

Manage your IT infrastructure like a Rock Star with PowerShell

Automate. Delegate. Relax.

Heiko Brenn  @heikobrenn







ScriptRunner®

The #1 for PowerShell Management

Unlock the Power of PowerShell

+49

2014

25

1924



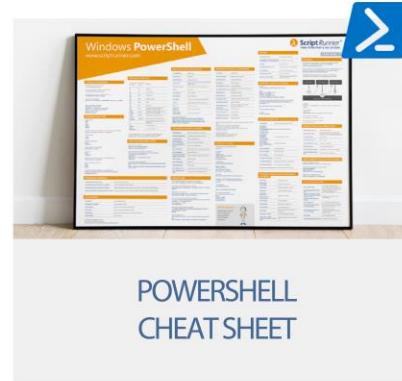
Hundreds of free
and ready-to-use
PowerShell scripts.

github.com/scriptrunner/ActionPacks



Get your free PowerShell goodies

lp.scriptrunner.com/en/powershell-goodies





STANDARDIZATION, AUTOMATION AND DELEGATION OF RECURRING TASKS

AUTO-CREATED
USER FRIENDLY
WEB FORMS

SECURE
CREDENTIAL
ADMINISTRATION

CENTRALIZED SCRIPTS AND
MODULES MANAGEMENT

INTERACTIVE, SCHEDULED
AND EVENT-DRIVEN
SCRIPT EXECUTION

COMPREHENSIVE
MONITORING AND
REPORTING



Manage your IT infrastructure like a Rock Star with PowerShell



Let's start rockin' with PowerShell

Automate & Delegate
IT management tasks
like a Rock Star with ScriptRunner

The Potential of PowerShell

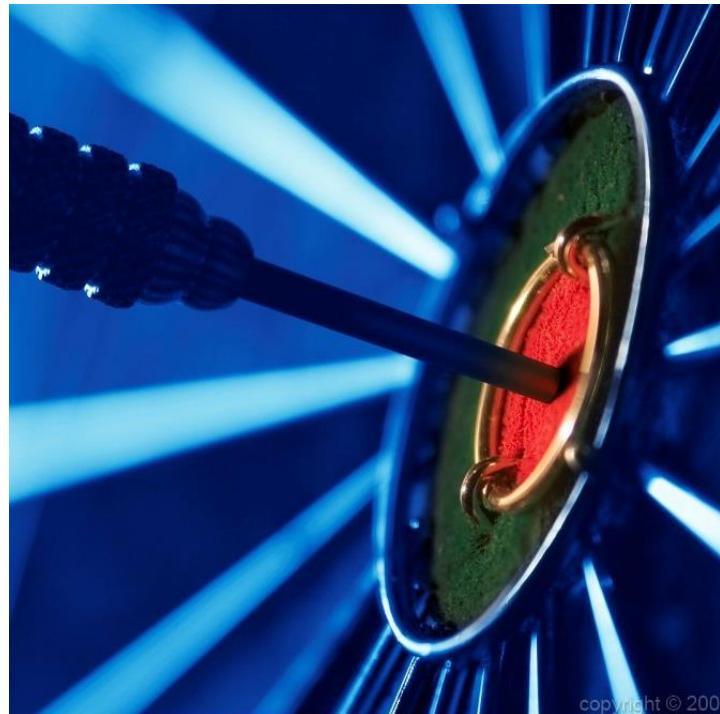
Very mature command-line shell
and scripting language for IT automation

