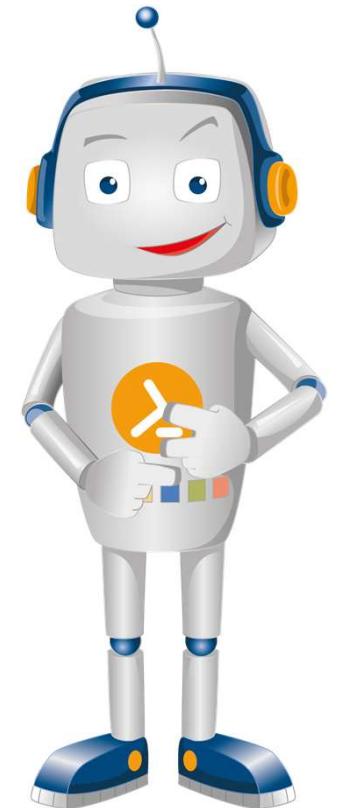
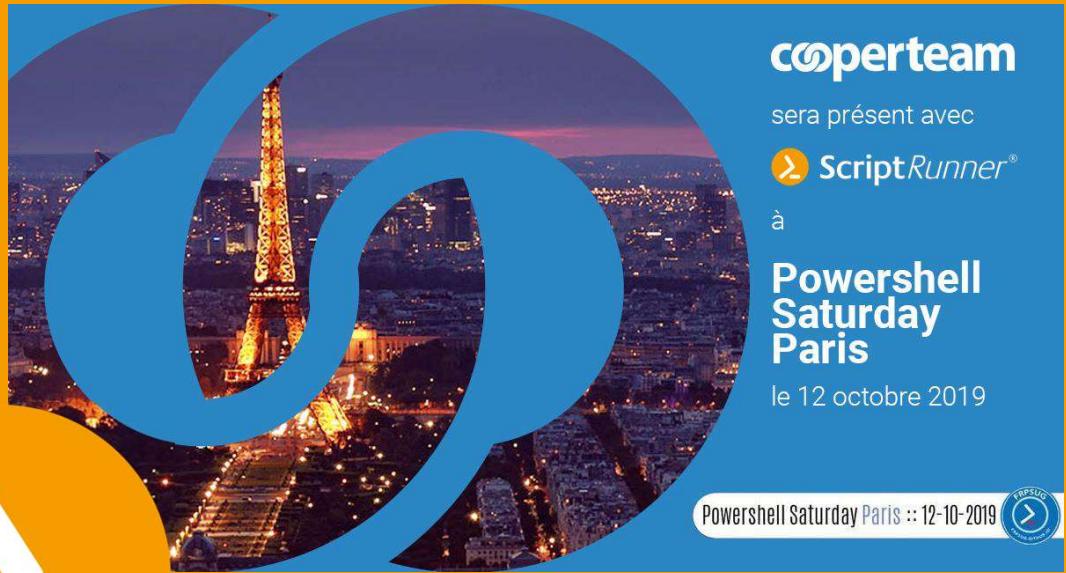


# How to make PowerShell a real solution in 5 steps

Make PowerShell a real solution. For you and your team.

Heiko Brenn | Head of International Business





# Short profile Heiko Brenn



- Head of International Business
- IT, software and software products for more than 25 years
- Many years of experience as
  - Administrator
  - Consultant
  - Product Manager
- Responsible for the international product business
  - Technical Sales
  - Consulting
  - Partner management
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  - XING: [www.xing.com/profile/heiko\\_brenn](http://www.xing.com/profile/heiko_brenn)

Win a  
ScriptRunner  
headphone

<https://lp.scriptrunner.com/pssat2019>



# How to make PowerShell a real solution in 5 steps



Why?

What?

How?

