

Failed to Configure Bitlocker as Expected_Encryption

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

Tags

cw.Azure-Encryption

cw.TSG

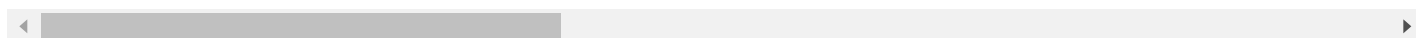
Contents

- [Symptom](#)
- [Data Collection](#)
- [Root Cause Analysis](#)
- [Mitigation](#)
- [Root Cause Closing Code - Service Desk](#)
- [Need additional help or have feedback?](#)

Symptom

1. When you try to encrypt your disk, you get the following error

Encryption fails with Error::Failed to configure bitlocker as expected. System.Net.WebException Excep

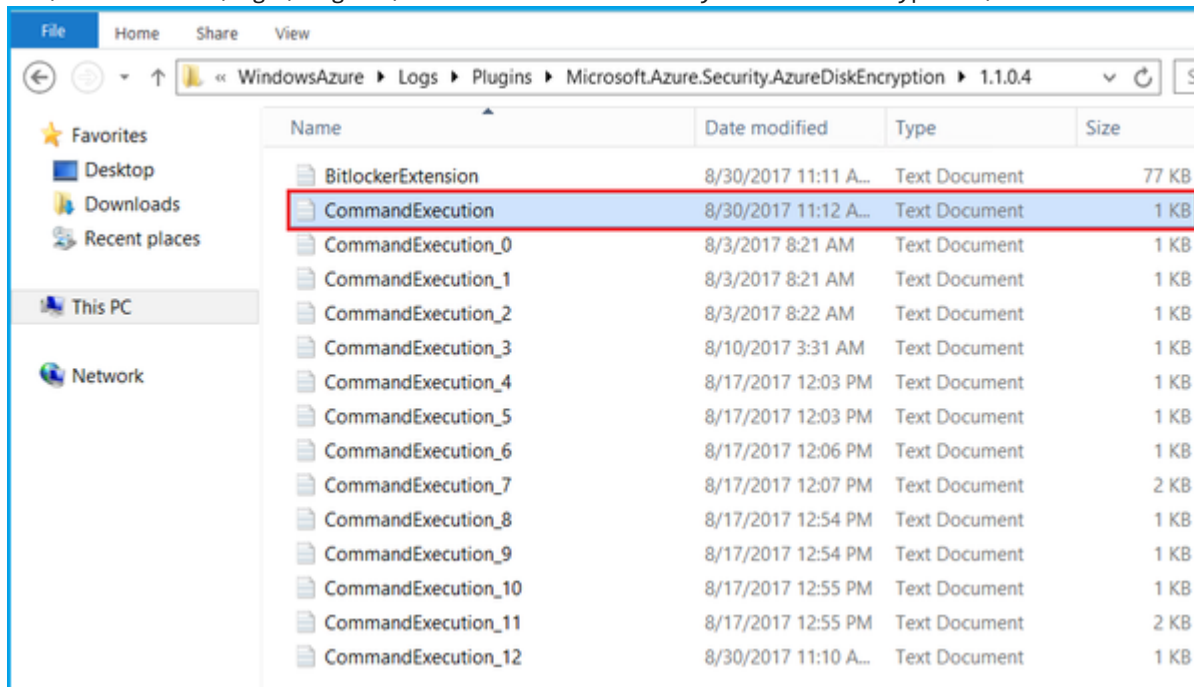


```
PS C:\Users\PSolanki> Set-AzureRmVMDiskEncryptionExtension -ResourceGroupName 'RG-VM-Dev' -VMName $vmName -AadClientID $aadClientID -AadClientSecret $aadClientSecret -DiskEncryption...
Set-AzureRmVMDiskEncryptionExtension : Long running operation failed with status 'Failed'.
Errorcode: VMExtensionProvisioningError
ErrorMessage: VM has reported a failure when processing extension 'AzureDiskEncryption'. Error message: "Failed to configure bitlocker as expected. Exception: An error occurred
while sending the request. InnerException: System.Net.WebException: The underlying connection was closed: An unexpected error occurred on a receive. --->
System.ComponentModel.Win32Exception: The client and server cannot communicate, because they do not possess a common algorithm
at System.Net.SSPIWrapper.AcquireCredentialsHandle(SSPIInterface SecModule, String package, CredentialUse intent, SecureCredential sec)
at System.Net.Security.SecureChannel.AcquireCredentialsHandle(CredentialUse credUsage, SecureCredential& secureCredential)
at System.Net.Security.SecureChannel.AcquireClientCredentials(Byte[]& thumbPrint)
