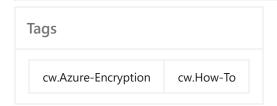
# **ADE with ASR\_Encryption**

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



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# Summary

There are two scenarios where you are going to apply this article:

- When customer is reporting a mismatch in encryption status after failover using ASR.
- When customer is asking how to set up ASR with Dual pass ADE.

This How To TSG does not explain how to set up ADE with ASR. If the customer wants to set up ASR please refer to the link in the "References" section.

#### Reference

• <a href="https://docs.microsoft.com/en-us/azure/site-recovery/azure-to-azure-how-to-enable-replication-ade-vms">https://docs.microsoft.com/en-us/azure/site-recovery/azure-to-azure-how-to-enable-replication-ade-vms</a>

#### Instructions

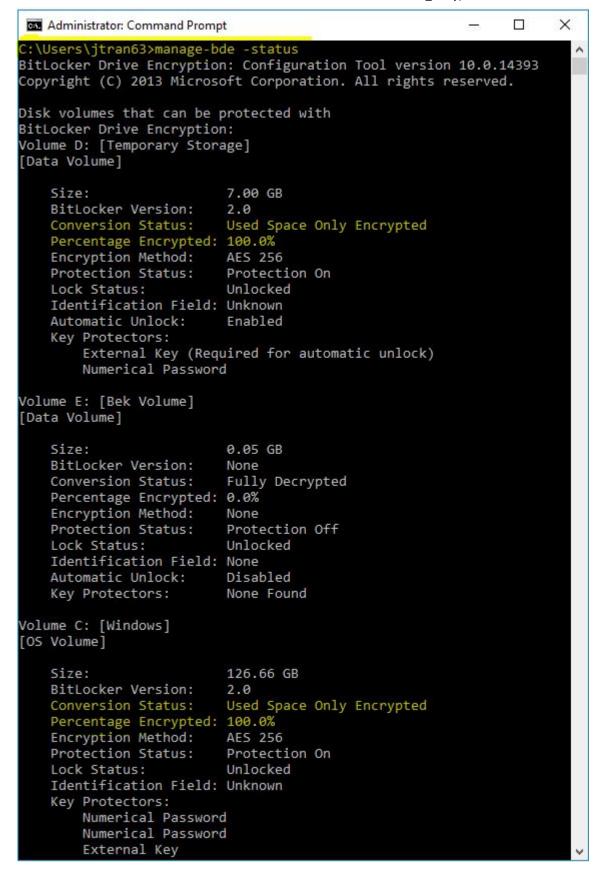
## **ASR and Encryption Method**

- 1. If customer is asking how to set up ASR with ADE please refer to the link under "References"
  - Note: If customer VM is currently encrypted, find the extension version within ASC and encryption method used.
- 2. Extension version 1.1 (with AAD) is supported for ASR. Extension version 2.2 (without AAD) is now supported as well.

#### **ASR on Failover VMs**

Once the customer has verified that failover occurred from one (primary) region to another using ASR, the failover VM might show a mismatch in encryption status within the portal, PS, or CLI.

- 1. Confirm encryption status of the VM internally.
  - RDP into VM -> Open CMD prompt -> Run "manage-bde -status"
    - If the VM shows 100%, fully encrypted. Proceed to next step.
    - If the VM shows 0%, fully decrypted. Proceed to confirm ASR replication steps using the link in the "Reference" section to ensure customer replicated encrypted VMs correctly.



- 1. Confirm extension installed on Failover VM
  - Within ASC -> Extensions Tab:
    - If extension is already installed and there is still a mismatch in encryption status proceed to "Gather Logs" section.
    - If extension is not installed advise the customer to install extension.

- With AAD: <a href="https://docs.microsoft.com/en-us/azure/security/azure-security-disk-encryption-windows-aad#enable-encryption-on-a-newly-added-data-disk">https://docs.microsoft.com/en-us/azure/security/azure-security-disk-encryption-windows-aad#enable-encryption-on-a-newly-added-data-disk</a> 

  □
- Without AAD: <a href="https://docs.microsoft.com/en-us/azure/virtual-machines/windows/disk-encryption-windows#enable-encryption-on-a-newly-added-data-disk">https://docs.microsoft.com/en-us/azure/virtual-machines/windows/disk-encryption-windows#enable-encryption-on-a-newly-added-data-disk</a> 

  □
- Once extension is installed. Confirm encryption status within the Portal, on PS, and internally (manage-bde).
- If the encryption status is still showing as a mismatch, proceed to "Gather Logs".
- Note: A mismatch is where the encryption status shows enabled in one location and disabled in another. i.e manage-bde -status vs. Portal status.

### **Gather Logs**

- 1. Once logs and screenshots are gathered, proceed to next section.
  - C:\WindowsAzure\Logs\Plugins\Microsoft.Azure.Security.AzureDiskEncryption
  - C:\Packages\Plugins\Microsoft.Azure.Security.AzureDiskEncryption\RuntimeSettings
  - C:\Windows\System32\winevt\Logs\Microsoft-Windows-BitLocker%4BitLocker Management.evtx
  - C:\Windows\System32\winevt\Logs\Microsoft-Windows-BitLocker-DrivePreparationTool%4Operational.evtx
  - Output of "manage-bde -status"

#### **Escalate to ADE Teams Channel**

# Need additional help or have feedback?

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