

Active Directory Management with PowerShell and ScriptRunner

Automate. Delegate. Relax.

Heiko Brenn  @heikobrenn





ScriptRunner[®]

The #1 for PowerShell Management

Unlock the Power of PowerShell

+49

2014

24

1819

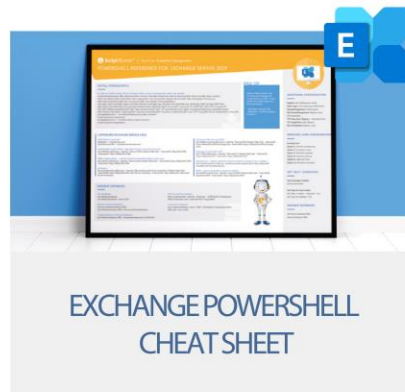
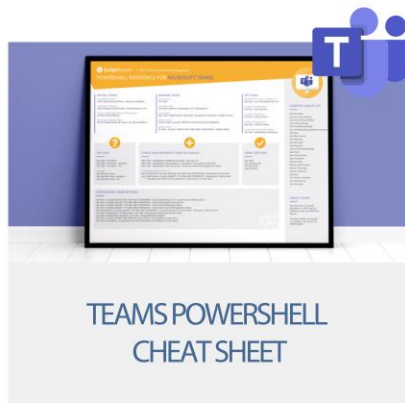
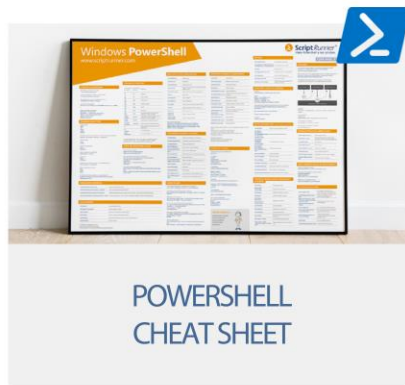
Hundreds of free
and ready-to-use
PowerShell scripts.

github.com/scriptrunner/ActionPacks



Get your free PowerShell goodies

ip.scriptrunner.com/en/powershell-goodies



Let's get in touch



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@HeikoBrenn



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Github.com/HeikoBrenn



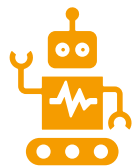
[Heiko's music channel](#)





STANDARDIZATION, AUTOMATION AND
DELEGATION OF RECURRING TASKS

AUTO-CREATED
USER FRIENDLY
WEB FORMS



INTERACTIVE, SCHEDULED
AND EVENT-DRIVEN
SCRIPT EXECUTION



SECURE
CREDENTIAL
ADMINISTRATION



COMPREHENSIVE
MONITORING AND
REPORTING



CENTRALIZED SCRIPTS AND
MODULES MANAGEMENT

Centralized script and module management



The screenshot displays the ScriptRunner web application interface. The top navigation bar includes the ScriptRunner logo, a user profile dropdown for 'COMPANY\Administrator(Kerberos)', and a search bar. The left sidebar contains a menu with options: Dashboard, Run, Authorize & Delegate, Monitoring, Configuration (selected), Actions, Queries, Targets, Scripts (highlighted), and Credentials. The main content area is titled 'Scripts' and shows a list of 9 of 1282 scripts. The selected script is 'Set-EOOutOfOffice.ps1', which is checked out by the user. The right pane shows the 'Code editor' for this script, displaying PowerShell code for setting out-of-office parameters and generating a report. The code includes comments in Spanish and logic for handling different reply types and auto-reply states.

