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1 #Disable-ExchangeForwardingRule.ps1
2 #Written by: Jeff Brusoe
3 #Last Updated: October 7, 2020
4 #
5 #The purpose of this file is to disable all Exchange forwarding rules except for
6 #forwards to the HSC and allowed exclusions.
7
8 [CmdletBinding()]
9 param ()
10
11 $Error.Clear()
12
13 try {
14     Set-HSCEnvironment -ErrorAction Stop
15     Connect-HSCExchangeOnline -ErrorAction Stop
16 }
17 catch {
18     Write-Warning "Unable to configure HSC environment. Program is exiting."
19     Invoke-HSCExitCommand
20 }
21
22 $MailboxCount = 0
23 Write-Output "Reading exclusion lists"
24
25 try {
26     $ExclusionList1 = Import-Csv ExclusionList1.csv
27     $ExclusionList2 = Import-Csv ExclusionList2.csv
28 }
29 catch {
30     Write-Warning "Unable to read HSC exclusion lists. Program is exiting"
31     Invoke-HSCExitCommand -ErrorCount $Error.Count
32 }
33
34 #Forwarding rule log files
35 try {
36     $ForwardingRuleLogFile = (Get-Date -format yyyy-MM-dd-HH-mm) + "-
ExchangeForwardingFules.txt"
37     New-Item -Name $ForwardingRuleLogFile -Path "$PSScriptRoot\Logs\" -Force -type
file -ErrorAction Stop
38     Add-Content -Path "$PSScriptRoot\Logs\$ForwardingRuleLogFile" -Value
"PrimarySMTPAddress,RuleName,RuleForwardTo" -ErrorAction Stop
39 }
40 catch {
41     Write-Warning "Unable to generate forwarding rule log"
42 }
43
44
45 try {
46     Write-Output "Getting mailbox list"
47
48     $Mailboxes = Get-Mailbox -ResultSize Unlimited -ErrorAction Stop |
49     Where-Object {$_.PrimarySMTPAddress -notlike "*rni.*" -AND
$_.PrimarySMTPAddress -notlike "*wvurni*"}
50
51     if ((Get-Date).Day % 2 -eq 0) {
52         $Mailboxes | Sort-Object -Descending
53     }
54 }
55 }
56 catch {
```

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57 Write-Warning "Unable to generate list of HSC mailboxes"
58 Invoke-HSCExitCommand
59 }
60
61 Write-Output "Processing Mailboxes"
62 $RuleDeletes = 0
63
64 foreach ($Mailbox in $Mailboxes)
65 {
66
67     $MailboxCount++
68     Write-Output "Mailbox Count: $MailboxCount"
69     Write-Output $("Primary SMTP Address: " + $Mailbox.PrimarySMTPAddress)
70
71     try {
72         $Rules = Get-InboxRule -Mailbox $Mailbox.PrimarySMTPAddress -ErrorAction Stop
73     }
74     catch {
75         Write-Warning "Unable to get list of rules for this mailbox"
76     }
77
78     Write-Output $("Rule Count: " + $Rules.Count)
79
80     foreach ($Rule in $Rules)
81     {
82         Write-Output $("Rule Name: " + $Rule.Name)
83         Write-Output $("Rule Description: " + $Rule.Description)
84         Write-Output "Rule Deletes: $RuleDeletes"
85
86         if (($ExclusionList1.RuleName -contains $Rule.Name) -AND
($ExclusionList1.Mailbox -contains $Mailbox.PrimarySMTPAddress))
87         {
88             Write-Output "Rule is in ExclusionList1 and is being skipped"
89         }
90         elseif ($ExclusionList2.PrimarySMTPAddress -contains
($Mailbox.PrimarySMTPAddress) -AND (($ExclusionList2.ForwardingAddress -contains
$rule.ForwardTo) -OR ($ExclusionList2.ForwardingSmtpoAddress -contains
$rule.ForwardTo)))
91         {
92             Write-Output "Rule is excluded based on exclusion list 2"
93         }
94         elseif (![string]::IsNullOrEmpty($rule.ForwardTo))
95         {
96             Write-Output $("Forward To: " + $rule.ForwardTo)
97             Add-Content -Path "$PSScriptRoot\Logs\$ForwardingRuleLogFile" -Value
$("mailbox.PrimarySMTPAddress + "," + $rule.Name + "," + $rule.ForwardTo)
98
99             [string]$ForwardTo = ($rule.ForwardTo -split " ") -like "*smtp*"
100             Write-Output $("ForwardTo[1]: " + $ForwardTo)
101
102             if (($ForwardTo.IndexOf("@") -gt 0) -AND ($ForwardTo.IndexOf("hsc.wvu.edu") -
lt 0))
103             {
104                 Write-Output "Rule will be deleted"
105
106                 try {
107                     Remove-InboxRule -Identity $Rule.Identity -Confirm:$false -ErrorAction
Stop
108                     Write-Output "Successfully deleted rule."
109

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110         $RuleDeletes++
111
112         Write-Output "Rule Deletes: $RuleDeletes"
113     }
114     catch {
115         Write-Output "Error removing forwarding rule"
116         #Invoke-HSCExitCommand
117     }
118 }
119 else
120 {
121     Write-Output "Rule will not be deleted"
122 }
123 }
124 else {
125     Write-Output "Rule is not a forwarding rule"
126 }
127
128     Write-Output "-----"
129 }
130
131 Write-Output "*****"
132 }
133
134 Invoke-HSCExitCommand
```