at System.Net.Security.SecureChannel.GenerateToken(Byte[] input, Int32 offset, Int32 count, Byte[]& output)
at System.Net.Security.SecureChannel.NextMessage(Byte[] incoming, Int32 offset, Int32 count)
at System.Net.Security.SslState.StartSendBlob(Byte[] incoming, Int32 count, AsyncProtocolRequest asyncRequest)
at System.Net.Security.SslState.ForceAuthentication(Boolean receiveFirst, Byte[] buffer, AsyncProtocolRequest asyncRequest)
at System.Net.Security.SslState.ProcessAuthentication(LazyAsyncResult lazyResult)
at System.Threading.ExecutionContext.RunInternal(ExecutionContext executionContext, ContextCallback callback, Object state, Boolean preservesSyncContext)
at System.Threading.ExecutionContext.Run(ExecutionContext executionContext, ContextCallback callback, Object state, Boolean preservesSyncContext)
at System.Threading.ExecutionContext.Run(ExecutionContext executionContext, ContextCallback callback, Object state)
at System.Net.TlsStream.ProcessAuthentication(LazyAsyncResult result)
at System.Net.TlsStream.BeginWrite(Byte[] buffer, Int32 offset, Int32 size, AsyncCallback asyncCallback, Object asyncState)
at System.Net.ConnectStream.WriteHeaders(Boolean async)
-- End of inner exception stack trace --
at System.Net.HttpWebRequest.EndGetResponse(IAsyncResult asyncResult)
at System.Net.Http.HttpClientHandler.GetResponseCallback(IAsyncResult ar), stack trace: at
Microsoft.Cls.Security.BitLocker.BitLockerIaaSVMExtension.BitLockerExtension.GenerateAndUploadProtectorForVolume(EncryptableVolume vol, String protectorId, Boolean saveKeyToBekVolume)
at Microsoft.Cls.Security.BitLocker.BitLockerIaaSVMExtension.BitLockerExtension.EnableEncryption()
at Microsoft.Cls.Security.BitLocker.BitLockerIaaSVMExtension.BitLockerExtension.HandleEncryptionOperations()