Scripts Showing 9 of 1282 Scripts

Set-EOOutOfOffice.ps1 Checked out by me

CONFIGURATION

- General
- Header information
- Code editor**

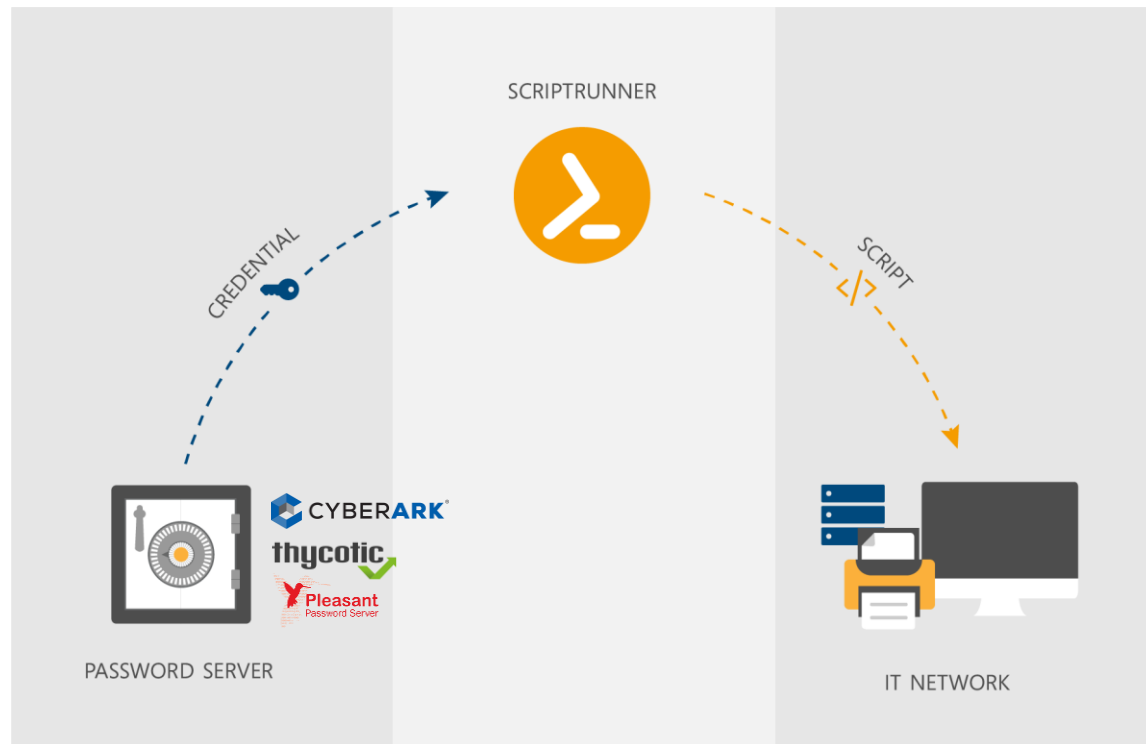
INFORMATION

- Change history
- Used by

Code editor

```
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]$GenerateReport
68 }
69
70
71 try{
72 [string[]]$Properties = @('Identity', 'AutoReplyState', 'StartTime', 'EndTime', 'ExternalAudience',
73 [string[]]$ResultMessage = @()
74 [string]$msg = "Mailbox {0}"
75 [string]$replyType = 'All'
76
77 [hashtable]$CmdArgs = @{
78     'ErrorAction' = 'Stop'
79     'Confirm' = $false
80 }
81
82 if($PSCmdlet.ParameterSetName -eq "Disable Auto Reply"){
83     $CmdArgs.add('AutoReplyState', 'Disabled')
84     $msg += "disabled"
85 }
86 else{
87     if($AutoReplyType -eq 'Only contact list members'){
88         $replyType = 'Known'
89     }
90     if($AutoReplyType -eq 'Internal only'){
91         $replyType = 'None'
92     }
93 }
```

