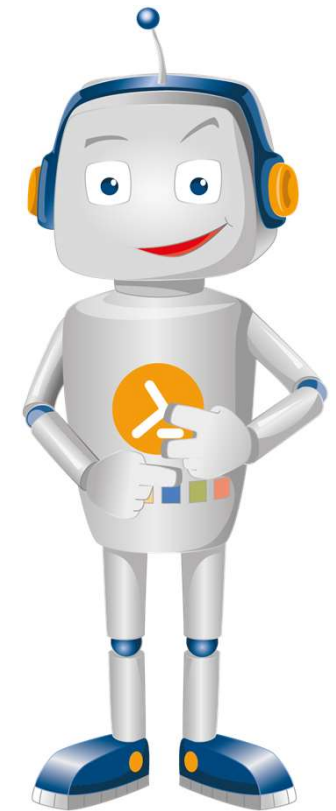


Manage Microsoft Teams with PowerShell and save time

Automate. Delegate. Relax.

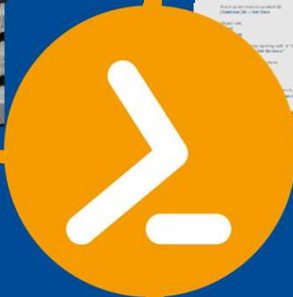
Heiko Brenn  @heikobrenn

www.scriptrunner.com





Automate. Delegate. Relax.



 **ScriptRunner®**
The #1 for PowerShell Management

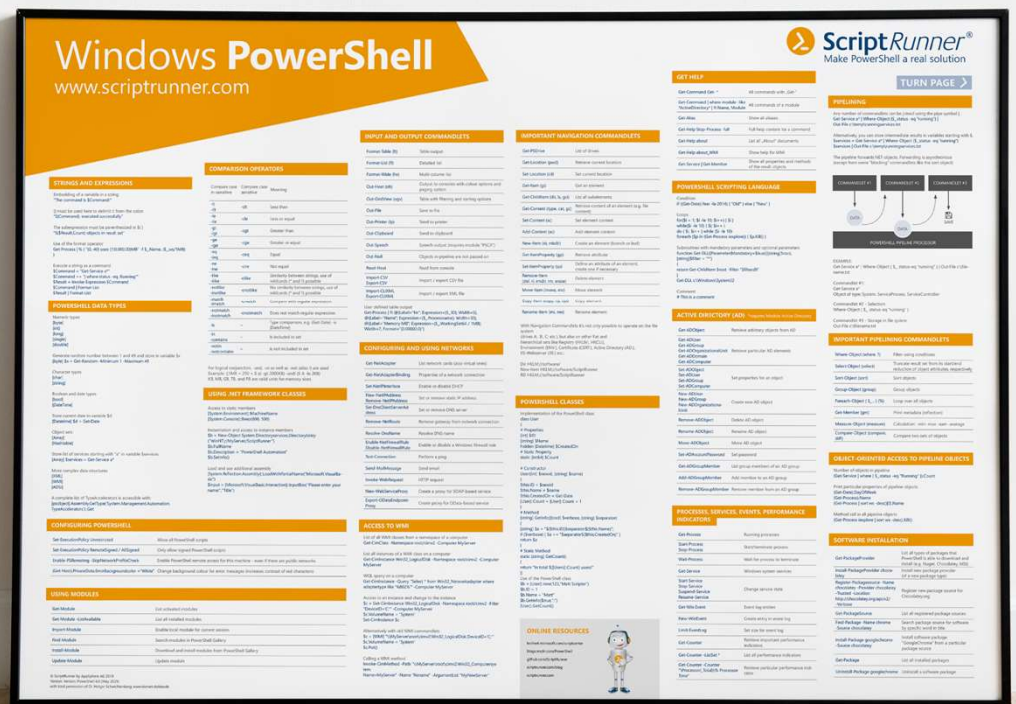
 [linkedin.com/in/HeikoBrenn](https://www.linkedin.com/in/HeikoBrenn)
 +49-162-4879156
 github.com/HeikoBrenn
 heiko.brenn@scriptrunner.com

Manage Microsoft Teams with PowerShell and save time

ScriptRunner Automation Lounge
16:00 deutsch | 18:00 english



lp.scriptrunner.com/en/powershell-poster



We are looking for
three lucky winners

lp.scriptrunner.com/en/teamscommunityday



Winners Draw:
During my session
starting at 18:00
ScriptRunner
Automation Lounge



Agenda

A close-up photograph of an orange tabby cat lying on a silver laptop. The cat's head is resting on the keyboard, and its eyes are partially closed. The background is blurred, showing a desk and some papers.

Microsoft Teams
administration
with PowerShell

Automate & Delegate
with PowerShell plus
ScriptRunner

Why automate?

