

A photograph of a rocket launching from a launch pad. The rocket is white with a dark nose cone and is positioned vertically in the center of the frame. A bright, white plume of smoke and fire erupts from its base, partially obscuring the launch pad. To the right of the rocket, a large, billowing plume of white smoke and steam rises into the sky. In the background, there are scattered clouds and a clear blue sky. On the far right, a tall metal tower with a white cylindrical tank at the top is visible, with the word "SPACEX" printed on it.

LEVEL-UP YOUR
POWERSHELL GAME

ABOUT ME



Head of International Business
North America | BeNeLux | Scandic

In the IT industry for 25+ years
IT Admin | Consultant | PM

PowerShell Enthusiast

First PowerShell experience:
Exchange 2007

Co-Founder of the PowerShell User
Group Rhein-Neckar



LET'S CONNECT



@HeikoBrenn
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+49

Headquarters
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2014

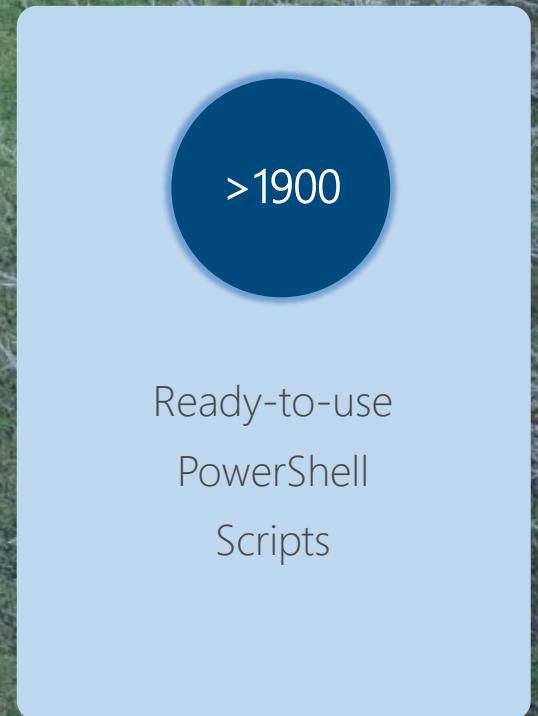
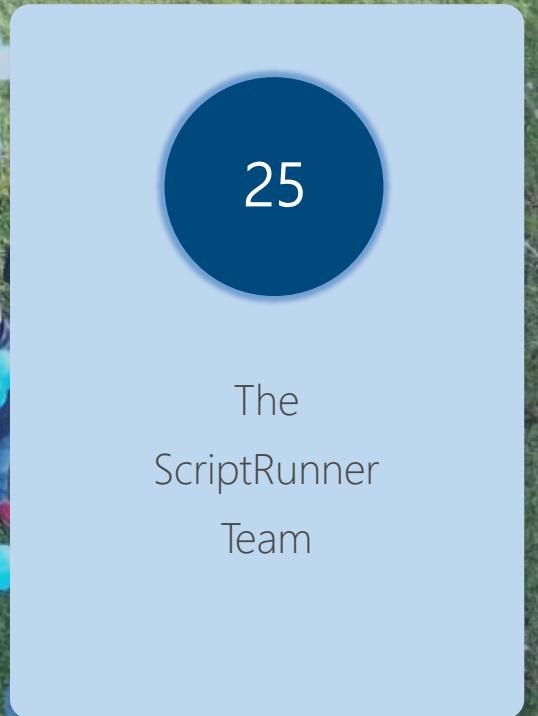
First
ScriptRunner
Release

