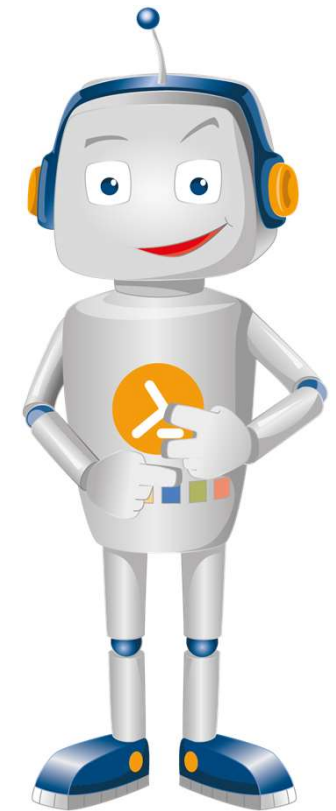


# Manage Microsoft Teams with PowerShell and save time

Automate. Delegate. Relax.

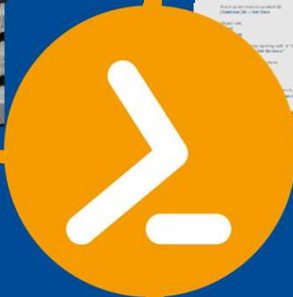
Heiko Brenn  @heikobrenn

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





Automate. Delegate. Relax.



 **ScriptRunner<sup>®</sup>**  
The #1 for PowerShell Management

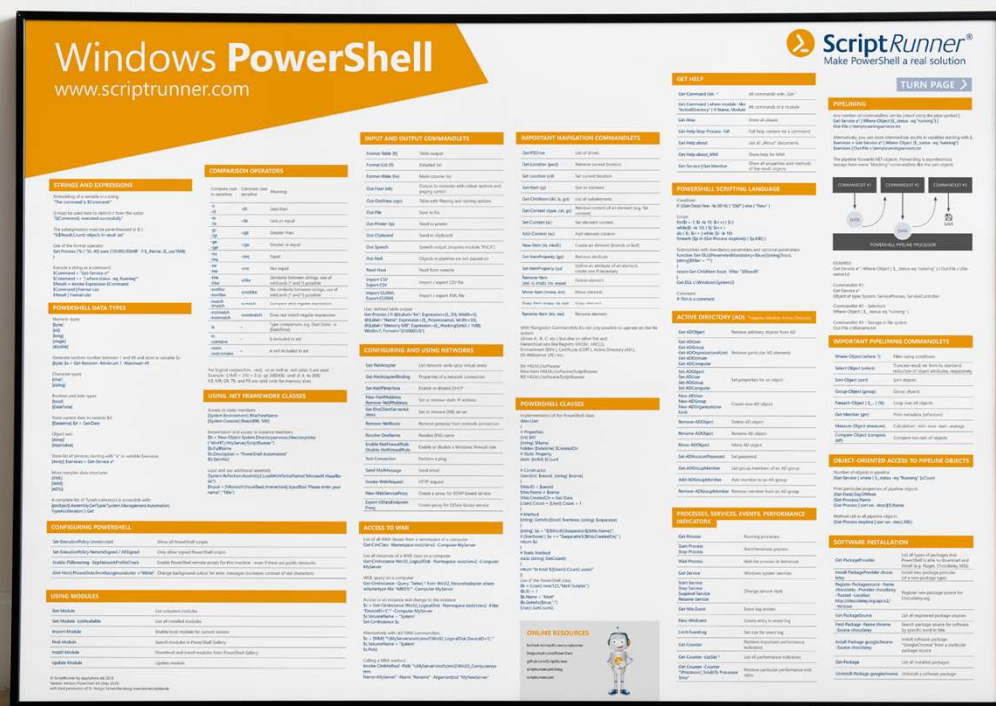
 [linkedin.com/in/HeikoBrenn](https://www.linkedin.com/in/HeikoBrenn)  +49-162-4879156  
 [github.com/HeikoBrenn](https://github.com/HeikoBrenn)  [heiko.brenn@scriptrunner.com](mailto:heiko.brenn@scriptrunner.com)

# Manage Microsoft Teams with PowerShell and save time

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



[lp.scriptrunner.com/en/powershell-poster](http://lp.scriptrunner.com/en/powershell-poster)



