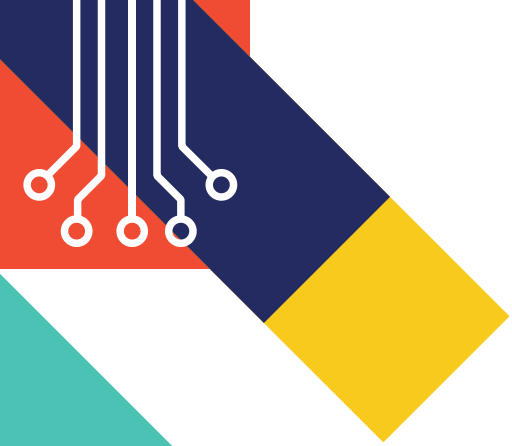


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# Top 10 Active Directory Management Tasks with PowerShell

<https://github.com/jdhitsolutions/ADTop10Tasks>

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# Jeff Hicks

Author/Teacher/Mentor



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# Active Directory Automation

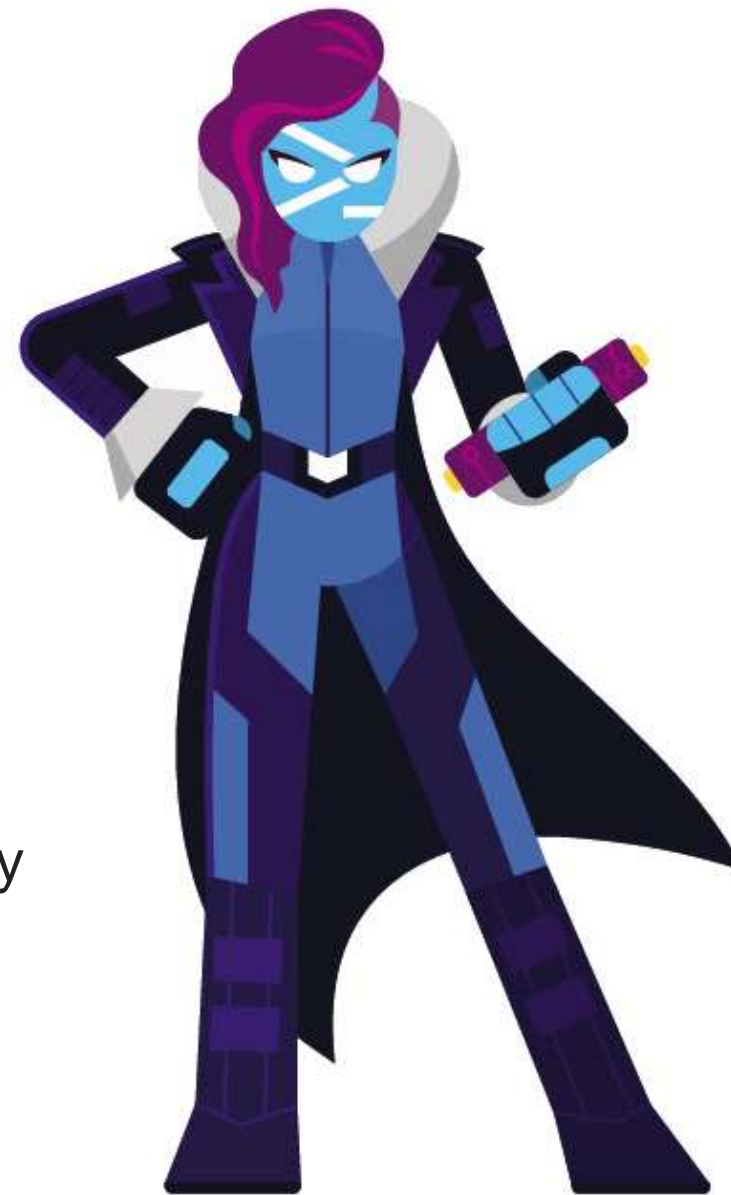
Active Directory management is full of repetitive tasks

GUI based tools don't scale

PowerShell can be used interactively

PowerShell can be used as an automation engine

Automation means efficiency *and* consistency



# Requirements

- Windows PowerShell 5.1
  - Remote Server Administration Tools
    - Active Directory Module
    - `Add-WindowsCapability -name rsat.ActiveDirectory* -online`
  - Windows Server 2016 Domain Controller
  - Everything is done from a Windows client desktop
- 





```
PS C:\> Import-Module ActiveDirectory
PS C:\> Get-Module ActiveDirectory
```

ModuleType	Version	Name	ExportedCommands
-----	-----	----	-----
Manifest	1.0.1.0	ActiveDirectory	{Add-ADCentralAccessPolicyMember, Add-ADComputerS...

```
PS C:\> Get-Command -Module ActiveDirectory | more
```

CommandType	Name	Version	Source
-----	----	-----	-----
Cmdlet	Add-ADCentralAccessPolicyMember	1.0.1.0	ActiveDirectory
Cmdlet	Add-ADComputerServiceAccount	1.0.1.0	ActiveDirectory
Cmdlet	Add-ADDomainControllerPasswordReplicationPolicy	1.0.1.0	ActiveDirectory
Cmdlet	Add-ADFineGrainedPasswordPolicySubject	1.0.1.0	ActiveDirectory
Cmdlet	Add-ADGroupMember	1.0.1.0	ActiveDirectory
Cmdlet	Add-ADPrincipalGroupMembership	1.0.1.0	ActiveDirectory
Cmdlet	Add-ADResourcePropertyListMember	1.0.1.0	ActiveDirectory
...			





