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1 #PowerShell File Backup
2 #Written by: Jeff Brusoe
3 #Last Updated: July 21, 2021
4 #
5 #This file backs up the sysscript servers, nursing databases, and my VDI machine.
6 #The config file (BackupMap.csv) is stored locally on my VDI machine.
7
8 #To do: Build in option to do incremental backup
9
10 [CmdletBinding()]
11 param
12 (
13     [string]$BackupMap="BackupMap.csv",
14     [string]$ExcludeDirectories = "C:\Users\jbrusoeadmin\Documents\GitHub\HSC-
15     PowerShell-Repository\.git\*"
16 )
17 try {
18     Set-HSCEnvironment -ErrorAction Stop
19
20     $BackupDirectories = Import-Csv $BackupMap -ErrorAction Stop
21     Write-Output $BackupDirectories
22 }
23 catch {
24     Write-Warning "Error Configuring Environment"
25     Invoke-HSCExitCommand -ErrorCount $Error.Count
26 }
27
28 $BackupDirectory = "c:\users\jbrusoeadmin\desktop\" +
29     (Get-Date -format yyyy-MM-dd-HH-mm) +
30     "-Backups"
31
32 $NursingBackups = "c:\users\jbrusoeadmin\desktop\" + (Get-Date -format yyyy-MM-dd-
33     HH-mm) + "-Nursing-Backups"
34
35 Write-Output $("Creating Backup Directory: $BackupDirectory")
36 mkdir $BackupDirectory
37
38 Write-Output $("Creating Nursing Backup Directory: $NursingBackups")
39 mkdir $NursingBackups
40
41 Start-Sleep -s 1
42
43 foreach ($Directory in $BackupDirectories)
44 {
45     if ($Directory.BackupType -eq "Regular")
46     {
47         Set-Location $BackupDirectory
48
49         try
50         {
51             $DestinationDirectory = $BackupDirectory + "\" + $Directory.Name
52             Write-Output "Creating: $DestinationDirectory"
53
54             New-Item -Path $DestinationDirectory -type "directory" -ErrorAction Stop
55
56             Write-Output "Successfully created backup directory"
57         }
58         catch {
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59     Write-Output "Destination directory already exists"
60 }
61
62 Start-Sleep -s 1
63
64 #Start file copies
65 $Path = $Directory.DirectoryPath
66 Write-Output "Copying directory: $Path"
67
68 $CopyItemParams = @{
69     Path = $Path
70     Destination = $DestinationDirectory
71     Verbose = $true
72     Recurse = $true
73     Exclude = $ExcludeDirectories
74     ErrorAction = "Stop"
75 }
76
77 Copy-Item @CopyItemParams
78
79 Write-Output "Done copying directory"
80
81 }
82 elseif ($Directory.BackupType -eq "Nursing")
83 {
84     #Should be the case for nursing backups
85
86     Set-Location $NursingBackups
87
88     Write-Output $("Copying directory: " + $Directory.DirectoryPath)
89
90     if ($Directory.DirectoryPath.IndexOf("hssql2") -gt 0) {
91         Copy-Item $Directory.DirectoryPath -Destination $NursingBackups -Verbose
92     }
93     else {
94         Copy-Item $Directory.DirectoryPath -Destination $NursingBackups -Verbose -
Recurse
95     }
96 }
97 }
98
99 #This code is here in order to remove 0 byte files. They cause a cosmetic error
100 #when saving these directories to OneDrive.
101 $Files = Get-ChildItem $BackupDirectory -Recurse
102
103 foreach ($File in $Files)
104 {
105     if ($File.Length -eq 0) {
106         "Deleting file: " + $File.Fullname
107         "File Size: " + $File.Length
108
109         Remove-Item $File.Fullname
110     }
111 }
112
113 Write-Output "Backup Complete"
114 Invoke-HSCExitCommand -ErrorCount $Error.Count
```