We are looking for  
three lucky winners

[lp.scriptrunner.com/en/teamscommunityday](https://lp.scriptrunner.com/en/teamscommunityday)



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





# Agenda



Microsoft Teams  
administration  
with PowerShell

Automate & Delegate  
with PowerShell plus  
ScriptRunner

# Why automate?

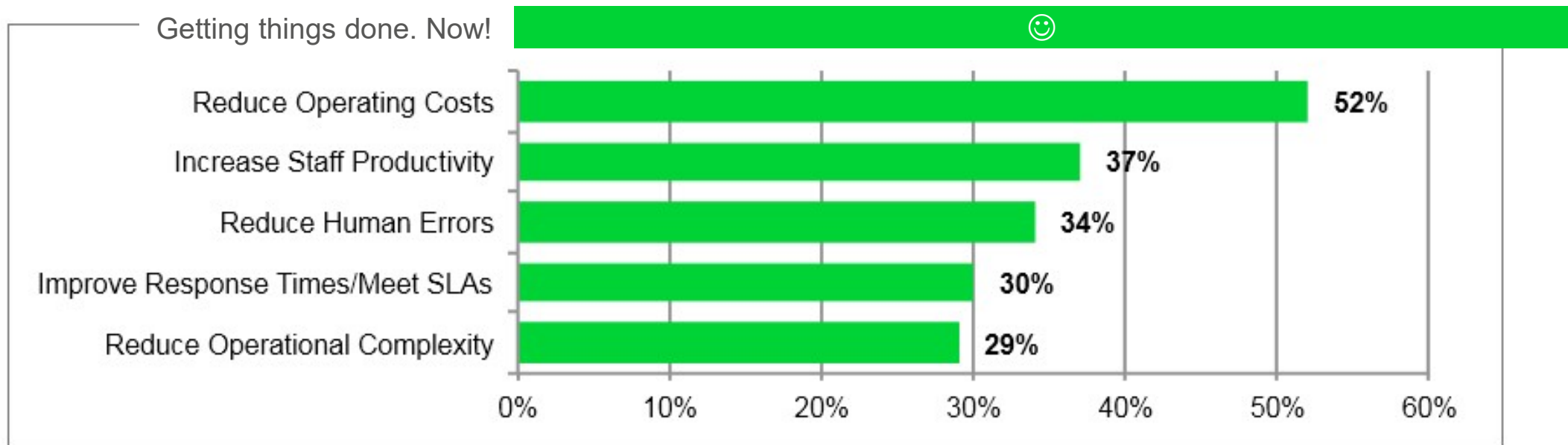


Figure 1 – Top business drivers for service automation



# 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



# 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



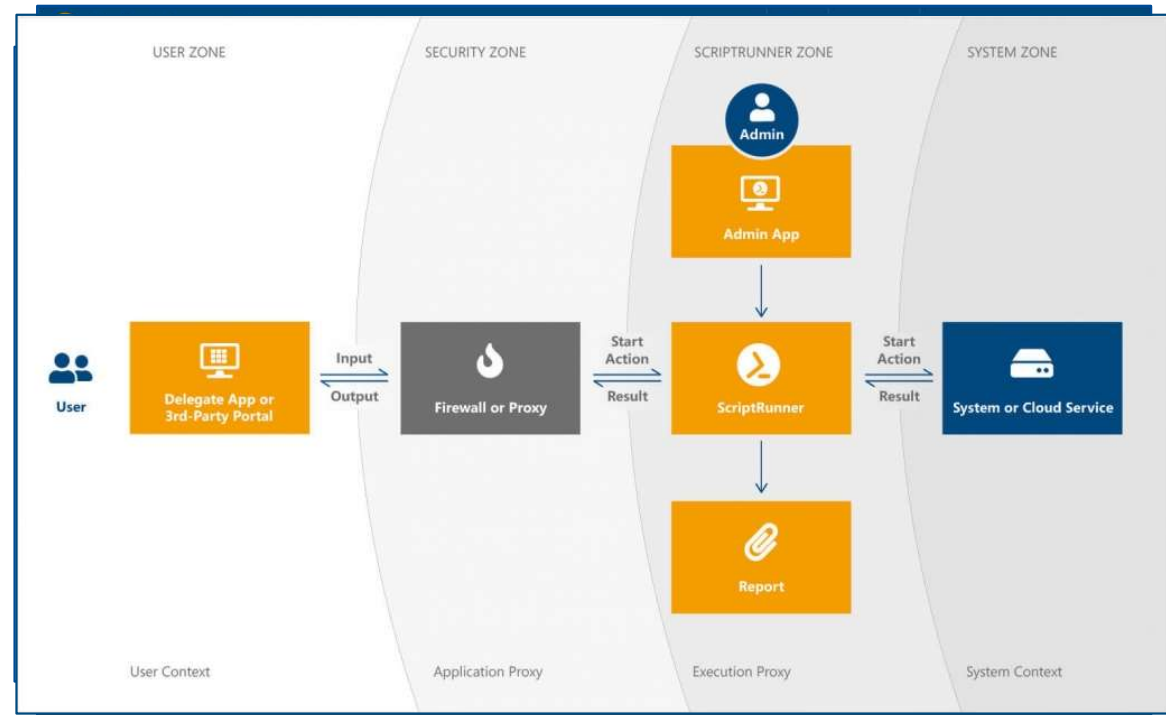
Automatically transform PowerShell scripts into Web GUIs