25

The
ScriptRunner
Team

>1900

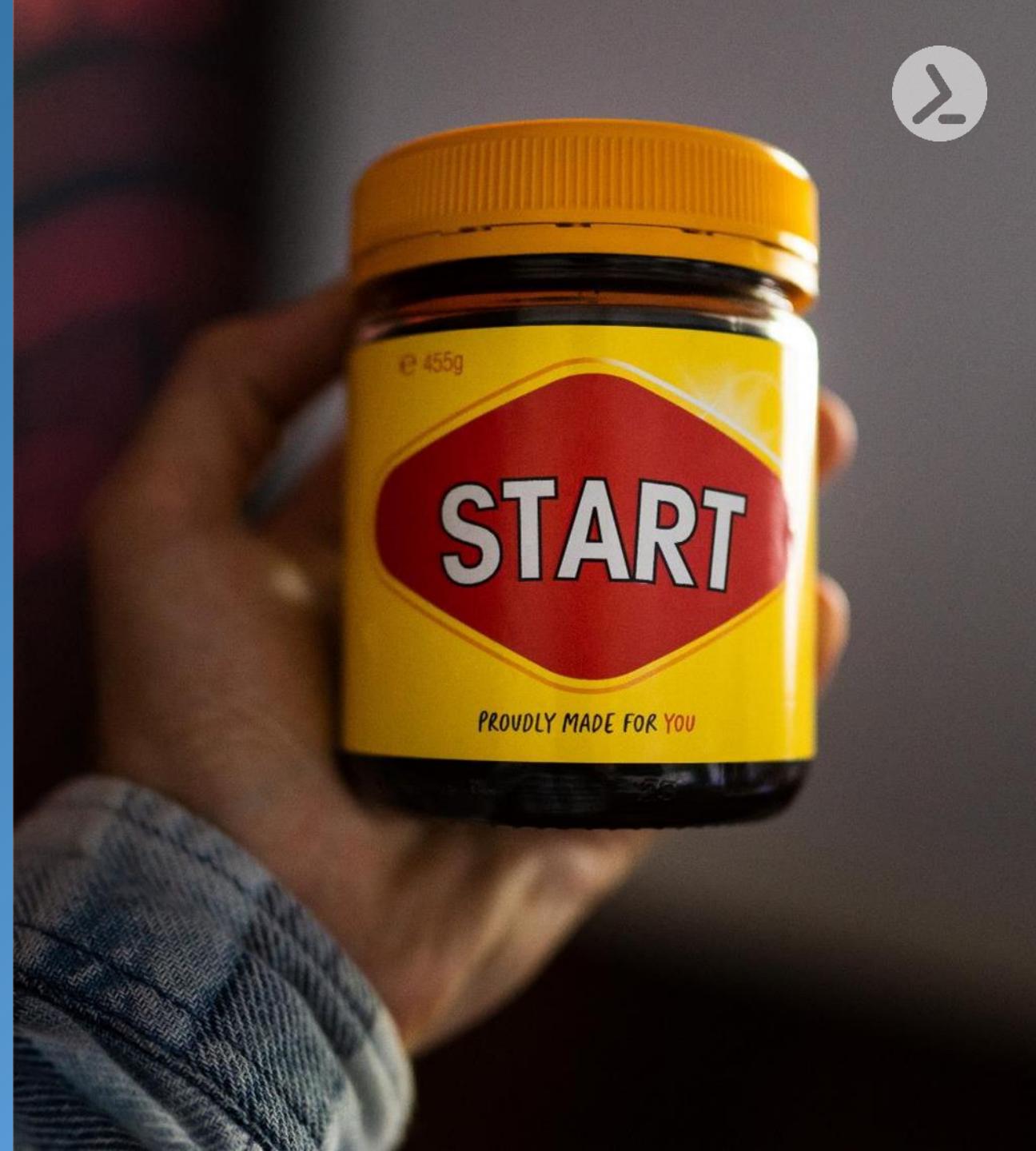
Ready-to-use
PowerShell
Scripts





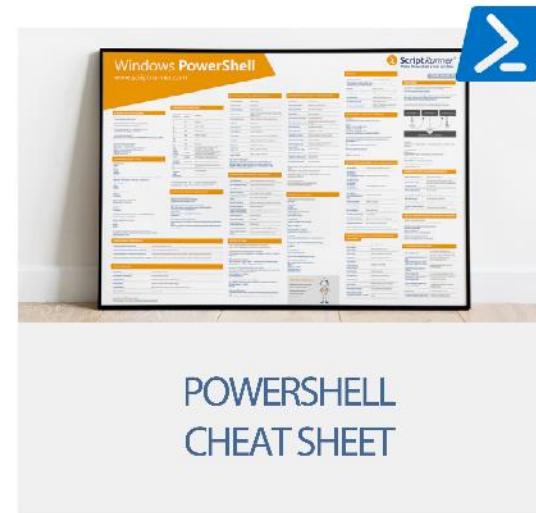
Hundreds of free
and ready-to-use
PowerShell scripts.