# Common Tasks

1. Get FSMO Holders
2. Find Empty OUs
3. Create new users
4. Find inactive user accounts
5. Find inactive computer accounts





# Common Tasks

6. Find Empty Groups
7. Enumerate Nested Group Membership
8. List User Group Memberships
9. Password Age Report
10. Domain Controller Health





The slide features a central white background with the text "To the console...". On the left and right sides, there are colorful geometric shapes (yellow, red, teal, and dark blue) and white line-art icons. The left side includes a circuit board icon at the top and a microchip icon at the bottom. The right side includes a power button icon at the top, a Wi-Fi signal icon in the middle, and a server rack icon at the bottom.

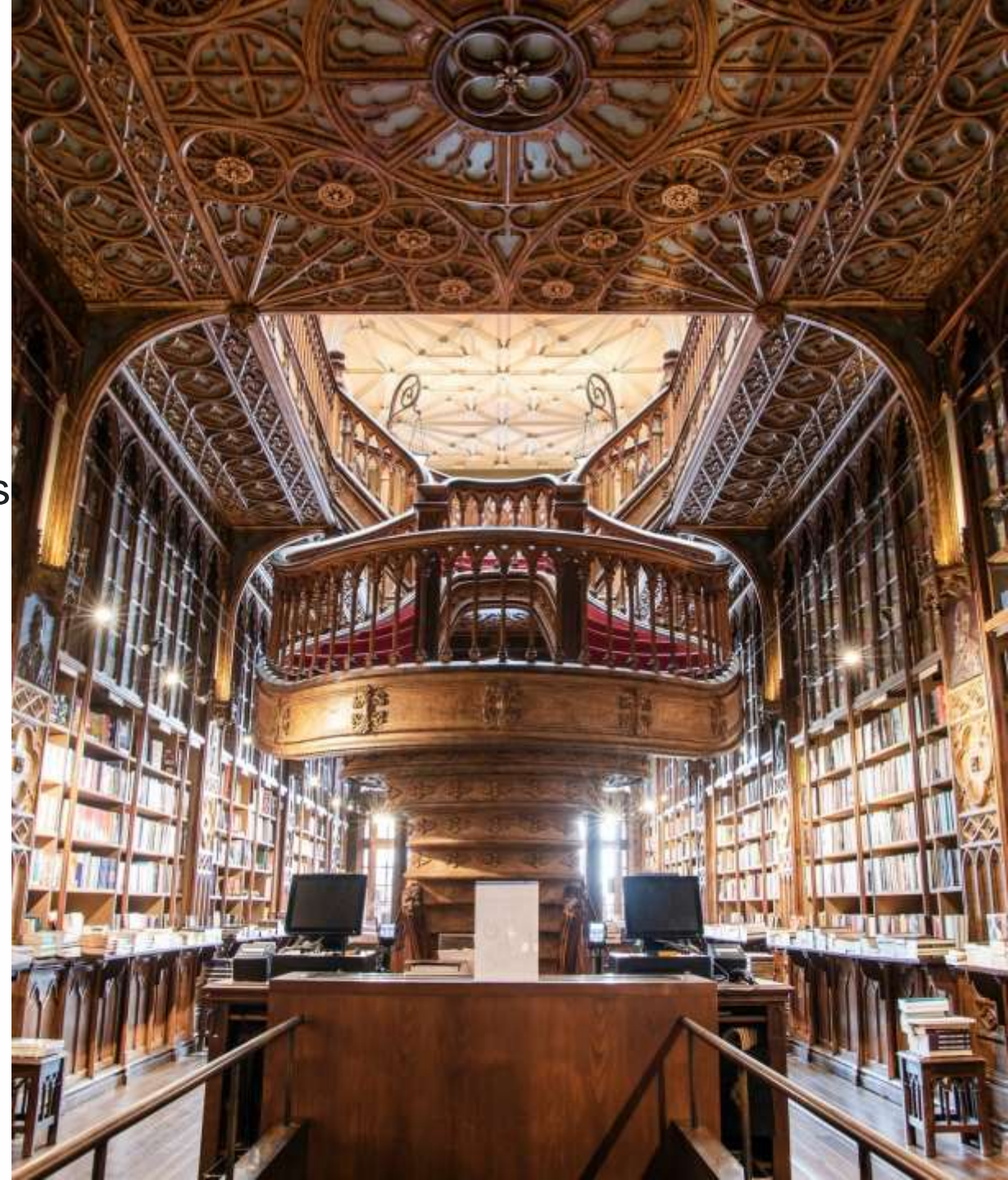
# To the console...

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# Resources

- This presentation and demos
  - <https://github.com/jdhitsolutions/ADTop10Tasks>
- My blog
  - <https://jdhitsolutions.com>
- My courses
  - Pluralsight.com
- My books
  - <https://leanpub.com/powershell-scripting-toolmaking>





# Thank you.

@jeffhicks

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