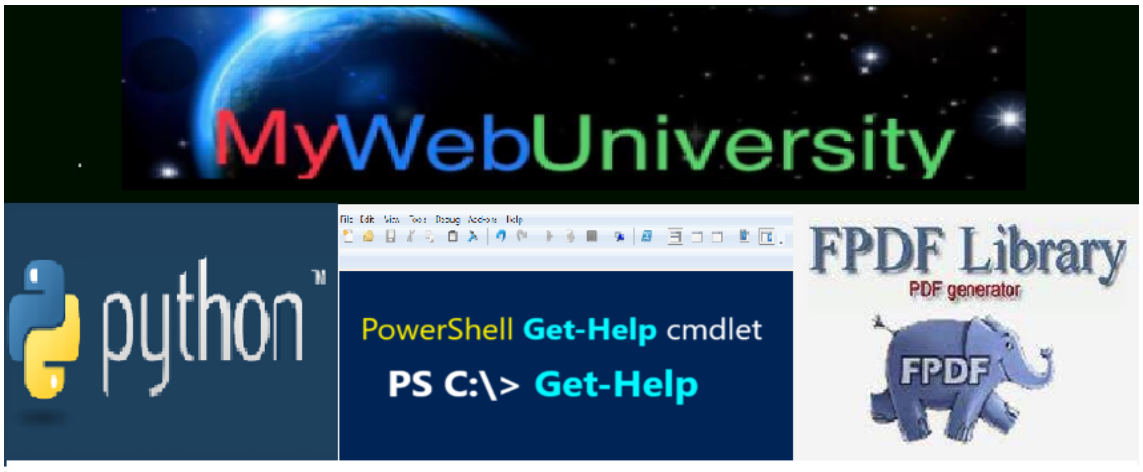

Full credit is given to all the above companies including the Operating System that this PDF file was generated!

Windows PowerShell Get-Help on Cmdlet 'Repair-Volume'

PS:\>Get-HELP Repair-Volume -Full

NAME

Repair-Volume

SYNOPSIS

Performs repairs on a volume.

SYNTAX

Repair-Volume [-DriveLetter] <Char[]> [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-OfflineScanAndFix] [-Scan] [-SpotFix] [-ThrottleLimit <Int32>] [-WhatIf]

[<CommonParameters>]

Repair-Volume [-AsJob] [-CimSession <CimSession[]>] [-Confirm] -FileSystemLabel <String[]> [-OfflineScanAndFix] [-Scan] [-SpotFix] [-ThrottleLimit <Int32>] [-WhatIf]

[<CommonParameters>]

Repair-Volume [-AsJob] [-CimSession <CimSession[]>] [-Confirm] -InputObject <CimInstance[]> [-OfflineScanAndFix] [-Scan] [-SpotFix] [-ThrottleLimit <Int32>] [-WhatIf]

[<CommonParameters>]

Repair-Volume [-AsJob] [-CimSession <CimSession[]>] [-Confirm] -ObjectId <String[]> [-OfflineScanAndFix] [-Scan] [-SpotFix] [-ThrottleLimit <Int32>] [-WhatIf]

[<CommonParameters>]

Repair-Volume [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-OfflineScanAndFix] -Path <String[]> [-Scan] [-SpotFix] [-ThrottleLimit <Int32>] [-WhatIf]

[<CommonParameters>]

DESCRIPTION

The Repair-Volume cmdlet performs repairs on a volume. The following repair actions are available:

OfflineScanAndFix: Takes the volume offline to scan the volume and fix any errors found (equivalent to `chkdsk /f`).

Scan: Scans the volume without attempting to repair it; all detected corruptions are added to the `$corrupt` system file (equivalent to `chkdsk /scan`).

SpotFix: Takes the volume briefly offline and then fixes only issues that are logged in the `$corrupt` file (equivalent to `chkdsk /spotfix`).

PARAMETERS

-AsJob [<SwitchParameter>]

Runs the cmdlet as a background job. Use this parameter to run commands that take a long time to complete.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-CimSession <CimSession[]>

Runs the cmdlet in a remote session or on a remote computer. Enter a computer name or a session object, such as the

output of a New-CimSession

(https://go.microsoft.com/fwlink/p/?LinkId=227967) or

[Get-CimSession](https://go.microsoft.com/fwlink/p/?LinkId=227966)cmdlet. The default is the current session

on the local computer.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Confirm [<SwitchParameter>]

Prompts you for confirmation before running the cmdlet.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-DriveLetter <Char[]>

Specifies a letter used to identify a drive or volume in the system.

