Powershell 3 Lab Chapter 12

**Windows 8 and Windows Server 2012 include a module for working with file shares. Your task is to create a directory called “LABS” on your computer and share it. For the sake of this exercise, you can assume the folder and share don’t already exist. Don’t worry about NTFS permissions, but make sure that the share permissions are set so that Everyone has read/write access, and local Administrators have full control. Because the share will be primarily for files, you want to set the share’s caching mode for documents. Your script should output an object showing the new share and its permissions.**

PS> New-Item -Path C:\ -Name LABS -ItemType Directory

Directory: C:\

Mode LastWriteTime Length Name

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d----- 22/08/2016 12:53 PM LABS

PS C:\Windows\system32> Set-Location C:\LABS

PS C:\LABS> Get-Command -Noun \*share\*

CommandType Name Version Source

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Function Block-FileShareAccess 2.0.0.0 Storage

Function Block-SmbShareAccess 2.0.0.0 SmbShare

Function Debug-FileShare 2.0.0.0 Storage

Function Get-FileShare 2.0.0.0 Storage

Function Get-FileShareAccessControlEntry 2.0.0.0 Storage

Function Get-SmbShare 2.0.0.0 SmbShare

Function Get-SmbShareAccess 2.0.0.0 SmbShare

Function Grant-FileShareAccess 2.0.0.0 Storage

Function Grant-SmbShareAccess 2.0.0.0 SmbShare

Function New-FileShare 2.0.0.0 Storage

Function New-SmbShare 2.0.0.0 SmbShare

Function Remove-FileShare 2.0.0.0 Storage

Function Remove-SmbShare 2.0.0.0 SmbShare

Function Revoke-FileShareAccess 2.0.0.0 Storage

Function Revoke-SmbShareAccess 2.0.0.0 SmbShare

Function Set-FileShare 2.0.0.0 Storage

Function Set-SmbShare 2.0.0.0 SmbShare

Function Unblock-FileShareAccess 2.0.0.0 Storage

Function Unblock-SmbShareAccess 2.0.0.0 SmbShare

PS C:\LABS> Get-Help New-SmbShare

NAME

New-SmbShare

SYNOPSIS

Creates a new Server Message Block (SMB) share.

SYNTAX

New-SmbShare [-Name] <String> [-Path] <String> [[-ScopeName] <String>] [-AsJob] [-CachingMode <CachingMode>]

[-CATimeout <UInt32>] [-ChangeAccess <String[]>] [-CimSession <CimSession[]>] [-ConcurrentUserLimit <UInt32>]

[-ContinuouslyAvailable <Boolean>] [-Description <String>] [-EncryptData <Boolean>] [-FolderEnumerationMode

<FolderEnumerationMode>] [-FullAccess <String[]>] [-NoAccess <String[]>] [-ReadAccess <String[]>] [-Temporary]

[-ThrottleLimit <Int32>] [-Confirm] [-WhatIf] [<CommonParameters>]

DESCRIPTION

The New-SMBShare cmdlet exposes a file system folder to remote clients as a new Server Message Block (SMB) share.

To delete a share that was created by this cmdlet, use the Remove-SMBShare cmdlet.

PS C:\LABS> New-SmbShare -Name Labs -Path "C:\LABS" -FullAccess Administrator -ReadAccess Everyone

Name ScopeName Path Description

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Labs \* C:\LABS

PS C:\LABS> Get-SmbShare -Name Labs | Format-List -Property \*

PresetPathAcl : System.Security.AccessControl.DirectorySecurity

ShareState : Online

AvailabilityType : NonClustered

ShareType : FileSystemDirectory

FolderEnumerationMode : Unrestricted

CachingMode : Manual

SmbInstance : Default

CATimeout : 0

ConcurrentUserLimit : 0

ContinuouslyAvailable : False

CurrentUsers : 0

Description :

EncryptData : False

Name : Labs

Path : C:\LABS

Scoped : False

ScopeName : \*

SecurityDescriptor : O:SYG:SYD:(A;;FA;;;LA)(A;;0x1200a9;;;WD)

ShadowCopy : False

Special : False

Temporary : False

Volume : \\?\Volume{ed810cbb-0000-0000-0000-501f00000000}\

PSComputerName :

CimClass : ROOT/Microsoft/Windows/SMB:MSFT\_SmbShare

CimInstanceProperties : {AvailabilityType, CachingMode, CATimeout, ConcurrentUserLimit...}

CimSystemProperties : Microsoft.Management.Infrastructure.CimSystemProperties