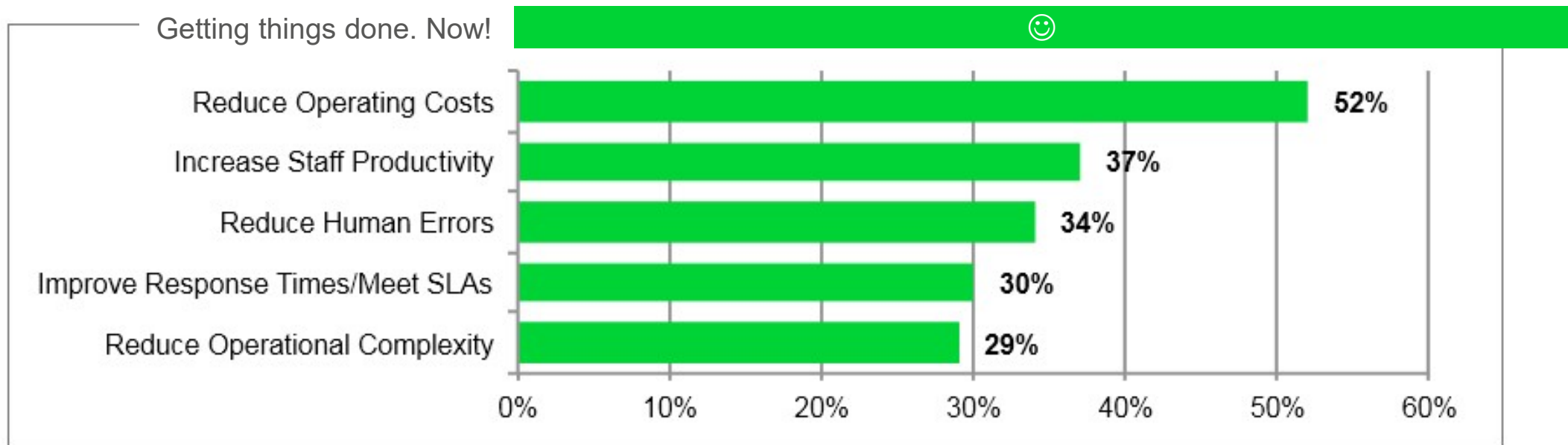


Figure 1 – Top business drivers for service automation

Teams PowerShell Module



Provisioning & management
of Teams/Channels/etc.

First version: 0.9.3 November 2017
Latest release: 1.1.4 April 2020

Number of cmdlets: 30

ObjectIDs or GUIDs to identify teams
and Office 365 groups

Webhooks and PowerShell



Typical Use Cases

Create/Delete Teams/Channels

Add/Remove Users to/from
Teams/Channels

Manage Teams Settings

Get Current Teams/Channel Settings

Send Messages to Channels



Cheat Sheet for Microsoft Teams PowerShell Module



Created by Damian Scoles

www.practicalpowershell.com

twitter.com/PPowerShell

PowerShell Quick Reference for Microsoft Teams [Ver. 1.0.5]

Install Module (PS 5+) Install-Module MicrosoftTeams -Repository PSGallery Load Teams PS Module Import-Module MicrosoftTeams -MinimumVersion 1.0.4 Connect to Microsoft Teams with PowerShell Connect-MicrosoftTeams List all Commands for Teams Get-Command Where {\$_.Source -eq "MicrosoftTeams"}	List All Teams Get-Team Find Single Team Get-Team where {\$_.DisplayName -eq 'IT Department'} Create Team New-Team -MailNickName 'Marketing' -DisplayName 'Marketing' -Visibility 'Private' Remove a Team Remove-Team -GroupId '503b7c56-b15d-4b4c-8cca-09103984b2bb' Modify a Team Set-Team -GroupId '7a4fab2f-6a22-46d0-826b-a167fdc03892' -Visibility 'Public'	Complete Cmdlet List Add-TeamUser Connect-MicrosoftTeams Disconnect-MicrosoftTeams Get-CsPolicyPackage Get-CsUserPolicyPackage Get-CsUserPolicyPackageRecommendation Get-Team Get-TeamChannel Get-TeamHelp Get-TeamsApp Get-TeamUser Grant-CsUserPolicyPackage New-Team New-TeamChannel New-TeamsApp Remove-Team Remove-TeamChannel Remove-TeamsApp Remove-TeamUser Set-Team Set-TeamArchivedState Set-TeamChannel Set-TeamsApp
Get-Help Get-Help <command> Get-Help <command> -Examples Get-Help <command> -Full Examples Get-Help New-Team Get-Help New-Team -Examples Get-Help New-Team -Full	Create New Microsoft Team New-Team -DisplayName "Marketing Campaign – Big Corp, Inc." New-Team -DisplayName "Project Rebuild" -Description "First project of 2020 (HR)" New-Team -DisplayName "New Test Group" -ShowInTeamsSearchAndSuggestions \$False Creating New TeamChannel (**) New-TeamChannel -GroupId 933fe926-555a-4832-87d1-8f700736e003 -DisplayName "Campaign Channel" New-TeamChannel -GroupId cfd8a387-1319-4f6b-a883-8700046f07e7 -DisplayName "Internal Sales" ** Groupid is from the ID of an existing Team. To see the ID's, run Get-Team	
PowerShell Gallery: https://www.powershellgallery.com/packages/MicrosoftTeams/ Documentation: https://docs.microsoft.com/en-us/powershell/module/teams/		
Configuring Team Settings		
Configuring Team Settings (notice the consolidation to the Set-Team cmdlet ... changed from 0.9.4 Beta) Set-Team -GroupId d36f235f-d30e-4460-98a2-5728b906fbfd -GiphyContentRating Strict -AllowStickersAndMemes \$False -AllowCustomMemes \$False Set-Team -GroupId cfd8a387-1319-4f6b-a883-8700046f07e7 -AllowCreateUpdateChannels \$True Set-Team -GroupId cfd8a387-1319-4f6b-a883-8700046f07e7 -AllowUserDeleteMessages \$False Set-Team -GroupId cfd8a387-1319-4f6b-a883-8700046f07e7 -ShowInTeamsSearchAndSuggestions \$False Set-TeamChannel -GroupId cfd8a387-1319-4f6b-a883-8700046f07e7 -CurrentDisplayName "Internal Sales" -Description "Sales Channel"		
Verify Settings Get-Team Get-TeamChannel Get-TeamsApp Get-TeamUser ** Use ' ft' or ' ff' to format your results. **	Microsoft Teams Cleanup Remove-Team -GroupId '933fe926-555a-4832-87d1-8f700736e003' Remove-TeamChannel -GroupId cfd8a387-1319-4f6b-a883-8700046f07e7 -DisplayName "Internal Sales" Remove-TeamUser -GroupId '933fe926-555a-4832-87d1-8f700736e003' -User <UPN>	Cmdlet Notes Get-Team has no 'GroupId' parameter. In order to get an individual group, use something like this: Get-Team Where {\$_.GroupId -eq '933fe926-555a-4832-87d1-8f700736e003'}

