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PowerShell Get-Help on command 'Get-ResiliencySetting'

PS C:\Users\wahid> Get-Help Get-ResiliencySetting

NAME

Get-ResiliencySetting

SYNOPSIS

Gets the resiliency settings (also known as storage layouts) available for creating virtual disks on the specified storage subsystem.

SYNTAX

Get-ResiliencySetting [-AsJob] [-CimSession <CimSession[]>] [-Name <String[]>] [-StoragePool <CimInstance>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-ResiliencySetting [-AsJob] [-CimSession <CimSession[]>] [-ThrottleLimit <Int32>] [-UniqueId <String[]>] [<CommonParameters>]

DESCRIPTION

The Get-ResiliencySetting cmdlet gets the resiliency settings (storage layouts) available for creating virtual disks on the specified storage subsystem. The resiliency settings vary depending on the storage subsystem; the Windows Storage subsystem supports the Simple, Mirror, and Parity

resiliency settings.

PARAMETERS

-AsJob [<SwitchParameter>]

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

-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.

-Name <String[]>

Specifies the name of the resiliency setting or settings to get. The supported resiliency setting names vary by storage subsystem; the Windows Storage subsystem supports the following values: Simple, Mirror, or Parity.

-StoragePool <CimInstance>

Specifies the storage pool object for which to get resiliency settings. Enter a StoragePool CIM object. The Storage Pool CIM object is exposed by the Get-StoragePool cmdlet.

-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.

-UniqueId <String[]>

Specifies the UniqueID of the resiliency setting object to get. If the UniqueID includes brackets, enclose the string in quotation marks.

<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).

-------- Example 1: Get all resiliency setting objects --------

```
PS C:\> Get-ResiliencySetting
Name                 NumberOfDataCopies      PhysicalDiskRedundancy
NumberOfColumns        Interleave
----                 ------------------      ----------------------
---------------        ----------
Simple                1                  0                  8
            65536
Mirror                2                  1                  4
            65536
Parity                1                  1                  8
            65536
```

This example gets all resiliency setting objects for each storage pool, showing which resiliency settings are available for use when creating virtual disks. If there are multiple storage pools, the same resiliency setting might appear more than once, with each object representing the resiliency setting support for a particular storage pool.

Example 2: Get only Mirror, Parity, and Simple resiliency setting objects

```
PS C:\> Get-ResiliencySetting -Name Mirror,Parity,Simple
```

This example displays only the resiliency settings for the types Mirror,

Parity and Simple. Other defined resiliency settings are not displayed.

---- Example 3: Get a resiliency setting object by UniqueID ----

PS C:\>Get-ResiliencySetting -UniqueId

"{5d792e9b-ca00-11e1-9350-00155db7aa01}:1"

This example displays one particular resiliency setting object by specifying

its UniqueID value, enclosed in quotation marks.

REMARKS

To see the examples, type: "get-help Get-ResiliencySetting -examples".

For more information, type: "get-help Get-ResiliencySetting -detailed".

For technical information, type: "get-help Get-ResiliencySetting -full".

For online help, type: "get-help Get-ResiliencySetting -online"