github.com/scriptrunner/ActionPacks



Get your free PowerShell goodies

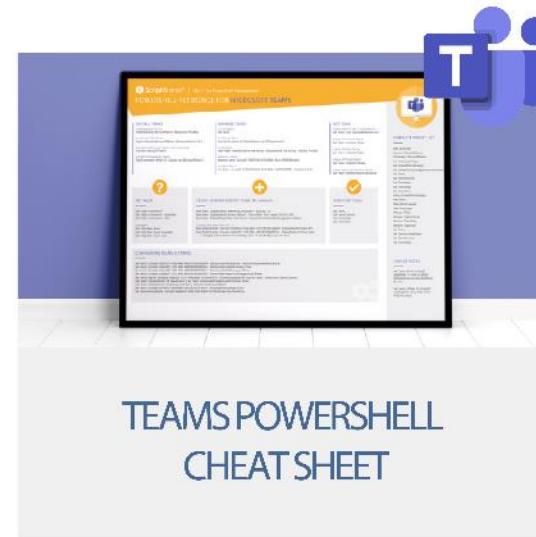
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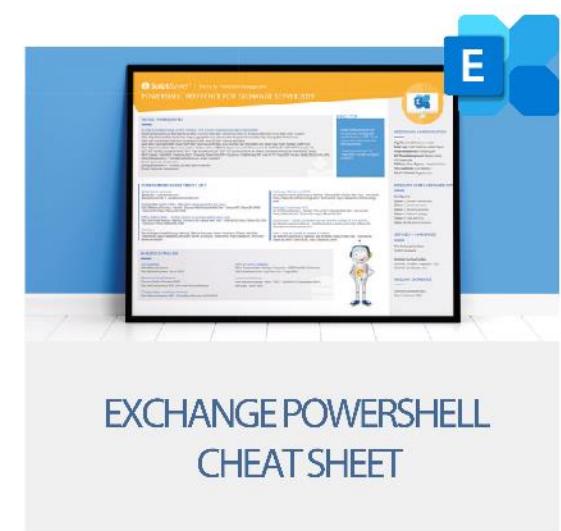
POWERSHELL
CHEAT SHEET