Demo

PowerShell in Action



Challenges for IT Pros

PowerShell is a tool for IT experts only

How to delegate tasks to service desk or end users?

No centralized & secure PowerShell management

Many recurring tasks still have to be taken over by IT Pros

Drown in daily business



Centralizing PowerShell is key



Standardization



Collaboration



Supervision



Security



Delegation



Automation

Achieve More With PowerShell In 5 Steps



Centralize your PowerShell scripts and PowerShell modules



Manage credentials & permissions securely



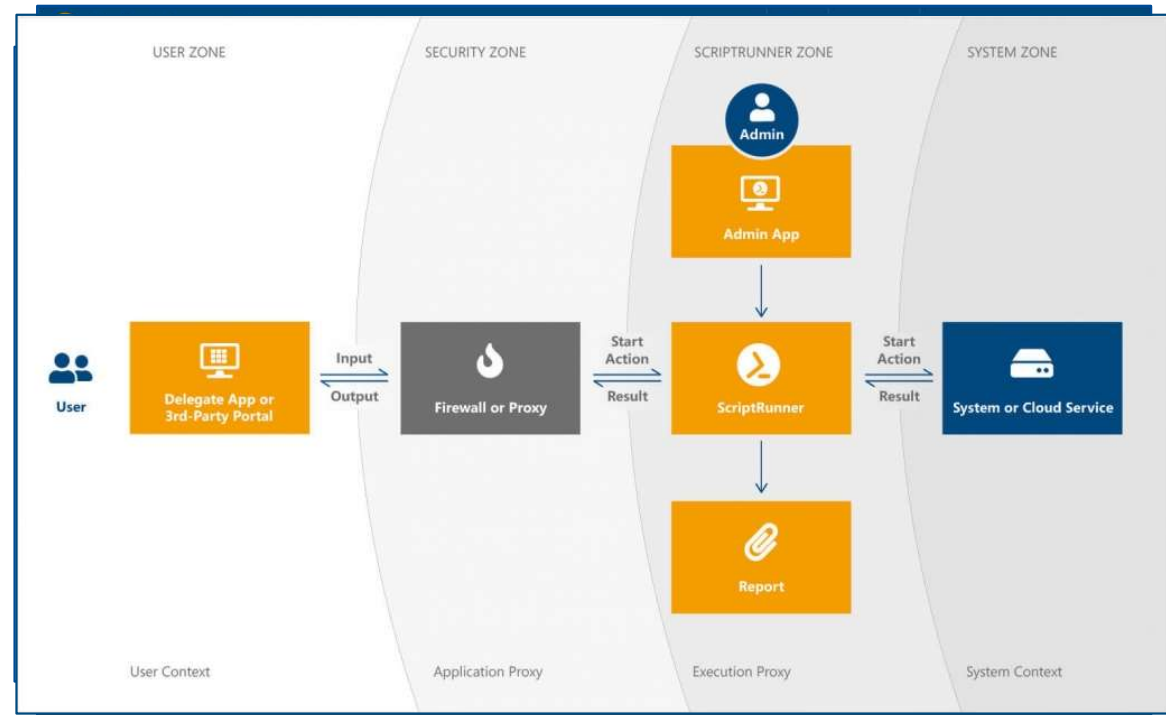
Automatically transform PowerShell scripts into Web GUIs



