

# Make PowerShell a real solution in 5 steps

Automate. Delegate. Relax.

Heiko Brenn | ScriptRunner Software GmbH

[www.scriptrunner.com](http://www.scriptrunner.com)





We ❤ PowerShell

We believe, we can help you  
achieve more with PowerShell.



 **ScriptRunner®**  
Make PowerShell a real solution



# Short profile Heiko Brenn



- Head of International Business
- IT, software and software products for more than 25 years
- Many years of experience as
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  - Consultant
  - Product Manager
- Responsible for the international product business
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  - Consulting
  - Partner management
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  - Twitter: [twitter.com/heikobrenn](http://twitter.com/heikobrenn)
  - GitHub: [github.com/HeikoBrenn](http://github.com/HeikoBrenn)

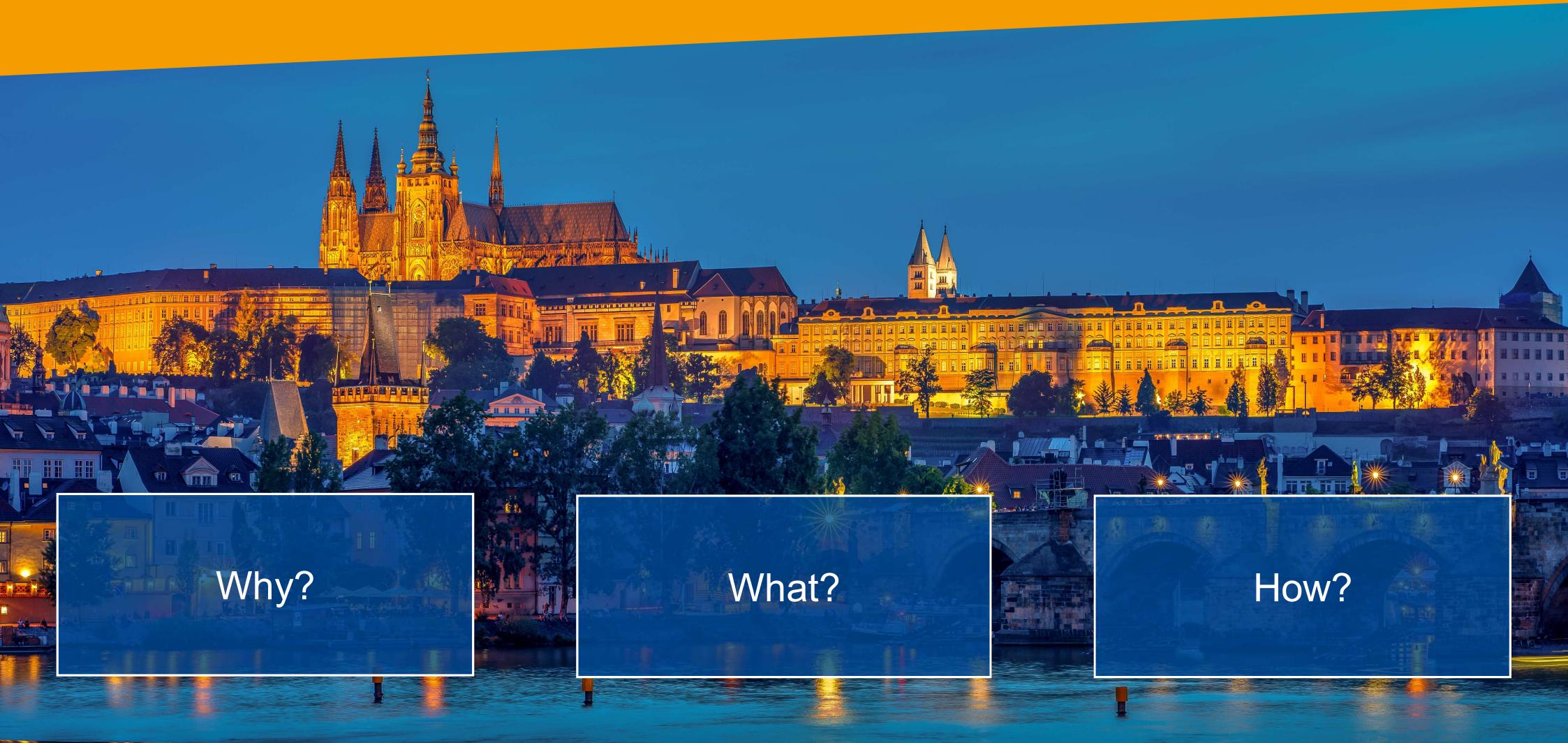


Win a  
ScriptRunner  
headphone

<https://lp.scriptrunner.com/expertslive2019>



# How to make PowerShell a real solution in 5 steps



# Why?



# Automation is important

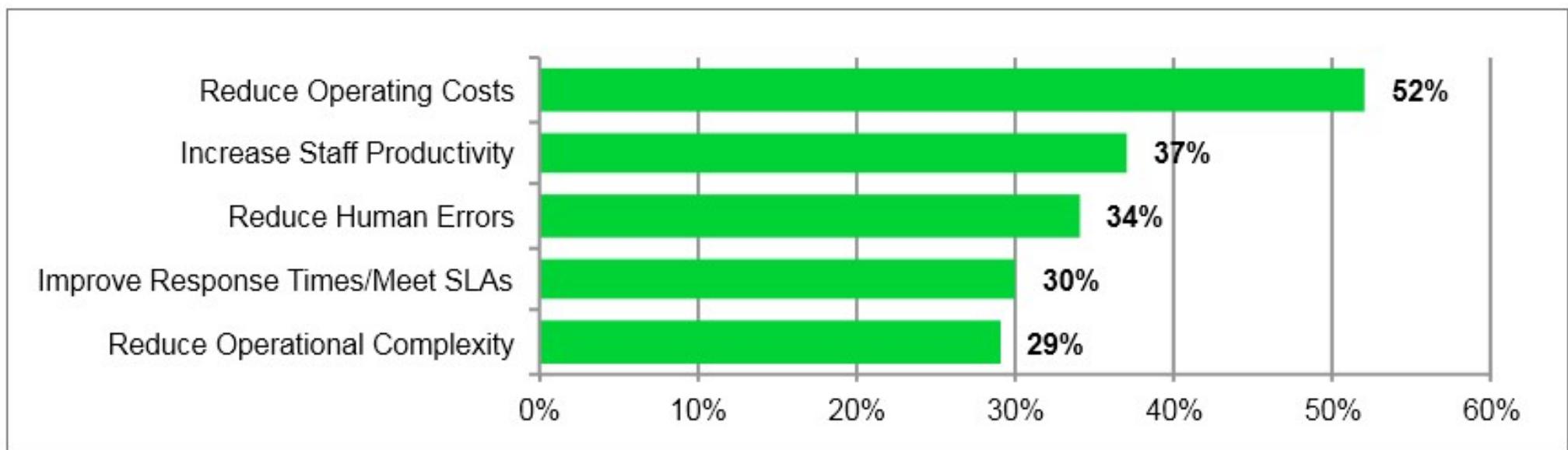


Figure 1 – Top business drivers for service automation

Quelle: EME Research Report – Data Center Automation in the Age of Cloud

# Today's PowerShell Challenges

Many different variants of scripts  
for same use case

Hard coded directory-,  
file- or share-names in scripts

Scripts are stored in  
many different places

„I have to install and maintain  
the PowerShell modules on  
too many machines“

„Who has the latest version of  
the script?“

„Who has made the last changes  
to the script?“

„Who ran the script to spin  
up a new VM?“



No centralized reporting

„I would like to delegate recurring  
tasks to the service desk team, but  
I can't give them admin  
permissions“

„When did the script to  
delete logfiles on our servers  
ran the last time?“

Credentials must be available  
in different locations for  
multiple users/scripts

„I can't delegate PowerShell scripts  
because I'm the only one who  
knows how to use PowerShell“

No secure & easy way for delegation

# Four interesting questions

- 1. Does a task repeat itself? If so, how often?



- 2. How long does it take to complete this task?



- 3. How much does it cost to complete the task once?



- 4. Is the task prone to human error?



What?