# Why ScriptRunner ?



# Automation is important

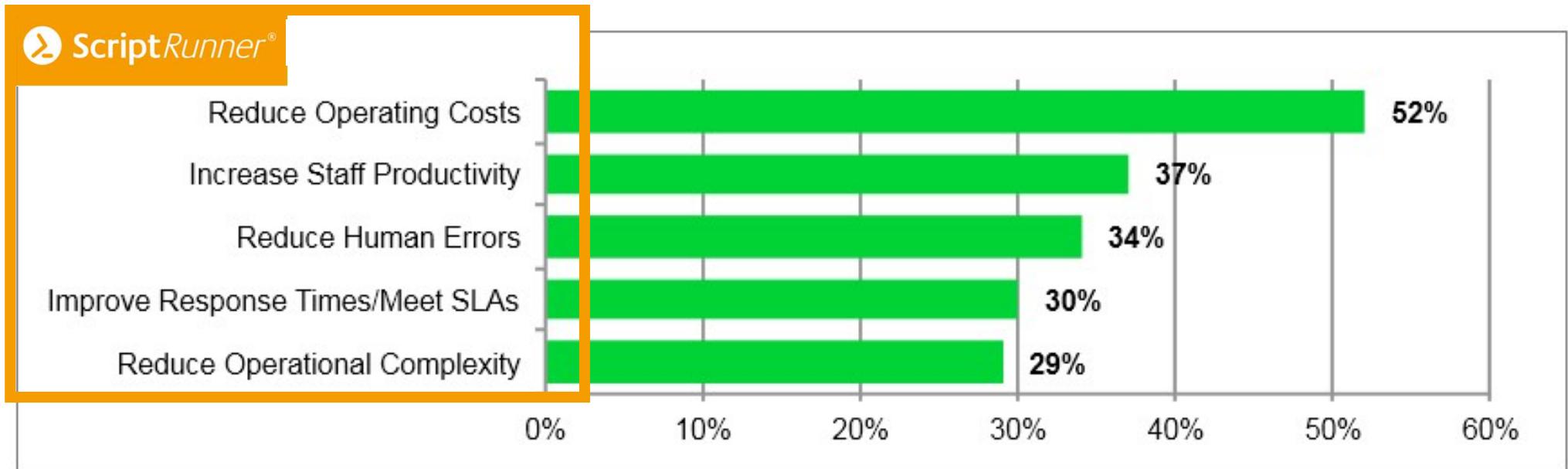


Figure 1 – Top business drivers for service automation

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  
Exchange tasks to the service desk  
team, but I can't make  
them full Exchange admin“

„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?



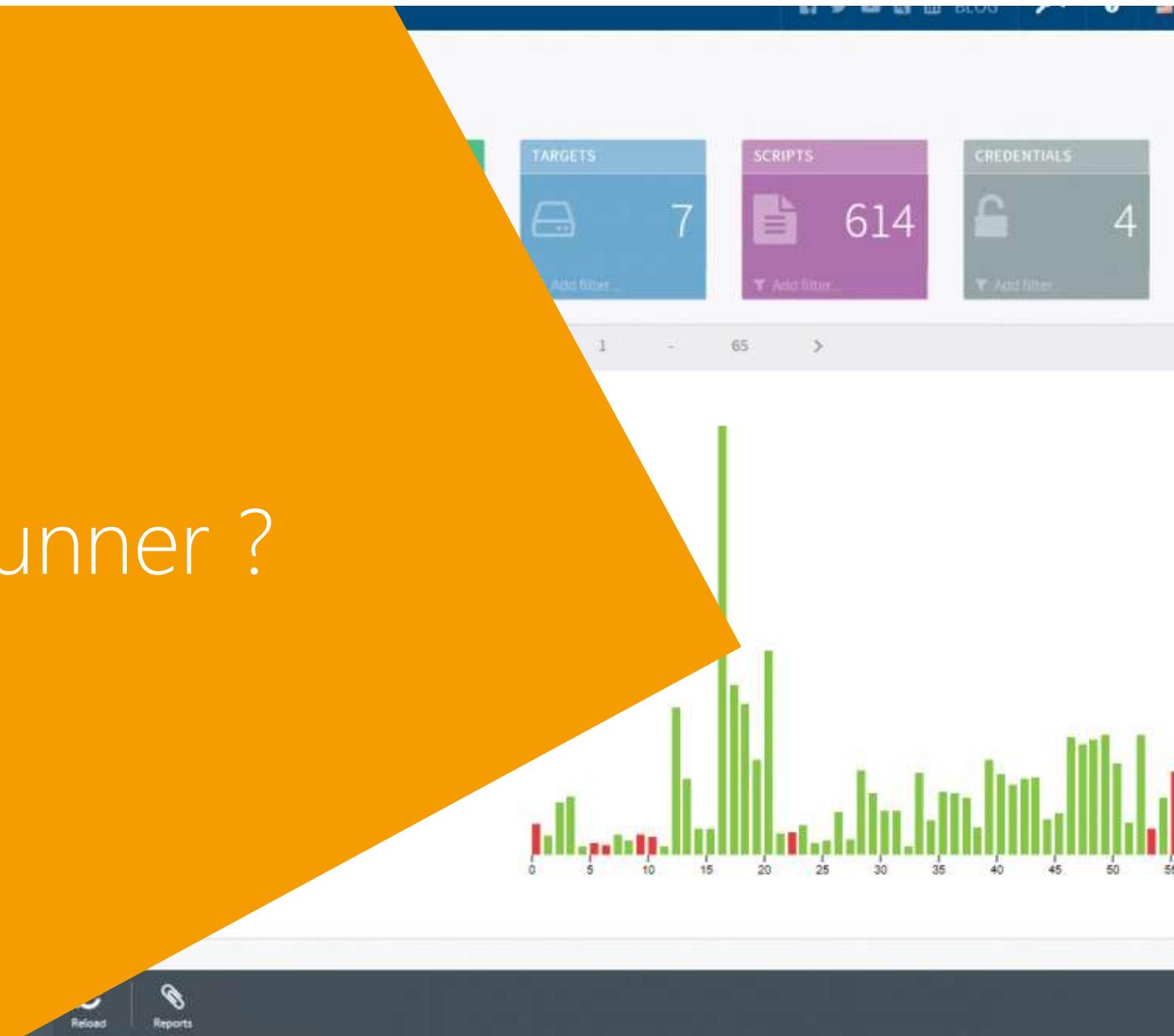
- 3. How much does it cost to complete the task once?