- 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

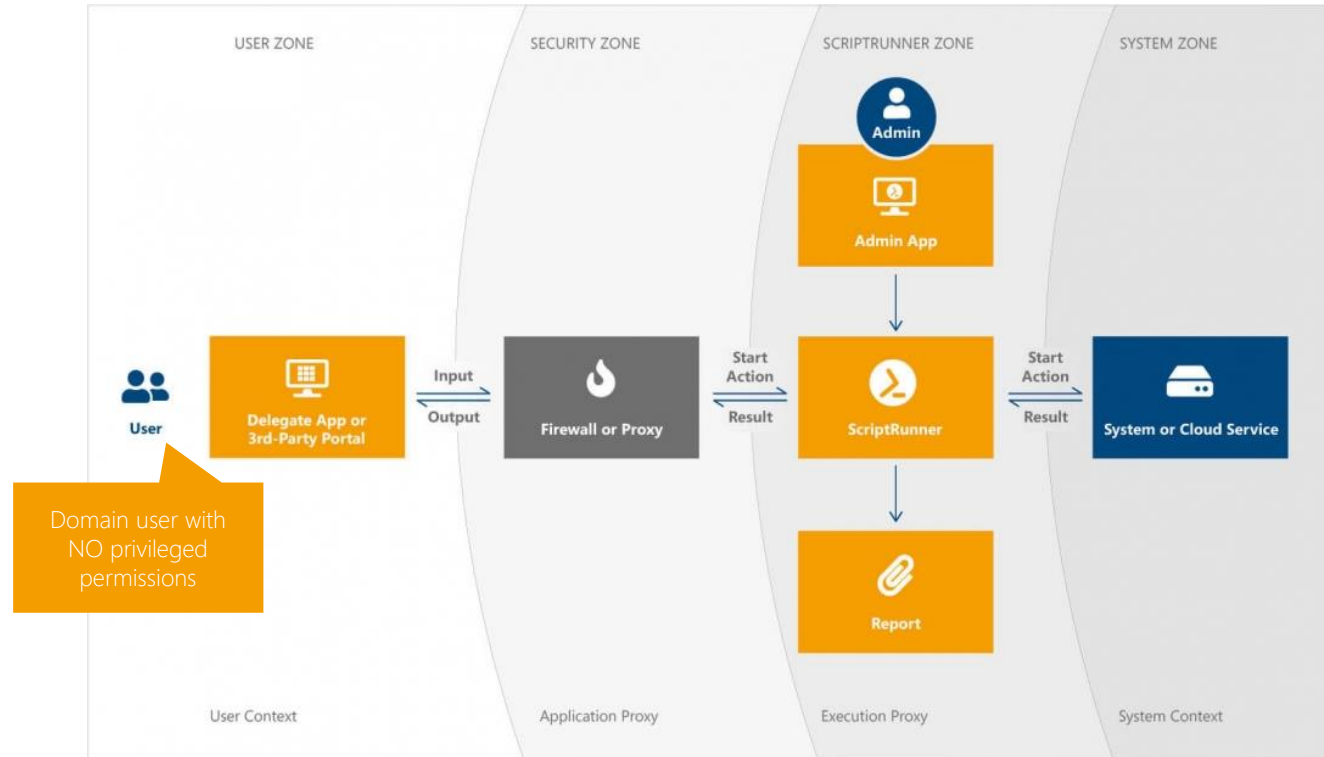


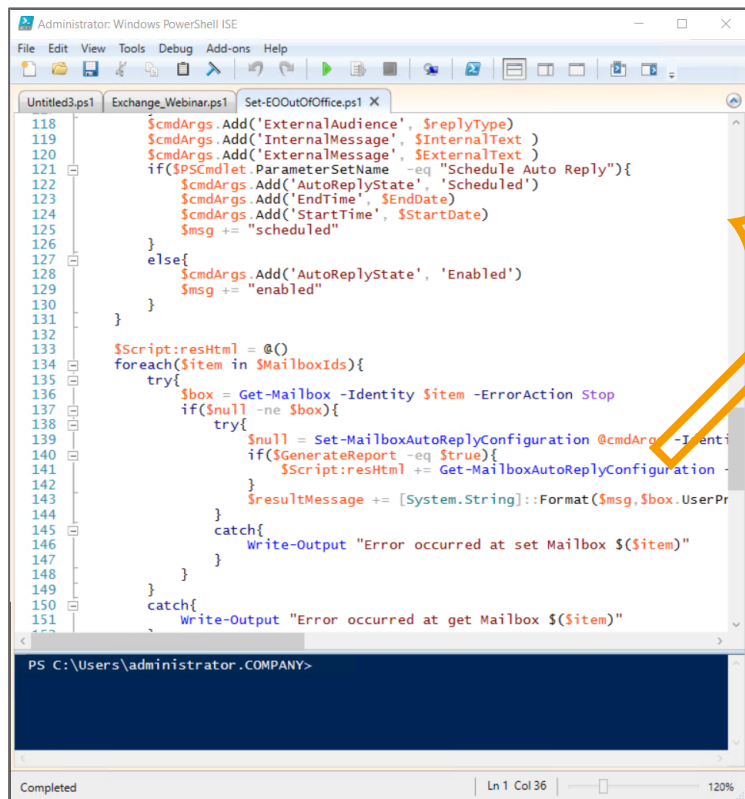
Don't store credentials in PowerShell scripts!
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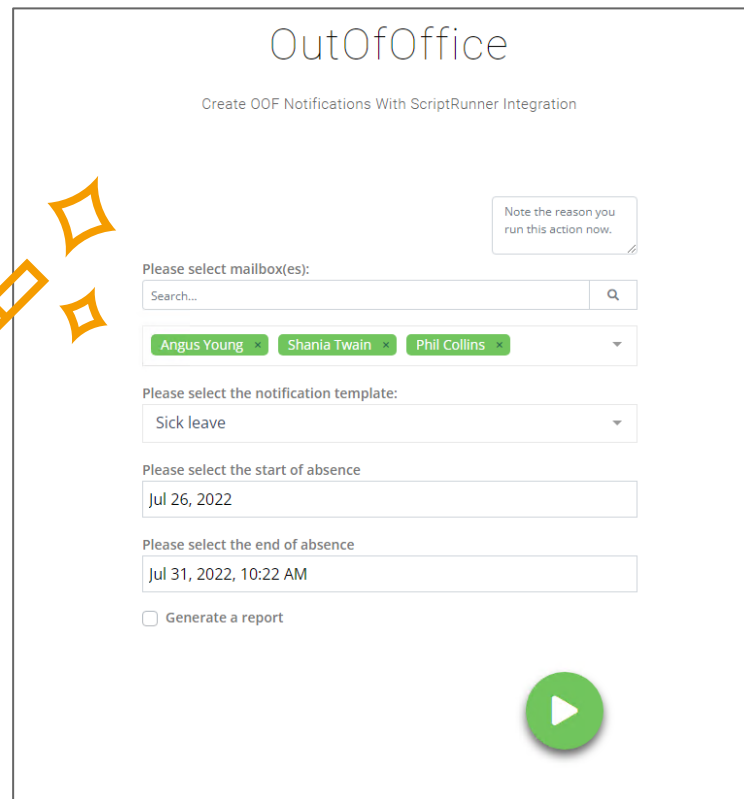
MATT GROENING

ScriptRunner – Secure Delegation





```
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 -Mailbox $box
142                     $resultMessage += [System.String]::Format($msg,$box.UserPrincipalName)
143                 }
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 }
154
155 PS C:\Users\administrator.COMPANY>
```