# What is ScriptRunner?



VS



# Six reasons for centralizing PowerShell



Standardization



Collaboration



Control



Security



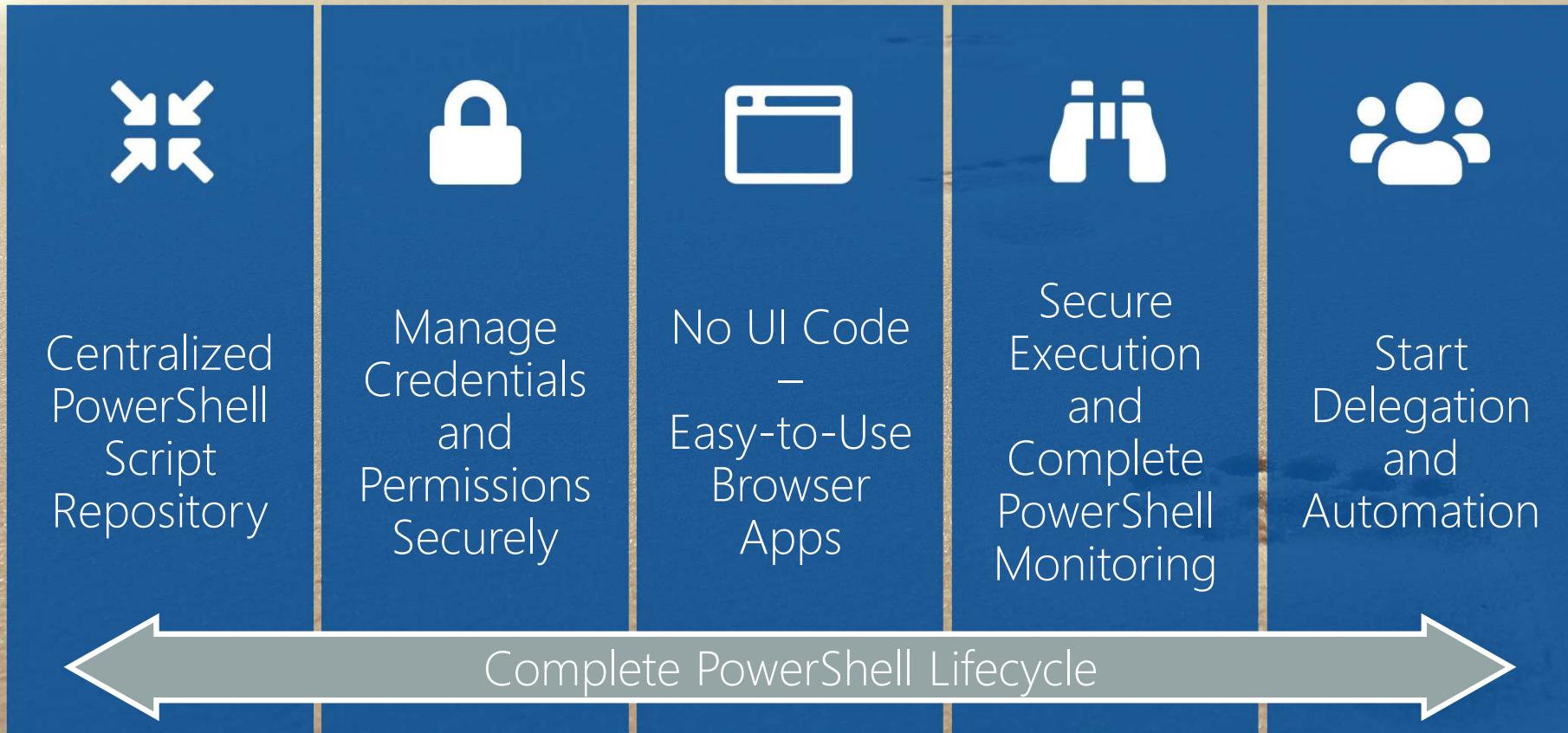
Delegation



Automation



# Make PowerShell A Real Solution In 5 Steps



# ScriptRunner – How to run scripts



Manually

Users execute tasks in web browser



Scheduled

Time-controlled tasks



Automatically

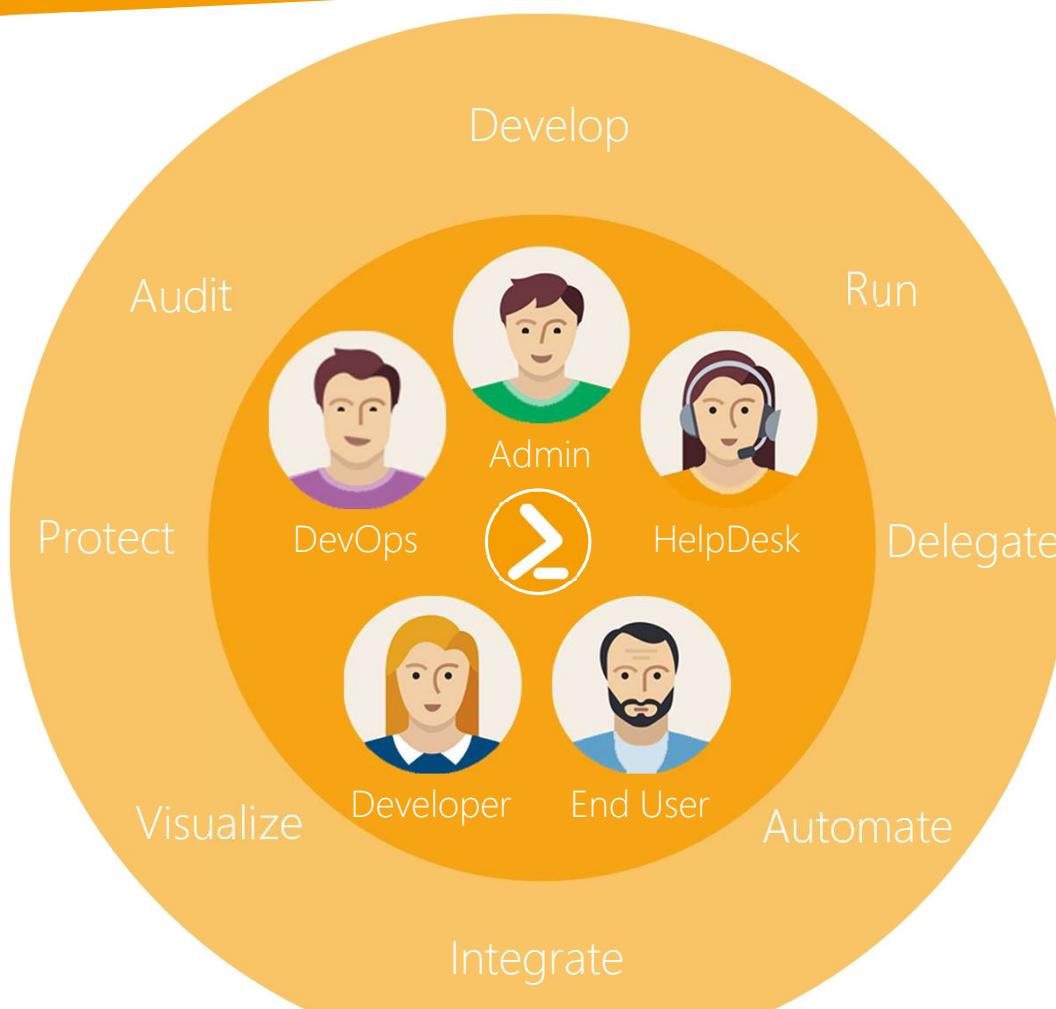
Triggered by 3rd party systems

# ScriptRunner Demo

Our Solution In Action



