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We ♥ PowerShell

**ScriptRunner®**

The #1 for PowerShell Management

Automate. Delegate. Relax.

Windows **PowerShell**
www.scriptrunner.com

ScriptRunner®
Make PowerShell a real solution

Get-Help about_WMI

Get-Service | Get-Member

**POWERSHELL SCRIPTING LA**

Condition
if ((Get-Date).Year -le 2014) { "Old" } else {

Loops
for($i = 1; $i -le 10; $i++) { $i }
while($i -le 10) { $i; $i++ }
do { $i; $i++ } while ($i -le 10)
foreach ($p in (Get-Process iexpl

www.scriptrunner.com

# Teams PowerShell Module

Provisioning & management
of Teams/Channels/etc.

First version:   0.9.3 November  2017
Latest release: 1.0.6 April 2020

Number of cmdlets: 23

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

Configure Teams Settings

Get Current Teams/Channel Settings

Send Messages to Channels

# Demo

Microsoft Teams PowerShell Module

# Challenges

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PowerShell Know-How Bottleneck

How to delegate?

What to delegate?

How to keep control?

Where to start?
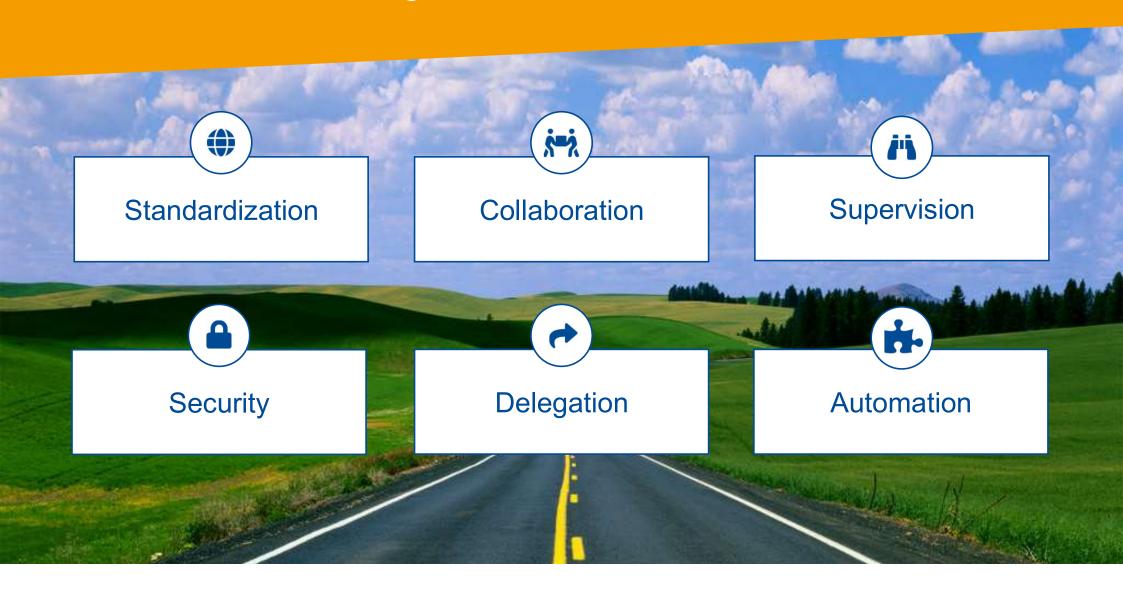
# Achieve More With PowerShell In 5 Steps

**ScriptRunner®**

- Centralize Your PowerShell Scripts

- 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

# WFH – PowerShell Use Cases (a selection)

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Enable Active Sync

Deploy and manage
Microsoft Teams

Set Out-of-Office „WFH"
notifications

Configure and monitor
Windows clients

etc...