POWERSHELL SECURITY
EBOOK



TEAMS POWERSHELL
CHEAT SHEET



EXCHANGE POWERSHELL
CHEAT SHEET

TWO WAYS OF USING POWERSHELL





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



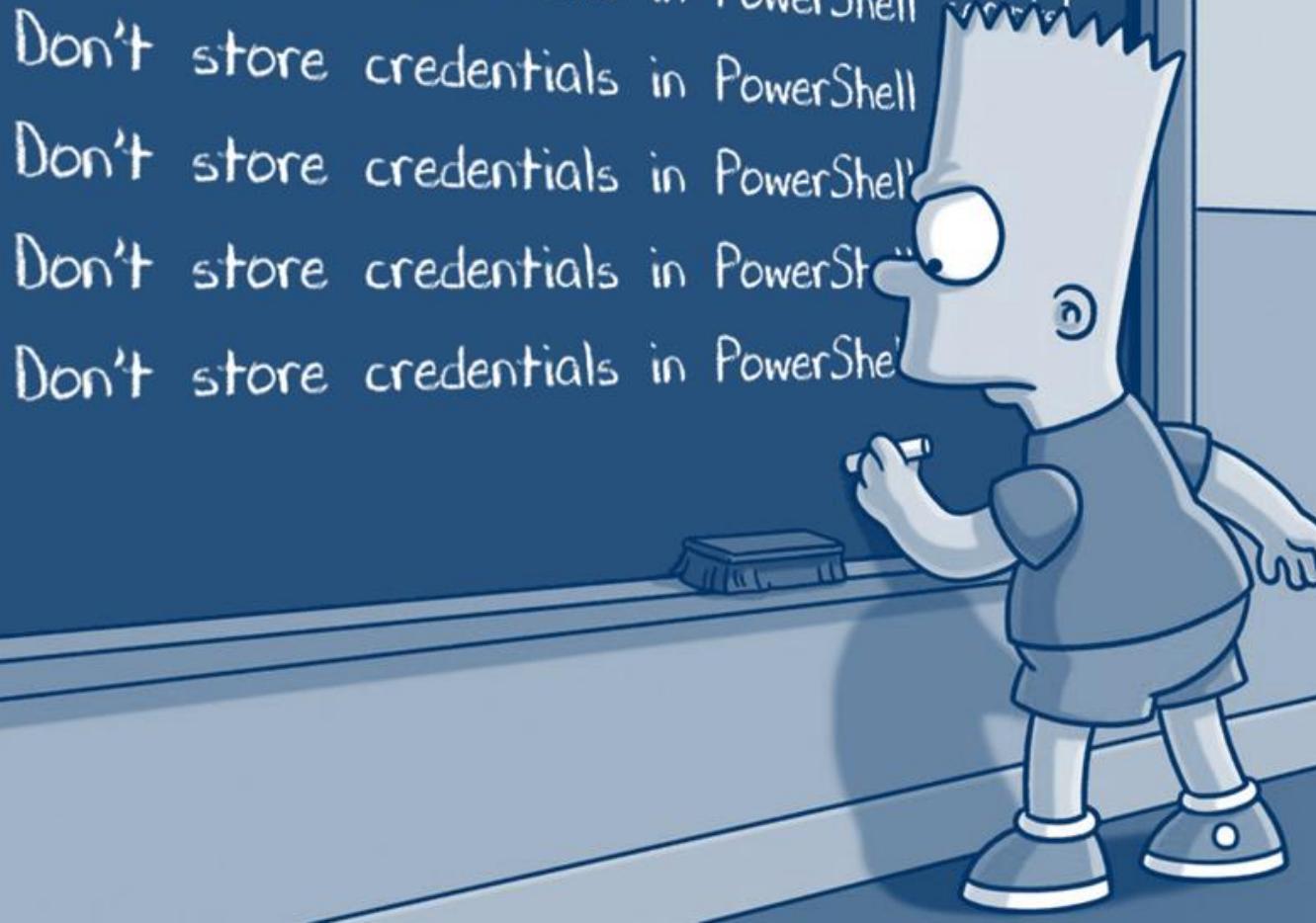
CENTRALIZED SCRIPT MANAGEMENT



The screenshot displays the ScriptRunner web application interface. On the left, a sidebar navigation includes: Dashboard, Run, Authorize & Delegate, Monitoring, Configuration (selected), Actions, Queries, Targets, Scripts (selected), Credentials, and Settings. The main content area shows a list of 9 out of 1282 scripts under the 'Scripts' tab. The list includes: Get-EOOutOfOffice.ps1, Set-EOOutOfOffice - Copy (2).ps1, Set-EOOutOfOffice - Copy.ps1, Set-EOOutOfOffice.ps1 (checked out by me), Set-EOOutOfOffice_orig.ps1, TeamsWithOutOwner-Scheduled.ps1, TeamsWithOutOwner.ps1, and Webinar_Set-ExOutOfOffice.ps1. A detailed view of the 'Set-EOOutOfOffice.ps1' script is open in the center-right. The view shows tabs for Configuration (General, Header information, Code editor - selected), Information (Change history, Used by), and a large code editor pane containing the following PowerShell script:

```
61 [datetime]$start Date,
62 [Parameter(Mandatory = $true, ParameterSetName="Schedule Auto Reply")]
63 [datetime]$endDate,
64 [Parameter(ParameterSetName="Disable Auto Reply")]
65 [Parameter(ParameterSetName="Enable Auto Reply")]
66 [Parameter(ParameterSetName="Schedule Auto Reply")]
67 [switch]$generateReport
68 )
69
70 try{
71     [string[]]$properties = @('Identity','AutoReplyState','StartTime','EndTime','ExternalAudience','')
72     [string[]]$resultMessage = @()
73     [string]$msg = "Mailbox {0} "
74     [string]$replyType = 'All'
75
76     [hashtable]$cmdArgs = @{
77         'ErrorAction' = 'Stop'
78         'Confirm' = $false
79     }
80
81     if($PSCmdlet.ParameterSetName -eq "Disable Auto Reply"){
82         $cmdArgs.add('AutoReplyState' , 'Disabled')
83         $msg += "disabled"
84     }
