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1  #Update-AddressList.ps1
2  #Written by: Jeff Brusoe
3  #Last Updated: April 28, 2020
4
5  [CmdletBinding()]
6  param (
7      #Common HSC PowerShell Parameters
8      [switch]$NoSessionTranscript,
9      [string]$LogFilePath = "$PSScriptRoot\Logs",
10     [switch]$StopOnError, #true is used for testing purposes
11     [int]$DaysToKeepLogFiles = 5 #this value used to clean old log files
12 )
13
14 $Error.Clear()
15 Clear-Host
16 Set-StrictMode -Version Latest
17
18 ##$SessionTranscriptFile = "$PSScriptRoot\Logs\" + (Get-Date -Format yyyy-MM-dd-HH-mm)
19 + "-SessionTranscript.txt"
20 ##Start-Transcript $SessionTranscriptFile
21
22 #####
23 # Build path to HSC PowerShell Modules #
24 #####
25
26 $PathToHSCPowerShellModules = $PSScriptRoot
27 $PathToHSCPowerShellModules =
28 $PathToHSCPowerShellModules.substring(0,$PathToHSCPowerShellModules.lastIndexOf("\")+1)
29 $PathToHSCPowerShellModules += "HSC-PowerShell-Modules"
30 Write-Output $PathToHSCPowerShellModules
31
32 #Attempt to load common code module
33 $CommonCodeModule = $PathToHSCPowerShellModules + "\HSC-CommonCodeModule.psm1"
34 Write-Output "Path to common code module: $CommonCodeModule"
35 Import-Module $CommonCodeModule -Force -ArgumentList
36 $NoSessionTranscript,$LogFilePath,$true,$DaysToKeepLogFiles
37
38 #Attempt to load HSC Office 365 Module
39 $Office365Module = $PathToHSCPowerShellModules + "\HSC-Office365Module.psm1"
40 Write-Output "Path to HSC Office 365 module: $Office365Module"
41 Import-Module $Office365Module -Force
42
43 if ($Error.Count -gt 0)
44 {
45     #This would imply an error loading the HSC PS modules.
46     Write-Warning "Error loading HSC PowerShell modules. Program is exiting."
47     Stop-Transcript
48     return
49 }
50
51 #####
52 # End of block to load HSC PowerShell Modules #
53 #####
54
55 #####
56 #Configure environment block#
57 #####
58 Write-Output "Getting Parameter Information"
59 Get-Parameter -ParameterList $PSBoundParameters #Here for logging purposes
60
61 Set-Environment
62 Set-WindowTitle
63
64 #See this page to understand what is going on here.
65 #https://www.thecloudjournal.net/2016/07/create-your-own-powershell-module-for-exchange-online/
66 ConnectTo-Office365 #from Office 365 module

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64 Import-Module ExchangeOnline -Force #comes from HSC-Office365Module.psm1
65
66 #####
67 #End of environment configuration block#
68 #####
69
70 #Attempting to set contact information
71 Function Set-HSCMailContact
72 {
73     Write-Output "`n`nConfiguring Mail Contacts"
74
75     try
76     {
77         Write-Output "Generating list of mail contacts"
78         $Contacts = Get-Contact -ResultSize Unlimited -ErrorAction Stop #| Select
79         -First 100
80     }
81     catch
82     {
83         Write-Warning "Unable to generate list of contacts"
84         $Contacts = $null
85     }
86
87     $ContactCount = 0
88     foreach ($Contact in $Contacts)
89     {
90         Write-Output $("Current Contact: " + $Contact.WindowsEmailAddress)
91         Write-Output $("Current Simple Display Name: " + $Contact.SimpleDisplayName)
92         Write-Output "Contact Count: $ContactCount"
93         $ContactCount++
94
95         try
96         {
97             $Contact | Set-Contact -SimpleDisplayName $Contact.SimpleDisplayName
98             -ErrorAction Stop
99             Write-Output "Successfully updated contact"
100         }
101         catch
102         {
103             Write-Warning "Error attempting to set mail contact. Trying again."
104
105             try
106             {
107                 Set-Contact -Identity $Contact.WindowsEmailAddress -SimpleDisplayName
108                 $Contact.SimpleDisplayName -ErrorAction Stop
109                 Write-Output "Successfully updated contact"
110             }
111             catch
112             {
113                 Write-Error "Unable to set mail contact"
114
115                 if ($StopOnError)
116                 {
117                     return
118                 }
119             }
120         }
121
122         Write-Output "*****"
123     }
124
125     Write-Output "Done setting mail contacts"
126 } #End mail contact function
127
128 Function Set-HSCMailbox
129 {