Delegate recurring tasks to help desk and end users



Integrate with ITSM, Monitoring & Workflow systems and more





Manually

Users execute tasks in web browser



Scheduled

Time-controlled tasks



Automatically

Event triggered by 3rd party systems

Windows PowerShell & PowerShell 7 with ScriptRunner

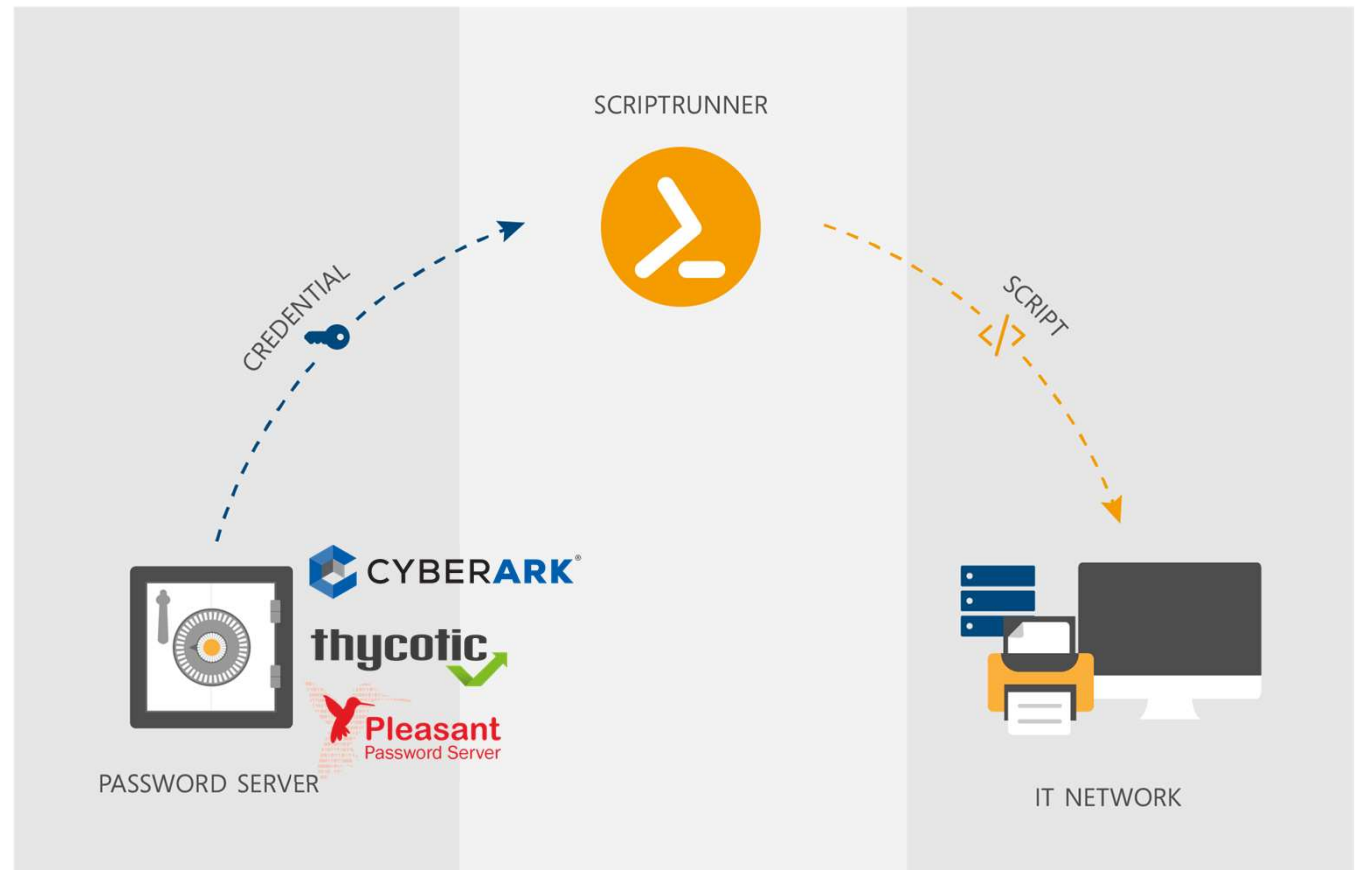


ScriptRunner®		
Windows PowerShell 2006 - today	PowerShell 7 2016 - today	
.NET Framework	.NET Core	
Windows	Linux	macOS

Password Server Support



- Centralized password safes
 - CyberArk Password Vault
 - Pleasant Password Server
 - Thycotic Secret Server
- No credentials are stored locally
- Automatic password rotation
- Easy one secure password repository for multiple ScriptRunner servers

