

Empty File and Folder Removal Script

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1 Introduction

This document presents a PowerShell script that recursively searches a directory and removes empty files and folders.

2 PowerShell Script

```
1 Get-ChildItem "D:\" -Recurse | ForEach-Object {  
2     if ($_.Length -eq 0) {  
3         Write-Output "Removing Empty File $($_.FullName)"  
4         $_.FullName | Remove-Item -Force  
5     }  
6     if ($_.PSIsContainer -eq $true) {  
7         if ((Get-ChildItem $_.FullName) -eq $null) {  
8             Write-Output "Removing Empty Folder $($_.FullName)"  
9             $_.FullName | Remove-Item -Force  
10        }  
11    }  
12 }
```

3 Explanation

The provided PowerShell script performs the following steps:

1. Uses the 'Get-ChildItem' cmdlet to retrieve all files and folders recursively from the specified directory, in this case, "D::".
2. Iterates over each item using the 'ForEach-Object' cmdlet.
3. Checks if the item is a file and if its length is equal to 0. If true, it is considered an empty file, and it is removed using the 'Remove-Item' cmdlet with the '-Force' parameter.

4. Checks if the item is a folder and if it contains any child items. If the folder is empty, it is removed using the 'Remove-Item' cmdlet with the '-Force' parameter.

This script helps to automate the removal of empty files and folders within a directory, ensuring a clean and organized file system.