# ScriptRunner – How to run scripts

| | |
|---|---|
| Manually | Users execute tasks in web browser |
| Scheduled | Time-controlled tasks |
| Automatic | Event triggered by 3rd party systems |
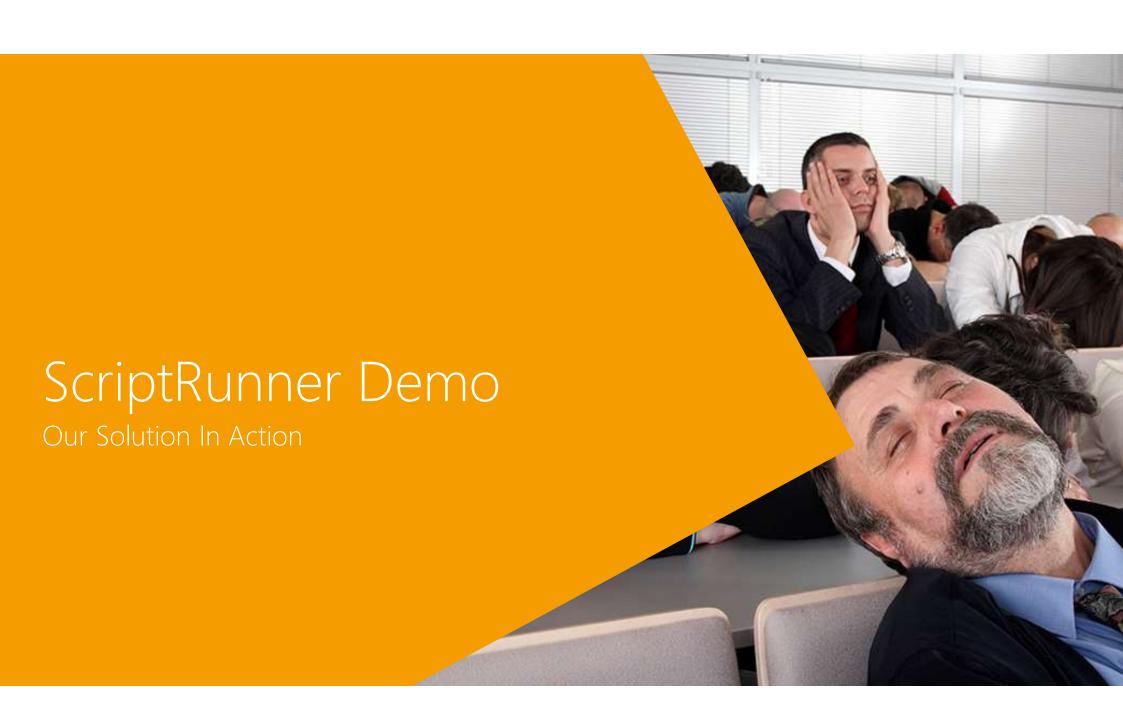
ScriptRunner®

# ScriptRunner Demo

Our Solution In Action

# Windows **PowerShell**

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Make PowerShell a real solution