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

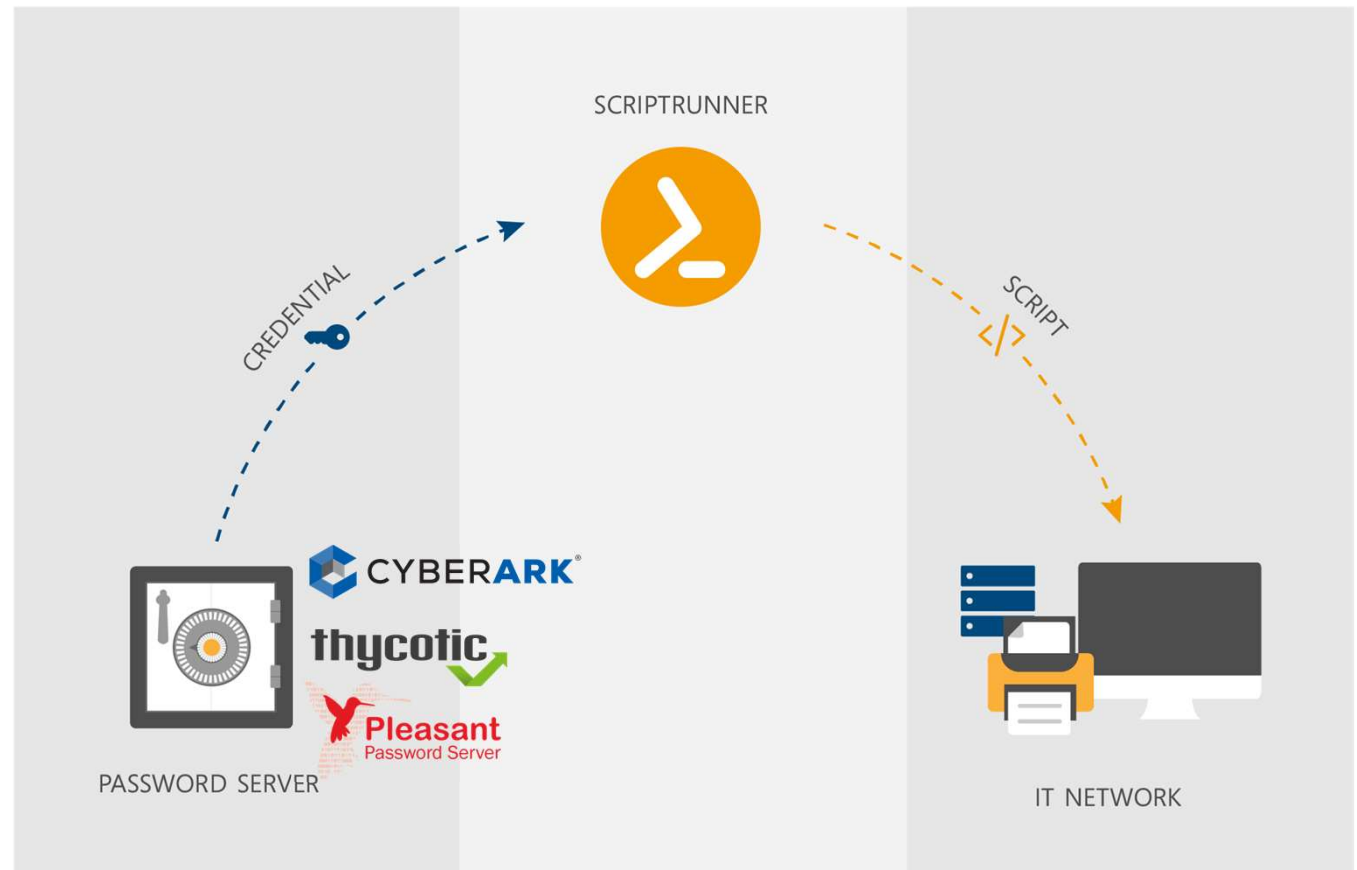


ScriptRunner®		
Windows PowerShell 2006 - today	PowerShell 7 2016 - today	
.NET Framework	.NET Core	
Windows	Linux	macOS

