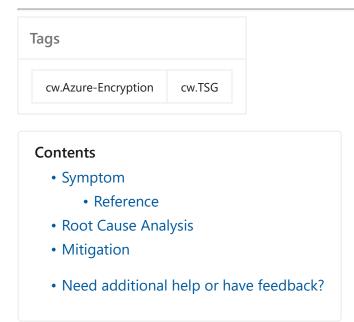
Contains Encryption Settings and Cannot be used as a Data Disk_Encryption

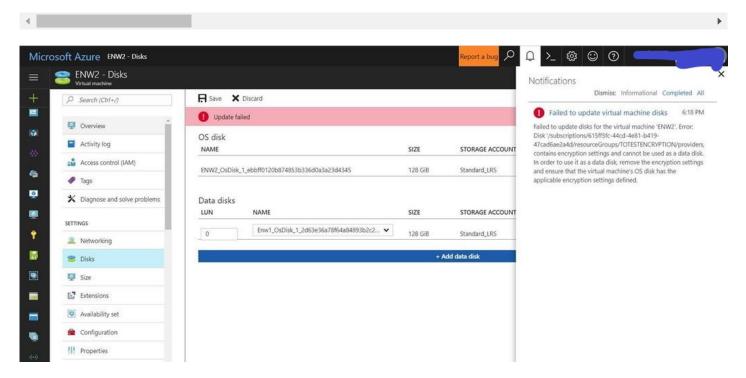
Last updated by | Kevin Gregoire | Mar 29, 2022 at 11:47 AM PDT



Symptom

1. This error may be seen when a customer is trying to attach an encrypted managed disk to another nonencrypted or VM encrypted with different BEK/KEK.

Failed to update disks for the virtual machine 'ENW2'. Error: Disk '/subscriptions/615ff5fc-44cd-4e81



Reference

1. How to recover KEK from Azure KeyVault ☐

Root Cause Analysis

The encryption settings at the disk level does not allow this operation.

Mitigation

Download/copy the vhd of the managed disk and then attach the vhd to the target VM. This would still require the BEK to unlock the drives from within the Guest OS. Refer to How to recover BEK /KEK from keyvault ... You can copy the underlying managed disk to another storage account

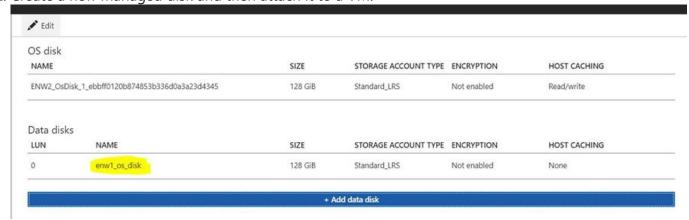
- 1. To copy the vhd of managed disk to another storage account:
 - 1. Copy the Managed Disk (as VHD file) to a storage account in the same subscription

```
Connect-AzAccount
Set-AzContext -SubscriptionId -SubscriptionId '615ff5fc-44cd-4e81-b419-47cad6ae2a4d'
$sas = Grant-AzDiskAccess -ResourceGroupName TOTESTENCRYPTION -DiskName Enw1 OsDisk 1 2d63e36a78
$destContext = New-AzStorageContext -StorageAccountName totestencryptiondiag393 -StorageAccountKe
Start-AzStorageBlobCopy -AbsoluteUri $sas.AccessSAS -DestContainer 'vhds' -DestContext $destConte
```

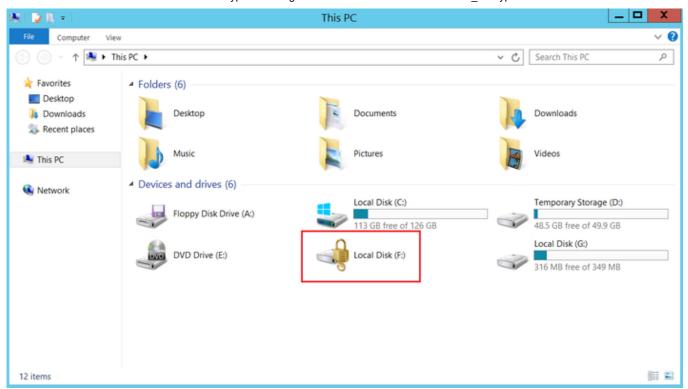
2. Create Managed Disk using the VHD file in another subscription or same subscription (ensure you have access to both the subscriptions)

```
$resourceGroupName = 'TOTESTENCRYPTION'
$diskName = 'enw1 os disk'
$vhdUri = 'https://totestencryptiondiag393.blob.core.windows.net/vhds/fromenw1managedosdisk.vhd'
$storageId = '/subscriptions/615ff5fc-44cd-4e81-b419-47cad6ae2a4d/resourceGroups/totestencryption
$location = 'westeurope'
$storageType = 'StandardLRS'
$diskConfig = New-AzDiskConfig -AccountType $storageType -Location $location -CreateOption Import
$osDisk = New-AzDisk -DiskName $diskName -Disk $diskConfig -ResourceGroupName $resourceGroupName
```

- 2. To download the VHD of a managed disk refer to Download a Windows VHD from Azure 2
 - 1. Download/copy the VHD of the managed disk to a storage account in the subscription. You could also create a snapshot of the managed disk.
 - 2. Create a new managed disk and then attach it to a VM.



3. Once attached to the VM, the explorer window will look like the one below. The encrypted drive will have a lock icon.

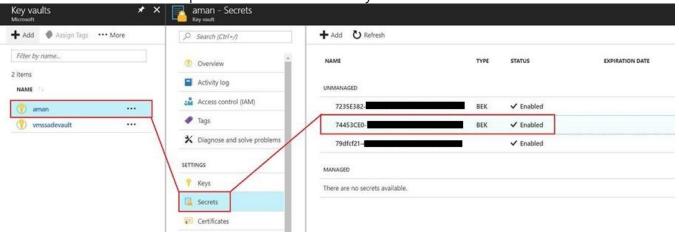


4. Now check the which SECRET is being used by this drive (f:). We can run manage-bde commands to retrieve the BEK file used by this drive.

Manage-bde -protectors -get <volume letter>

```
\Users'
    \Users'
   \Users\
C:\Users\_____nanage-bde -protectors -get f:
BitLocker Drive Encryption: Configuration Tool version 6.3.9600
Copyright (C) 2013 Microsoft Corporation. All rights reserved.
Volume F: [Label Unknown]
All Key Protectors
       External Key:
          External key rile wame:
      Numerical Password:
           ID: <
C:\Users\
```

5. We could see that this corresponds to the BEK in the Keyvault



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