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1 <#
2 .SYNOPSIS
3 The purpose of this file is to export the HSC address book. The export file that
  is generated will
4 then be imported into the WVU Foundation's address book.
5
6 .PARAMETER StopOnError
7 Used for debugging purposes. Stops program execution if an error is found.
8
9 .PARAMETER Testing
10 Default is 7. Specifies the number of days to keep log files before they are
  deleted.
11
12 .PARAMETER HSCMailboxFile
13 The output file generated by the program. It should not be changed from the
  default without also
14 changing the value in the import file.
15
16 .PARAMETER PasswordFile
17 The path to the secure password file used to send email. To decrypt it, you need
  to be logged into the machine
18 where it was created with the user account that it was created with.
19
20 .NOTES
21 Written by: Jeff Brusoe
22 Last Updated: August 14, 2020
23 #>
24
25 [CmdletBinding()]
26 param (
27     [int]$MinimumFileRecipients = 4000,
28     [switch]$Testing,
29     [string]$HSCMailboxFile = "$PSScriptRoot\Logs\" + (Get-Date -Format yyyy-MM-dd) +
  "-HSCMailboxExport.csv"
30 )
31
32 # Configure PS environment
33 try {
34     Set-HSCEnvironment -ErrorAction Stop
35     Connect-HSCExchangeOnline -ErrorAction Stop
36 }
37 catch {
38     Write-Warning "Unable to configure environment. Program is exiting."
39     Invoke-HSCExitCommand
40 }
41
42 # Initialization of output files
43 New-Item -path $HSCMailboxFile -Type "file" -Force
44
45 #Get HSC mailboxes
46 Write-Output "Generating list of HSC mailboxes"
47 Write-Output "HSC Mailbox File: $HSCMailboxFile"
48
49 try
50 {
51     $Properties =
  @("FirstName", "LastName", "Title", "Department", "Phone", "WhenChanged", "HiddenFromAddr
  essListsEnabled", "CustomAttribute7")
52     $Mailboxes = Get-EXORecipient -Resultsize Unlimited -Properties $Properties -
  RecipientType UserMailbox | Where-Object {($_.CustomAttribute7 -eq "Yes365") -AND
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($_.PrimarySMTPAddress -notlike "rni.*")}  
53 Write-Output "Done generating list of HSC mailboxes"  
54 }  
55 catch  
56 {  
57 Write-Warning "Unable to generate HSC recipient array. Program is exiting."  
58 Exit-Command  
59 }  
60  
61 Write-Output "Getting list of excluded mailboxes"  
62 $ExcludedAccounts = Import-Csv HSCExcludedAccounts.csv  
63  
64 Write-Output "Excluded Mailboxes:"  
65 Write-Output $ExcludedAccounts  
66  
67 Write-Output "`nBeginning to process HSC mailboxes"  
68 Write-Output $( "Total Number of Mailboxes: " + ($Mailboxes | Measure-  
Object).count)  
69  
70 $MailBoxCount = 1  
71  
72 foreach ($Mailbox in $Mailboxes)  
73 {  
74 if ($Testing -AND $Error.Count -gt 0)  
75 {  
76 Write-Warning "Error has occurred. Error message:"  
77 $Error | Format-List  
78  
79 Write-Warning "`nProgram is exiting."  
80 Invoke-HSCExitCommand  
81 }  
82  
83 Write-Output $("Current Mailbox: " + $Mailbox.PrimarySMTPAddress)  
84 Write-Output "Mailbox Number: $MailBoxCount"  
85 $MailBoxCount++  
86  
87 #This block of code verifies that the following before allowing an account to be  
written to the output file.  
88 #1. First and last name must both have values.  
89 #2. Remove  
90 # a. admin accounts  
91 # b. test accounts.  