# 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

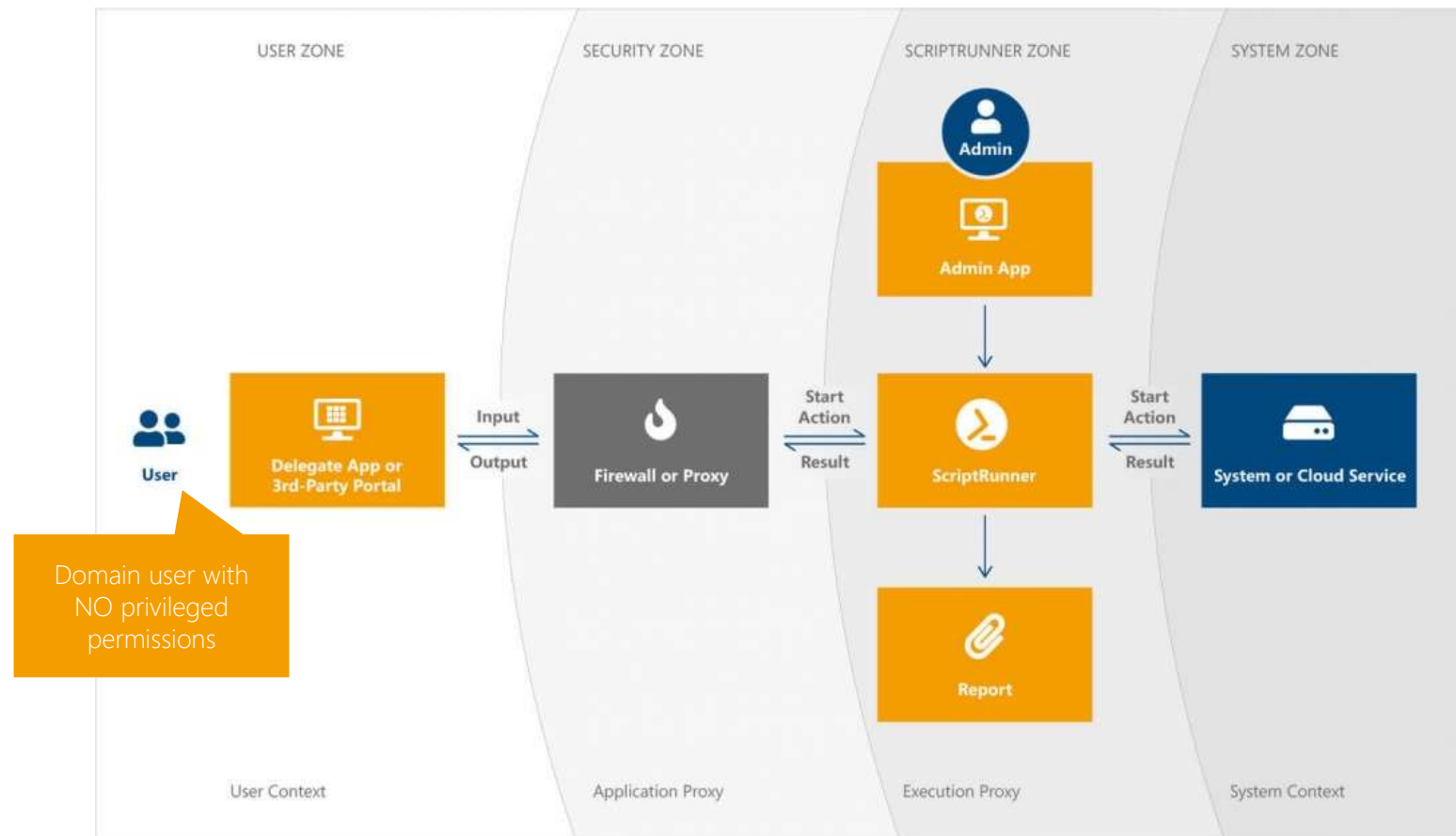


# Demo

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

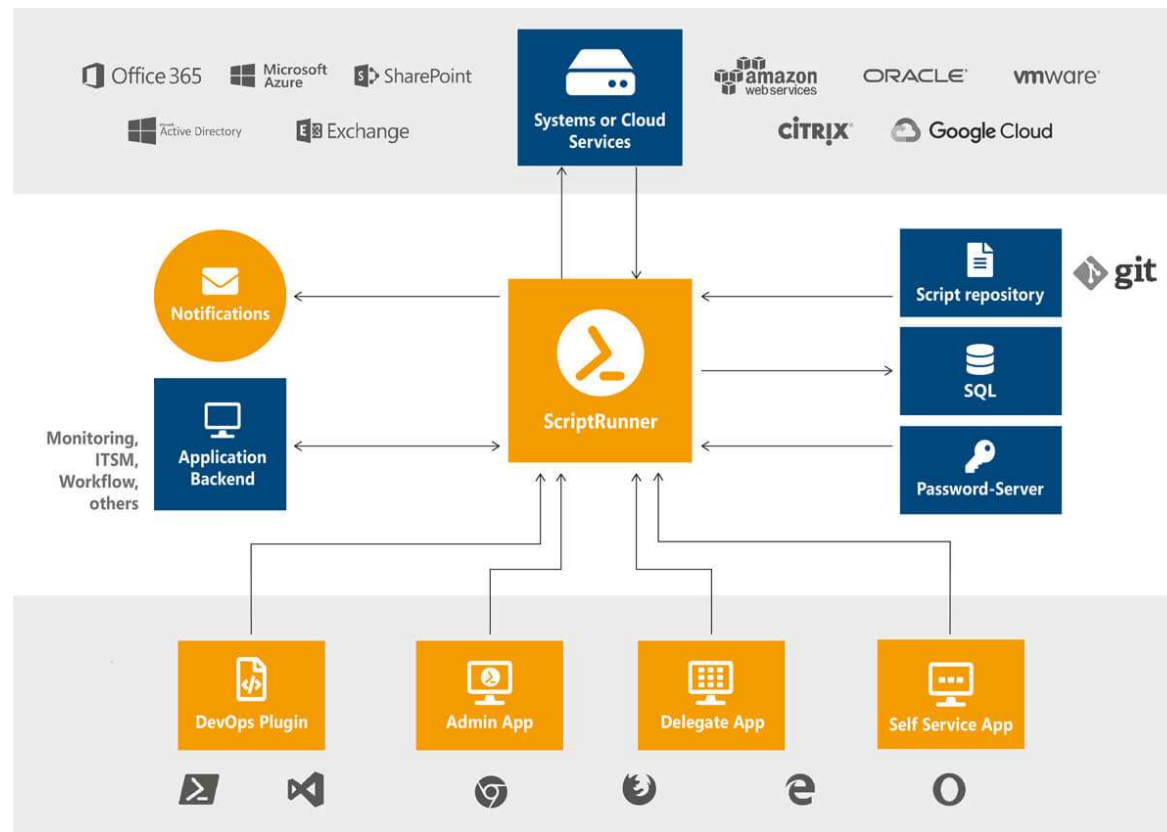
Integration



Connectors



# ScriptRunner – How the components play together

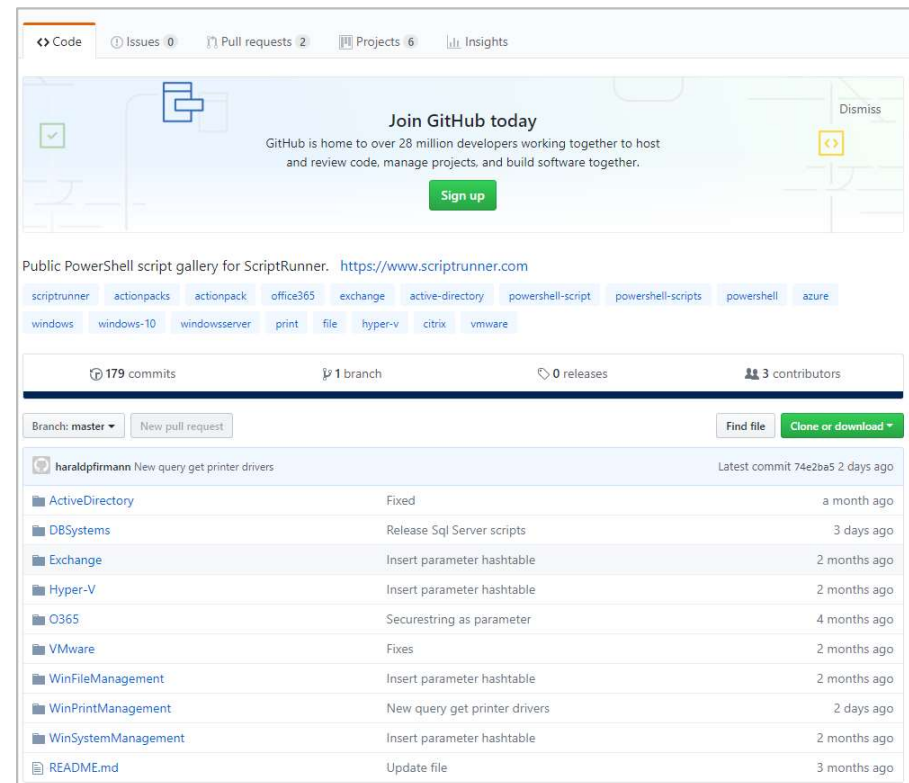


