ApexSQL® Enforce 2019.x

Release Notes

These release notes provide information about the ApexSQL® Enforce 2019.x which is a patch release.

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About ApexSQL Enforce

ApexSQL Enforce is a best practices enforcement tool for SQL Server database objects and scripts. It comes with an integrated editor featuring code auto-complete for writing custom rules and has more than 100 out of the box rules covering SQL best practices, naming conventions, potential configurations and more.

New Features

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

Fixes:

- "208616: "Error encountered and application needs to be closed" message is shown when the "Edit condition" option is selected from the context menu for the displayed rules.

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 114 MB disk space
SQL Server	SQL Server 2005 and higher [1] Azure SQL Database [1] Amazon RDS for SQL Server [1]
Add-in integration	SQL Server Management Studio 2012 and higher [2] Visual Studio 2010 and higher [1]
OS	Windows 7 SP1/Windows Server 2008 R2 SP1 and higher [1]
Software	.NET Framework 4.7.2 or higher
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

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 Enforce	✔	✔	✔	✔	✔	✔	✔	✔	✔

SQL Server edition [4]			
Express	Standard	Enterprise	Azure SQL Database

				Single Database, Elastic Pool	Managed Instance	Amazon RDS for SQL Server
ApexSQL Enforce	✔	✔	✔	✔	✔	✔

Visual Studio add-in integration						
	2010	2012	2013	2015	2017	2019
ApexSQL Enforce	✔	✔	✔	✔	✔	✔

SQL Server Management Studio add-in integration					
	2012	2014	2016	17	18
ApexSQL Enforce	✔	✔	✔	✔	✔

[3] Tested on Ubuntu 16.04

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

Product licensing

ApexSQL offers 2 types of licenses:

1. Individual license
For applications licensed per user, an individual license is for the use of a single user only. This means that only 1 user can use 1 license. If there are multiple users, multiple licenses are needed.

For applications licensed per instance, an individual license is to be used on a single SQL Server instance only. If there are multiple instances, multiple licenses are needed.

2. Enterprise license

An enterprise license can be activated on an unlimited number of instances and can be used by an unlimited number of users, without geographical limitations.

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

Release:	2019.03.0299
Date:	June 14, 2021

Fixes:

- 208616: "Error encountered and application needs to be closed" message is shown when the "Edit condition" option is selected from the context menu for the displayed rules

Release:	2019.02.0296
Date:	February 12, 2021

Fixes:

- 198602: "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

Release:	2019.01.0293
Date:	December 17, 2019

Enhancements:

- SQL Server 2019 support

Fixes:

- The application cannot be uninstalled if any version of SQL Server Management Studio is running, even though the application is not integrated in it
- The application cannot be uninstalled if any version of Visual Studio is running, even though the application is not integrated in it
- The application can be uninstalled, even when the application GUI is running

Release:	2018.07.0283
Date:	August 14, 2019

Fixes:

- SQL Server Management Studio stops working when the Run best practices command from the right-click context menu in Object Explorer panel is clicked for SQL Server Reporting Services

Changes:

- Rule descriptions are now more detailed and descriptive
- The following rules have been deprecated:
    - APX1098 - "Execute statement"
    - APX1142 - "Nolock hint"
    - APX1279 - "Schema name not specified"
    - APX1290 – "Set offsets"

Release:	2018.06.0276
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:	2018.06.0272
Date:	May 30, 2019

Fixes:

- The application doesn't integrate with SQL Server Management Studio 18 GA version

Release:	2018.05.0266
Date:	March 06, 2019

Enhancements:

- Visual Studio 2019 integration support

Changes:

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

Release:	2018.04.0263
Date:	January 31, 2019

Enhancements:

- SQL Server 2019 CTP 2.0 support
- SQL Server Management Studio 18 integration support
- New error handling and send logs functionality
- Improved application installer with a dark theme
- New application icon
- Multi violations per rule is added

Fixes:

- The "Open log" option in the main ribbon doesn't work
- "StartIndex cannot be less than zer" error is encountered when the Cancel button is clicked on in the Process rulebase dialog
- ApexSQL Enforce is closed when empty space in the Output file name field of the Options dialog is selected and a new tag is added
- ApexSQL Enforce is closed when the OK button in the Process rulebase window is clicked on without SQL Server selection
- "StartIndex cannot be less than zero" error is encountered when the ''Save as batch'' option is clicked on without previously checked rules
- ApexSQL Enforce is opened in the Community edition when the "Extend evaluation" option is clicked on