Great framework to automate
recurring tasks consistently

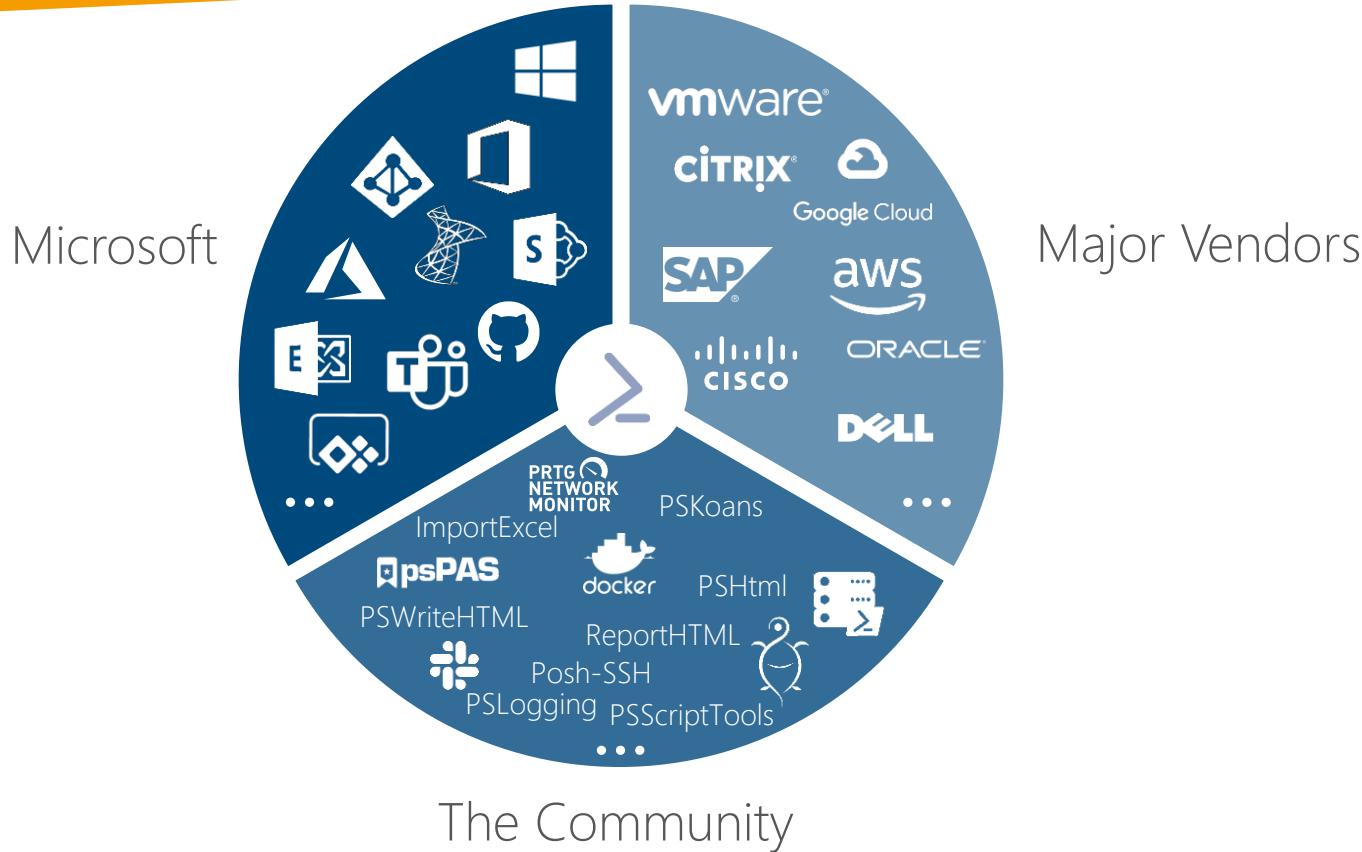
Simplifies administration of your
entire IT infrastructure

Strong commitment from Microsoft
and many other vendors

Very vital worldwide community



The PowerShell Ecosystem



Two ways of using PowerShell



PowerShell challenges



Let's face it.
Not everyone is a scripting expert

„De-centralized“ PowerShell landscape

How to enable support teams &
LOB users to use PowerShell?