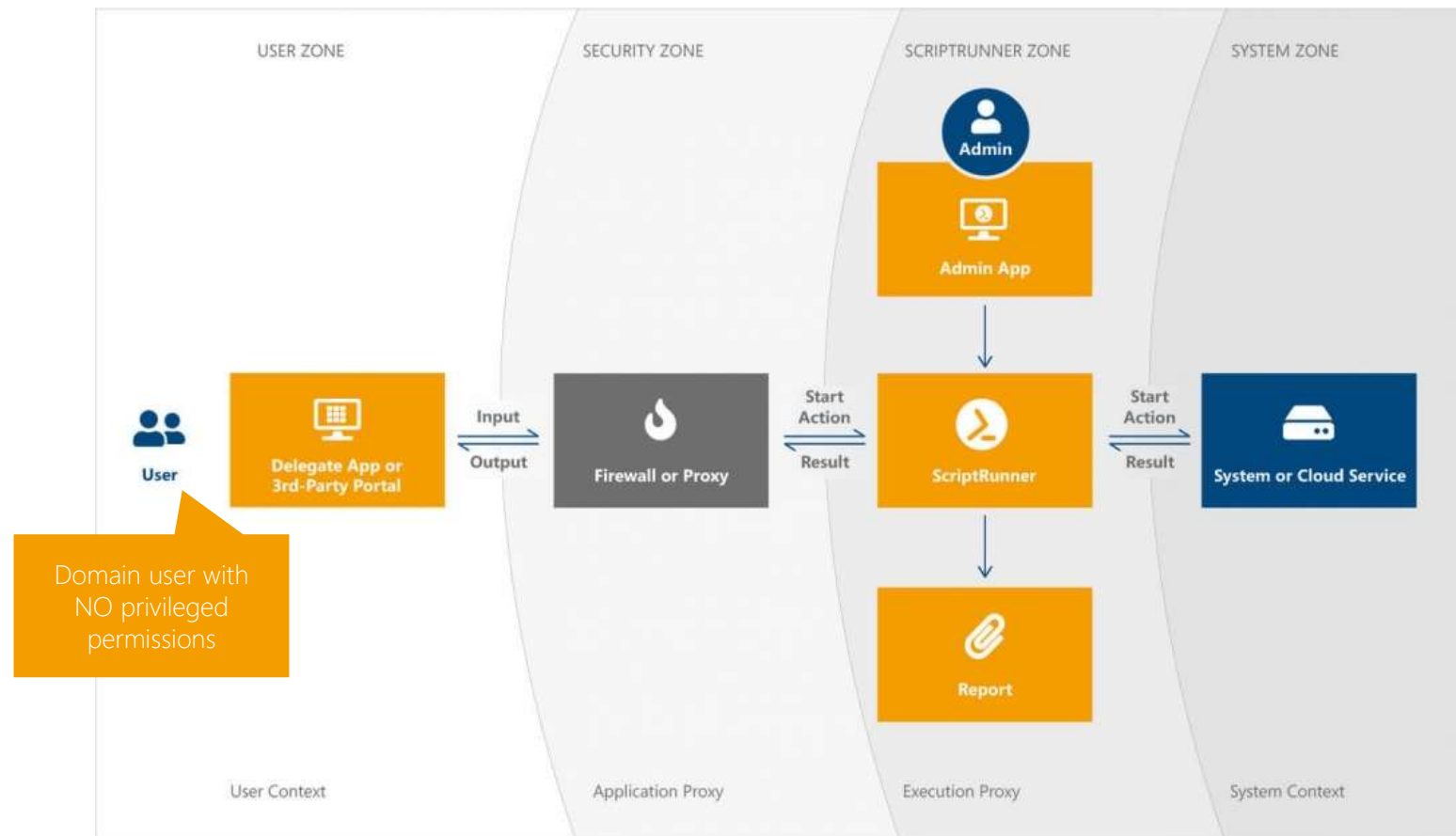


Demo

ScriptRunner in Action



ScriptRunner – Secure Delegation



<https://www.scriptrunner.com/de/software/system/>

ScriptRunner test report fom a Microsoft MVP



Adam Bertram aka Adam The Automator
Microsoft MVP Cloud and Datacenter Management

"ScriptRunner is a master of organizing, categorizing and delegating scripts."

"ScriptRunner is a real DevOps tool for PowerShell scripters."

"Compared to large automation platforms, ScriptRunner is significantly cheaper."

"to get the same functionality of ScriptRunner, it would require several applications to get a similar feature set."

"If you are looking into automating your administration and support processes easily and securely, you will find a powerful and professional tool here."