TURN PAGE ›

## STRINGS AND EXPRESSIONS

## POWERSHELL DATA TYPES

## CONFIGURING POWERSHELL

## USING MODULES

## COMPARISON OPERATORS

## USING .NET FRAMEWORK CLASSES

## CONFIGURING AND USING NETWORKS

## ACCESS TO WMI

## INPUT AND OUTPUT COMMANDLETS

## IMPORTANT NAVIGATION COMMANDLETS

## POWERSHELL CLASSES

## GET HELP

## POWERSHELL SCRIPTING LANGUAGE

## ACTIVE DIRECTORY (AD)

## PROCESSES, SERVICES, EVENTS, PERFORMANCE INDICATORS

## PIPELINING

## IMPORTANT PIPELINING COMMANDLETS

## OBJECT-ORIENTED ACCESS TO PIPELINE OBJECTS

## SOFTWARE INSTALLATION

## ONLINE RESOURCES

# Get your free PowerShell poster
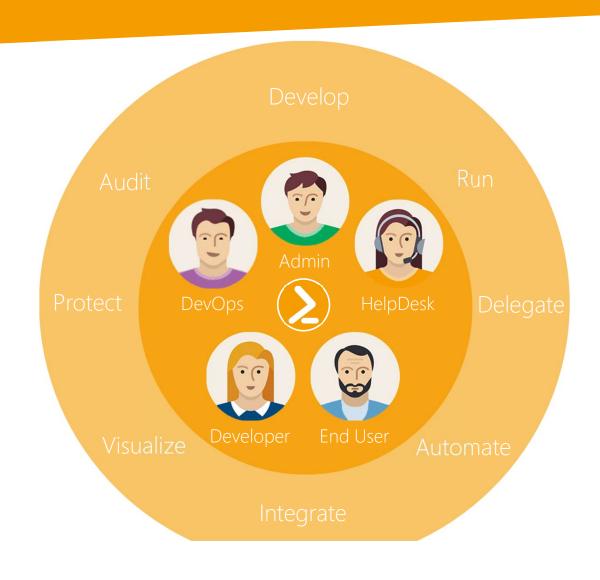


https://lp.scriptrunner.com/en/powershell-poster

ScriptRunner – Your Smart PowerShell Control Center

**ScriptRunner**®

Develop

Audit

Run

Admin

DevOps

HelpDesk

Protect

Delegate

Developer

End User

Visualize

Automate

Integrate

# ScriptRunner – Practical Examples and Use Cases



**ScriptRunner®**

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/
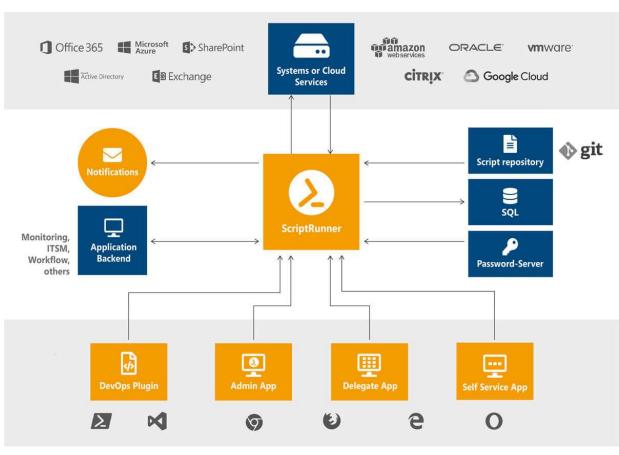
# ScriptRunner – Make PowerShell A Real Solution

# 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
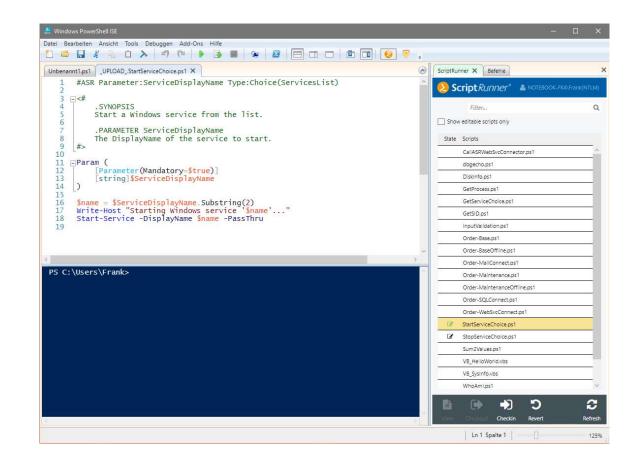
# ScriptDeveloper – DevOps Plugin
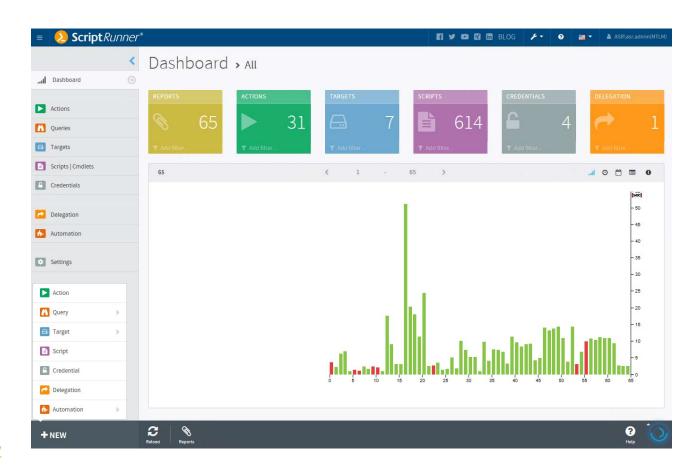
> ISE Plugin

> 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/

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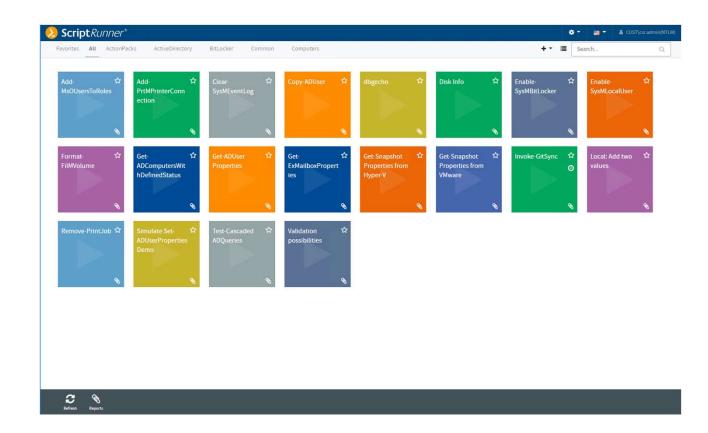
- A web GUI for PowerShell
- Dashboard for all activities
- Create ScriptRunner actions
- Manage and test queries
- Target configuration
  - Direct local
  - PowerShell remoting
  - Implicit remoting
- Secure delegation of ScriptRunner actions
- Scheduled script execution
- Secure credential handling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