Know-how bottlenecks
Security concerns

PowerShell is only used by
a few IT experts



Unlock the power of PowerShell in 5 steps



Centralized script and module management & execution

Secure credential and permission management

Great user experience
Easy-to-use interface

Flexible & secure delegation

Comprehensive monitoring and reporting



Centralized script and module management



The screenshot displays the ScriptRunner web application interface. On the left, a sidebar navigation bar includes links for Dashboard, Run, Authorize & Delegate, Monitoring, Configuration (selected), Actions, Queries, Targets, Scripts (selected), Credentials, and Settings. The main content area shows a list of scripts under the "Scripts" tab, with 9 of 1282 scripts listed. The list includes entries like "Get-EOOutOfOffice.ps1", "Set-EOOutOfOffice - Copy (2).ps1", "Set-EOOutOfOffice - Copy.ps1", "Set-EOOutOfOffice.ps1" (selected), "Set-EOOutOfOffice.ps1", "Set-EOOutOfOffice.orig.ps1", "TeamsWithOutOwner-Scheduled.ps1", "TeamsWithOutOwner.ps1", and "Webinar_Set-ExOutOfOffice.ps1". A modal window for the selected script, "Set-EOOutOfOffice.ps1", is open. The modal has tabs for "Public" (selected), "Save", "Check in script", and "Revoke script editing". It also includes sections for "CONFIGURATION" (General, Header information), "INFORMATION" (Change history, Used by), and a "Code editor" tab which is active. The code editor contains a PowerShell script:

```
[Parameter(Mandatory = $true,ParameterSetName="Schedule Auto Reply")]
[datetime]$EndDate,
[Parameter(ParameterSetName="Disable Auto Reply")]
[Parameter(ParameterSetName="Enable Auto Reply")]
[Parameter(ParameterSetName="Schedule Auto Reply")]
[switch]$GenerateReport
)
try{
[string[]]$Properties = @('Identity','AutoReplyState','StartTime','EndTime','ExternalAudience',
[string[]]$resultMessage = @()
[string]$msg = "Mailbox {0}"
[string]$replyType = 'All'
$hashtable]$cmdArgs = @{'ErrorAction' = 'Stop'
'Confirm' = $false
}
if($PSCmdlet.ParameterSetName -eq "Disable Auto Reply"){
$cmdArgs.add('AutoReplyState' , 'Disabled')
$msg += "disabled"
}
else{
if($AutoReplyType -eq 'Only contact list members'){
$replyType = 'Known'
}
if($AutoReplyType -eq 'Internal only'){
$replyType = 'None'
}
}
```

Don't store credentials in PowerShell scripts!
Don't store credentials in PowerShell scripts!



Centralized credential management



Credentials Showing 23 of 23 Credentials

+ Create

Create credential

User credential or client secret
Use name and password or secret

WinRM client certificate
Use a WinRM client certificate from the local certificate store

Password server
Retrieve the secret from a central password server

PowerShell Secret Management
Retrieve the secret from the Secret Management vault (experimental)

SSH key
Use an existing SSH key file or create a new one

Used by

- AzureVM Credentials
- Exchange Service Account
- Exchange Service Account (Pleasant)
- GitHub
- Hyper-V Service Account
- Microsoft Graph Target
- MyActiveDirectory
- O365 Tenant Service Account

Save Delete

Exchange Service Account (Pleasant)

Configuration General User secret reference

Information Used by

Save Run test Delete

MS Graph Target 007

Microsoft services Microsoft services

Configuration General Microsoft services

Information Advanced settings Used by

Activate service

Microsoft Graph

Sign-in method Certificate Client secret

Tenant ID

Application ID

Credential

Uses the credential selected above which must contain the client secret as password.

