

# Disable ADE on Data Disks\_Encryption

Last updated by | Kevin Gregoire | Mar 29, 2022 at 11:47 AM PDT

## Tags

[cw.Azure-Encryption](#)[cw.How-To](#)

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## Summary

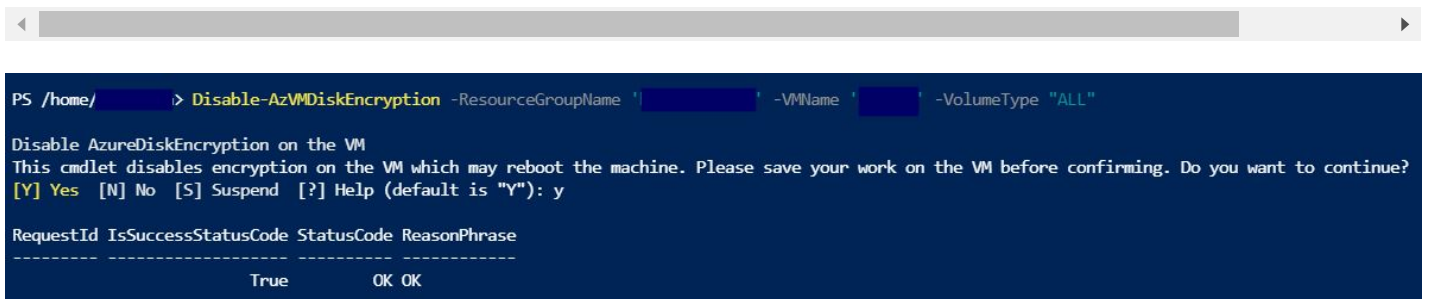
In this TSG you will see how to disable the encryption from the VM disks.

## Instructions for disabling encryption in OS disk and Data disks (PowerShell)

1. Run the following command for disabling the encryption

**Note: disabling encryption in OS only is not supported for Windows VMs. You will have to disable encryption on both OS disk and Data disks by using Volume Type ALL**

```
Disable-AzVMDiskEncryption -ResourceGroupName 'MyVirtualMachineResourceGroup' -VMName 'MySecureVM' -Volum
```



```
PS /home/ > Disable-AzVMDiskEncryption -ResourceGroupName 'MyVirtualMachineResourceGroup' -VMName 'MySecureVM' -VolumeType "ALL"

Disable AzureDiskEncryption on the VM
This cmdlet disables encryption on the VM which may reboot the machine. Please save your work on the VM before confirming. Do you want to continue?
[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"): y

RequestId IsSuccessStatusCode StatusCode ReasonPhrase
-----
True OK OK
```

2. Run the following command for removing the extension

```
Remove-AzVMDiskEncryptionExtension -ResourceGroupName "MyResourceGroup" -VMName "MyTestVM"
```

```
PS /home/ > Remove-AzVMDiskEncryptionExtension -ResourceGroupName ' ' -VMName ' '
```

Virtual machine extension removal operation  
This cmdlet will remove the specified virtual machine extension. Do you want to continue?  
[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"): y

RequestId	IsSuccess	Status Code	Status Code	ReasonPhrase
	True	OK	OK	

### 3. Validate the disks are no longer encrypted with ADE.

The screenshot shows the 'Disks' settings for a virtual machine in the Azure portal. The left sidebar contains navigation links for Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Networking, Connect, Windows Admin Center (previous version), Disks, Size, Security, and Advisor recommendations. The main content area shows the 'OS disk' and 'Data disks' sections. The 'OS disk' section has a table with columns: Disk name, Storage type, Size (GiB), Max IOPS, Max throughput (MB/s), and Encryption. The 'Data disks' section has a table with columns: LUN, Disk name, Storage type, Size (GiB), Max IOPS, Max throughput (MB/s), and Encryption. Both tables show 'SSE with PMK' in the Encryption column, which is highlighted with a red box.