85     else{
86         if($AutoReplyType -eq 'Only contact list members'){
87             $replyType = 'Known'
88         }
89         if($AutoReplyType -eq 'Internal only'){
90             $replyType = 'None'
91         }
92     }
93
94     $script:cmdArgs = $cmdArgs
95     $script:msg = $msg
96     $script:replyType = $replyType
97
98     $script:properties | % {
99         $script:cmdArgs.add($_, $null)
100    }
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```

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



MATT GROENING

SECURE CREDENTIAL MANAGEMENT



Credentials Showing 23 of 23 Credentials

+ Create

Create credential x

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

AzureVM Credentials

Exchange Service Account

Exchange Service Account (Pleasant)

GitHub

Hyper-V Service Account

Microsoft Graph Target

MyActiveDirectory

O365 Tenant Service Account

Type Username Owner Tags

Search...

MS Graph Target 007

Save Run test Delete

Microsoft services

General

Microsoft services

Advanced settings

INFORMATION

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

The screenshot shows the 'Credentials' page of the ScriptRunner application. On the left, a sidebar lists various credential types: User credential or client secret, WinRM client certificate, Password server, PowerShell Secret Management, SSH key, AzureVM Credentials, Exchange Service Account, Exchange Service Account (Pleasant), GitHub, Hyper-V Service Account, Microsoft Graph Target, MyActiveDirectory, and O365 Tenant Service Account. The 'Microsoft Graph Target' credential is selected and expanded in a modal dialog on the right. The dialog title is 'MS Graph Target 007'. It contains tabs for 'Save', 'Run test', and 'Delete'. Under 'Microsoft services', the 'General' tab is selected. The 'Information' section shows the credential is used by 'Used by'. The 'Activation' section has a 'Activate service' button. The 'Microsoft Graph' section includes