<https://www.scriptrunner.com/en/software/system/>

# 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

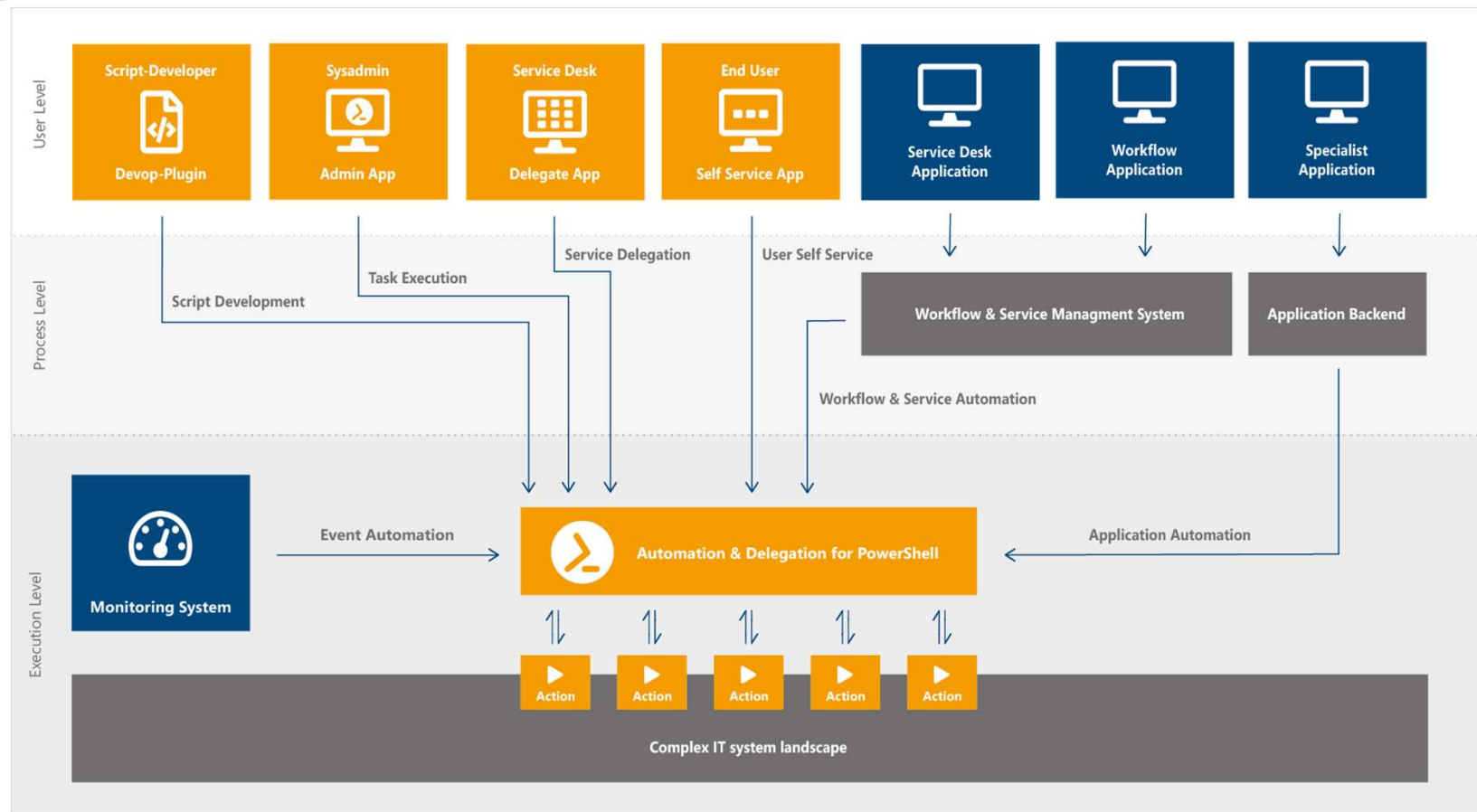


# Integration – Add new functions with connectors

- 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/>

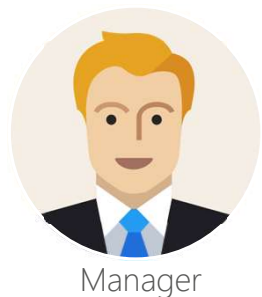