# ScriptRunner – Your Smart PowerShell Control Center



# 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



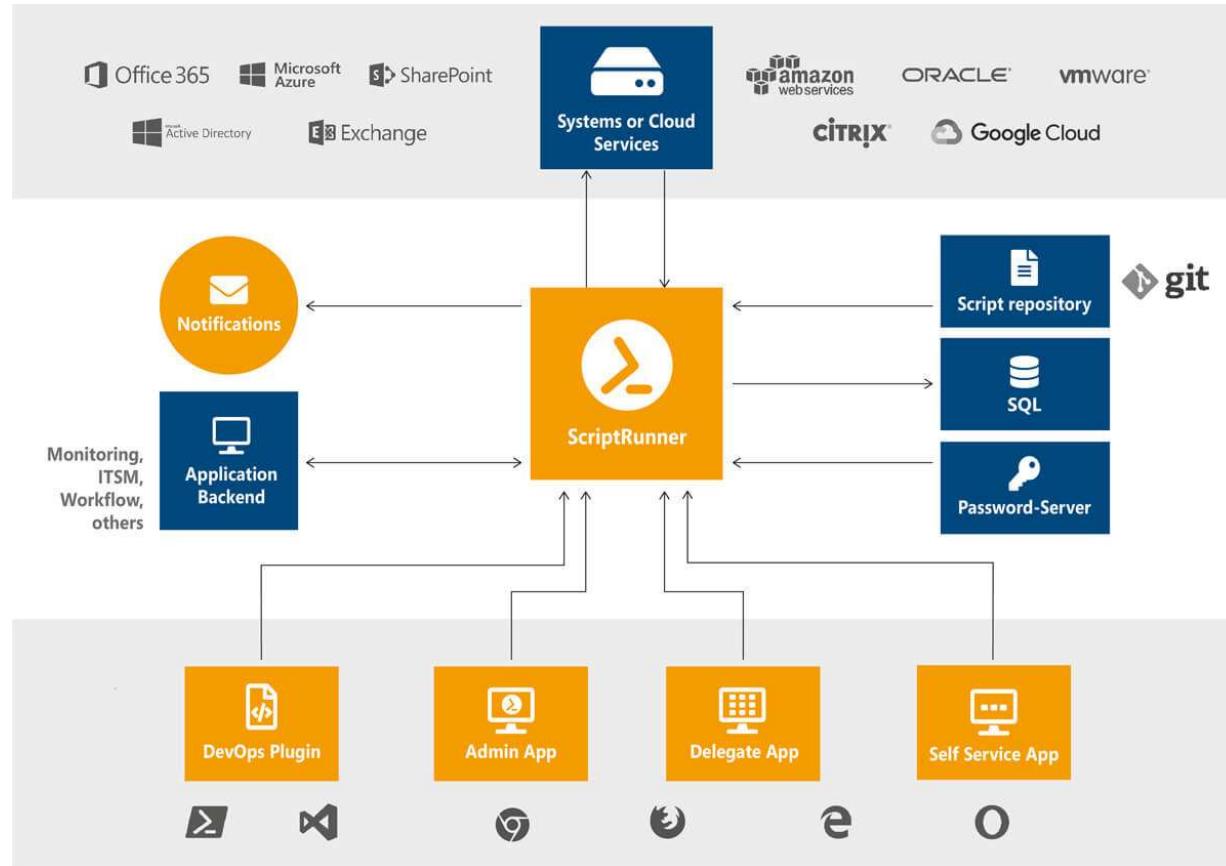
Delegate software provisioning and offer it as self-service

<https://www.scriptrunner.com/en/practical-examples/>

# ScriptRunner – Make PowerShell A Real Solution



# ScriptRunner – How the components play together



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

# ScriptRunner – Secure Delegation



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

# ScriptRunner – The components



ScriptDeveloper



DevOps Plugin

SysAdmin



AdminApp

ServiceDesk



DelegateApp

EndUser



SelfServiceApp

Ready-made Scripts



ActionPacks

Integration



Connectors



# ScriptDeveloper – DevOps Plugin



- ISE Plugin
- Team-based script development
- Central script repository
- Filters
- Check-in with history
- Check-out
- GitHub integration
- TFS integration
- More information
  - <https://www.scriptrunner.com/en/software/scripts/>

The screenshot shows the ScriptRunner DevOps Plugin integrated into a Windows environment. On the left, a PowerShell ISE window displays a script named '\_UPLOAD\_StartServiceChoice.ps1'. The script content is as follows:

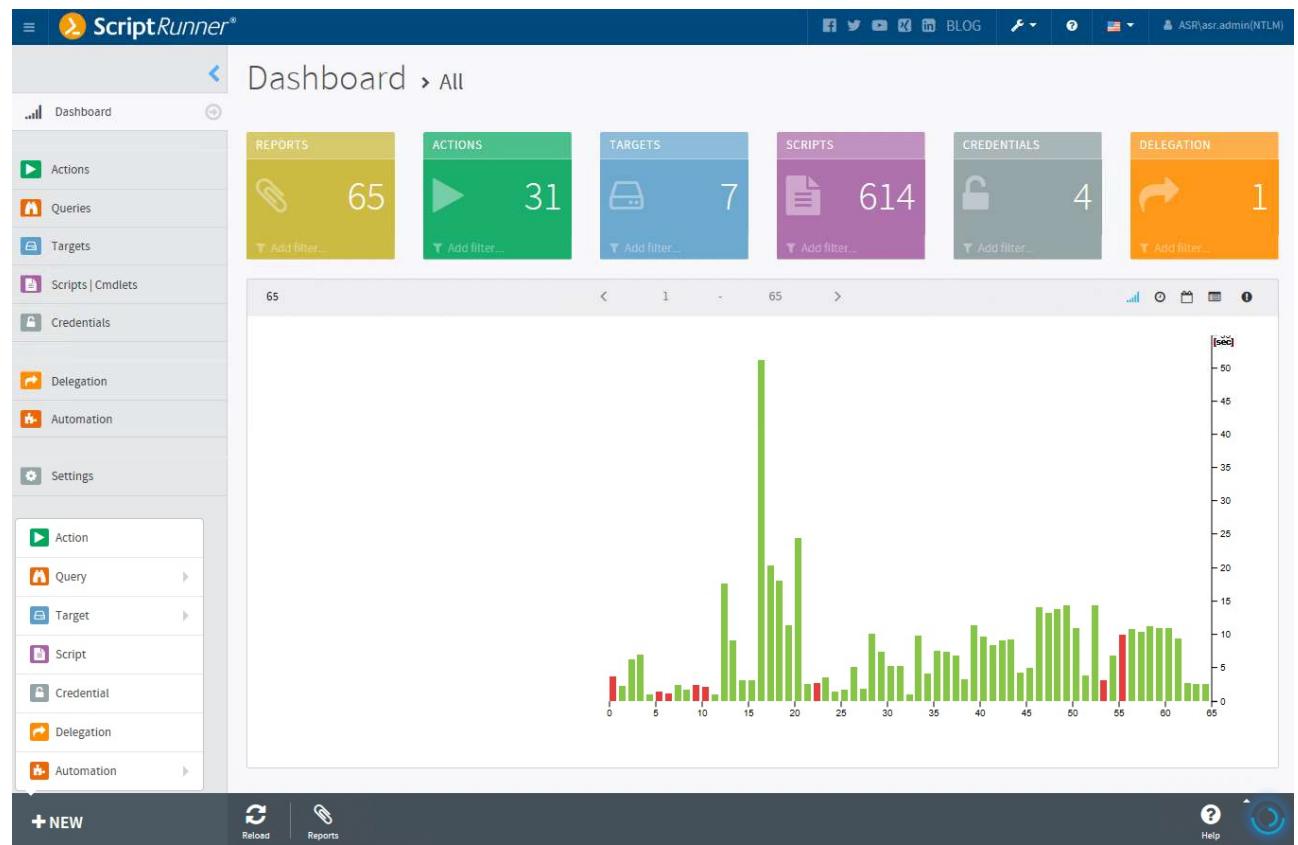
```
1 #ASR Parameter:ServiceDisplayName Type:Choice(ServicesList)
2
3 <#
4   .SYNOPSIS
5   Start a Windows service from the list.
6
7   .PARAMETER ServiceDisplayName
8   The DisplayName of the service to start.
9 #>
10
11 Param (
12   [Parameter(Mandatory=$true)]
13   [string]$ServiceDisplayName
14 )
15
16 $name = $ServiceDisplayName.Substring(2)
17 Write-Host "Starting Windows service '$name'..."
18 Start-Service -DisplayName $name -PassThru
19
```

On the right, a central repository pane titled 'ScriptRunner' lists various PowerShell scripts. The script '\_UPLOAD\_StartServiceChoice.ps1' is highlighted in yellow, indicating it is currently open or selected. Other listed scripts include CallASRWebSvcConnector.ps1, dbecho.ps1, DiskInfo.ps1, GetProcess.ps1, GetServiceChoice.ps1, GetSID.ps1, InputValidation.ps1, Order-Base.ps1, Order-BaseOffline.ps1, Order-MailConnect.ps1, Order-Maintenance.ps1, Order-MaintenanceOffline.ps1, Order-SQLConnect.ps1, Order-WebSvcConnect.ps1, StartServiceChoice.ps1 (which is also highlighted), StopServiceChoice.ps1, Sum2Values.ps1, VB\_HelloWorld.vbs, VB\_Sysinfo.vbs, and WhoAmI.ps1.

# SysAdmin – Admin App



- A web GUI for PowerShell
- Dashboard for all activities
- Create ScriptRunner actions
- Manage and test queries
- Target configuration
  - Direct local
  - PowerShell remoting
  - Implicit remoting
- Secure delegation of ScriptRunner actions
- Scheduled script execution
- Secure credential handling
- Configure automation connectors
- Organizing by tags
- Reports and Logging
- More information
  - <https://www.scriptrunner.com/en/software/web-apps>



# ServiceDesk – DelegateApp



- A web GUI for PowerShell
- Execute PowerShell scripts in the browser
- Delegate specific ScriptRunner actions to team members, helpdesk or endusers
- No administrative permissions for users required
- Parameters for script execution can be hidden
- Input dialogs are automatically created from PowerShell script
- Script execution logging and reporting
- More information
  - <https://www.scriptrunner.com/en/software/web-apps>