- 4. Is the task prone to human error?



# What is ScriptRunner ?



# What is ScriptRunner?



VS



# Six reasons for centralizing PowerShell



Standardization



Collaboration



Control



Security



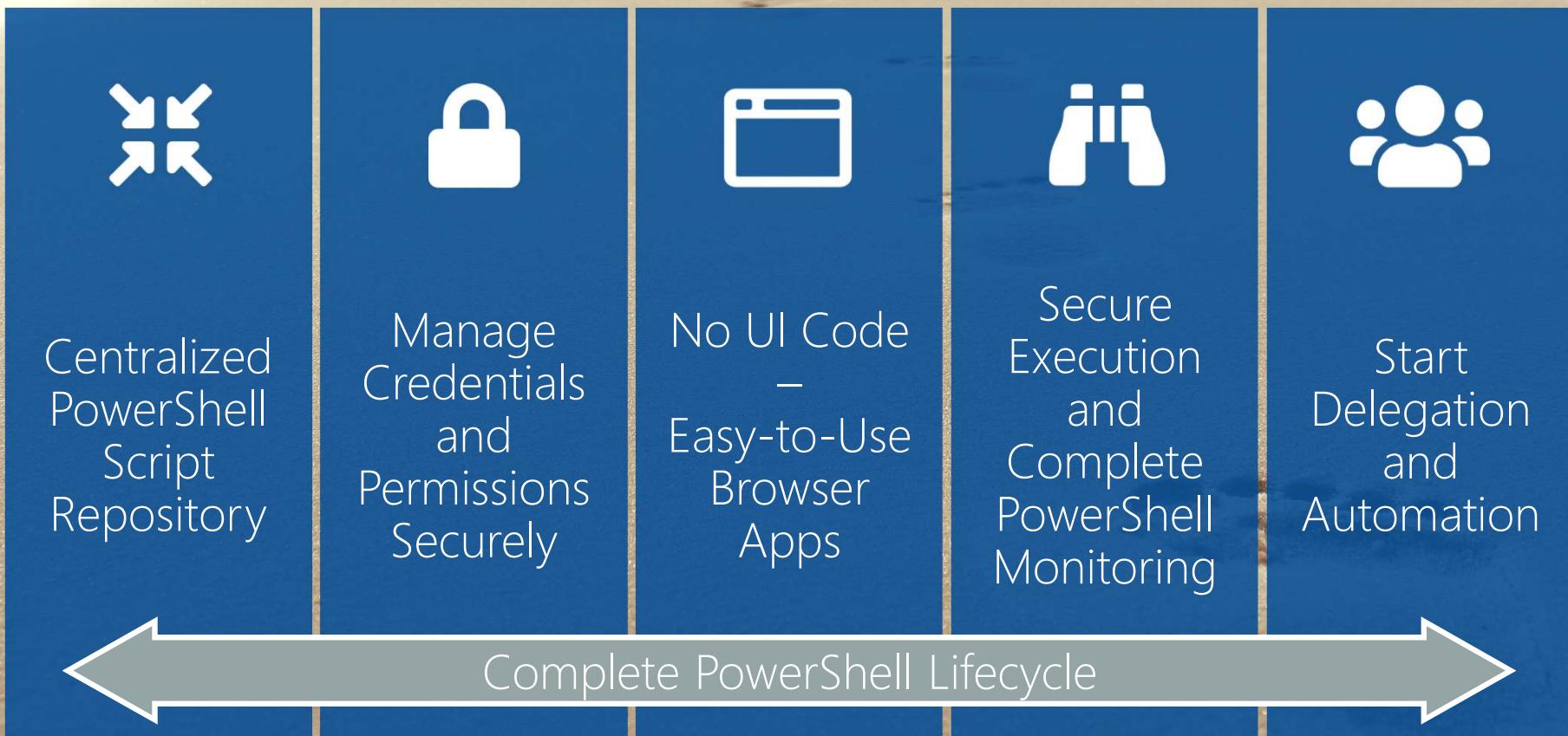
Delegation



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



Automatic

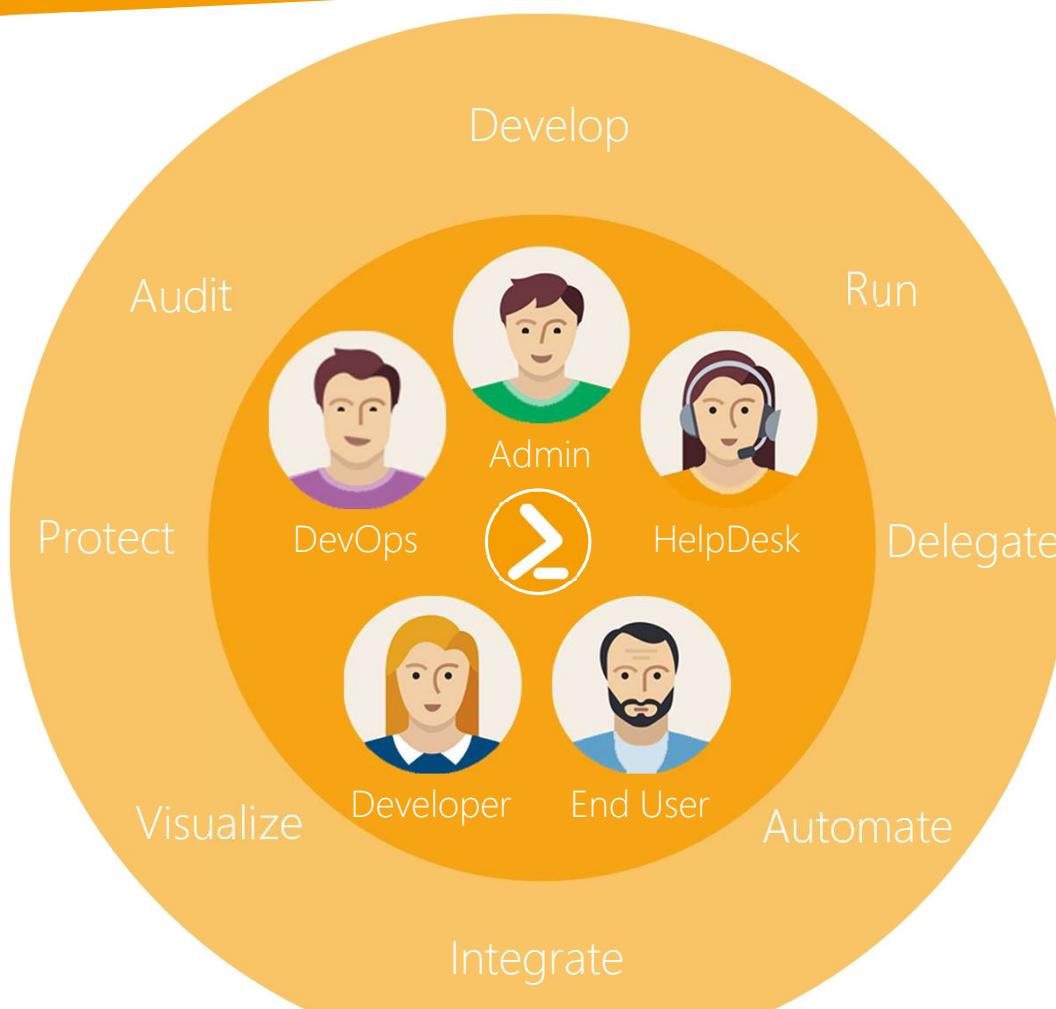