## Instructions for disabling encryption in OS disk and Data disks (CLI)

### 1. Run the following command for disabling the encryption

**Note: disabling encryption in OS only is not supported for Windows VMs. You will have to disable encryption on both OS disk and Data disks by using Volume Type ALL**

```
az vm encryption disable --name MyVirtualMachine --resource-group MyResourceGroup --volume-type ALL
```

```
@Azure:~$ az vm encryption disable --name   
@Azure:~$
```

### 2. Run the following command for removing the extension

```
az vm extension delete -g MyResourceGroup --vm-name MyVm -n AzureDiskEncryption
```

```
@Azure:~$ az vm extension delete -g   
@Azure:~$
```

### 3. Validate the disks are no longer encrypted with ADE.

Virtual machine

Search (Ctrl+ /)

Save Discard Refresh Additional settings

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Connect

Windows Admin Center (previ...

**Disks**

Size

Security

Advisor recommendations

OS disk

Swap OS disk

Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (...)	Encryption ⓘ
...	Standard HDD LRS	127	500	60	SSE with PMK

Data disks

Filter by name

Showing 1 of 1 attached data disks

Create and attach a new disk Attach existing disks

LUN ⓘ	Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (...)	Encryption ⓘ
0	...	Standard HDD LRS	4	500	60	SSE with PMK

## Instructions for disabling encryption in the Data disks (Portal)

1. Go to the Azure Portal and select the encrypted VM. Select **Disks**. Then click on **Additional Settings**.

Virtual machine

Search (Ctrl+ /)

Save Discard Refresh Additional settings

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Connect

Windows Admin Center (previ...

**Disks**

Size

Security

OS disk

Swap OS disk

Disk name

Data disks

Filter by name

Showing 1 of 1 attached data disks

Create and attach a new disk Attach existing disks

LUN ⓘ	Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (...)	Encryption ⓘ
0	...	Standard HDD LRS	4	500	60	SSE with PMK

2. In the **Disks to encrypt** combobox, change the option to **None** and click on **Save**.

## Disk settings

**Ultra disk**

Enable Ultra disk compatibility ⓘ ☐ Yes ☒ No

Ultra disk is available only for Availability Zones in westus2.

**Encryption settings**

Azure Disk Encryption (ADE) provides volume encryption for the OS and data disks. [Learn more about Azure Disk Encryption.](#)

Disks to encrypt ⓘ

OS and data disks

None

OS disk

OS and data disks

Key \* ⓘ

Version \* ⓘ

3. Validate that the Data disk is no longer encrypted with ADE.

Virtual machine

Search (Ctrl+/) Save Discard Refresh Additional settings

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Settings Networking Connect Windows Admin Center (previ...) **Disks** Size Security Advisor recommendations

**OS disk**

Swap OS disk

Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (MBps)	Encryption ⓘ
MyVirtualMachineOSDisk	Standard HDD LRS	127	500	60	SSE with PMK & ADE

**Data disks**

Filter by name

Showing 1 of 1 attached data disks

+ Create and attach a new disk Attach existing disks

LUN ⓘ	Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (MBps)	Encryption ⓘ
0	MyVirtualMachineDataDisk	Standard HDD LRS	4	500	60	SSE with PMK

## Instructions for disabling encryption in Data disks (PowerShell)

1. Run the following command for disabling the encryption

```
Disable-AzVMDiskEncryption -ResourceGroupName 'MyVirtualMachineResourceGroup' -VMName 'MySecureVM' -Volum
```

```
PS /home/ > Disable-AzVMDiskEncryption -ResourceGroupName ' ' -VMName ' ' -VolumeType "Data"

Disable AzureDiskEncryption on the VM
This cmdlet disables encryption on the VM which may reboot the machine. Please save your work on the VM before confirming. Do you want to continue?
[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"): y

RequestId IsSuccessStatusCode StatusCode ReasonPhrase
-----
True OK OK
```

2. Run the following command for removing the extension

```
Remove-AzVMDiskEncryptionExtension -ResourceGroupName "MyResourceGroup" -VMName "MyTestVM"
```

```
PS /home/ > Remove-AzVMDiskEncryptionExtension -ResourceGroupName ' ' -VMName ' '

Virtual machine extension removal operation
This cmdlet will remove the specified virtual machine extension. Do you want to continue?
[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"): y

RequestId IsSuccessStatusCode StatusCode ReasonPhrase
-----
True OK OK
```

