DSS004 - Data Sync Health Checker

Last updated by | Vitor Tomaz | Sep 22, 2021 at 2:37 AM PDT

In case Data Sync Health Checker is news to you, please check [Data Sync Health Checker](#)

In case you need to monitor Data Sync progress, check [Data Sync Health Checker - Monitoring](#)

Suggestion: Use ASC to fill server and database names in the parameters below before sending instructions to customer to avoid mistakes.

What you can send to customers:

We have a tool called Azure SQL Data Sync Health Checker. This PowerShell script will check if all the metadata of a hub and member is in place and also validate the scopes against the information we have on the sync metadata database (among other validations). This script will not make any changes, will just validate data sync and user objects. It will also gather some useful information for faster troubleshooting.

Can you please give it a run and send me the results?

In order to run it you need to:

1. Open Windows PowerShell ISE

2. Open a New Script window

3. Paste the following in the script window (please note that, except databases and credentials, the other parameters are optional):

```powershell
$parameters = @{
    ## Databases and credentials
    # Sync metadata database credentials (Only SQL Authentication is supported)
    SyncDbServer = '.database.windows.net'
    SyncDbDatabase = ''
    SyncDbUser = ''
    SyncDbPassword = ''

    # Hub credentials (Only SQL Authentication is supported)
    HubServer = '.database.windows.net'
    HubDatabase = ''
    HubUser = ''
    HubPassword = ''

    # Member credentials (Azure SQL DB or SQL Server)
    MemberServer = ''
    MemberDatabase = ''
    MemberUser = ''
    MemberPassword = ''
    # set MemberUseWindowsAuthentication to $true in case you wish to use integrated Windows authentication (M
    MemberUseWindowsAuthentication = $false

    ## Optional parameters (default values will be used if ommited)

    ## Health checks
    HealthChecksEnabled = $true  #Set as $true (default) or $false

    ## Monitoring
    MonitoringMode = 'AUTO'  #Set as AUTO (default), ENABLED or DISABLED
    MonitoringIntervalInSeconds = 20
    MonitoringDurationInMinutes = 2

    ## Tracking Record Validations
    ExtendedValidationsTableFilter = @('All')  #Set as "All" or the tables you need using '[dbo].[TableName1]'
    ExtendedValidationsEnabledForHub = $true  #Set as $true (default) or $false
    ExtendedValidationsEnabledForMember = $true  #Set as $true (default) or $false
    ExtendedValidationsCommandTimeout = 900 #seconds (default)

    ## Other
    SendAnonymousUsageData = $true  #Set as $true (default) or $false
    DumpMetadataSchemasForSyncGroup = '' #leave empty for automatic detection
    DumpMetadataObjectsForTable = '' #needs to be formatted like [SchemaName].[TableName]
}

$scriptUrlBase = 'https://raw.githubusercontent.com/Microsoft/AzureSQLDataSyncHealthChecker/master'
cls
Write-Host 'Trying to download the script file from GitHub (https://github.com/Microsoft/AzureSQLDataSyncHealt
try {
    [Net.ServicePointManager]::SecurityProtocol = [Net.SecurityProtocolType]::Tls12 -bor [Net.SecurityProtocol
    Invoke-Command -ScriptBlock ([Scriptblock]::Create((Invoke-WebRequest ($scriptUrlBase +'/AzureSQLDataSyncH
    }
catch {
    Write-Host 'ERROR: The script file could not be downloaded:' -ForegroundColor Red
    $_.Exception
    Write-Host 'Confirm this machine can access https://github.com/Microsoft/AzureSQLDataSyncHealthChecker/' -
    Write-Host 'or use a machine with Internet access to see how to run this from machines without Internet. S
}
#end
```

4. Set the parameters on the script, you need to set server names, database names, users and passwords.

5. Run it.

6. The major results can be seen in the output window. If the user has the permissions to create folders, a folder with all the resulting files will be created. When running on Windows, the folder will be opened automatically after the script completes. When running on Azure Portal Cloud Shell the files will be stored in the file share (clouddrive). A zip file with all the files (AllFiles.zip) will be created.

How good have you found this content?

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