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#Filename: Backup-HSGPO.ps1
#Version: 1.0
#
#Written By: Kim Rodney
#Date: June 6, 2016
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#
#Updated by: Jeff Brusoe
#Update on: March 3, 2020
#Cleaned up code and added session transcripts/backups to GitHub
#
#Updated by: Jeff Brusoe
#Updated on: June 1, 2020
#- Fixed incorrect backup directory issue
#- Improved output information
#- Added code to initialize environmet
#
#This file is designed to backup the GPOs in the HS domain.

[CmdletBinding()]
param (
    [string]$OutputPath = "\\hs.wvu-ad.wvu.edu\public\ITS\Network and Voice
Services\public\Backups\GPO Backups", #Do not include file name, just directory path.
    [string]$GitHubBackupPath = "c:\users\microsoft\Documents\GitHub\BackupGPO\",
    [int]$TotalGPOs #This parameter is used for testing purpose
)

Import-Module GroupPolicy

#Configure environment
Clear-Host
$Error.Clear()
Set-StrictMode -Version Latest
Set-Location $PSScriptRoot

$Host.UI.RawUI.WindowTitle = "Backup-HSGPO.ps1"

#$TranscriptLogFile = "$PSScriptRoot\Logs\" + (Get-Date -Format yyyy-MM-dd-HH-mm) +
"-GPOBackup-SessionTranscript.txt"
$TranscriptLogFile = "$PSScriptRoot\Logs\" + (Get-Date -Format yyyy-MM-dd-HH-mm) +
"-GPOBackup-SessionTranscript.txt"
Start-Transcript -Path $TranscriptLogFile

$DateString = Get-Date -Format yyyy-MM-dd-HH-mm
$BackupPath = "$OutputPath\$DateString\" #This goes to the original backup path

New-Item -Path $BackupPath -ItemType directory
#End of environment configuration block

#Generate GPO list
try
{
    if ($PSBoundParameters.ContainsKey('TotalGPOs'))
    {
```

```
52     $GPOs = Get-GPO -All -ErrorAction Stop | Select -First $TotalGPOs #| Backup-GPO
    -Path $BackupPath -ErrorAction Stop
53 }
54 else
55 {
56     $GPOs = Get-GPO -ALL -ErrorAction Stop | Backup-GPO -Path $BackupPath -ErrorAction
    Stop
57 }
58 }
59 catch
60 {
61     Write-Warning "There was an error generating the list of GPOs. Program is exiting."
62     Stop-Transcript
63     return
64 }
65
66 #Now do actual backups
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     {
76         $GPO | Backup-GPO -Path $BackupPath -ErrorAction Stop
77     }
78     catch
79     {
80         Write-Warning "There was an error backing up the GPO."
81     }
82
83     Write-Output "*****"
84 }
85
86 Write-Output "Copying GPO Backups to GitHub"
87 Copy-Item -Path $BackupPath -Destination $GitHubBackupPath -Verbose -Recurse
88
89 Stop-Transcript
90
91 Exit
92
```