



python



PowerShell

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PowerShell Get-Help on command 'Get-BitLockerVolume'

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

NAME

Get-BitLockerVolume

SYNOPSIS

Gets information about volumes that BitLocker can protect.

SYNTAX

Get-BitLockerVolume [[-MountPoint] <String[]>] [<CommonParameters>]

DESCRIPTION

The Get-BitLockerVolume cmdlet gets information about volumes that BitLocker Drive Encryption can protect. You can specify a BitLocker volume by drive letter, followed by a colon (C:, E:). If you do not specify a drive letter, this cmdlet gets all volumes for the current computer.

You can use this cmdlet to get BitLocker volumes to use with other cmdlets, such as the Enable-BitLocker cmdlet or the Add-BitLockerKeyProtector cmdlet.

You can also use this cmdlet to view the following information about a BitLocker volume:

- VolumeType - Data or Operating System.

- Mount Point - Drive letter.

- CapacityGB - Size of drive.

- MetadataVersion - Returns the FVE metadata version of the volume.

- 0 - Unknown - The operating system is unknown. - 1 - Vista - Windows Vista format, meaning that the volume was protected with BitLocker on a computer running Windows Vista. - 2 - Win7 - Windows 7 format, meaning that the volume was protected with BitLocker on a computer running Windows 7 or the metadata format was upgraded by using the UpgradeVolume method.

- VolumeStatus - Whether BitLocker currently protects some, all, or none of the data on the volume.

- Encryption Percentage - Percent of the volume protected by BitLocker.

- KeyProtector - Type of key protector or protectors.

- AutoUnlock Enabled - Whether BitLocker uses automatic unlocking for the volume.

- Protection Status - Whether BitLocker currently uses a key protector to encrypt the volume encryption key.

- EncryptionMethod - Indicates the encryption algorithm and key size used on the volume.

(/windows/security/information-protection/bitlocker/bitlocker-overview)for more information.

For an overview of encryption methods, see GetEncryptionMethod method (/windows/win32/secprov/getencryptionmethod-win32-encryptablevolume).

PARAMETERS

-MountPoint <String[]>

Specifies an array of drive letters. This cmdlet gets these BitLocker volumes.

<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 BitLocker volumes -----

PS C:\> Get-BitLockerVolume

VolumeType	Mount Point	CapacityGB	VolumeStatus	Encryption
KeyProtector	AutoUnlock Protection			
	Point		Percentage	
	Enabled	Status		
-----	-----	-----	-----	
Data	D:	931.51	EncryptionInProgress	1
{RecoveryPassword, Pas...			Off	
Data	E:	928.83	FullyDecrypted	0
				{}
	Off			
OperatingSystem C:		232.54	FullyDecrypted	0
				{Tpm}

```

Off
Data    F:    0.98 FullyDecrypted    0    {}
Off
Data    G:    1.70 FullyDecrypted    0    {}
Off

```

This command gets all the BitLocker volumes for the current computer.

----- Example 2: Get a specific BitLocker volume -----

```
PS C:\> Get-BitLockerVolume -MountPoint "E:"
```

```

VolumeType    Mount CapacityGB VolumeStatus    Encryption
KeyProtector  AutoUnlock Protection
              Point           Percentage
              Enabled  Status
-----
-----
Data    E:    928.83 FullyDecrypted    0    {}
Off

```

This command gets the specified BitLocker volume.

Example 3: Get all attributes for a specific BitLocker volume

```
PS C:\> Get-BitLockerVolume -MountPoint C | Format-List
```

```

ComputerName    : DESKTOP-XXXXXXX
MountPoint      : C:
EncryptionMethod : XtsAes128
AutoUnlockEnabled :
AutoUnlockKeyStored : False
MetadataVersion : 2
VolumeStatus    : FullyEncrypted
ProtectionStatus : On
LockStatus      : Unlocked

```

EncryptionPercentage : 100
WipePercentage : 0
VolumeType : OperatingSystem
CapacityGB : 218,2344
KeyProtector : {RecoveryPassword, Tpm}

This command lists all BitLocker related attributes for C drive.

REMARKS

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

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

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

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