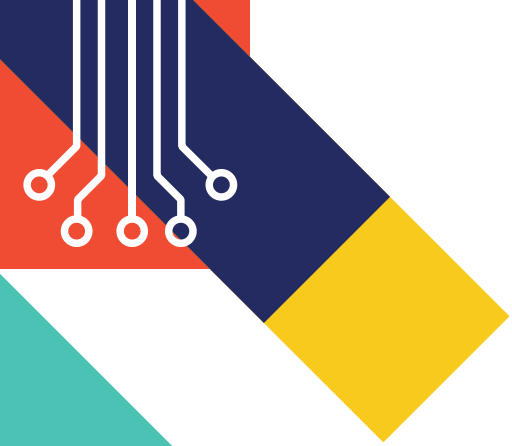


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Top 10 Active Directory Management Tasks with PowerShell

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Active Directory Automation

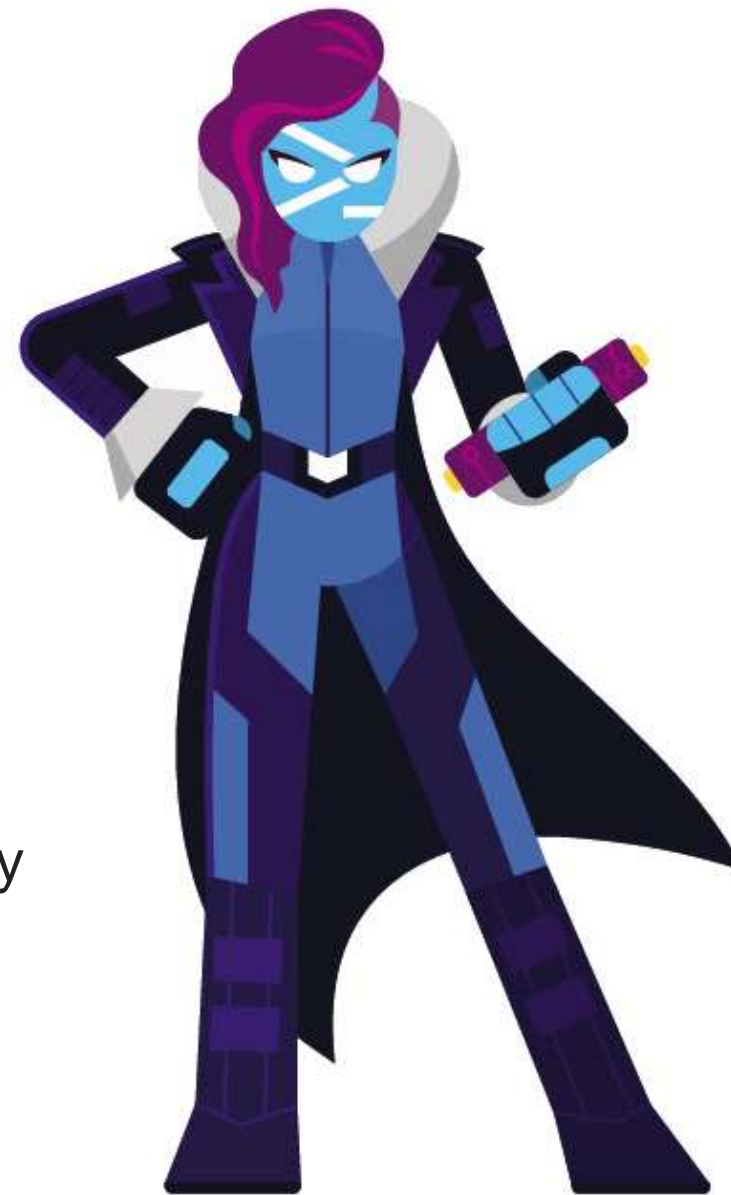
Active Directory management is full of repetitive tasks

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) forming abstract borders. Various white line-art icons are placed within these borders: a circuit board in the top-left, a power button in the top-right, a Wi-Fi signal in the middle-right, and three server racks in the bottom-right. At the bottom center, the "SPICEWORLD 2020 VIRTUAL" logo is displayed.