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128 Write-Output "`n`nConfiguring Mailboxes"
129
130 try
131 {
132     Write-Output "Generating list of mailboxes"
133     $Mailboxes = Get-Mailbox -ResultSize Unlimited -ErrorAction Stop #| select
134         -first 100
135 }
136 catch
137 {
138     Write-Warning "Unable to generate list of mailboxes"
139     $Mailboxes = $null
140 }
141 $MailboxCount = 0
142 foreach ($Mailbox in $Mailboxes)
143 {
144     Write-Output $( "Current Mailbox: " +$Mailbox.PrimarySMTPAddress)
145     Write-Output "Mailbox Count: $MailboxCount"
146     $MailboxCount++
147
148     try
149     {
150         $Mailbox | Set-Mailbox -ApplyMandatoryProperties -ErrorAction Stop
151         Write-Output "Successfully updated mailbox"
152     }
153     catch
154     {
155         Write-Warning "Error attempting to set mailbox. Trying again."
156
157         try
158         {
159             Set-Mailbox -Identity $Mailbox.PrimarySMTPAddress
160             -ApplyMandatoryProperties -ErrorAction Stop
161             Write-Output "Successfully updated mailbox"
162         }
163         catch
164         {
165             Write-Error "Unable to set mailbox"
166
167             if ($StopOnError)
168             {
169                 return
170             }
171         }
172     }
173
174     Write-Output "*****"
175 } #End set mailbox function
176
177 Function Set-HSCMailUser
178 {
179     Write-Output "`n`nSetting properties for mail users"
180     try
181     {
182         Write-Output "Generatng list of mail users"
183         $MailUsers = Get-MailUser -Resultsize Unlimited -ErrorAction Stop #| select
184             -first 100
185     }
186     catch
187     {
188         Write-Warning "Unable to generate list of mail users"
189         $MailUsers = $null
190     }
191
192     $MailUserCount = 0

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192 foreach ($MailUser in $MailUsers)
193 {
194     Write-Output $("Current MailUser: " + $MailUser.PrimarySMTPAddress)
195     Write-Output $("Current Simple Display Name: " + $MailUser.SimpleDisplayName)
196     Write-Output "Mail User Count: $MailUserCount"
197     $MailUserCount++
198
199     try
200     {
201         $MailUser | Set-MailUser -SimpleDisplayName $MailUser.SimpleDisplayName
202         -ErrorAction Stop
203         Write-Output "Successfully updated mailuser"
204     }
205     catch
206     {
207         Write-Warning "Error attempting to set mailuser. Trying again."
208
209         try
210         {
211             Set-MailUser -Identity $MailUser.PrimarySMTPAddress -SimpleDisplayName
212             $MailUser.SimpleDisplayName -ErrorAction Stop
213             Write-Output "Successfully updated mailuser"
214         }
215         catch
216         {
217             Write-Error "Unable to set mailuser"
218
219             if ($StopOnError)
220             {
221                 return
222             }
223         }
224     }
225     Write-Output "*****"
226 }
227
228 #This switch stateent is here because of some sporadic issues with timeouts that were
229 #occurring.
230 switch ((Get-Date).Day%3)
231 {
232     0 { Set-HSCMailContact ; Set-HSCMailbox ; Set-HSCMailUser }
233     1 { Set-HSCMailbox ; Set-HSCMailUser ; Set-HSCMailContact }
234     2 { Set-HSCMailUser ; Set-HSCMailContact ; Set-HSCMailbox }
235 }
236
237 if (!$NoSessionTranscript)
238 {
239     Write-Verbose "Stopping Transcript"
240     Stop-Transcript
241 }
242 Exit

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