

```
1 #Disable-ForwardingRule.ps1
2 #Written by: Jeff Brusoe
3 #Last Updated: August 12, 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
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 try {
45     Write-Output "Getting mailbox list"
46     $Mailboxes = Get-EXOMailbox -ResultSize Unlimited
47 }
48 catch {
49     Write-Warning "Unable to generate list of HSC mailboxes"
50     Invoke-HSCExitCommand
51 }
52
53 Write-Output "Processing Mailboxes"
54 foreach ($Mailbox in $Mailboxes)
55 {
56     $MailboxCount++
57     Write-Output "Mailbox Count: $MailboxCount"
```

```
58 Write-Output $("Primary SMTP Address: " + $Mailbox.PrimarySMTPAddress)
59
60 try {
61     $Rules = Get-InboxRule -Mailbox $Mailbox.PrimarySMTPAddress -ErrorAction Stop
62 }
63 catch {
64     Write-Warning "Unable to get list of rules for this mailbox"
65 }
66
67 Write-Output $("Rule Count: " + $Rules.Count)
68
69 foreach ($Rule in $Rules)
70 {
71     Write-Output $("Rule Name: " + $Rule.Name)
72     Write-Output $("Rule Description: " + $Rule.Description)
73
74     if (($ExclusionList1.RuleName -contains $Rule.Name) -AND
75 ($ExclusionList1.Mailbox -contains $Mailbox.PrimarySMTPAddress))
76     {
77         Write-Output "Rule is in ExclusionList1 and is being skipped"
78     }
79     elseif ($ExclusionList2.PrimarySMTPAddress -contains
80 ($Mailbox.PrimarySMTPAddress) -AND (($ExclusionList2.ForwardingAddress -contains
81 $rule.ForwardTo) -OR ($ExclusionList2.ForwardingSmtptAddress -contains
82 $rule.ForwardTo)))
83     {
84         Write-Output "Rule is excluded based on exclusion list 2"
85     }
86     elseif (![string]::IsNullOrEmpty($rule.ForwardTo))
87     {
88         Write-Output $("ForwardTo: " + $rule.ForwardTo)
89         Add-Content -Path "$PSScriptRoot\Logs\$ForwardingRuleLogFile" -Value
90 $($mailbox.PrimarySMTPAddress + "," + $rule.Name + "," + $rule.ForwardTo)
91
92         if (($rule.ForwardTo.indexOf("@") -gt 0) -AND
93 ($rule.ForwardTo.indexOf("@hsc.wvu.edu") -lt 0))
94         {
95             Write-Output "Rule will be deleted"
96             try {
97                 $Rule | Remove-InboxRule -ErrorAction Stop
98             }
99             catch {
100                 Write-Warning "Error removing forwarding rule"
101             }
102         }
103         else {
104             Write-Output "Rule is not a forwarding rule"
105         }
106     }
107
108     Write-Output "-----"
109 }
110
111 Write-Output "*****"
112 }
113
114 Invoke-HSCEExitCommand
```