<https://www.adamtheautomator.com/scriptrunner-bringing-powershell-to-devops/>

ScriptRunner – Practical Examples and Use Cases



Develop scripts in a team and organize them centrally



Standardize administrative team activities



Manage user accounts and groups quickly and easily



Reset password, unlock user, (de)activate accounts



Automated user provisioning and deprovisioning



Exchange – Allow or block mobile access with Active Sync



Exchange – Smart management of Out of Office settings



Exchange – Manage mailboxes and distribution lists



Manage rights to files, directories and file and printer sharing



Print Management – Manage print servers, printers and print jobs



Manage Azure AD and Office 365 easily and securely



Delegate software provisioning and offer it as self-service

<https://www.scriptrunner.com/en/use-cases/>

ScriptRunner – Make PowerShell A Real Solution



Admin



DevOps



Developer



Help Desk



End User



ORACLE



aws



ScriptRunner – The components



ScriptDeveloper



DevOps Plugin

SysAdmin



AdminApp

ServiceDesk



DelegateApp

EndUser



SelfServiceApp

Ready-made Scripts



ActionPacks

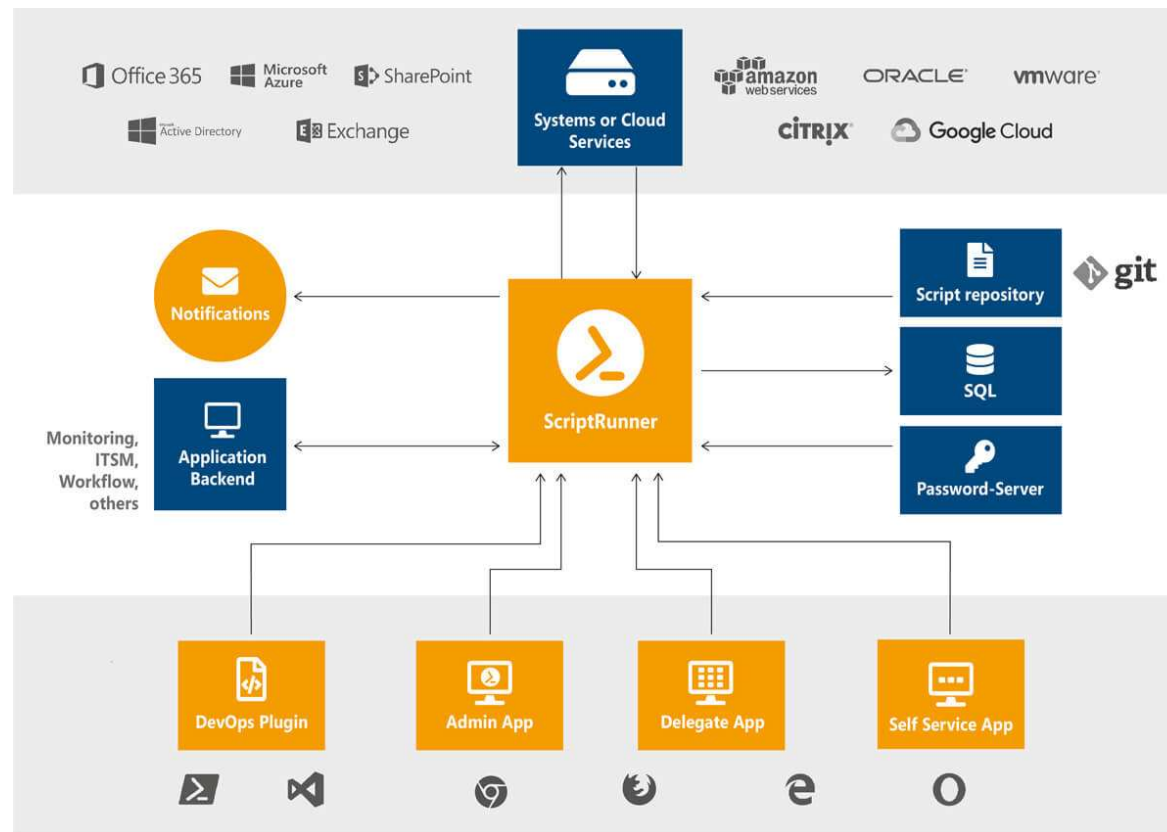
Integration



Connectors



ScriptRunner – How the components play together

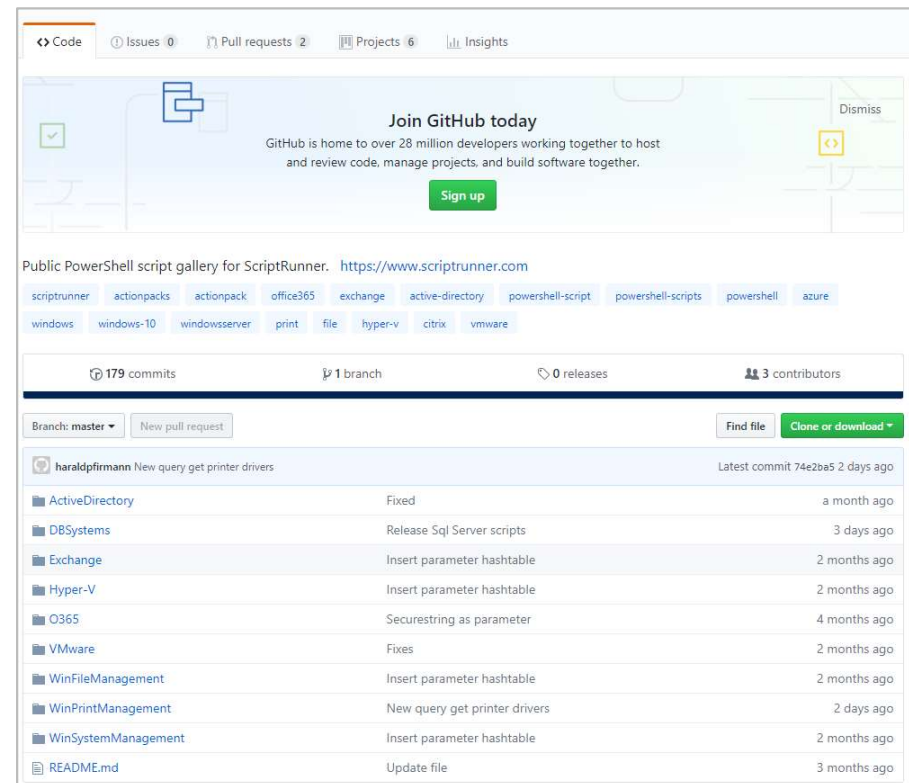


<https://www.scriptrunner.com/en/software/system/>

Ready-made Scripts – ActionPacks









- Easy implementation of many use cases
- Out of the box scripts for
 - Active Directory
 - Office 365
 - Exchange
 - VMWare
 - Hyper-V
 - Citrix
 - File-/PrintServer
- Scripts and templates for partner products
 - Paessler PRTG
 - Matrix42
 - Nagios
 - Automic ONE
- More informationen
 - <https://github.com/scriptrunner/ActionPacks>
 - <https://www.scriptrunner.com/en/software/script-sammlungen/>



ScriptRunner – Out-Of-Office example



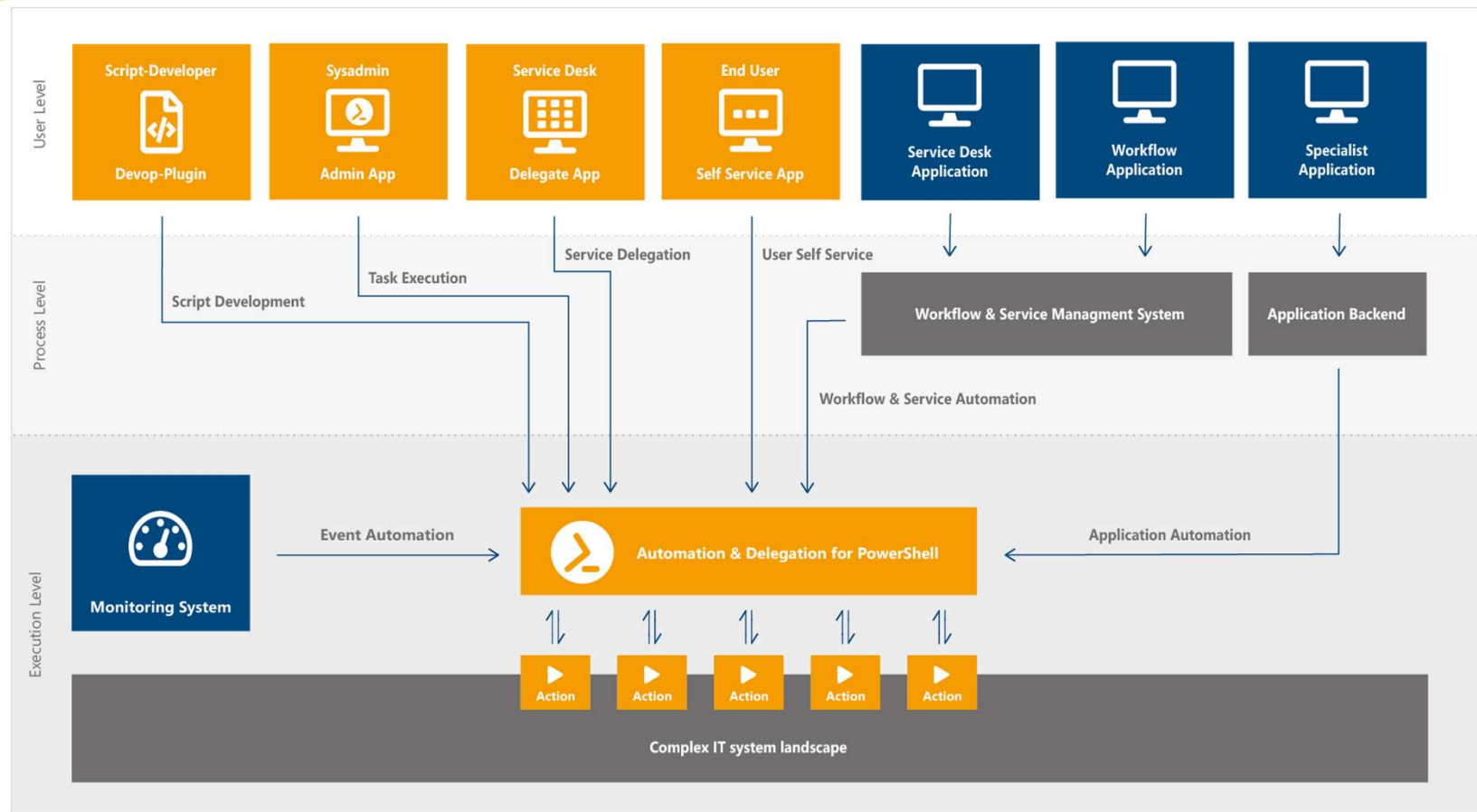
	Actions	Activate OutOfOffice
	Queries	Select mailbox(es)
	Targets	Exchange, Exchange Online
	Scripts	Set-OutOfOffice.ps1
	Credentials	Service account with necessary permissions
	Delegation	Help desk user, End user

