

ADF linked service using HDInsight ESP cluster with SSL error

Last updated by | Veena Pachauri | Mar 8, 2023 at 11:59 PM PST

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Thursday, January 9, 2020
12:59 PM

SME	
Symptoms	<p>ADF linked service using HDInsight ESP cluster</p> <p>TestConnection failed, error message: 'Type=Microsoft.DataTransfer.Execution.Core.ExecutionException,Message=Failed to connect to HDInsight cluster: 'ERROR [HY000] [Microsoft][DriverSupport] (1100) SSL certificate verification failed because the certificate is missing or incorrect. ERROR [HY000] [Microsoft][DriverSupport] (1100) SSL certificate verification failed because the certificate is missing or incorrect.'.Source=Microsoft.DataTransfer.Execution.HDInsightExecutors,StackTrace= at Microsoft.DataTransfer.Execution.HDInsightComputePlugin.Validate(IDictionary`2 propBag) at Microsoft.DataTransfer.TransferTask.InteractiveTaskFactoryV2.ComputeTestConnection(ConnectionSetting connectionSetting, IComputePlugin plugin, TestConnectionV2Response response) at Microsoft.DataTransfer.TransferTask.InteractiveTaskFactoryV2.TestConnection(TestConnectionV2Request request, TestConnectionV2Response response) at Microsoft.DataTransfer.TransferTask.InteractiveTask`2.Execute();'Type=System.Data.Odbc.OdbcException,Message=ERROR [HY000] [Microsoft][DriverSupport] (1100) SSL certificate verification failed because the certificate is missing or incorrect. ERROR [HY000] [Microsoft][DriverSupport] (1100) SSL certificate verification failed because the certificate is missing or incorrect,Source=,StackTrace= at System.Data.Odbc.OdbcConnection.HandleError(OdbcHandle hrHandle, RetCode retcode) at System.Data.Odbc.OdbcConnectionOpen..ctor(OdbcConnection outerConnection, OdbcConnectionString connectionOptions) at System.Data.Odbc.OdbcConnectionFactory.CreateConnection(DbConnectionOptions options, DbConnectionPoolKey poolKey, Object poolGroupProviderInfo, DbConnectionPool pool, DbConnection owningObject) at System.Data.ProviderBase.DbConnectionFactory.CreateNonPooledConnection(DbConnection owningConnection, DbConnectionPoolGroup poolGroup, DbConnectionOptions userOptions) at System.Data.ProviderBase.DbConnectionFactory.TryGetConnection(DbConnection owningConnection, TaskCompletionSource`1 retry, DbConnectionOptions userOptions, DbConnectionInternal oldConnection, DbConnectionInternal& connection) at System.Data.ProviderBase.DbConnectionInternal.TryOpenConnectionInternal(DbConnection outerConnection, DbConnectionFactory connectionFactory, TaskCompletionSource`1 retry, DbConnectionOptions userOptions) at System.Data.ProviderBase.DbConnectionInternal.OpenConnection(DbConnection outerConnection, DbConnectionFactory connectionFactory) at System.Data.Odbc.OdbcConnection.Open() at Microsoft.DataTransfer.Execution.HDInsightComputePlugin.Validate(IDictionary`2 propBag);'. Log ID: Error</p>
Cause	<p>It maybe related to System Trust Store. If we need to check further, we need to contact Simba support</p> <p>How to contact Simba Support</p> <p>if below workaround can be helpful.</p>
Resolution	<p>As workaround, we can try to set SSL options to use Trusted Certificates, after that, we need to restart IR service.</p>

Microsoft Integration Runtime > 4.0 > Shared > ODBC Drivers > Microsoft Hive ODBC Driver > lib

Name	Date modified	Type	Size
LibCurl64.DLLA	9/16/2019 9:09 AM	File folder	
OpenSSL64.DLLA	12/17/2019 2:13 PM	File folder	
sasl2	9/16/2019 9:09 AM	File folder	
saslGSSAPI	9/16/2019 9:09 AM	File folder	
saslSSPI	9/16/2019 9:09 AM	File folder	
cacerts.pem	4/29/2019 2:53 PM	PEM File	207 KB
DriverConfiguration64.exe	9/11/2019 3:20 PM	Application	5,265 KB
HiveODBC.did	4/29/2019 2:53 PM	DID File	1 KB
HiveODBC_sb64.dll	9/11/2019 3:21 PM	Application extension	24,287 KB
HiveODBC64.man	4/29/2019 2:53 PM	MAN File	5 KB
libsasl.dll			286 KB
microsoft.hiveodbc.ini			1 KB
sbicudt58_64.dll			
sbicuins8_64.dll			
sbicuuc58_64.dll			
zlibwapi.dll			

Microsoft Hive ODBC Driver Configuration

Authentication

Mechanism: Windows Azure HDInsight Service

Realm:

Host FQDN: _HOST

Service Name: hive

☒ Canonicalize Principal FQDN

☐ Delegate Kerberos Credentials

User Name:

Password:

Delegation UID:

Thrift Transport: HTTP

Proxy Options...