PowerShell module Microsoft.Graph.Mail

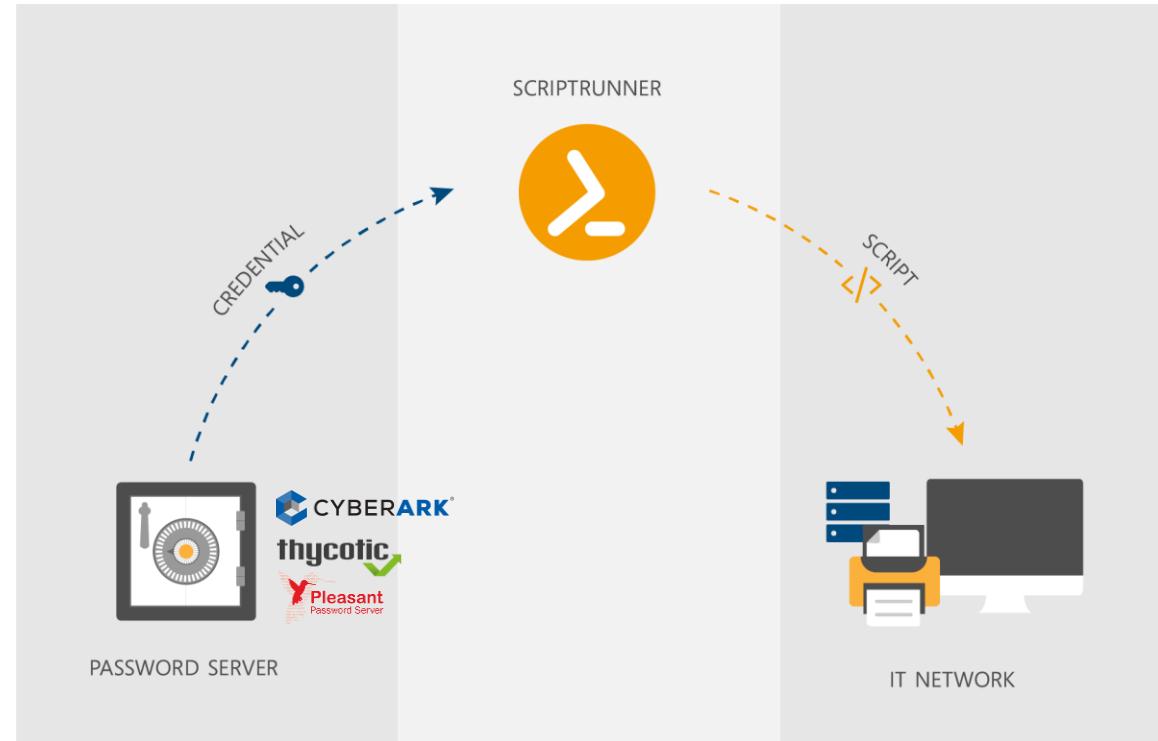
Must be installed on the execution host

Deactivate service

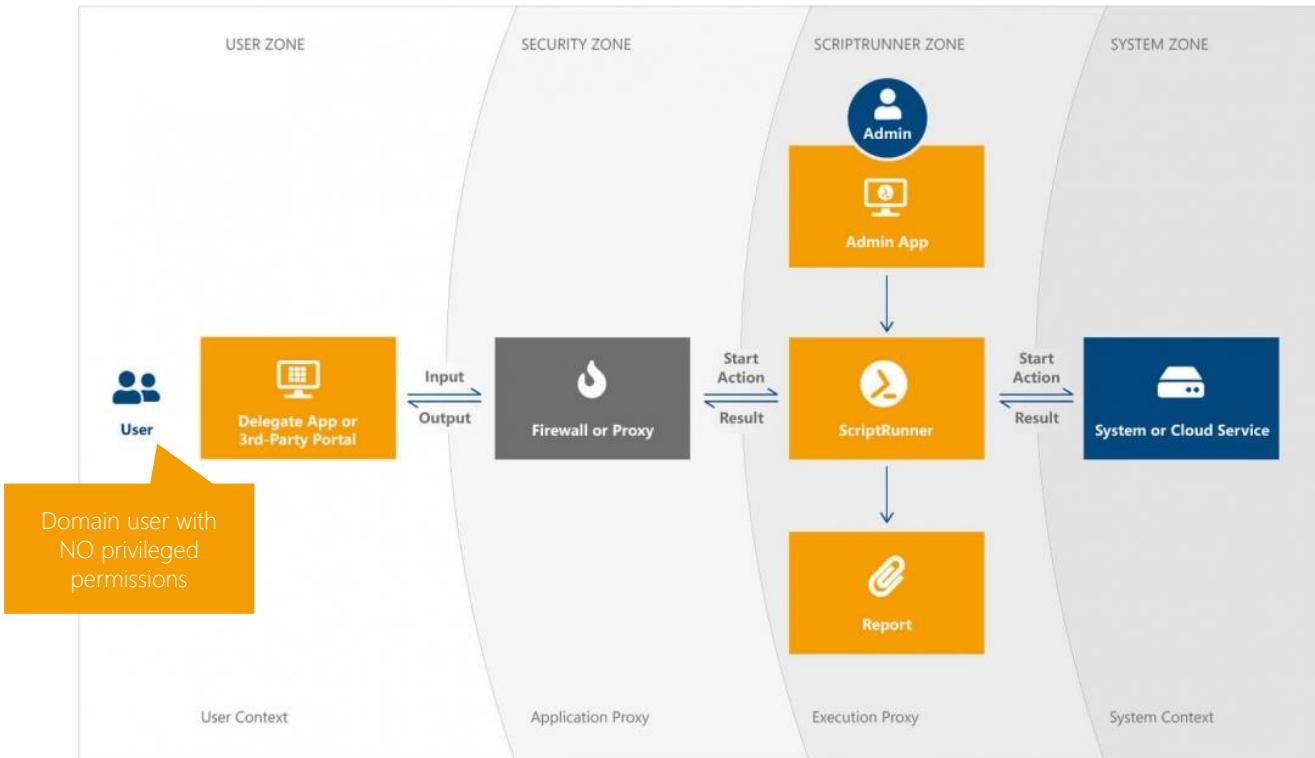
Tip
Notes on authentication and authorization for the service:
To use the 'Certificate' option, store the certificate in the local certificate store. To use the 'Client Secret' option, configure the name and secret under Credentials. In both cases, a service principal or the registered ScriptRunner service must be set up in the tenant with the respective permission roles. If an account is used, it must be assigned the permission roles and must not be enabled for multi-factor authentication (MFA).
[Microsoft documentation](#)