Integration – Add new functions with connectors

- 3rd party systems automatically trigger ScriptRunner Actions
 - Monitoring Systems
 - IT Service Management
 - Business Workflow
 - Applications
- Password server integration
 - CyberArk
 - Pleasant
 - Thycotic
- More information
 - <https://www.scriptrunner.com/en/software/automation-connector/>

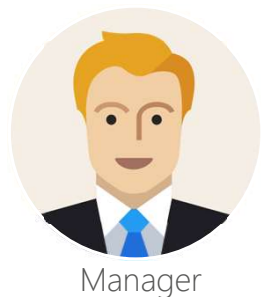


ScriptRunner – The Full Picture



<https://www.scriptrunner.com/en/software/system/>

ScriptRunner: One Solution – Many Benefits



Manager

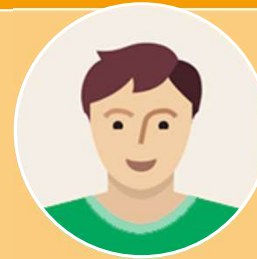
My teams
become
more
productive

Deliver great scripts in
a secure environment



DevOps

Delegate recurring
tasks and save time



Administrator

Deliver more & better
services in less time



HelpDesk

Develop scripts for
more use cases/users



Developer



EndUser

Faster task completion
with self-services



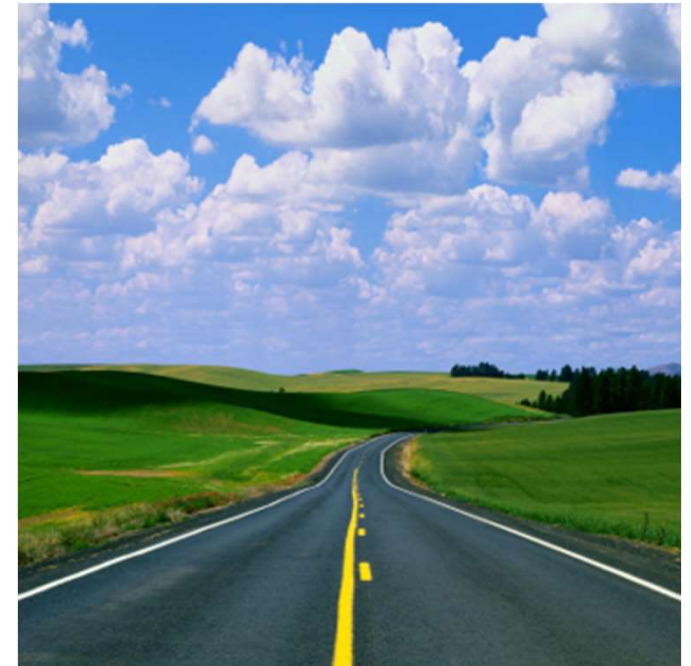
Next Steps

Read the LinkedIn article „2020 – Finally the year of IT automation?“ <https://bit.ly/2NNkc88>

Start testing ScriptRunner:
lp.scriptrunner.com/en/demo-download

Book a online demo session with me:
lp.scriptrunner.com/meetings/heiko-brenn/demo-en

Start using hundreds of ready-made PowerShell scripts: <https://github.com/scriptrunner/ActionPacks>





Webinar of the month September


Manage Microsoft Teams with PowerShell to save time

Administrators can use the PowerShell module for Microsoft Teams to automate recurring administrative tasks.

In this webinar, we will demonstrate the capabilities of the Microsoft Team PowerShell module.

You will also learn how non-PowerShell experts can use these features safely and effectively.

Register now for the webinar on Wednesday, September 23 16:00-16:45 (CET) | 10:00-10:45 am (EST)

 **Register now!**

<https://www.scriptrunner.com/en/webinars/>

Thank you.

www.scriptrunner.com

ScriptRunner – The #1 for PowerShell Management.



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