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

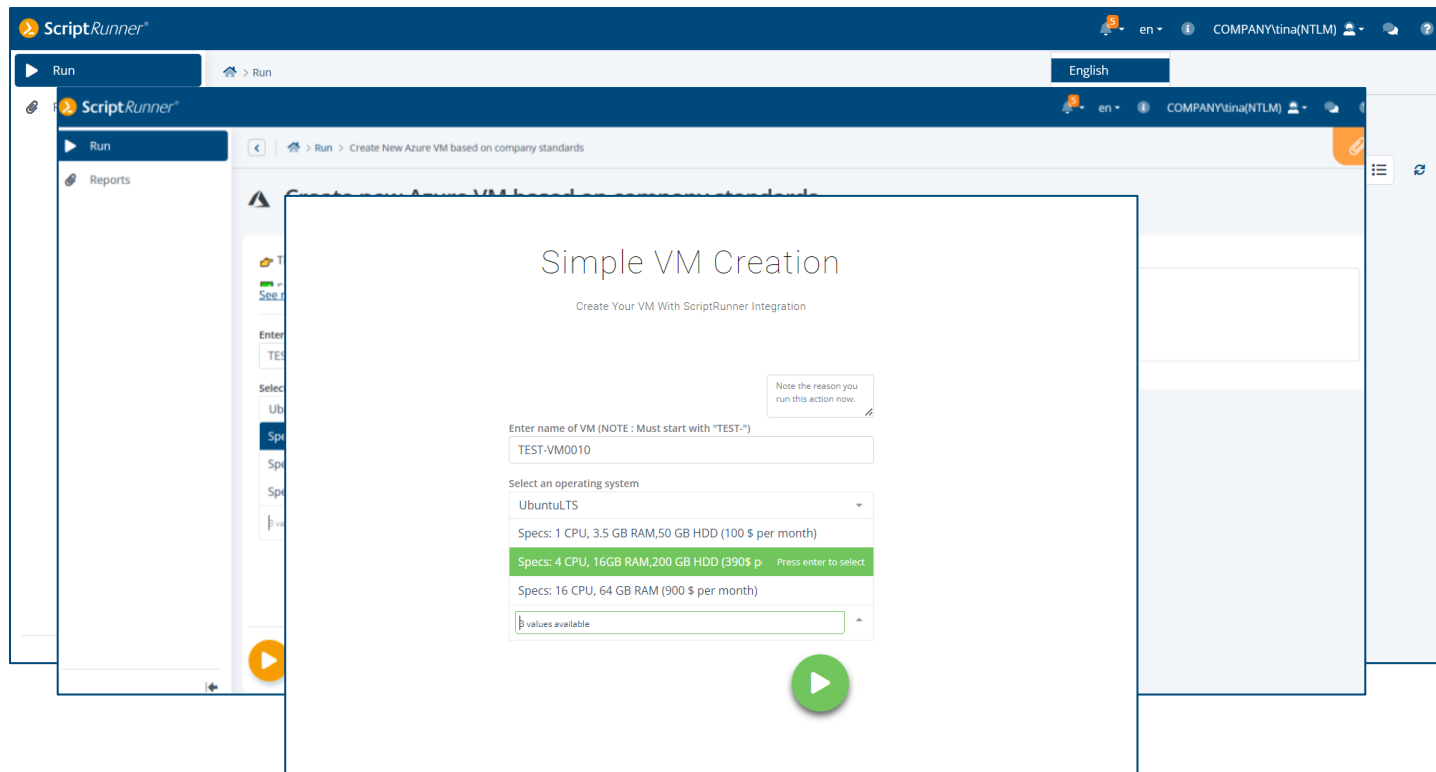
Please select the end of absence

Jul 31, 2022, 10:22 AM

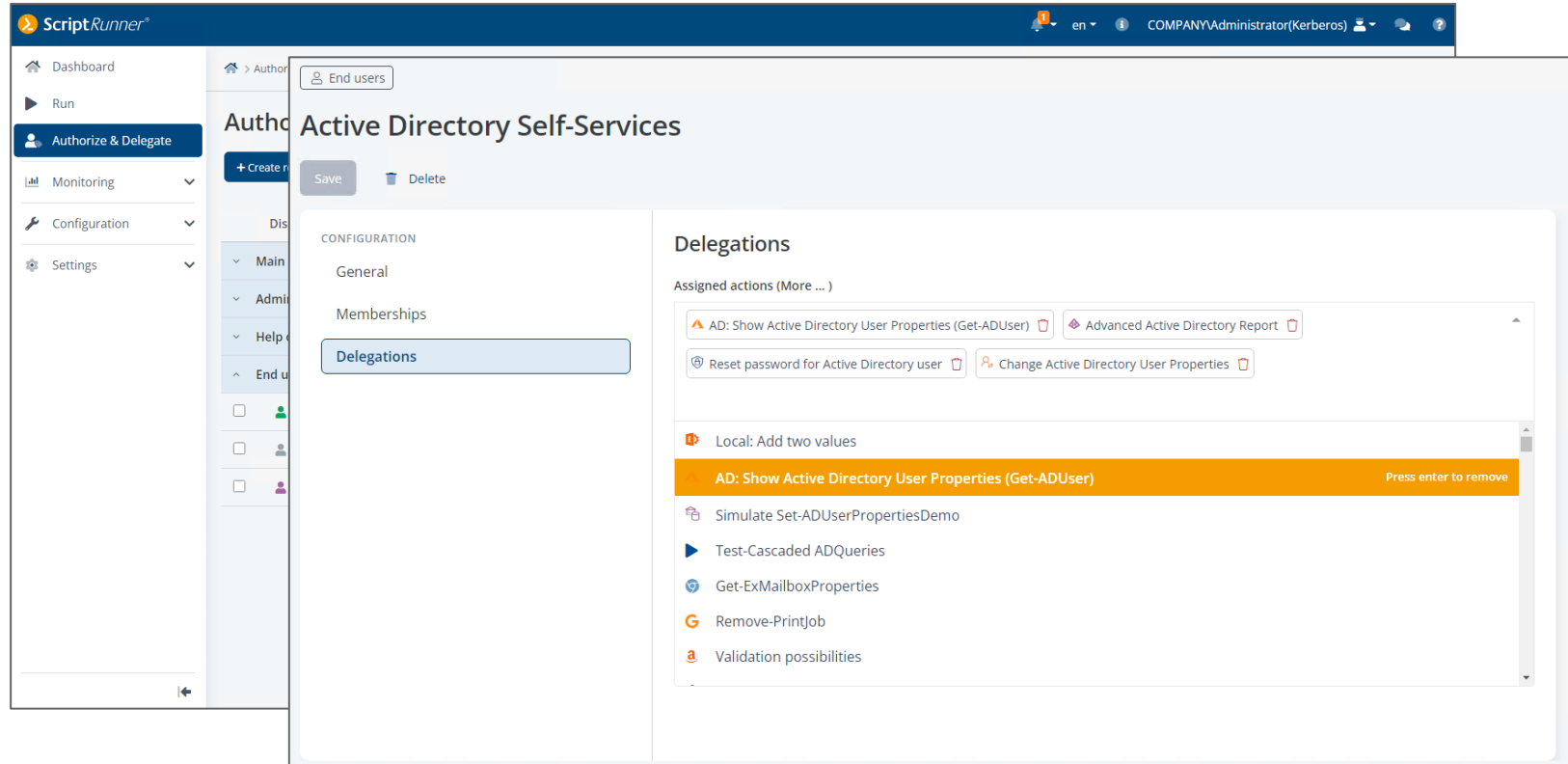
☐ Generate a report

Play button

Great User Experience



Flexible & secure delegation

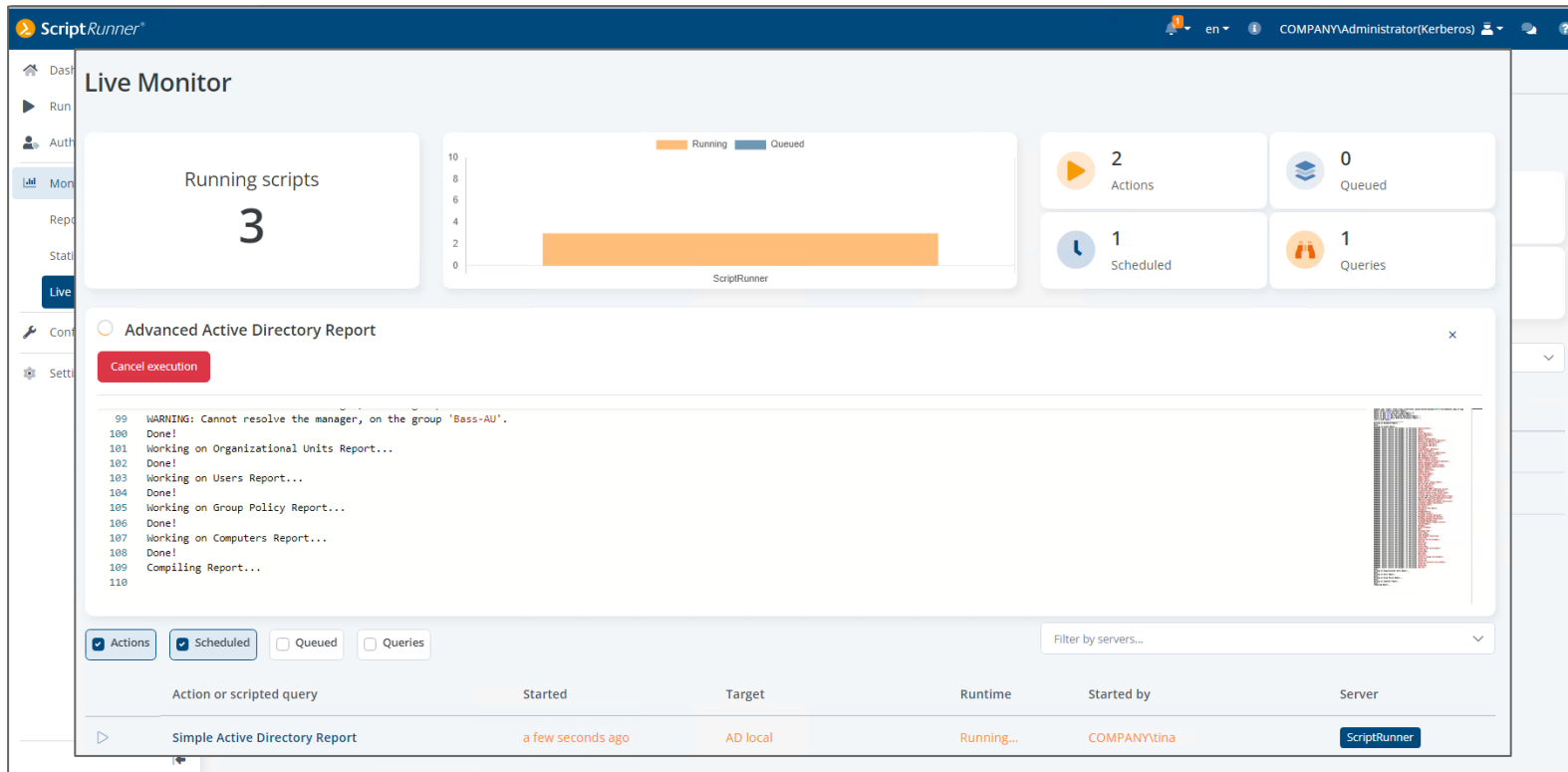


The screenshot displays the ScriptRunner web interface. The top navigation bar includes the ScriptRunner logo, a language dropdown set to 'en', and a user profile for 