Required? true

Position? 0

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-FileSystemLabel <String[]>

Specifies the volume to scan based on the file system label (the volume name).

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-InputObject <CimInstance[]>

Specifies the input to this cmdlet. You can use this parameter, or you can pipe the input to this cmdlet.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-ObjectId <String[]>

Specifies an ID representing the object. The ID is not globally unique.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-OfflineScanAndFix [<SwitchParameter>]

Performs and offline scan and fix of any errors found in the file system.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-Path <String[]>

Contains valid path information.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Scan [<SwitchParameter>]

Scans the volume.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-SpotFix [<SwitchParameter>]

Takes the volume offline and fixes any issues that are logged in the $corrupt file.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-ThrottleLimit <Int32>

Specifies the maximum number of concurrent operations that can be established to run the cmdlet. If this parameter is omitted or a value of `0` is entered, then

Windows PowerShellr calculates an optimum throttle limit for the cmdlet based on the number of CIM cmdlets that are running on the computer. The throttle limit

applies only to the current cmdlet, not to the session or to the computer.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-WhatIf [<SwitchParameter>]

Shows what would happen if the cmdlet runs. The cmdlet is not run.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

<CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug,

ErrorAction, ErrorVariable, WarningAction, WarningVariable,

OutBuffer, PipelineVariable, and OutVariable. For more information, see

about_CommonParameters (https:/go.microsoft.com/fwlink/?LinkID=113216).

INPUTS

Microsoft.Management.Infrastructure.CimInstance#ROOT/Microsoft/Windows/Storage/MSFT_Volume

The `Microsoft.Management.Infrastructure.CimInstance` object is a wrapper class that displays Windows Management Instrumentation (WMI) objects. The path after the

pound sign (`#`) provides the namespace and class name for the underlying WMI object.

OUTPUTS

System.UInt32

NOTES

* When used in Failover Cluster, cmdlets from the Storage module operate on cluster level (all servers in the cluster).

---------- EXAMPLE 1 ----------

PS C:\>Repair-Volume -DriveLetter H -Scan

This example scans the volume H: and reports errors only. It uses the `-DriveLetter` switch to designate the volume by its drive letter and `-Scan` to indicate the

scanning action.

---------- EXAMPLE 2 ----------

PS C:\>Repair-Volume -DriveLetter GHI -SpotFix

This example uses the spot verifier functionality to quickly fix volumes designation G:, H: and I:. It uses the `-DriveLetter` switch to designate multiple volumes by

their drive letters and `SpotFix` to indicate the quick fixing action.

---------- EXAMPLE 3 ----------

PS C:\> Get-Volume

DriveLetter	FriendlyName	FileSystemType	DriveType	HealthStatus	OperationalStatus	SizeRemaining	Size
	System Reserved	NTFS	Fixed	Healthy	OK	178.47 MB	550 MB
C	Contoso - C	NTFS	Fixed	Healthy	OK	41.28 GB	98.89 GB
		NTFS	Fixed	Healthy	OK	89.03 MB	481 MB
		FAT32	Fixed	Healthy	OK	70.8 MB	96 MB
D	Contoso - D	NTFS	Fixed	Healthy	OK	29.13 GB	67.68 GB
E	Contoso - E	NTFS	Fixed	Healthy	OK	148.44 GB	465.76 GB
F	Archives	NTFS	Fixed	Healthy	OK	324.13 GB	465.76 GB

```
PS C:\> Repair-Volume -FileSystemLabel "System Reserved" -OfflineScanAndFix
```

This example takes the System Reserved volume offline, and fixes all issues. This volume has no drive letters assigned to it. The first command, `Get-Volume` gives an

overview of the volumes on the local computer. As the output indicates, the volume bearing the "System Reserved" label has no drive letters. Next, the `Repair-Volume`

cmdlet uses the `-FileSystemLabel` switch to designate the "System Reserved" volume and the `-OfflineScanAndFix` switch indicates the volume should be taken offline

and scanned in full.

RELATED LINKS

Online Version: https://learn.microsoft.com/powershell/module/storage/repair-volume?view=windowsserver2022-ps&wt.mc_id=ps-gethelp

Format-Volume

Get-Volume

Optimize-Volume

Set-Volume