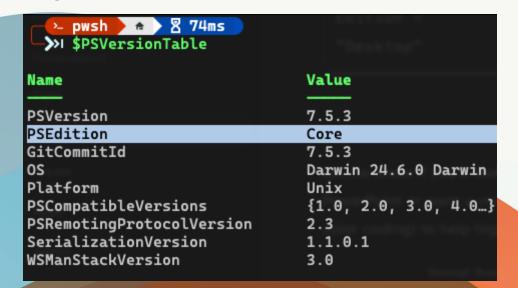
PowerShell Desktop vs Windows



Interview Questions:

- "Tell me any difference between Windows PowerShell and PowerShell Core"
- "Tell me what was the last version of Windows PowerShell or what the current version of Core is"

Simple Questions but no one ever answers





PowerShell Core (7+)

Broad support for older modules

Legacy version – no new features

Built on Windows .NET Framework

Windows-only

Supports newer modules and APIs (Parallel threads)

Actively developed and modern

Built on Open Source .NET Core / .NET 5+

Cross-platform: Windows, macOS, Linux

\$PSVersionTable

Better IDE: Visual Studio Code

https://code.visualstudio.com/download

Integrated Terminal

Run PowerShell directly inside the editor

Cross-Platform

 Works on Windows, macOS, and Linux

PowerShell Extension

 Syntax help, IntelliSense, and error highlighting

Version Control Built-In

 Git integration for tracking and collaboration

Copilot Support

 Al-assisted scripting with GitHub Copilot

SSH Remoting

 Create, Modify, and Execute code on a remote host using local IDE





Better Terminals

Terminals (for Windows)

- Included in
 - Windows 11 22H2+
 - Server 2025+

iTerm2 (for Mac)

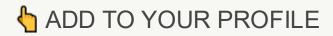
https://iterm2.com/

```
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                                               pwsh
                                             pwsh
                                                                     6 € 100% € 8 25,09:2
  >> $event
                                                                                    <History(10)>
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```

More helpful Command Line (ListView) + Profiles



Set-PSReadLineOption - PredictionViewStyle ListView

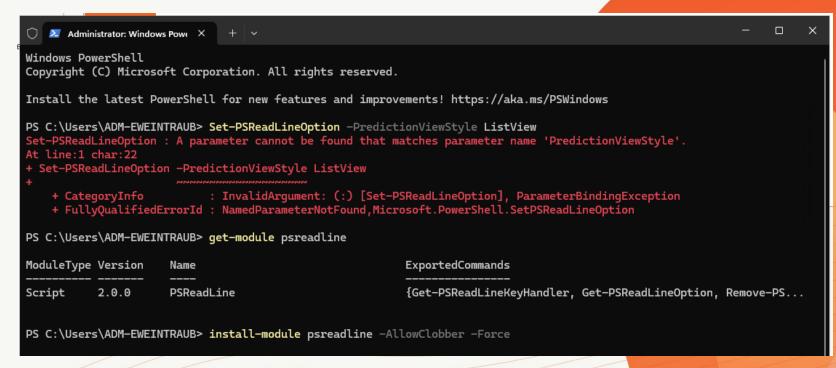


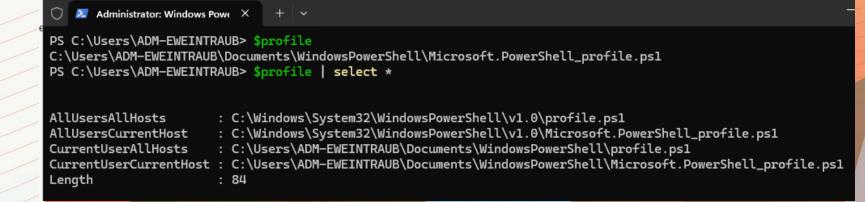
Your Profile? See the files involved with:

\$Profile | Select *

Add it with this oneliner:

"Set-PSReadLineOption PredictionViewStyle
ListView" | out-file
\$profile.CurrentUserAllHosts
-append



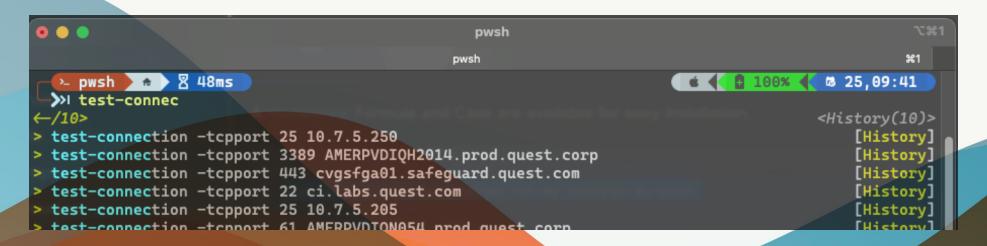


Oh-My-Posh?



https://ohmyposh.dev/

- Install Win Pre-2025: see https://ohmyposh.dev/docs/installation/windows
- Install Win2025: winget install JanDeDobbeleer.OhMyPosh --source winget --scope user
- Install Mac: brew install jandedobbeleer/oh-my-posh/oh-my-posh
- Install a font : oh-my-posh font install (CascadiaCode (not-MS) /CaskaydiaCove Nerd Font)
- Set your terminal to use font
- Exit and reopen terminal to ensure new path and font
- Add the following to your profile so it runs:
 - oh-my-posh init pwsh | Invoke-Expression



101: Language Basics



Variables & Basic Syntax

Strings vs Numbers Arrays & Data Collections

PowerShell Pipeline

Custom
Objects & Data
Structures

Filtering & Querying Data



Follow along

102: Loops and Logic

If / Then Logic

Foreach Loops

Do / While Loops





Follow along

103: Functions and Libraries

OOP

Functions

Libraries





Follow along

Real World Use Cases

LAdmin

 LAPS system utilizing PKI, Azure Functions & Azure SQL

User Affinity

System for assigning ownership of servers

Certificate Automation

 Automatic renewal of free SSL Certificates

Identity Hygiene

 Checking for breached passwords and other account related issues

Data Syncs to SQL

 AD, Entra MFA, Defender Tags, Entra Apps

Dynamic DL's

- AllReports
- DirectReports



Practical 365 PowerShell Script-off

5:15pm-6:30pm (after welcome reception)

Location: Keynote ballroom

You can still sign-up!

Attendee with laptop with HDMI output? Familiar with Microsoft 365 scripting? Al Coding Assistants allowed Chance to WIN BIG!









Q&A and Resources

https://aka.quest/tec25/pwsh101