Event triggered by 3rd party systems

# 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

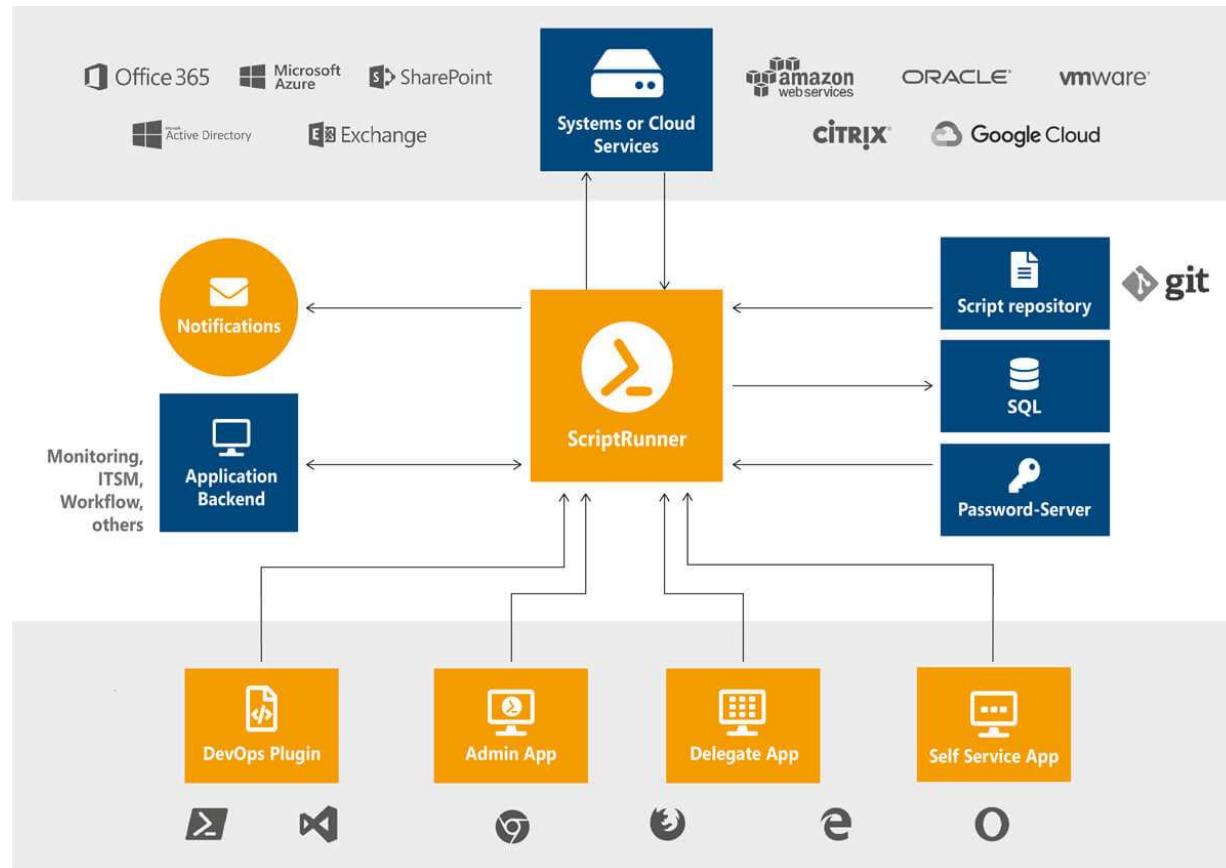
<https://www.scriptrunner.com/en/practical-examples/>

# ScriptRunner – Make PowerShell A Real Solution



A vertical stack of four rectangular panels. The top panel is grey and contains five circular avatars representing 'Admin', 'DevOps', 'Developer', 'HelpDesk', and 'End User'. The second panel is orange and features five white icons: a double-headed arrow, a padlock, a plug, a shield, and a group of people. The third panel is dark blue and has a large white PowerShell greater-than sign (&gt;) icon. The bottom panel is dark blue and displays logos for various platforms and services, including Windows, Docker, Citrix, Oracle, AWS, and others.