HTTP Options...

SSL Options...

Advanced Options...

Logging Options...

v2.6.7.1007 (64 bit)

OK

Cancel

SSL Options

☒ Enable SSL

☐ Allow Common Name Host Name Mismatch

☐ Allow Self-signed Server Certificate

☒ Use System Trust Store

☒ Check Certificate Revocation

Trusted Certificates

4.0\Shared\ODBC Drivers\Microsoft Hive ODBC Driver\libcacerts.pem

Browse...

Minimum TLS Version: 1.2

☐ Two-way SSL

Client Certificate File

Browse...

Client Private Key File

Browse...

Client Private Key Password

Password Options...

OK

Cancel

FileEditViewFavoritesHelp

Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Hive ODBC Driver\Driver

	Name	Type	Data
> LanguageOverlay			
> LexiconUpdate			
> Location			
> Managed Desktop			
> MBAM			
> MBAMPersistent			
> MdmCommon			
> MdmDiagnostics			
> MediaEngine			
> MediaPlayer			
> MemoryDiagnostic			
> Messaging			
> MessengerService			
> Microsoft Antimalware			
> Microsoft Antimalware Setup			
> Microsoft Camera Codec Pack			
> Microsoft Hive ODBC Driver			
> Driver			
> Microsoft ODBC Driver 13 for SQL Server			
> Microsoft Power BI Desktop			
> Microsoft SDKs			
> Microsoft Security Client			
> Microsoft SQL Server			
> Microsoft SQL Server 2008 Redist			
> Microsoft SQL Server 2012 Redist			
> Microsoft SQL Server 2016 Redist			
> Microsoft SQL Server 2017 Redist			
> Microsoft SQL Server Local DB			
> Microsoft SQL Server Native Client 11.0			
> Microsoft SQL Server vNext CTP1.6 Redis			
> MiracastReceiver			
> MMC			
> Mobile			
> MpSigStub			
> MSBuild			
> MSDE			
> MSDRM			
> MSDTC			
> MSF			
> MSIME			
> MSIPC			
> MSlicensing			
> MSMQ			
> MSN Apps			
> MSODBCSQL13			
> MSOIdentivCRL			

	Name	Type	Data
	DecimalColumnScale	REG_SZ	10
	DefaultStringColumnLength	REG_SZ	65536
	DelegateKrbCreds	REG_SZ	0
	DelegationUID	REG_SZ	
	DriverConfigTakePrecedence	REG_SZ	0
	EnableAsyncExec	REG_SZ	0
	EnableTempTable	REG_SZ	0
	EnableUniqueColumnName	REG_SZ	1
	EncryptedPWD	REG_SZ	
	ERRORMESSAGESPATH	REG_SZ	..\ErrorMessage
	FastSQLPrepare	REG_SZ	0
	FixUnquotedDefaultSchemaNameInQuery	REG_SZ	1
	GetTablesWithQuery	REG_SZ	0
	HDFSTempTableDir	REG_SZ	/tmp/simba
	HDFSUser	REG_SZ	hdfs
	HiveServerType	REG_SZ	2
	HTTPPath	REG_SZ	
	InvalidSessionAutoRecover	REG_SZ	1
	KrbHostFQDN	REG_SZ	_HOST
	KrbServiceName	REG_SZ	hive
	LCaseSspKeyName	REG_SZ	
	LogFileCount	REG_SZ	50
	LogFileSize	REG_SZ	20971520
	LogLevel	REG_SZ	0
	LogPath	REG_SZ	
	LOGTYPE	REG_SZ	FILE
	Min_TLS	REG_SZ	1.2
	RowsFetchedPerBlock	REG_SZ	10000
	ServiceDiscoveryMode	REG_SZ	No Service Discovery
	ServicePrincipalCanonicalization	REG_SZ	1
	ShowSystemTable	REG_SZ	0
	SocketTimeout	REG_SZ	60
	SSL	REG_SZ	1
	TempTableTTL	REG_SZ	10
	ThriftTransport	REG_SZ	2
	TrustedCerts	REG_SZ	C:\Program Files\Microsoft Integration Runtime\4.0...
	TwoWaySSL	REG_SZ	0
	UID	REG_SZ	
	UseNativeQuery	REG_SZ	0
	UseOnlySSPI	REG_SZ	0
	UseProxy	REG_SZ	0
	UseSystemTrustStore	REG_SZ	0
	UseUnicodeSqlCharacterTypes	REG_SZ	0

Sometimes, we may not able to see above registry key, then you can ignore it with the setting suggested from pic 1.

More Information

Created with Microsoft OneNote 2016.

How good have you found this content?