fields for 'Tenant ID' and 'Application ID', both of which are blurred. The 'Credential' section specifies 'Client secret' as the sign-in method. The 'PowerShell module' field contains 'Microsoft.Graph.Mail'. A note states 'Must be installed on the execution host'. At the bottom of the dialog is a 'Deactivate service' button.

PASSWORD SERVER SUPPORT



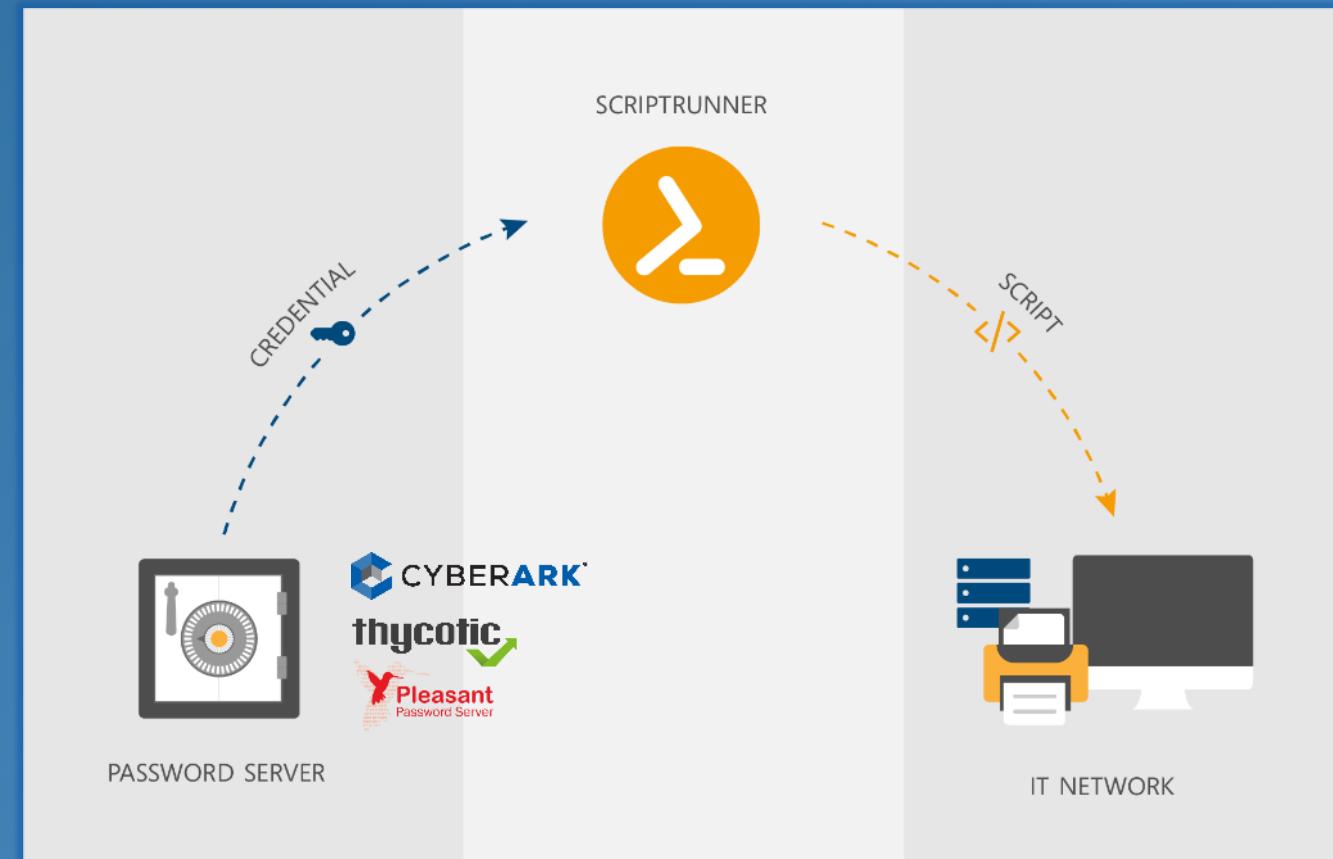
Connectors for CyberArk, Pleasant and Thycotic

No local credentials

Automatic password rotation

Single secure password repository in multi-server scenarios

Support for Azure KeyVault (planned)



SECURE DELEGATION



ScriptRunner executes scripts and connects to backend systems

No user access to backend systems, scripts, modules and credentials

Flexible and secure tasks delegation to help desk teams and end-users

Easy access via ScriptRunner Portal and Self-Service Portals

Complete separation of PowerShell environment and user context



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     $Script:resHtml = @()
133     foreach($item in $MailboxIds){
134         try{
135             $box = Get-Mailbox -Identity $item -ErrorAction Stop
136             if($null -ne $box){
137                 try{
138                     $null = Set-MailboxAutoReplyConfiguration @cmdArgs -Identity $item
139                     if($GenerateReport -eq $true){
140                         $Script:resHtml += Get-MailboxAutoReplyConfiguration -
141                         -Identity $item
142                     }
143                     $resultMessage += [System.String]::Format($msg,$box.UserPr
144
145                 }
146                 catch{
147                     Write-Output "Error occurred at set Mailbox $($item)"
148                 }
149             }
150             catch{
151                 Write-Output "Error occurred at get Mailbox $($item)"
152             }
153         }
154     }
155
PS C:\Users\administrator.COMPANY>
Completed Ln 1 Col 36 120%
```

