ApexSQL® Data Diff 2022.02.x

Release Notes

These release notes provide information about the ApexSQL® Data Diff 2022.02.x which is a patch release.

Topics:

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About ApexSQL Data Diff

ApexSQL Data Diff is a SQL Server data comparison and synchronization tool that detects data differences and resolves them without errors. It compares and synchronizes live databases, database backups, and data under source control. ApexSQL Data Diff integrates with SQL Server Management Studio and has a command line interface, to allow for unattended execution.

New Features

This version of ApexSQL Data Diff introduces the following new features, enhancements or deprecations:

Fixes:

- The "Failed to login. Internet connection is required to continue. Click Retry to try again" error is encountered on application start

Getting Started

- For further information about installation and getting started, please check the Quest Knowledge Base or ApexSQL Getting Started.

System requirements

Before installing or upgrading Short Product Name Version, ensure that your system meets the following minimum hardware and software requirements.

Hardware	Dual Core 2.0 GHz CPU 3 GB memory 191 MB disk space
SQL Server	SQL Server 2005 and higher [1] Azure SQL Database [1] Amazon RDS for SQL Server [1]
Add-in integration	Visual Studio 2010 and higher [1] Server Management Studio 2012 and higher [2]
OS	Windows 7 SP1/Windows Server 2008 R2 SP1 and higher [1]
Software	.NET Framework 4.7.2 or higher
Note	Source control integration available for Azure DevOps [4], Git [5], Mercurial [5], Subversion [5] and Perforce [5]

Permissions and additional requirements	Windows user account with administrative privileges See Minimum permissions required to install and use ApexSQL products See Minimum SQL Server permissions for ApexSQL Developer tools See Remote access for SQL Server instance

[1] See Supported systems for exact version support

[2] You can use the latest full-featured backwards compatible SQL Server Management Studio for free. Click here

[4] Azure DevOps Server (TFS) [5] / Azure DevOps Services

[5] Up to the latest version

Supported platforms

Windows version				
Windows 7 SP1 & Windows Server 2008 R2 SP1	Windows Server 2012	Windows 8.1 & Windows Server 2012 R2	Windows 10 & Windows Server 2016	Windows Server 2019
✓	✓	✓	✓	✓

SQL Server version [4]									
	2005	2008	2012	2014	2016	2017		2019 CTP 3	
						Windows	Linux [3]	Windows	Linux [3]
ApexSQL Data Diff	✓	✓	✓	✓	✓	✓	✓	✓	✓

SQL Server edition [4]						
	Express	Standard	Enterprise	Azure SQL Database		Amazon RDS for SQL Server
				Single Database, Elastic Pool	Managed Instance	
ApexSQL Data Diff	✓	✓	✓	✓	✓	✓

Visual Studio add-in integration						
	2010	2012	2013	2015	2017	2019
ApexSQL Data Diff	✓	✓	✓	✓	✓	✓

SQL Server Management Studio add-in integration					
	2012	2014	2016	17	18
ApexSQL Data Diff	✓	✓	✓	✓	✓

Source control systems					
	Azure DevOps [6]	Git [7]	Mercurial [7]	Perforce [7]	Subversion [7]
ApexSQL Data Diff	✓	✓	✓	✓	✓

[3] Tested on Ubuntu 16.04

[4] Including Amazon EC2, Google Compute Engine, and Azure Virtual Machine cloud computing SQL Server instances

[6] Azure DevOps Server (TFS) [7] / Azure DevOps Services

[7] Up to the latest version

Release History (release notes)

Release:	2022.02.0567
Date:	June 10, 2024

Fixes:

- The "Failed to login. Internet connection is required to continue. Click Retry to try again" error is encountered on application start

Release:	2022.01.0564
Date:	March 21, 2022

Enhancements:

- A new warning is added in the Synchronization wizard, alerting the user that the synchronization process will fail when synchronizing a table with a unique index and 'where' clause that only allows one record per parent to be the primary record is used
- Import and Export filter controls are added in the Object filter tab in the New project window
- New ApexSQL Updater allows users to configure advanced updating settings of all installed ApexSQL products
- Application telemetry now collects anonymous data on the use and performance of applications and application components

Fixes:

- 198861: Tables with data including the leading quotes are not synchronized when a live database is the data source and a script folder is the destination data source
- 198438: Data difference view window shows incorrect differences when the data is sorted by a column with the 'int' data type
- 201564: "Unable to cast object of type 'System.DBNull' to type 'System.String'" message is shown when comparing two databases while one database has an external data source
- 205993: The actions list in the Summary and warnings step of the Synchronization wizard is incorrectly displayed when returning to the Synchronization direction step and updating the synchronization direction
- 205992: "There was an error generating the XML document" error is encountered when the editor is changed in the Output options tab in the Synchronization wizard
- 199215: Redundant return code 11 error for unsupported edition appears when using CLI