at Microsoft.Cls.Security.BitLocker.BitLockerIaaSVMExtension.BitLockerExtension.OnEnable() .
StartTime: 8/29/2017 6:01:09 PM
EndTime: 8/29/2017 6:02:09 PM
OperationID: 508dd30d-3d78-4354-afa7-cedbe891dd98
Status: Failed
At line:1 char:1
+ Set-AzureRmVMDiskEncryptionExtension -ResourceGroupName 'RG-VM-Dev' - ...
+ ~~~~~
+ CategoryInfo          : (Error) (Set-AzureRmVMDiskEncryptionExtension), ComputeCloudException
+ FullyQualifiedId      : Microsoft.Azure.Commands.Compute.Extension.AzureDiskEncryption.SetAzureDiskEncryptionExtensionCommand
```

Data Collection

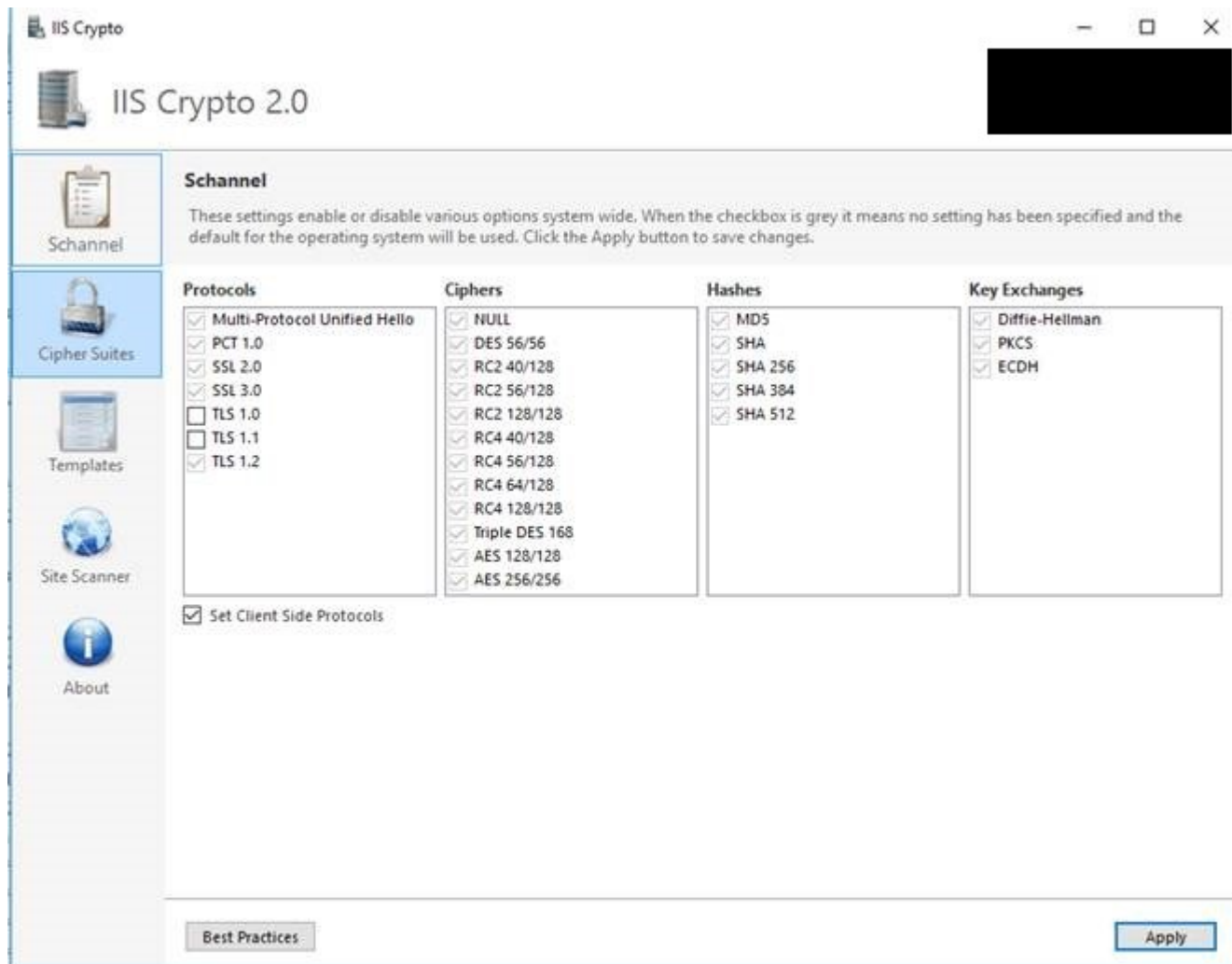
1. Collect the logs from the extension on

C:\WindowsAzure\Logs\Plugins\Microsoft.Azure.Security.AzureDiskEncryption\<VERSION>



Root Cause Analysis

This may happen if the customer is using TLS 1.2 and the .NET Framework is still pointed to use TLS 2.0 or higher.



Mitigation

1. Deselect TLS 1.0 & 1.1
2. Apply
3. Ensure to add below registry keys so that .Net uses TLS 1.2 only

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\.NETFramework\v2.0.50727]
"SchUseStrongCrypto"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\.NETFramework\v4.0.30319]
"SchUseStrongCrypto"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Microsoft\.NETFramework\v4.0.30319]
"SchUseStrongCrypto"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Microsoft\.NETFramework\v2.0.50727]
"SchUseStrongCrypto"=dword:00000001
```

4. Reboot the VM
5. Run the encryption again

Root Cause Closing Code - Service Desk

Root Cause - Windows Azure\Compute\Virtual Machine\OS Hardening

To know how to flag a bug on a case please refer to [How to do Proper Case Coding](#)

Need additional help or have feedback?

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