OutOfOffice

Create OOF Notifications With ScriptRunner Integration

Note the reason you run this action now.

Please select mailbox(es):

Search...

Angus Young Shania Twain Phil Collins

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

FLEXIBLE ROLE-BASED DELEGATION



The screenshot shows the ScriptRunner Active Directory Self-Services interface. The left sidebar has a 'Authorize & Delegate' section selected. The main content area shows the 'Delegations' tab under 'CONFIGURATION'. The 'Delegations' section lists several actions assigned to the user:

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

Below this, there is a list of local actions:

- Local: Add two values
- AD: Show Active Directory User Properties (Get-ADUser) (highlighted in orange)
- Simulate Set-ADUserPropertiesDemo
- Test-Cascaded ADQueries
- Get-ExMailboxProperties
- Remove-PrintJob
- Validation possibilities

A message at the bottom right says 'Press enter to remove'.

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:
```

Action or scripted query Started Target Runtime Started by Server

Simple Active Directory Report a few seconds ago AD local Running... COMPANY\tina ScriptRunner

Actions: 2
Scheduled: 1
Queued: 0
Queries: 1

Filter by servers...

UNLOCK THE POWER OF POWERSHELL ACROSS YOUR ORGANIZATION



Manager

Consistent processes
Better quality
Saving costs

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





Minicon
SPONSORS

24.10.23

ScriptRunner Meetup



ScriptRunner®

The #1 for PowerShell Management

Room
Breakout room 2

Time
8pm GMT+2



AMA

Ask Me Anything Session

SPECIAL GUEST
ADAM BERTRAM

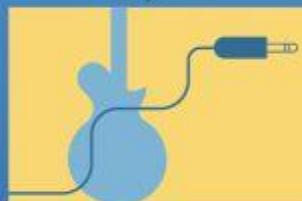


With Heiko Brenn & Markus Hipp

Live: Thursday, October 26th | 10 am EDT | 3 pm BST | 16:00 CEST



ScriptRunnerPowerShell





5. Virtual Meetup 2023

PSUG RHEIN NECKAR

15. November, 18:00 Uhr

November 15th, 18:00 CET | 5 pm GMT | 12 pm EST



Gael Colas

Microsoft MVP
PSConfEU Organizer
Cloud Automation Architect
DSC Community Leader

PowerShell,
MS SQL and T-SQL:
Simple CRUD for PowerShell



THANK YOU FOR ATTENDING

#KeepOnScripting

CONTROL UI WITH SCRIPTRUNNER SPECIFIC ATTRIBUTES



Parameter attribute	Result in ScriptRunner Action
[Parameter(Position=<numeric_value>)]	Displays a parameter at the defined position
[Parameter(HelpMessage="ASRDisplay(Checkbox)")]	Displays \$true/\$false as a checkbox
[... ="ASRDisplay(FromFile)"]	Displays a drop zone to upload files (csv,txt,json)
[... ="ASRDisplay(Multiline)"]	Allows multiline text as input
[... ="ASRDisplay(ReadOnly)"]	Displays information in a greyed-out read-only field
[... ="ASRDisplay(Splatting)"]	JSON output is assigned to the PowerShell parameters with the same name. A hash table for parameters can be used.
[... ="ASRDisplay>Password)"]	Hides input

More information: <https://support.scriptrunner.com/articles/#!coding/no-code-ui>