- 198862: The additional objects appear in the script folder and NULL is shown in the Data difference view window for the fields when the synchronization is finished while using the live database vs script folder
- 198439: The application clientis unresponsive when using mouse scroll in the Data difference view window for product version 2019 R2
- 197148: Incorrect link is used when using Help button in the Resources tab
- 193158: "The 'Stub2019' package did not load correctly" error is encountered when the Visual Studio 2019 is started
- 188883: "The ConnectionString property has not been initialized" message is shown when trying to synchronize live database with Git repository
- 188692: Wrong results are shown in the HMTL interactive report when single row is checked
- 188691: Wrong results are shown in the HMTL simple report when single row is checked
- 170335: "Make sure correct username and password are specified" message is shown when Git source control password is changed in host and updated in the application connection configuration
- 165269: Custom mapped object pairs are not shown in the Object filter tab of the New project window
- 165267: Custom schema mapping is not saved after the comparison process is finished, after the Edit button is clicked from the Home tab and switched to the Object mapping tab
- 161562: All rows for a compared table are checked in the Data difference view panel, upon refresh action is performed after the check-uncheck sequence of events occur
- 163434: Records are not synchronized when a project file is saved from the Object filter tab in the New project window and used in the CLI
- 140586: The main application windows disappear in the case when the primary monitor displaying it is disconnected while sub-application windows are displayed on a secondary monitor
- 151315: The custom object mapping pairs become unpaired when the Refresh button is clicked under the Object mapping tab in the New project window
- 165265: Objects that belong to a schema mapping pair that is removed from the Object mapping tab are compared and shown in the Results grid
- 211792: The state of the check box in the main grid and in the data difference view is not consistent when uncheck columns in the data difference view
- 211791: "Select for synchronization" message in the Output options tab of Synchronization dialog is cut-off when comparing the script folder with path containing more than 40 characters with database

Changes:

- The activation model is switched to Subscription
- Error handling and send logs functionality has been modified
- Trust server certificate option is added under the Connection options dialog
- The application does not support integration into SQL Server Management Studio 2012, 2014, and 2016
- The application does not support integration into Visual Studio 2010, 2012, 2013, and 2015

Release:	2019.03.0535
Date:	February 02, 2021

Fixes:

- 199046: "Object reference not set to an instance of an object" error message is shown on SQL Server Management Studio startup after the add-in installation
- 194741: "Error 547, Severity 16, Line 7366. The ALTER TABLE statement conflicted with the FOREIGN KEY constraint" error is encountered since the Re-enable check constraints with Check option didn't work after the synchronization is finished between two SQL databases
- 188643: Objects under the Object filter tab in the New project window need to be clicked twice on the checkbox to be checked or unchecked after all objects were unchecked first
- 189678: Wrong results are shown in the Data Difference View panel for data that contains (a single quotation mark) (single quotation marks) when comparing a script folder and a SQL database
- 184173: The SQL Server Management Studio is automatically closed when the application is integrated into it

Release:	2019.02.0527
Date:	April 08, 2020

Fixes:

- "Username required" error is encountered when trying to compare databases without permissions to access the master database using SQL Server Management Studio
- "Unable to connect to SQL Server apexsqltesting.database.windows.net. One ore more errors occurred" error is encountered when trying to compare databases without permissions to access the master database
- "The destination information is missing or it is incorrect" error is encountered when trying to compare databases without permissions to access the master database

Release:	2019.01.0522
Date:	January 09, 2020

Enhancements:

- SQL Server 2019 support
- Temporal tables support
- SQL graph tables support
- Pre-comparison quick-check for data differences option is added under the Object filter tab of the New project window
- Play a sound upon finished operation option is added under the General tab of the Options window

Fixes:

- "Reloading metadata failed. Invalid URI: The URI is empty" message is shown when running a project file which contains the Active Directory - Universal with MFA support authentication
- The Data compare query window is not shown when a SQL database is right-clicked and the Set as source or destination command is used in Visual Studio

- Authentication type is automatically changed to the Active Directory - Universal with MFA support authentication when changing SQL Server
- "Reloading metadata failed" error is encountered when trying to compare two Git repositories from Bitbucket.org
- "Specified cast is not valid" error is encountered when the filter option for the column is clicked in the Data Difference view panel
- The Save button is not working properly when editing project settings
- "Execution Timeout Expired. The timeout period elapsed prior to completion of the operation or the server is not responding" error is encountered while retrieving row count for the Row filter dialog
- Backspace key selects text under the condition box of the Filter editor dialog instead of deleting it
- "Item has already been added" error is encountered when all objects are unmapped under the Object mapping tab in the New project window
- The Synchronization summary in the CLI shows that different records are updated, even though the "d" (different) argument is not used in the /records_to_synchronize switch
- The application add-in is integrated in all SQL Server Management Studio and Visual Studio versions through the silent installation even though the /components switch with its values is not specified
- The application cannot be uninstalled if any version of Visual Studio is running, even though the application is not integrated into any VS
- "Value cannot be null" error is encountered when using the Copy cell value right-click command in the Data difference view panel for the Null cell value
- The application's add-in is integrated automatically in SQL Server Management Studio when installed via ApexSQL Installer
- "Check for update failed. Problem occurred connecting to the ApexSQL server" error is encountered when the Get updates button is used from the ApexSQL menu in Visual Studio 2019

Changes:

- Dark theme is now used as the default application theme
- Save as dialogs are now inheriting the application theme

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