# 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:

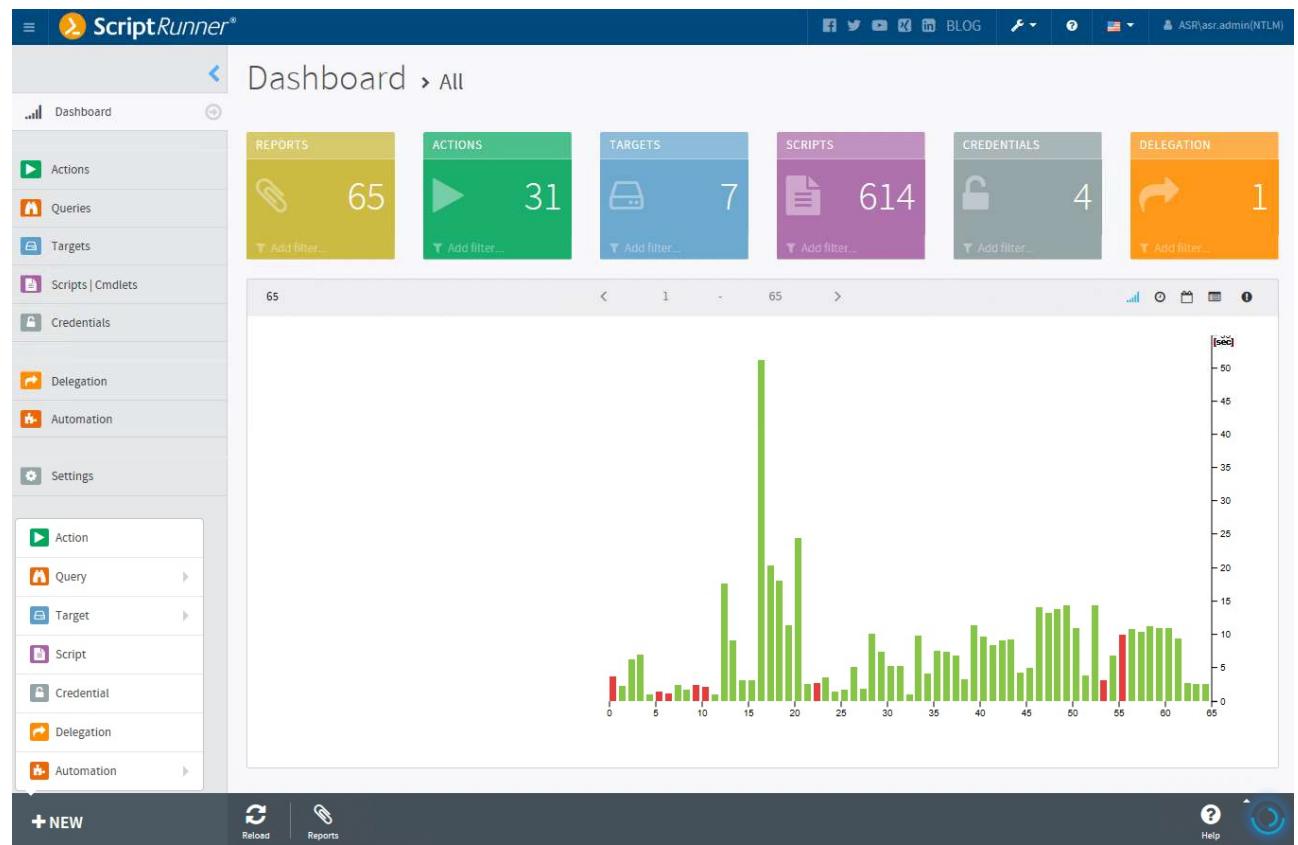
```
1 #ASR Parameter:ServiceDisplayName Type:Choice(ServicesList)
2
3 <#
4   .SYNOPSIS
5   Start a Windows service from the list.
6
7   .PARAMETER ServiceDisplayName
8   The DisplayName of the service to start.
9 #>
10
11 Param (
12   [Parameter(Mandatory=$true)]
13   [string]$ServiceDisplayName
14 )
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 (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

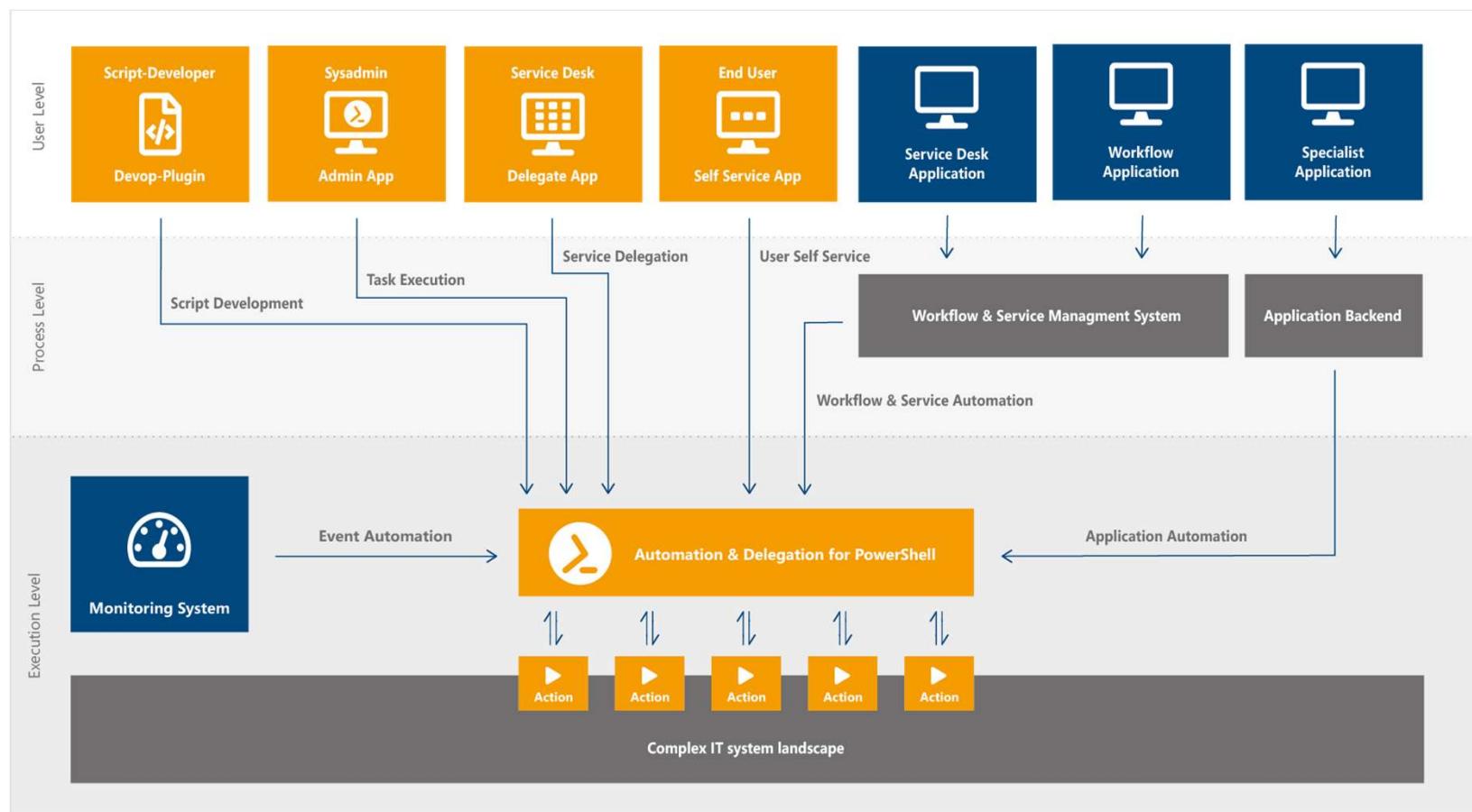
# Integration – Add new functions with connectors



- 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



## Webinare on demand

Unsere aufgezeichneten Webinare können Sie sofort ansehen

So starten Sie mit ScriptRunner durch – Basics



[Zur Aufzeichnung](#)

Richtlinien zum Ausführen von Scripten festlegen – Basics



[Zur Aufzeichnung](#)

Neue Version 2018R3 – was ist neu?



[Zur Aufzeichnung](#)

PowerShell Core und PowerShell für Windows



[Zur Aufzeichnung](#)

PowerShell-Skripte mit Vorlagen entwickeln



[Zur Aufzeichnung](#)

PowerShell-Skripte im Team entwickeln



[Zur Aufzeichnung](#)

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

