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1 #Backup-HSADUserOrgUnit.ps1
2 #Written by: Jeff Brusoe
3 #Last Updated: August 2, 2021
4
5 [CmdletBinding()]
6 param (
7     [ValidateNotNullOrEmpty()]
8     [string]$OutputDirectory = "$PSScriptRoot\OULogs\"
9 )
10
11 try {
12     Write-Output "Configuring Environment"
13
14     Set-HSCEnvironment -ErrorAction Stop
15
16     $OutputFile = $OutputDirectory +
17         (Get-Date -Format yyyy-MM-dd) +
18         "-ADUserOrgUnits.csv"
19     New-Item -Path $OutputFile -ItemType File -Force -ErrorAction Stop
20 }
21 catch {
22     Write-Warning "Unable to configure environment"
23     Invoke-HSCExitCommand -ErrorAction Stop
24 }
25
26 try {
27     Write-Output "Getting AD Org Units"
28
29     $ADOrgUnits = Get-ADOrganizationalUnit -Filter * -ErrorAction Stop
30 }
31 catch {
32     Write-Warning "Unable to get list of AD org units"
33     Invoke-HSCExitCommand -ErrorAction Stop
34 }
35
36 Write-Verbose "Looping through AD Org Units"
37 foreach ($ADOrgUnit in $ADOrgUnits)
38 {
39     $GetADUserUserParams = @{
40         Filter = "*"
41         SearchBase = $ADOrgUnit.DistinguishedName
42         SearchScope = "OneLevel"
43         ErrorAction = "Stop"
44     }
45
46     try {
47         $ADUsers = Get-ADUser @GetADUserUserParams
48
49         foreach ($ADUser in $ADUsers)
50         {
51             try {
52                 $ParentContainer = $ADUser |
53                     Get-HSCADUserParentContainer -ErrorAction Stop
54
55                 Write-Verbose "Parent OU: $ParentContainer"
56             }
57             catch {
58                 Write-Warning "Unable to get user's Parent OU"
59                 continue
60             }
61         }
62     }
```

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61
62     $ADUserOrgUnitInfo = [PSCustomObject]@{
63         SamAccountName = $ADUser.SamAccountName
64         UserPrincipalName = $ADUser.UserPrincipalName
65         OrgUnit = $ParentContainer
66     }
67
68     $ADUserOrgUnitInfo
69     $ADUserOrgUnitInfo | Export-Csv $OutputFile -NoTypeInformation -Append
70 }
71 }
72 catch {
73     Write-Warning "Unable to get list of AD users"
74     continue
75 }
76 }
77
78 Invoke-HSCExitCommand -ErrorAction Stop
```