To the console...

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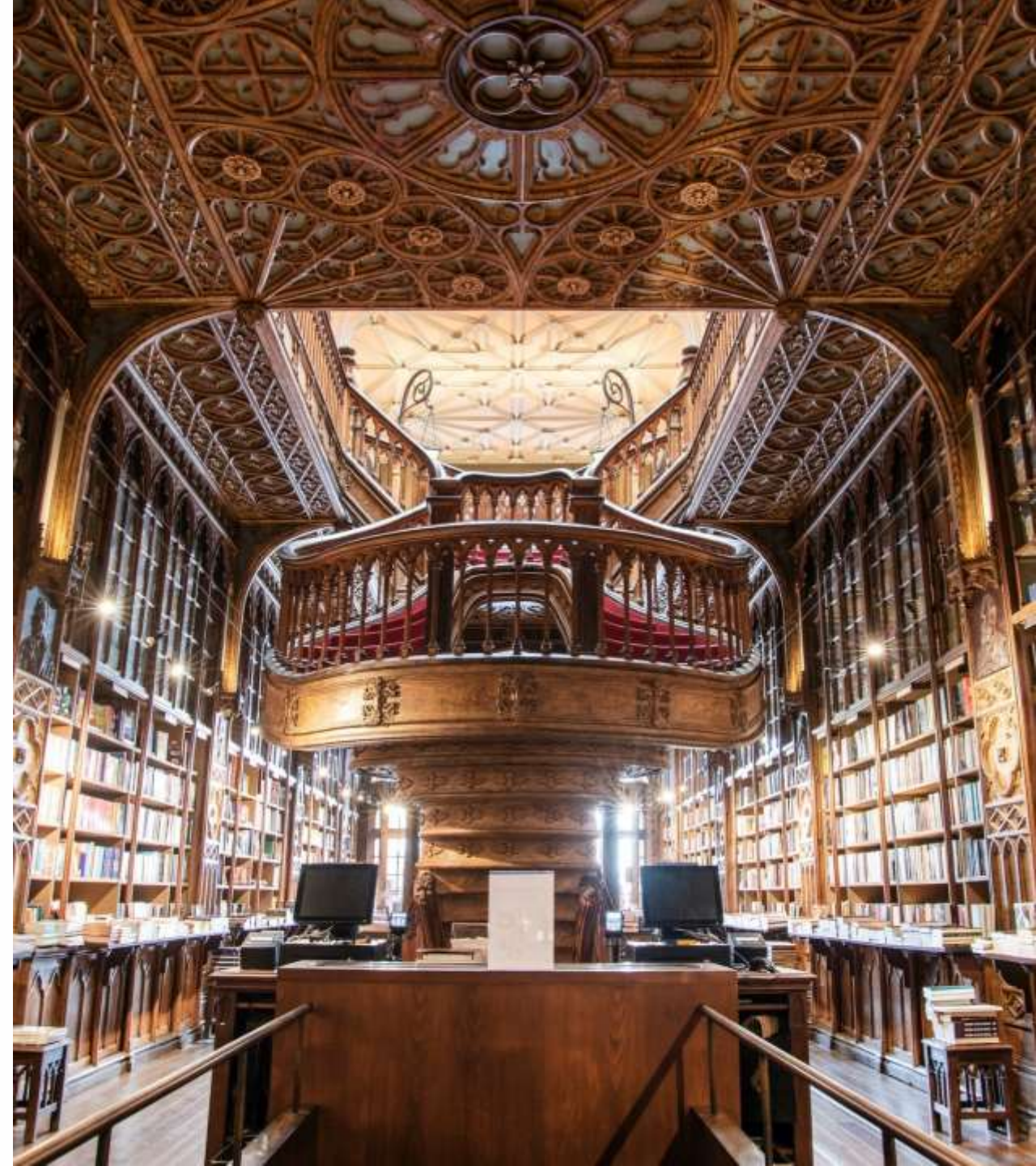
Resources

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

<https://jdhitsolutions.com>

[Pluralsight.com](https://www.pluralsight.com)

<https://leanpub.com/powershell-scripting-toolmaking>





Thank you.

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