

# Use PowerShell to Control & Automate Just About Everything!

**Mike Nelson**

Technical Evangelist  
Pure Storage

Level: Intermediate

# Session Survey


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## Mike

- 35+ years in tech
- Technical Evangelist @ Pure Storage
- Experience from Helpdesk to Architect
- Scripter, not a coder
- Passion for community, teaching, learning
- Beer, BBQ, & Gadgets

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## Session Materials

<https://mikenelson.io/urls/tm2024>



# Agenda

PowerShell, Automation & Foundational Concepts

Automate Everything?

Accelerating your code creation

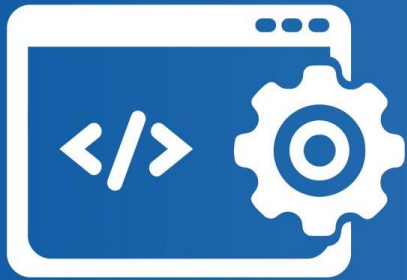
How do we automate tasks as IT Admins?

Why do we use PowerShell as IT Admins?

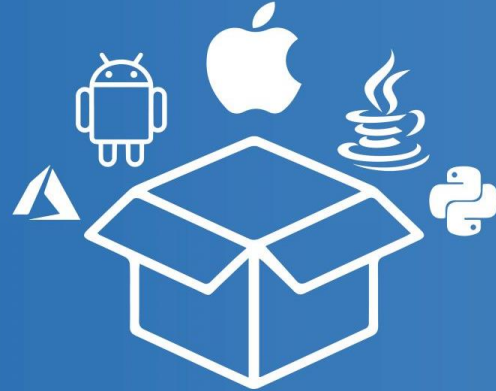


Automate and control everything??

Well, if it has an API, sure.



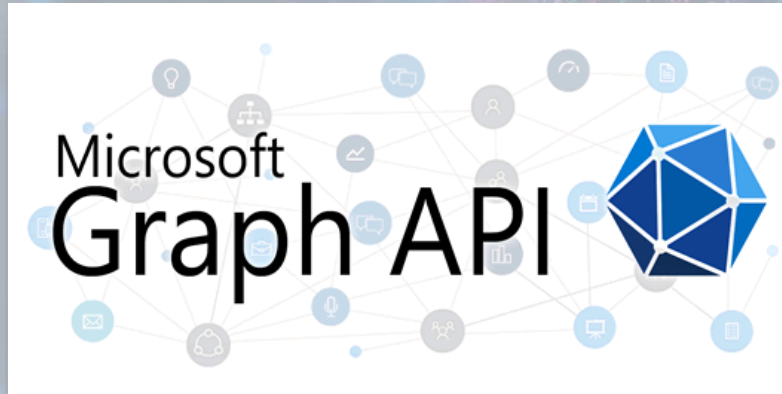
**API**



**SDK**

Let's look at an API spec and decipher it a bit.

Then, we'll look at a SDK for that API.







## 4 Foundational Concepts for Using Automation in IT

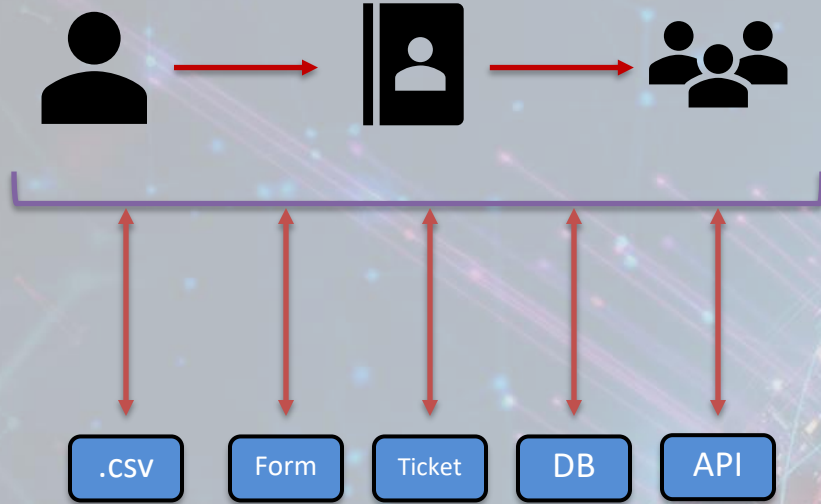
1. Make my job easier
2. Do more with less
3. Remove human error
4. Focus on the good stuff