The screenshot displays the ScriptRunner web interface. On the left, a sidebar lists various credential types and their usage across different services. The main area shows two detailed credential configurations: 'Exchange Service Account (Pleasant)' and 'MS Graph Target 007'. Each configuration page includes tabs for 'General', 'Advanced settings', and 'Information'. The 'MS Graph Target' page also features sections for 'Microsoft services', 'Sign-in method' (with 'Client secret' selected), and 'PowerShell module' (set to 'Microsoft.Graph.Mail'). A 'Tip' panel on the right provides guidance on authentication and authorization.

- Centralized password safes
 - CyberArk Password Vault
 - Pleasant Password Server
 - Thycotic Secret Server
- No credentials are stored locally
- Automatic password rotation
- One single secure password repository for multiple ScriptRunner instances



ScriptRunner – Secure Delegation



PowerShell for Everyone



The Script

Administrator: Windows PowerShell ISE

File Edit View Tools Debug Add-ons Help

Untitled3.ps1 Exchange_Webinar.ps1 Set-EOOutOfOffice.ps1 X

```
118     $cmdArgs.Add('ExternalAudience', $replyType)
119     $cmdArgs.Add('InternalMessage', $internalText )
120     $cmdArgs.Add('ExternalMessage', $externalText )
121     if($PSCmdlet.ParameterSetName -eq "Schedule Auto Reply"){
122         $cmdArgs.Add('AutoReplyState', 'Scheduled')
123         $cmdArgs.Add('EndTime', $endDate)
124         $cmdArgs.Add('StartTime', $startDate)
125         $msg += "scheduled"
126     }
127     else{
128         $cmdArgs.Add('AutoReplyState', 'Enabled')
129         $msg += "enabled"
130     }
131 }
132
133 $Script:resHTML = @()
134 foreach($item in $MailboxIds){
135     try{
136         $box = Get-Mailbox -Identity $item -ErrorAction Stop
137         if($null -ne $box){
138             try{
139                 $null = Set-MailboxAutoReplyConfiguration @cmdArgs -Identity $item
140                 if($generateReport -eq $true){
141                     $Script:resHTML += Get-MailboxAutoReplyConfiguration -Identity $item
142                 }
143                 $resultMessage += [System.String]::Format($msg,$box.UserPrincipalName)
144             }
145             catch{
146                 Write-Output "Error occurred at set Mailbox $($item)"
147             }
148         }
149     }
150     catch{
151         Write-Output "Error occurred at get Mailbox $($item)"
152     }
153 }
```

PS C:\Users\administrator.COMPANY>

OutOfOffice

Create OOF Notifications With ScriptRunner Integration



Please select mailbox(es):

🔍

Angus Young Shania Twain Phil Collins ▼

Note the reason you run this action now.

Please select the notification template:

Sick leave ▼

Please select the start of absence

Jul 26, 2022

Please select the end of absence

Jul 31, 2022, 10:22 AM

Generate a report



The User Experience

Great User Experience



The screenshot shows the ScriptRunner interface with a central dialog box titled "Simple VM Creation". The dialog contains the following fields:

- Enter name of VM (NOTE: Must start with "TEST-")
TEST-VM0010
- Select an operating system
UbuntuTS
- Specs: 1 CPU, 3.5 GB RAM, 50 GB HDD (100 \$ per month)
- Specs: 4 CPU, 16GB RAM, 200 GB HDD (390\$ p. Press enter to select)
- Specs: 16 CPU, 64 GB RAM (900 \$ per month)

At the bottom right of the dialog is a large green "Run" button with a play icon.

The background shows the main ScriptRunner navigation bar with "Run" and "Reports" options, and a sidebar with various integration icons like "TFS", "See", "Enter", "Select", "Ubuntu", "Specs", "Specs", and "Specs".