A screenshot of the ScriptRunner DelegateApp interface. The top navigation bar includes tabs for Favorites, All, ActionPacks, ActiveDirectory, BitLocker, Common, and Computers. On the right side, there are buttons for adding a new action (+), creating a new pack (grid icon), and a search bar labeled 'Search...'. Below the navigation is a grid of 16 colored cards, each representing a different PowerShell action. The actions are: Add-MsUsersToRoles (blue), Add-PrtMPrinterConnection (green), Clear-SysMEventLog (grey), Copy-ADUser (orange), dbgecho (yellow-green), Disk Info (green), Enable-SysMBitLocker (dark blue), Enable-SysMLocalUser (orange), Format-FillVolume (purple), Get-ADComputersWithDefinedStatus (dark blue), Get-ADUserProperties (orange), Get-ExMailboxProperties (dark blue), Get-SnapshotPropertiesFromHyperV (orange), Get-SnapshotPropertiesFromVMware (dark blue), Invoke-GitSync (green), and Local: Add two values (purple). Each card has a star icon and a small edit icon in the bottom right corner.

# 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/>

Author	Commit Message	Time Ago
haraldpfirrmann	New query get printer drivers	Latest commit 74e2ba5 2 days ago
ActiveDirectory	Fixed	a month ago
DBSystems	Release Sql Server scripts	3 days ago
Exchange	Insert parameter hashtable	2 months ago
Hyper-V	Insert parameter hashtable	2 months ago
Q365	Securestring as parameter	4 months ago
VMware	Fixes	2 months ago
WinFileManagement	Insert parameter hashtable	2 months ago
WinPrintManagement	New query get printer drivers	2 days ago
WinSystemManagement	Insert parameter hashtable	2 months ago
README.md	Update file	3 months ago

# 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	Helpdesk user, End user

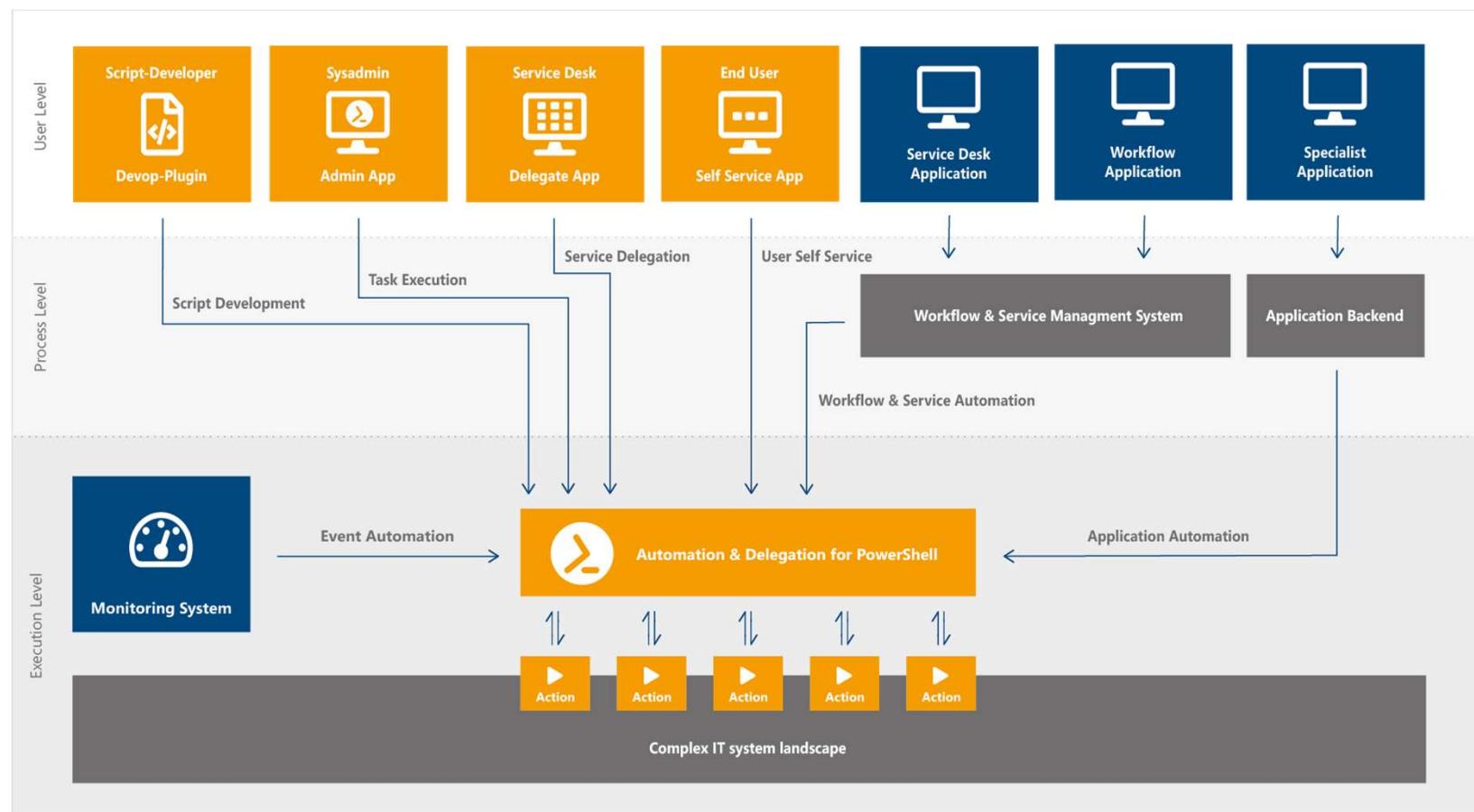
# Integration – Add new functions with connectors