'COMPANY\Administrator(Kerberos)'. The left sidebar contains a menu with 'Dashboard', 'Run', 'Authorize & Delegate' (highlighted), 'Monitoring', 'Configuration', and 'Settings'. The main content area is titled 'Active Directory Self-Services' and features a 'Delegations' tab. Under the 'Delegations' tab, there is a list of 'Assigned actions (More ...)' including:

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

The interface also shows a 'CONFIGURATION' section with tabs for 'General', 'Memberships', and 'Delegations' (selected). A 'Save' button and a 'Delete' button are visible at the top of the configuration area.

Comprehensive monitoring and reporting



Put ScriptRunner
to the test.
30 days for free.

lp.scriptrunner.com/en/demo-download



Let's talk about your
automation use cases.
Book a 30 minutes
online session.

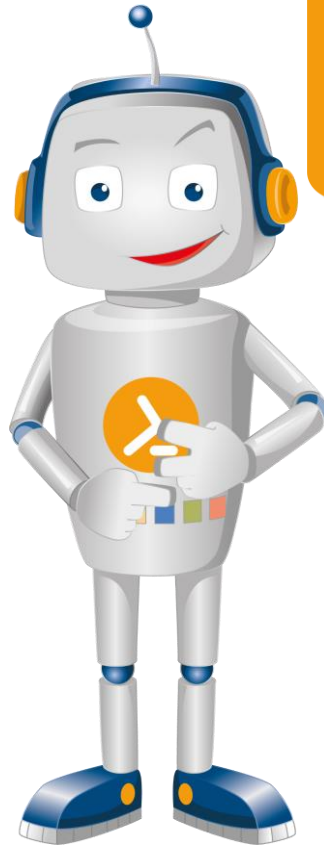
[lp.scriptrunner.com/meetings/heiko-
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Thank you!

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