# ServiceDesk – DelegateApp

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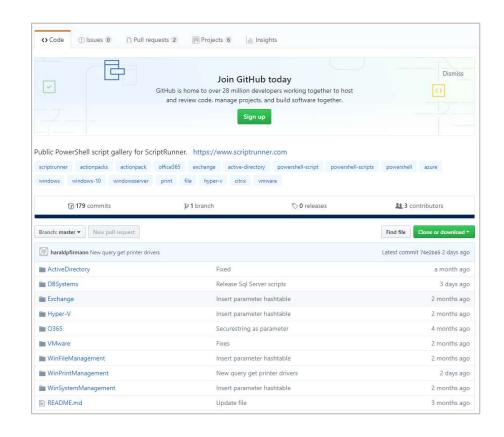
- A web GUI for PowerShell
- Execute PowerShell scripts in the browser
- Delegate specific ScriptRunner actions to team members, helpdesk or endusers
- No administrative permissions for users required
- Parameters for script execution can be hidden
- Input dialogs are automatically created from PowerShell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

# 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

**ScriptRunner®**
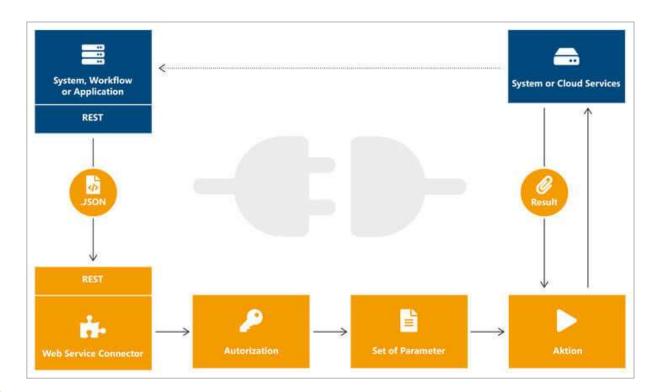
| | | |
|---|---|---|
| ▶ | Actions | Activate OutOfOffice |
| 🔍 | Queries | Select mailbox(es) |
| 💾 | Targets | Exchange, Exchange Online |
| 📄 | Scripts | Set-OutOfOffice.ps1 |
| 🔓 | Credentials | Service account with necessary permissions |
| ➡ | Delegation | Helpdesk user, End user |

# Integration – Add new functions with connectors

**Script**Runner®

- **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/

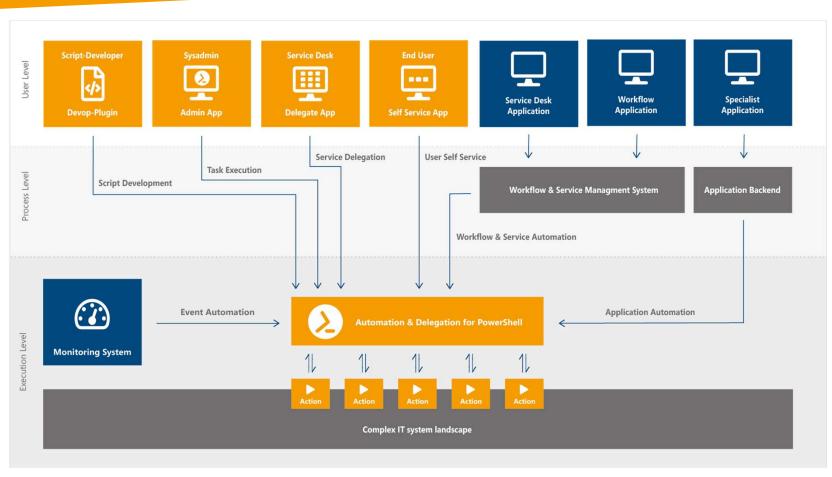# ScriptRunner test report fom a Microsoft MVP

