



Windows PowerShell Get-Help on Cmdlet 'Set-AzVmssDiskEncryptionExtension'

PS:\>Get-HELP Set-AzVmssDiskEncryptionExtension -Full

NAME

Set-AzVmssDiskEncryptionExtension

SYNOPSIS

Enables disk encryption on a VM scale set.

SYNTAX

```
Set-AzVmssDiskEncryptionExtension [-ResourceGroupName] <System.String> [-VMScaleSetName] <System.String>
[-DiskEncryptionKeyVaultUrl] <System.String>
                                     [-DiskEncryptionKeyVaultId] <System.String> [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-DisableAutoUpgradeMinorVersion] [-EncryptFormatAll] [-ExtensionName <System.String>] [-ExtensionPublisherName
<System.String>] [-ExtensionType <System.String>]
[-Force] [-ForceUpdate] [-KeyEncryptionAlgorithm {RSA-OAEP | RSA1_5}] [-KeyEncryptionKeyUrl <System.String>]
[-KeyEncryptionKeyVaultId <System.String>] [-Passphrase
<System.String>] [-TypeHandlerVersion <System.String>] [-VolumeType {OS | Data | All}] [-Confirm] [-WhatIf]
[<CommonParameters>]
```

DESCRIPTION

The Set-AzVmssDiskEncryptionExtension cmdlet enables encryption on a VM scale set. This cmdlet enables encryption by installing the disk encryption extension on the VM scale set.

For Linux virtual machines, the VolumeType parameter must be present and must be set to "Data"

PARAMETERS

-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>

The credentials, account, tenant, and subscription used for communication with azure.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-DisableAutoUpgradeMinorVersion <System.Management.Automation.SwitchParameter>

Disable auto-upgrade of minor version

Required? false

Position? named

Default value False

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-DiskEncryptionKeyVaultId <System.String>

ResourceID of the KeyVault where generated encryption key will be placed to

Required? true

Position? 3

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-DiskEncryptionKeyVaultUrl <System.String>

URL of the KeyVault where generated encryption key will be placed to

Required? true

Position? 2

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-EncryptFormatAll <System.Management.Automation.SwitchParameter>

EncryptFormatAll data drives that are not already encrypted

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-ExtensionName <System.String>

The extension name. If this parameter is not specified, default values used are AzureDiskEncryption for Windows VMs and AzureDiskEncryptionForLinux for Linux VMs

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-ExtensionPublisherName <System.String>

The extension publisher name. If this parameter is not specified, default value is Microsoft.Azure.Security for Windows

Required?	false
Position?	named
Default value	None
Accept pipeline input?	True (ByPropertyName)
Accept wildcard characters?	false

-ExtensionType <System.String>

The extension type. Specify this parameter to override its default value of "AzureDiskEncryption" for Windows VMs and "AzureDiskEncryptionForLinux" for Linux VMs.

Required?	false
Position?	named
Default value	None
Accept pipeline input?	True (ByPropertyName)
Accept wildcard characters?	false

-Force <System.Management.Automation.SwitchParameter>

To force enabling encryption on the virtual machine scale set.

Required?	false
Position?	named
Default value	False
Accept pipeline input?	False
Accept wildcard characters?	false

-ForceUpdate <System.Management.Automation.SwitchParameter>

Generate a tag for force update. This should be given to perform repeated encryption operations on the same VM.

Required?	false
Position?	named
Default value	False

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-KeyEncryptionAlgorithm <System.String>

KeyEncryption Algorithm used to encrypt the volume encryption key

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-KeyEncryptionKeyUrl <System.String>

Versioned KeyVault URL of the KeyEncryptionKey used to encrypt the disk encryption key

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-KeyEncryptionKeyVaultId <System.String>

ResourceID of the KeyVault containing the KeyEncryptionKey used to encrypt the disk encryption key

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Passphrase <System.String>

The passphrase specified in parameters. This parameter only works for Linux VM.

Required? false
Position? named
Default value None
Accept pipeline input? True (ByPropertyName)
Accept wildcard characters? false

-ResourceGroupName <System.String>

The resource group name to which the VM Scale Set belongs to

Required? true
Position? 0
Default value None
Accept pipeline input? True (ByPropertyName)
Accept wildcard characters? false

-TypeHandlerVersion <System.String>

The type handler version.

Required? false
Position? named
Default value None
Accept pipeline input? True (ByPropertyName)
Accept wildcard characters? false

-VMScaleSetName <System.String>

Name of the virtual machine scale set

Required? true
Position? 1
Default value None
Accept pipeline input? True (ByPropertyName)
Accept wildcard characters? false

-VolumeType <System.String>

Specifies the type of virtual machine volumes on which to perform encryption operation: OS, Data, or All.

Linux: The VolumeType parameter must be present and must be set to Data.

Windows: The VolumeType parameter, if present, must be set to either All or OS. If the VolumeType parameter is omitted it defaults to "All".

Required?	false
Position?	named
Default value	None
Accept pipeline input?	True (ByPropertyName)
Accept wildcard characters?	false

-Confirm <System.Management.Automation.SwitchParameter>

Prompts you for confirmation before running the cmdlet.

Required?	false
Position?	named
Default value	False
Accept pipeline input?	False
Accept wildcard characters?	false

-WhatIf <System.Management.Automation.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

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

System.String

System.Management.Automation.SwitchParameter

OUTPUTS

Microsoft.Azure.Commands.Compute.Models.PSVirtualMachineScaleSetExtension

NOTES

----- Example 1 -----

```
$RGName = "MyResourceGroup"
```

```
$VmssName = "MyTestVmss"
```

```
$VaultName= "MyKeyVault"
```

```
$KeyVault = Get-AzKeyVault -VaultName $VaultName -ResourceGroupName $RGName
```

```
$DiskEncryptionKeyVaultUrl = $KeyVault.VaultUri
```

```
$KeyVaultResourceId = $KeyVault.ResourceId
```

```
-DiskEncryptionKeyVaultUrl $DiskEncryptionKeyVaultUrl -DiskEncryptionKeyId  
$KeyVaultResourceId
```

This command enables encryption on all disks of all Windows VMs in a VM scale set.

----- Example 2 -----

```
$RGName = "MyResourceGroup"  
$VmssName = "MyTestVmss"  
$VaultName= "MyKeyVault"  
$KeyVault = Get-AzKeyVault -VaultName $VaultName -ResourceGroupName $RGName  
$DiskEncryptionKeyVaultUrl = $KeyVault.VaultUri  
$KeyVaultResourceId = $KeyVault.ResourceId  
$VolumeType = "Data"
```

```
Set-AzVmssDiskEncryptionExtension -ResourceGroupName $RGName -VMScaleSetName $VmssName  
-DiskEncryptionKeyVaultUrl $DiskEncryptionKeyVaultUrl -DiskEncryptionKeyId  
$KeyVaultResourceId `  
-VolumeType $volumeType
```

This command enables encryption on the data disks of all Linux VMs in a VM scale set.

RELATED LINKS

Online Version: <https://learn.microsoft.com/powershell/module/az.compute/set-azvmssdiskencryptionextension>