

ApexSQL® Build 2024.01

Release Notes

These release notes provide information about the ApexSQL® Build 2024.01 which is a major release.

Topics:

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About ApexSQL Build

ApexSQL Build is a SQL database deployment tool that builds new databases and updates existing ones by packaging SQL scripts, SQL script folders, database snapshots, and scripts under version control into a single deployment SQL script, a C# solution, or an executable installer. It allows specifying the objects to be created or updated, ensures error-free deployment, and more.

New Features

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

Enhancements:

- SQL Server 2022 tolerant support

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.

System requirements

Hardware	Dual Core 2.0 GHz CPU 3 GB memory 133 MB disk space
SQL Server	SQL Server 2005 and higher ^[1] Azure SQL Database ^[1] Amazon RDS for SQL Server ^[1]
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

[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 [3]											
						2017		2019 CTP 3		2022[6]	
	2005	2008	2012	2014	2016	Windows	Linux [2]	Windows	Linux [2]	Windows	Linux [2]
ApexSQL Build	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

SQL Server edition [3]						
	Express	Standard	Enterprise	Azure SQL Database		Amazon RDS for SQL Server
				Single Database, Elastic Pool	Managed Instance	
ApexSQL Build	✓	✓	✓	✓		✓

Source control systems					
	Azure DevOps ^[4]	Git ^[5]	Mercurial ^[5]	Perforce ^[5]	Subversion ^[5]
ApexSQL Build	✓	✓	✓	✓	✓

^[2] Tested on Ubuntu 16.04

^[3] Including Amazon EC2, Google Compute Engine, and Azure Virtual Machine cloud computing SQL Server instances

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

^[5] Up to the latest version

^[6] Tolerant support

Release History [\(release notes\)](#)

Release: 2024.01.0412

Date: July 5, 2024

Enhancements:

- SQL Server 2022 tolerant support

Release: 2022.02.0366

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
- 224253: Building SQL database on Azure SQL Server is unsuccessful followed by the error dialog with the "Server-Scoped Triggers' is not supported in this version of SQL Server" message

Release: 2022.01.0358

Date: October 10, 2022

Fixes:

- 209522: "Partition column 'column_name' has data type data_type1_name which is different from the partition function 'partition_function_name' parameter data type data_type2_name" error is encountered when building a database where the partition function parameter and partition column have different data types

- 206490: "Invalid partition scheme specified" error is encountered when trying to build database which contains partition schema
- 211134: "You can only create a user with a password in a contained database" error is encountered when trying to create a contained database which is linked on the Git repository

Changes:

- [The activation model is switched to Subscription](#)
- Trust server certificate option is added under the Connection options dialog

Release: 2021.01.0345

Date: April 12, 2021

Enhancements:

- [Application telemetry now collects anonymous data on the use and performance of applications and application components](#)
- [ApexSQL Updater is added for configuring advanced updating settings of all installed ApexSQL products](#)

Fixes:

- 195016: Static data is not inserted into the newly created database when the Git repository is used as an input source
- 195015: "The INSERT statement conflicted with the FOREIGN KEY constraint" error is encountered when inserting static data starts for the Git repository as an input source when using the CLI
- 194830: "Could not load file or assembly 'SharpSvn' or one of its dependencies. An attempt was made to load a program with an incorrect format" error is encountered when setting up the Subversion repository as an input source
- 159087: "Could not load file or assembly" error is encountered when the Browse, Test, or Finish button is clicked in the Source control wizard for the Subversion source control repository
- 179048: Static data is not being read from a database code hosted on the Azure DevOps server when setting up the Team Foundation Server repository as a source
- 195139: "TFS server has more than one collection. Specify concrete collection via URL" error is encountered when building a database via CLI from Azure DevOps Server repository
- 194973: "Cannot connect this repository to " error is encountered when using the CLI to build a database from the Mercurial source control repository
- 121767: Neither schema nor data are created when building a database from the Subversion source control repository from the CLI
- 127318: "StartIndex cannot be less than zero" error is encountered when applying source control options in the CLI and the Mercurial repository is used as the input source

- 146791: "Cannot set local path %path%". "The path %path% is already mapped in workspace" error is encountered when the Team Foundation Server repository hosted on Azure DevOps Server is used as a source
- 159657: "Make a sure correct username and password are specified" error is encountered when connecting to the Git source control repository hosted on Azure DevOps Server
- 170336: "Make a sure correct username and password are specified" message is shown when the Git source control password is changed in the host and updated in the application connection configuration
- 187455: Empty project is saved when the Save as button is clicked after the Finish button is clicked in the last step
- 119403: The corresponding CLI switches are not shown in the Save as a batch window when the Consolidate scripts action is used
- 118745: "The ALTER TABLE statement conflicted with the FOREIGN KEY constraint" error is encountered when inserting data from the Mercurial source control repository to a built database from the CLI
- 127337: Missing the Insert into statements in the saved build script for inserting static data when a source control repository is used as an input source
- 203849: Procedures that contain the With results sets command are not loaded in the Build objects step when using a script folder or source control as an input source
- 203065: Default Filestream filegroups are incorrectly scripted without the Contains filestream clause during the build process
- 198051: "Default FILESTREAM filegroup is not available in database" error is encountered when a build script including SQL tables with FILESTREAM is run
- 187453: Partition schemas are incorrectly scripted as filegroups in the build process
- 189904: Data compressed tables are incorrectly scripted as partitioned tables in the build process

Changes:

- [ApexSQL defaults, My defaults, and Save as my defaults functionality has been modified](#)

Release: 2019.03.0322

Date: July 30, 2020

Fixes:

- The Error handling option under the Package tab in the Output options step is not saved when an executable installer is created
- "Could not find file .dat" error is encountered when the Edit existing database option is used in a created executable installer and the Run button is clicked
- "Parameter or variable has an invalid type" error is encountered when the building process is started using a scripts folder as the Input source
- "Cannot find data type < table_name > " error is encountered when building a SQL database from a scripts folder
- "Could not load file or assembly" error is encountered when linking to the Git repository hosted on Azure DevOps Services using visualstudio.com URL

Changes:

- Error handling and send logs functionality has been modified

Release: 2019.02.0311

Date: March 13, 2020

Enhancements:

- Custom filegroups are now created immediately after the database is created

Fixes:

- "Object ApexSql.Common.ScriptMetadata.Internal.Enums.SqlTypes [sys].[TT_Tax_Delta_0] is ignored: object already exists" error is encountered when multiple data type objects with same name that belong to different schemas exist in a script folder
- Generated build script does not contain statements to create data types when multiple data type objects with same name that belong to different schemas exist in a script folder
- The install confirmation message box appears when the /verysilent and /suppressmsgboxes options from CLI are used

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