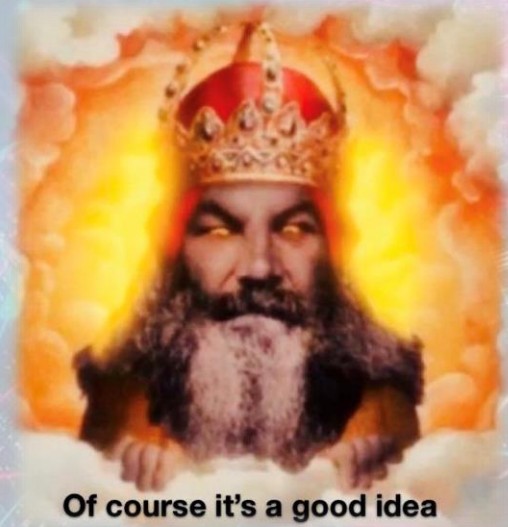
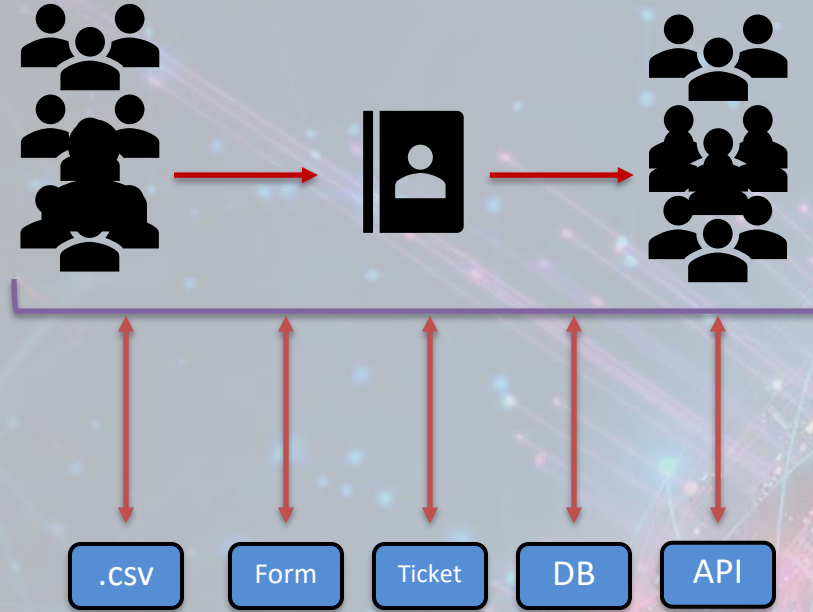
## Simple task to full automation

Add a user to Active Directory & add to a group





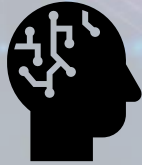




# Different ways to innovate, create, & use automation



scripts  
one-liners  
functions  
modules



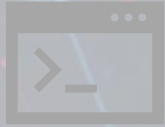
ChatGPT  
Copilot  
?-AI



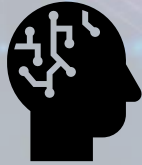
Web Apps  
Power Automate  
Vendor automate  
APIs



# Different ways to create & use automation



scripts  
one-liners  
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modules



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Remember the 4 fundamentals.

If it takes longer than 5 minutes to do, automate it.

There are many, many ways to automate.

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