

# ApexSQL Model

Version 2018.x

Release Notes and Requirements

## System requirements

<b>Hardware</b>	Dual Core 2.0 GHz CPU 4 GB memory 88 MB disk space
<b>SQL Server</b>	SQL Server 2005 and higher <sup>[1]</sup> Azure SQL Database <sup>[1]</sup> Amazon RDS for SQL Server <sup>[1]</sup>
<b>Add-in integration</b>	SQL Server Management Studio 2012 and higher <sup>[2]</sup> Visual Studio 2010 and higher <sup>[2]</sup>
<b>OS</b>	Windows 7 SP1/Windows Server 2008 R2 SP1 and higher <sup>[1]</sup>
<b>Software</b>	<a href="#">.NET Framework 4.7.2</a> or higher
<b>Permissions and additional requirements</b>	Windows user account with administrative privileges  See <a href="#">Minimum permissions required to install and use ApexSQL products</a>  See <a href="#">Minimum SQL Server permissions for ApexSQL Developer tools</a>  See <a href="#">Remote access for SQL Server instance</a>

<sup>[1]</sup> See [Supported systems](#) for exact version support



Visual Studio add-in integration						
	2010	2012	2013	2015	2017	2019
<a href="#">ApexSQL Model</a>	✓	✓	✓	✓	✓	✓

SQL Server Management Studio add-in integration					
	2012	2014	2016	17	18
<a href="#">ApexSQL Model</a>	✓	✓	✓	✓	✓

<sup>[3]</sup> Tested on Ubuntu 16.04

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

## Getting Started

For further information about installation and getting started, please check the [Quest Knowledge Base](#) or [ApexSQL Getting Started](#).

## Release Notes [\(release history\)](#)

Release: 2018.04.0113  
 Date: June 21, 2019

### Changes:

- Software Transaction Agreement is added as a new step in the installation wizard and updated in accordance with <https://www.quest.com/legal/sta.aspx>

Release: 2018.04.0104  
 Date: May 22, 2019

### Fixes:

- "Index was outside the bounds of the array" error is encountered when the saved project file is opened with a double-click on it
- "Requested value 'Compact orthogonal' was not found" error is encountered when the model saved in the compact orthogonal layout is opened
- "Requested value 'Direct orthogonal' was not found" error is encountered when the model saved in the direct orthogonal layout is opened
- "Object reference not set to an instance of an object" error is encountered when the OK button is clicked in the Connection options dialog after changing value for timeout options
- Data type settings cannot be changed under the Data type column in the Add table window
- The add-in doesn't integrate with SQL Server Management Studio 18 GA version

Release: 2018.03.0090

Date: February 12, 2019

Fixes:

- Data type column in the Add table window must be used only with predefined data types

Changes:

- ApexSQL parent menu of the add-in is now located under the Extensions main menu in Visual Studio 2019

Release: 2018.02.0088

Date: December 27, 2018

Enhancements:

- SQL Server 2019 CTP 2.0 support
- SQL Server Management Studio integration support
- Visual Studio integration support
- Azure SQL Database– Managed instance support
- Active Directory support for:
  - [Password authentication](#)
  - [Integrated authentication](#)
  - Universal with MFA support authentication
- [New error handling and send logs functionality](#)
- [Improved application installer with a dark theme](#)
- [New application icon](#)
- Create database from model:
  - Create script
  - Create database
- Update existing database:
  - Create synchronization script
  - Update database

- Update existing database in one click
- Create DDL script from existing model
- Compare model to database via ApexSQL Diff
- Compare model to snapshot via ApexSQL Diff
- Document model via ApexSQL Doc
- Add notes on database diagram
- Model categories to group models visually
- Customizable output script header and footer are added under the Output tab in the Model options window
- Customizable arguments for updating database via ApexSQL Diff are added under the Output tab in the Model options window
- Schema customization is added in the Table design window
- Table style options are added in the Options window
- Printer friendly option added
- Convert colored group to text option is added in Print window
- Added status bar information:
  - Groups number
  - Server name
  - Project version
  - Unsaved changes indicator
- Project level options:
  - Associated database
  - Project version
  - Application output options on project level
- Improved table design/display options:
  - Background color is following themes
  - Syntax highlighting option for data types and keys is added
  - Icons for keys are added
  - PK separator option is added
  - Options for customizing header are added
  - Options for customizing displayed columns are added
  - Option for customizing nullable column name
- Improved design of groups on diagram with styles
- Improved print options to be more user friendly
- Search feature is improved
- Added schemas in search feature
- Added groups in search feature
- Option for creating backup of a database before update database is added under the Output tab in the Options window
- Option for creating rollback script before update database is added under the Output tab in the Options window
- Option for creating snapshot before update database is added under the Output tab in the Options window

Fixes:

- Print preview is not refreshed when an option is changed in the Print options window
- Image of an empty diagram can be exported
- Snapshot of an empty diagram can be exported
- ApexSQL Diff not installed message is shown when update/create process is started instead before starting it
- There is no information about ApexSQL Diff trial period expired when forward engineering action is initiated
- Models in dark theme aren't printer friendly

#### Changes:

- ApexSQL Model is now free and has no editions
- The application now requires Microsoft .NET framework 4.7.2
- Reverse engineer feature is now Create model feature
- Forward engineering feature is separated into:
  - Create database feature
  - Update database feature
- Custom task feature has been removed
- Excessive icons reduced from table displays
- Print preview is improved to follow application themes
- Regions are removed and will be improved for ApexSQL Model 2019

#### Known issues:

- Backups are created in the same location, even when the location is changed, until the application is restarted
- ApexSQL Model 2018 R2 isn't backward compatible with R1. See [this](#) article for information on upgrading models

Release: 2018.01.0050

Date: May 10, 2018

#### Features:

- [High DPI and 4K resolution support](#)
- [Applied concepts of Visual Language Dictionary for Visual Studio for iconography, imagery, colors, menus, fonts, formatting and other GUI elements](#)
- Supports SQL Server 2005 or higher, Azure SQL Database and Amazon RDS for SQL Server
- Database modeling
- Data model diagrams
- Forward engineering
- Reverse engineering
- Model history navigation
- Object grouping options
- Diagram layout customization
- Edge routing customization

- Autosave models
- Snapshot models
- Export model diagrams into BMP, JPEG and PNG formats
- Print model diagrams
- Export model as snapshot
- Create executable custom tasks
- Customizable keyboard shortcuts
- GUI themes