# IT Administrator test report



<https://lp.scriptrunner.com/en/scriptrunner-test-it-administrator-2018>

# 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/>

# Summary



PowerShell for teams



Develop together – Centralized Script repository



Secure delegation and automation – Easy to use – Centrally monitored



Reduces workload – Creates time for projects and innovations



Improves your service – Increases customer satisfaction



Fast results – High benefits



Holistic PowerShell Management

# ScriptRunner ❤️ Community



- Visit us in Prague
- Experts Live Europe
- Technical Microsoft Community Event
- November 20-22, 2019
- Prague Congress Center
- <https://www.expertslive.eu/>



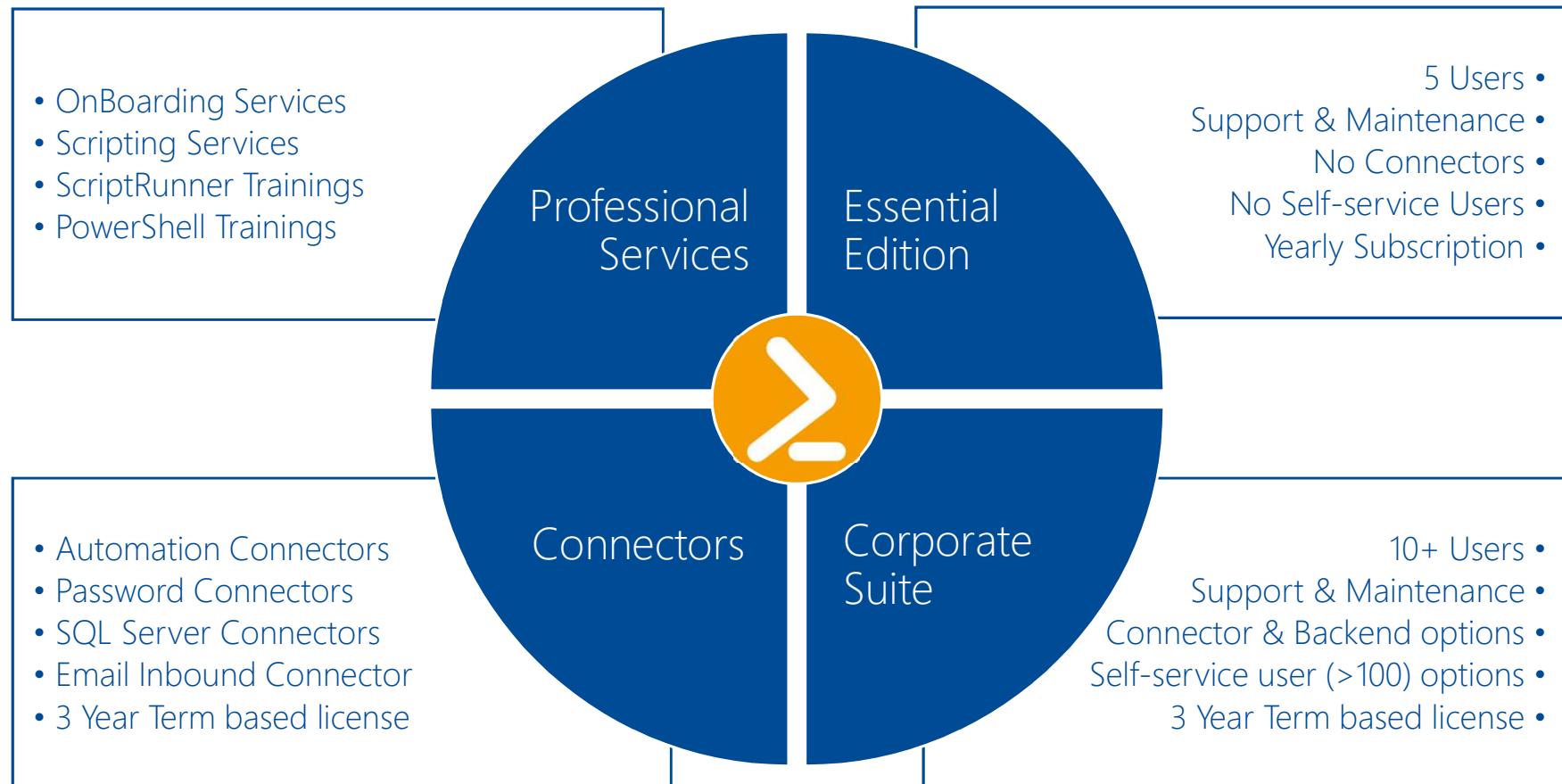
# Use cases with and without ScriptRunner



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.

# Licensing



# ScriptRunner: One Solution – Many Benefits



Manager		We can employ the existing resources more efficiently. My team becomes more productive We can deliver better service at higher speed.
Admin		I can securely delegate and automate daily tasks. That gives me more time to concentrate on projects, innovations and conceptual work.