92 # c. retiree accounts  
93 # d. invalid addresses (@wvuhsc.onmicrosoft.com)  
94 # e. conference rooms  
95 # f. proxy accounts  
96 # g. Hospital accounts  
97  
98 if (([string]::IsNullOrEmpty($Mailbox.LastName)) -OR  
([string]::IsNullOrEmpty($Mailbox.FirstName)))  
99 {  
100 if ([string]::IsNullOrEmpty($Mailbox.LastName))  
101 {  
102 Write-Warning "Skipping mailbox because of missing last name"  
103 }  
104 else  
105 {  
106 Write-Warning "Skipping mailbox because of missing last name"  
107 }  
108 }
```

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109 elseif ($Mailbox.PrimarySMTPAddress.ToLower().IndexOf("admin") -ge 0)
110 {
111     #Filter out admin accounts
112     Write-Output "Admin Account - Skipping"
113 }
114 elseif (($Mailbox.DisplayName.ToLower().IndexOf("test") -ge 0) -OR
($Mailbox.Title.ToLower().IndexOf("test") -ge 0) -OR
($Mailbox.LastName.ToLower().IndexOf("test") -ge 0))
115 {
116     #Filter out test accounts
117     Write-Output "Test account - Skipping"
118 }
119 elseif (($Mailbox.Title.ToLower().IndexOf("retiree") -ge 0) -OR
($Mailbox.PrimarySMTPAddress.ToLower().IndexOf("-retiree") -ge 0) -OR
($Mailbox.PrimarySMTPAddress.ToLower().IndexOf("-retired") -ge 0))
120 {
121     #Filter out retiree accounts
122     Write-Output "Retiree Account - Skipping"
123 }
124 elseif ($Mailbox.PrimarySMTPAddress.ToLower().IndexOf("onmicrosoft.com") -ge 0)
125 {
126     #Skip onmicrosoft.com accounts
127     Write-Output "Invalid domain name - Skipping"
128 }
129 elseif (($Mailbox.DisplayName.ToLower().IndexOf("conference") -ge 0) -OR
($Mailbox.PrimarySMTPAddress.ToLower().IndexOf("conference") -ge 0))
130 {
131     #Filter out conference room accounts
132     Write-Output "Skipping conference room account"
133 }
134 elseif ($Mailbox.PrimarySMTPAddress.ToLower().IndexOf("proxy") -ge 0)
135 {
136     #Filter out proxy accounts
137     Write-Output "Skipping proxy account"
138 }
139 elseif ($Mailbox.PrimarySMTPAddress.ToLower().IndexOf("rni.") -ge 0 -OR
$Mailbox.PrimarySMTPAddress.ToLower().indexOf("wvurni") -ge 0)
140 {
141     Write-Output "RNI Mailbox - Skipping"
142 }
143 elseif ($ExcludedAccounts.MailboxAlias -contains $Mailbox.PrimarySMTPAddress)
144 {
145     #Filter out accounts from the excluded mailbox list
146     Write-Output "Excluded Mailbox (from file) - Skipping"
147 }
148 else
149 {
150     Write-Output "Exporting user information"
151     $Mailbox | Select-Object
        DisplayName,FirstName,LastName,Title,Department,Phone,PrimarySMTPAddress,Alias,When
        Changed,hiddenfromaddresslistsenabled | Export-Csv $HSCMailboxFile -Append
152 }
153
154 Write-Output "*****"
155 }
156
157 Write-Output "HSC mailbox processing complete"
158 if ((Import-Csv $HSCMailboxFile | Measure-Object).Count -gt $MinimumFileRecipients)
159 {
160     Write-Output "Preparing to email address book file."

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161 }
162 else
163 {
164     Write-Warning "There was an error generating the file. Program is exiting."
165     Send-MailMessage -Body "Error generating HSC mailbox for WVUF" -To
        "jbrusoe@hsc.wvu.edu","microsoft@hsc.wvu.edu" -From "microsoft@hsc.wvu.edu" -
        Subject "Error Generating HSC Mailbox File" -SmtpServer "hssmtp.hsc.wvu.edu" -
        Verbose
166
167     Invoke-HSCExitCommand
168 }
169
170 #####
171 # Send File Via Email #
172 #####
173
174 $Recipients = "microsoft@hsc.wvu.edu","jbrusoe@hsc.wvu.edu","RHilling@wvuf.org"
175 $Attachments = $HSCMailboxFile
176
177 $Subject = (Get-Date -format yyyy-MM-dd) + " HSC Address Book Export"
178 $MsgBody = "This is the HSC address book export."
179
180 try
181 {
182     Send-MailMessage -Body $MsgBody -To $Recipients -From "microsoft@hsc.wvu.edu" -
        Subject $Subject -Attachments $Attachments -SmtpServer "hssmtp.hsc.wvu.edu" -
        Verbose -ErrorAction Stop
183     Write-Output "Successfully sent email"
184 }
185 catch
186 {
187     Write-Warning "There was an error attempting to send the email"
188     Write-Output $Error | Format-List
189 }
190
191 Invoke-HSCExitCommand
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