- 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/>

Get your free PowerShell poster



<https://lp.scriptrunner.com/en/powershell-poster>

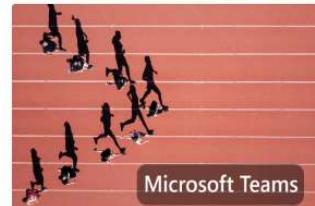
# Our PowerShell and ScriptRunner webinars



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Centralize PowerShell  
management easily and securely



[Go to recording](#)

Automation and delegation of  
Exchange/O365 with PowerShell



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

# 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."

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

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

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

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

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

# Use cases with and without ScriptRunner



Case	Done by Admin (2nd/3rd Level)	Delegated with ScriptRunner to ServiceDesk, TeamLead or EndUser
Creating an user in AD	5 min	1 min
Reset User Password	2 min	1 min
Change User Props	4 min	1 min
Change of permissions	5 min	1 min
Create Mailbox	4 min	1 min
Change Mailbox Props	5 min	1 min
Set Out-of-office	not available	1 min Service Desk or TeamLead
User Statistics	10 min	0 min Service Desk (automatically)
Mailbox Statistics	10 min	0 min Service Desk (automatically)

Most of the cases are already included in the ScriptRunner Action Packs. By using the Action Packs you avoid 50 up to 250 hours script development time.

# ScriptRunner: One Solution – Many Benefits



Manager  
Teams become more productive

Deliver great scripts in a secure environment



DevOps



Administrator

Delegate recurring tasks and save time



HelpDesk



Develop scripts for more use cases/users



Developer

Self Services to solve my problems quickly



EndUser

# Next Steps



Visit our booth, grab a PowerShell cheat sheet, stickers, popcorn and win a headphone

Start testing ScriptRunner:  
[lp.scriptrunner.com/en/demo-download](http://lp.scriptrunner.com/en/demo-download)

Book a online demo session with me:  
[lp.scriptrunner.com/meetings/heiko-brenn/demo-en](http://lp.scriptrunner.com/meetings/heiko-brenn/demo-en)

Download todays presentation at GitHub  
[github.com/HeikoBrenn/events](https://github.com/HeikoBrenn/events)







We ❤️ PowerShell

We believe, we can help you  
achieve more with PowerShell.



ScriptRunner®

Make PowerShell a real solution.

We ❤️ Partner



## Work with us to make PowerShell a real solution.

Are you already offering PowerShell services today and want to deliver more value to your customers? Then you are the right partner for us.

As a ScriptRunner Partner you will not only benefit from our leading all-in-one solution for PowerShell – you will also receive comprehensive support in addressing and implementing our solution.

We look forward to welcoming you as a ScriptRunner Partner.

### The partner models



#### ⚡ Solution Partner

- ✚ Your profile
- ✚ What we offer
- ✚ Your advantages



#### 🛍 Reseller & Distributor

- ✚ Your profile
- ✚ What we offer
- ✚ Your advantages



#### 💻 PowerShell Expert

- ✚ Your profile
- ✚ What we offer
- ✚ Your advantages



#### 🤝 User Group Organizer

- ✚ Your profile
- ✚ What we offer
- ✚ Your advantages



[scriptrunner.com/en/partner-program/](http://scriptrunner.com/en/partner-program/)



# Thank you.

[www.scriptrunner.com](http://www.scriptrunner.com)

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