**ScriptRunner®**

**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."

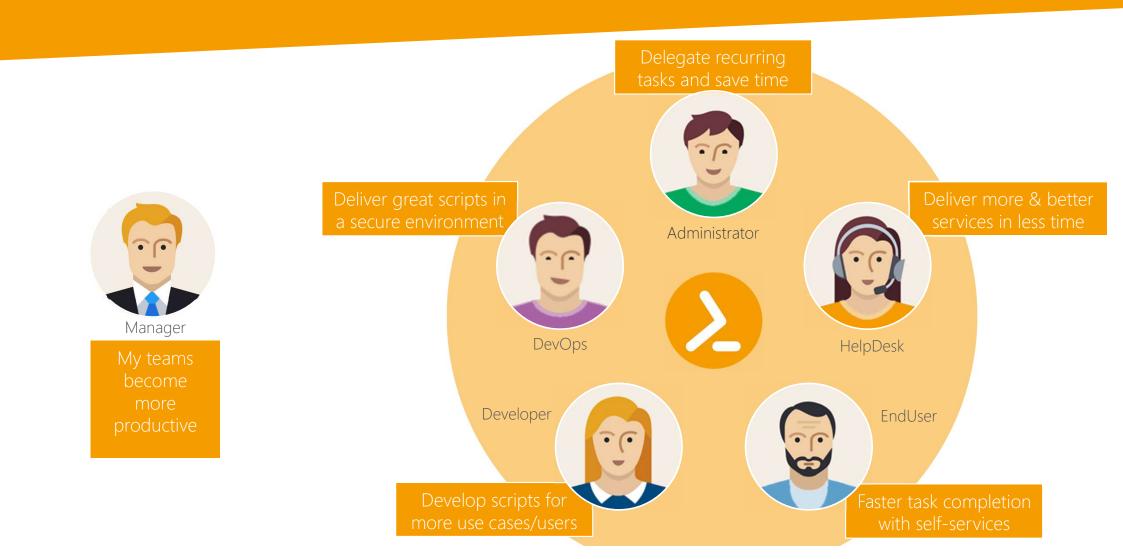"Compared to large automation platforms, ScriptRunner is significantly cheaper."

"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: One Solution – Many Benefits

**ScriptRunner**®

Delegate recurring tasks and save time

Administrator

Deliver great scripts in a secure environment

Deliver more & better services in less time

DevOps

HelpDesk

Manager

My teams become more productive

Developer

EndUser

Develop scripts for more use cases/users

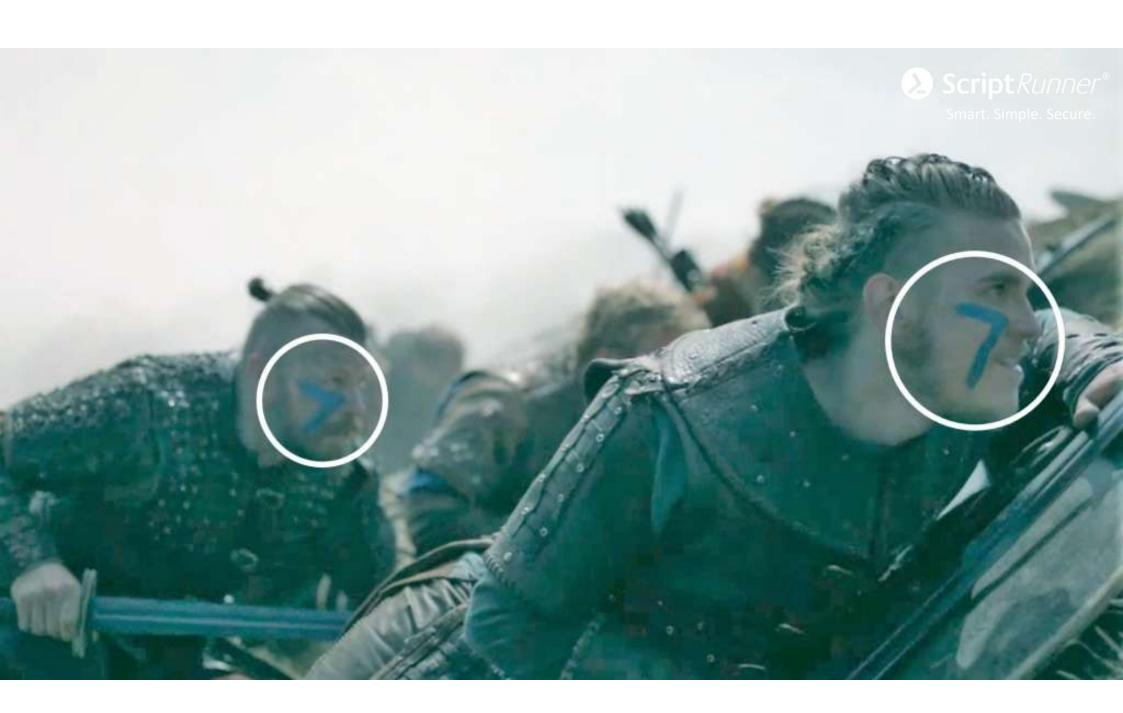Faster task completion with self-services

# 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

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# Thank you.

## www.scriptrunner.com

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

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Mail: info@scriptrunner.com