Flexible & secure delegation



The screenshot shows the ScriptRunner interface for managing Active Directory users. The left sidebar has a 'Authorize & Delegate' section selected. The main panel displays the 'Active Directory Self-Services' configuration for an 'End users' group. The 'Delegations' tab is active. In the 'Delegations' section, there is a list of assigned actions:

- AD: Show Active Directory User Properties (Get-ADUser)
- Advanced Active Directory Report
- Reset password for Active Directory user
- Change Active Directory User Properties

A specific action, 'AD: Show Active Directory User Properties (Get-ADUser)', is highlighted with an orange background and a 'Press enter to remove' message at the top right of the list.

Comprehensive monitoring and reporting



ScriptRunner®

Live Monitor

Running scripts
3

Advanced Active Directory Report

Cancel execution

```
99: WARNING: Cannot resolve the manager, on the group 'Bass-AU'.
100: Done!
101: Working on Organizational Units Report...
102: Done!
103: Working on Users Report...
104: Done!
105: Working on Group Policy Report...
106: Done!
107: Working on Computers Report...
108: Done!
109: Compiling Report...
110:
```

Actions Scheduled Queued Queries

Action or scripted query Started Target Runtime Started by Server

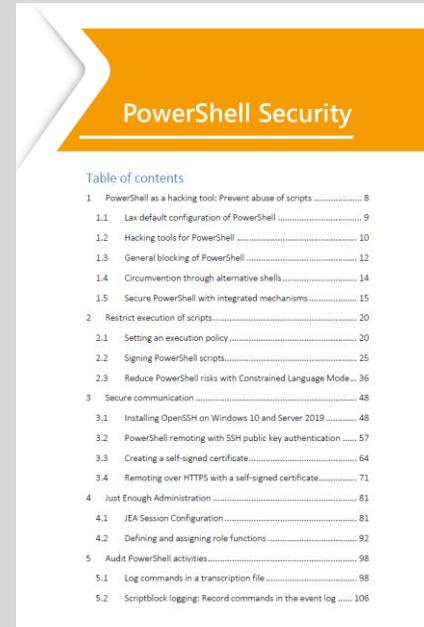
Action or scripted query	Started	Target	Runtime	Started by	Server
Simple Active Directory Report	a few seconds ago	AD local	Running...	COMPANY\tina	ScriptRunner

Filter by servers... ▾

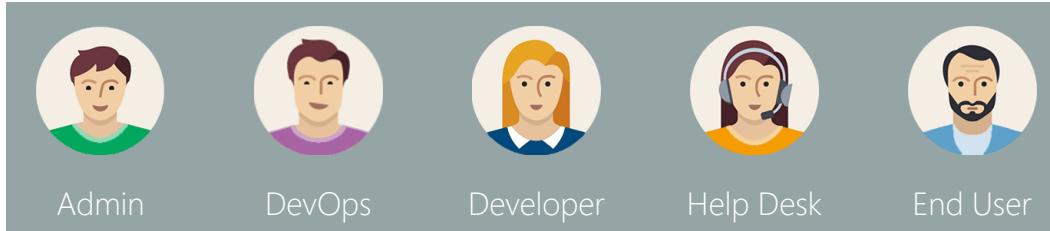
1 en i COMPANY\Administrator(Kerberos) ↻ ?

Free ebook: PowerShell Security

ip.scriptrunner.com/en/powershell-security-guide



Unlock the Potential of PowerShell across your organization



Unlock the Power of PowerShell across your organization



Manager
My team becomes
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



Developer

Develop scripts for
more use cases/users



EndUser

Faster task completion
with self-services



Put ScriptRunner
to the test.
30 days for free.

lp.scriptrunner.com/en/demo-download





Let's talk about your
automation use cases.
Book an online session
with me.

lp.scriptrunner.com/meetings/heiko-brenn/demo-en



Visit our ScriptRunner booth.

Let's talk automation
and grab some cool
swag.



“ScriptRunner is an excellent management, reporting, and auditing tool for controlling the use of PowerShell in corporate networks.”

4sysops.com/archives/scriptrunner-portal-edition-r5new-query-configuration-and-action-configuration/



4 sysops



AMA

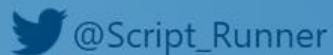
Ask Me Anything Session

SPECIAL GUEST
HARM VEENSTRA



With Heiko Brenn & Markus Hipp

Live: Friday, June 30th | 11 am EDT | 3 pm BST | 16:00 CEST



ScriptRunnerPowerShell



Let's get in touch



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