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1 #Filename: Backup-HSGPO.ps1
2 #Version: 1.2
3 #
4 #Written By: Kim Rodney
5 #Date: June 6, 2016
6 #Email: krodney@hsc.wvu.edu
7 #
8 #Updated by: Jeff Brusoe
9 #Updated on: July 28, 2021
10 #This file is designed to backup the GPOs in the HS domain.
11
12 [CmdletBinding()]
13 param (
14     [ValidateNotNullOrEmpty()]
15     [string]$OutputPath = "\\hs.wvu-ad.wvu.edu\public\ITS\" +
16         "Network and Voice Services\public\Backups\GPO Backups\",
17
18     [ValidateNotNullOrEmpty()]
19     [string]$GitHubBackupPath = (Split-Path (Get-HSCGitHubRepoPath) -Parent) +
20         "\BackupGPO\",
21
22     [int]$TotalGPOs #This parameter is used for testing purpose
23 )
24
25 try {
26     Write-Output "Configuring Environment"
27
28     Import-Module GroupPolicy -ErrorAction Stop
29
30     Set-HSCEnvironment -ErrorAction Stop
31
32     $DateString = Get-Date -Format yyyy-MM-dd-HH-mm
33     $BackupPath = "$OutputPath$DateString\"
34     New-Item -Path $BackupPath -ItemType directory -ErrorAction Stop
35
36     Write-Output "GitHub Backup Path: $GitHubBackupPath"
37     if (!(Test-Path $GitHubBackupPath)) {
38         Write-Warning "GitHub Backup Path doesn't exist"
39         throw
40     }
41
42     if (!(Test-Path $OutputPath)) {
43         Write-Warning "Output Path doesn't exist"
44         throw
45     }
46 }
47 catch {
48     Write-Warning "Unable to configure environment"
49     Invoke-HSCExitCommand -ErrorCount $Error.Count
50 }
51
52 try
53 {
54     Write-Output "Generating GPO List"
55     $GPOs = Get-GPO -ALL -ErrorAction Stop
56
57     if ($PSBoundParameters.ContainsKey('TotalGPOs')) {
58         $GPOs = Get-GPO -All -ErrorAction Stop | Select-Object -First $TotalGPOs
59     }
60 }
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61 catch {
62     Write-Warning "There was an error generating the list of GPOs."
63     Invoke-HSCExitCommand -ErrorCount $Error.Count
64 }
65
66 Write-Output "Performing GPO Backup"
67 $GPOCount = 1
68 foreach ($GPO in $GPOs)
69 {
70     Write-Output $("Current GPO: " + $GPO.DisplayName)
71     Write-Output "GPO Count: $GPOCount"
72     $GPOCount++
73
74     try {
75         $GPO | Backup-GPO -Path $BackupPath -ErrorAction Stop
76     }
77     catch {
78         Write-Warning "There was an error backing up the GPO."
79     }
80
81     Write-Output "*****"
82 }
83
84 Write-Output "Copying GPO Backups to GitHub"
85 Copy-Item -Path $BackupPath -Destination $GitHubBackupPath -Verbose -Recurse
86
87 Invoke-HSCExitCommand -ErrorCount $Error.Count
```