DevOps		I have full control of the PowerShell lifecycle. Every activity from development to delivery and execution is centrally monitored.
Developer		We now have a single source of truth for all our PowerShell scripts. I don't need to write UI code anymore. The whole company can benefit from my scripts.
HelpDesk		I can solve recurring user requests much faster. My customers are happy.
End User		With the new self services I am now able to solve many business problems right away on my own.

# ScriptRunner: One Solution – Many Benefits



Manager  
Teams become more productive

Deliver great scripts in a secure environment

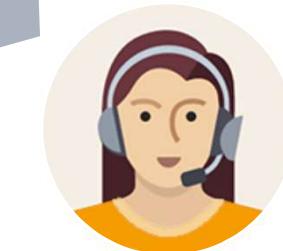


DevOps



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 and win a headphone

Download 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)

Learn about ScriptRunner in French:  
[www.cooperteam.com/fr/scriptrunner.html](http://www.cooperteam.com/fr/scriptrunner.html)





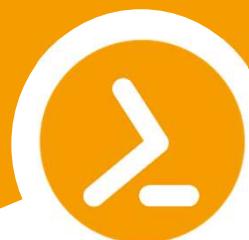
ScriptRunner - Achieve More With PowerShell



# Thank you.

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

ScriptRunner – Make PowerShell a real solution. For you and your team.



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