3. Validate that the Data disk is no longer encrypted with ADE.

The screenshot shows the Azure portal interface for a virtual machine. On the left, the 'Disks' tab is selected. The main area displays the 'Data disks' section, showing one attached disk with LUN 0, size 4 GiB, storage type Standard HDD LRS, and encryption status 'SSE with PMK'. The 'Encryption' column is highlighted with a red box.

## Instructions for disabling encryption in Data disks (CLI)

1. Run the following command for disabling the encryption

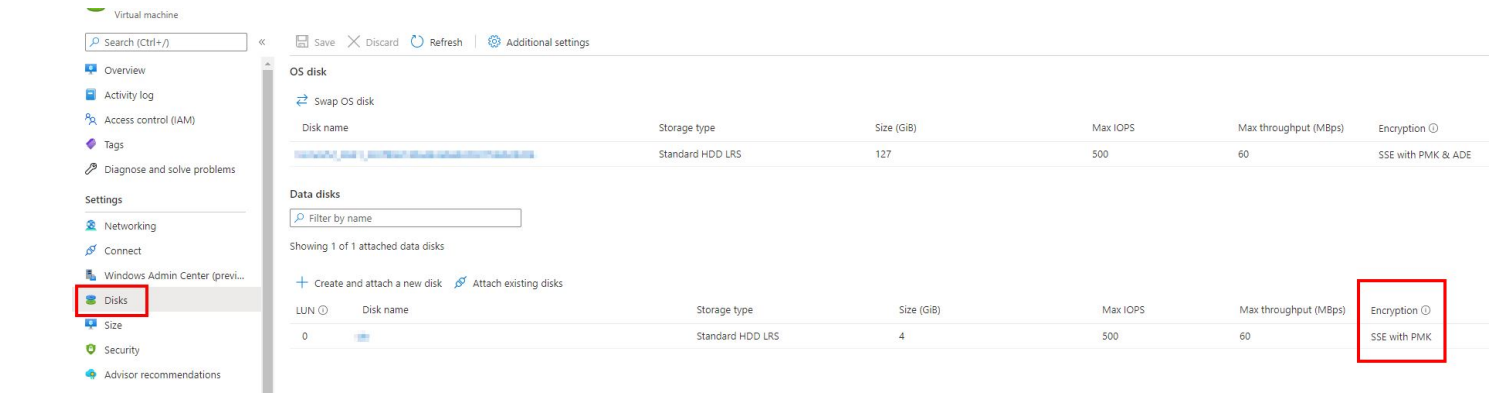
```
az vm encryption disable --name MyVirtualMachine --resource-group MyResourceGroup --volume-type DATA
```

2. Run the following command for removing the extension

```
az vm extension delete -g MyResourceGroup --vm-name MyVm -n AzureDiskEncryption
```

```
@Azure:~$ az vm extension delete -g --vm-name -n AzureDiskEncryption
@Azure:~$
```

3. Validate that the Data disk is no longer encrypted with ADE.



## Need additional help or have feedback?

To engage the Azure Encryption SMEs...	To provide feedback on this page...	To provide kudos on this page...
<p>Please reach out to the <a href="#">Azure Encryption SMEs</a> for faster assistance.</p> <p>Make sure to use the <a href="#">Ava process</a> for faster assistance.</p>	<p>Use the <a href="#">Azure Encryption Feedback</a> form to submit detailed feedback on improvements or new content ideas for Azure Encryption.</p> <p><b>Please note</b> the link to the page is required when submitting feedback on existing pages! If it is a new content idea, please put N/A in the Wiki Page Link.</p>	<p>Use the <a href="#">Azure Encryption Kudos</a> form to submit kudos on the page. Kudos will help us improve our wiki content overall!</p> <p><b>Please note</b> the link to the page is required when submitting kudos!</p>