Changes:

- The application now requires Microsoft .NET Framework 4.7.2

Release:	2018.03.0244
Date:	July 19, 2018

Fixes:

- "Do you want to install .NET Framework 4.7.1" message is shown when installing the app via CLI using /VERYSILENT and /SUPPRESSMSGBOXES switches
- The Rule column filter in the Resultset grid does not show filtered objects
- "Unexpected error occurred." error is encountered when running rules against a database with the user who only has the db_owner permission
- The HTML report exporting option settings in the stand-alone application are not remembered
- All databases from the chosen Server are checked for permissions when rules are run against one database
- Required permissions are checked for all existing databases on the chosen SQL Server
- The following rules fail if the condition is met:

- o "Statement without TRY...CATCH"
- o "Use of @, @@, or @@ as Transact-SQL identifiers"
- o "Space separator for table hints"
- o "Schema name not specified"
- o "Missing primary key"
- o "Missing clustered index"

Release:	2018.02.0230
Date:	May 17, 2018

Enhancements:

- 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
- Ignore options for object pairs, objects and script block
- Support for SQL Server Management Studio 2012 integration and higher
- Support for Visual Studio 2010 integration and higher
- Project file can now be saved as a batch file
- CLI switches:
  - o Run all rules from the selected rulebase [/rar]
  - o Specify the ignore file path [/if:arg]
  - o Run only checked rules [/rcr:arg]
- In the Result summary form the following is now available:
  - o Graphical representation of the resultset
  - o Detailed rule execution results by category and type
- Added more than 30 new rules

Fixes:

- The application remains in the Community edition even after it has been activated with the appropriate key
- The "Object reference not set to an instance of an object" error is encountered when running a set of rules against a database with no relevant objects
- Running rules is disabled in the Standard edition
- The "There are no active rules in the current rulebase" error is encountered when running rules from the ApexSQL rulebase via CLI if there are no previously selected rules in the application
- The application repeatedly asks for the activation key when it is started on an Amazon EC2 instance after the virtual machine resources were deallocated and allocated again
- The "ApexSQL Enforce is not installed" error is encountered during the ApexSQL DevOps toolkit Review step execution
- The installation of a new version does not delete the previous one from the Control panel

Changes:

- Threshold options are moved to the Threshold tab in the Options dialog
- The CLI return code for pass is now set to zero when running rules via CLI
- The CLI return code for failure on processed database is changed from 101 to 102
- The application now requires Microsoft .NET Framework 4.7.1
- The Rulebase grid is now grouped by Category column and sort by the Severity column
- The Reslutset grid is now grouped by the Result column and sort by the Severity column
- All rules now have the descriptive message for the failure reason
- Rulebase now can be run unattended on both databases and SQL scripts
- The Rulebase Object explorer pane is grouped by the Common statements and the Objects

Release:	2018.01.0137
Date:	November 14, 2017

Features:

- Supports SQL Server 2005 or higher, Azure SQL Database and Amazon RDS for SQL Server
- Run rules against scripts or databases
- Write new rules in C# and VB.NET
- Modify existing rules
- Code auto-complete in the internal editor
- Categorize rules
- Import rules into rulebases
- Compare two rulebases including individual rules
- Generate and run Fix SQL scripts
- Detailed rule execution results summary
- Command line interface
- Community, Standard and Professional editions
- HTML resultset reports
- XML resultset export
- GUI themes

About us

Quest creates software solutions that make the benefits of new technology real in an increasingly complex IT landscape. From database and systems management, to Active Directory and Office 365 management, and cyber security resilience, Quest helps customers solve their next IT challenge now. Around the globe, more than 130,000 companies and 95% of the Fortune 500 count on Quest to deliver proactive management and monitoring for the next enterprise initiative, find the next solution for complex Microsoft challenges and stay ahead of the next threat. Quest Software. Where next meets now. For more information, visit www.quest.com.

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Technical Support Resources

Technical support is available to Quest customers with a valid maintenance contract and customers who have trial versions. You can access the Quest Support Portal at https://support.quest.com.

The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. The Support Portal enables you to:

- Submit and manage a Service Request
- View Knowledge Base articles
- Sign up for product notifications
- Download software and technical documentation
- View how-to-videos
- Engage in community discussions
- Chat with support engineers online
- View services to assist you with your product.