# ScriptRunner – The Full Picture



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

# ScriptRunner: One Solution – Many Benefits



Manager

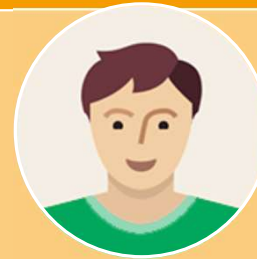
My teams  
become  
more  
productive

Deliver great scripts in  
a secure environment



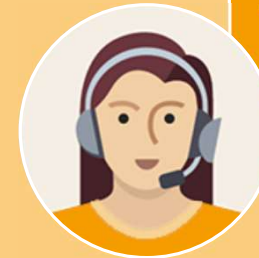
DevOps

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



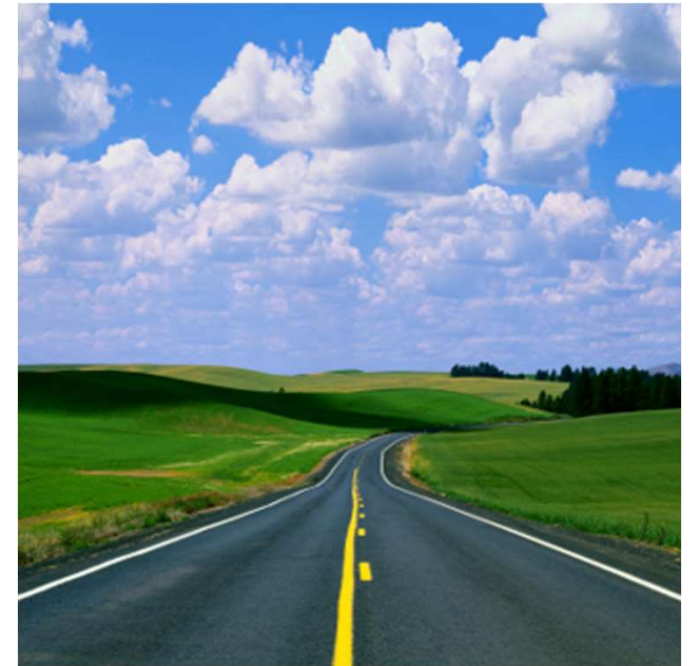
## Next Steps

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

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

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

ScriptRunner – The #1 for PowerShell Management.



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