

ApexSQL DevOps toolkit – TeamCity plugin

Version 2019.x

Release Notes and Requirements

System requirements

ApexSQL DevOps toolkit	
Hardware	Dual Core 2.0 GHz CPU 4 GB memory
SQL Server	SQL Server 2005 and higher ^[1]
OS	Windows 7 SP1/Windows Server 2008 R2 SP1 and higher ^[1]
Software	.NET Framework 4.7.2 or higher ApexSQL Build 2018 R4 ^[3] ApexSQL Data Diff 2018 R6 ^[3] ApexSQL Diff 2018 R5 ^[3] ApexSQL Doc 2018 R4 ^[3] ApexSQL Enforce 2018 R6 ^[3] ApexSQL Generate 2018 R4 ^[3] ApexSQL Mask 2019 R2 ^[3] ApexSQL Script 2018 R4 ^[3] ApexSQL Trigger 2018 R3 ^[3] ApexSQL Unit Test 2018 R4 ^[3]
Note	The number of ApexSQL tools required is based on how extensive a CI/CD workflow pipeline is and how many steps it includes Source control integration available for Azure DevOps ^[4] , Git ^[5] , Mercurial ^[5] , Subversion ^[5] and Perforce ^[5]

Permissions and additional requirements	<p>Windows user account with administrative privileges</p> <p>See Minimum permissions required to install and use ApexSQL products</p> <p>See Minimum SQL Server permissions for ApexSQL Developer tools</p> <p>See Remote access for SQL Server instance</p> <p>See How to setup image based database provisioning</p>
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Azure DevOps Server (TFS) / Azure DevOps Services plug-in

Hardware	214 KB disk space
Software	TFS 2015 Update 2 or higher, Azure DevOps Services

Bamboo plug-in

Hardware	1.65 MB disk space
Software	Atlassian Bamboo 6.6.3 or higher

Jenkins plugin

Hardware	5.8 MB disk space
Software	Jenkins 2.138 or higher

Octopus Deploy step templates

Hardware	32 KB disk space
Software	Octopus v2018.9.11 or higher
PowerShell scripts	
Hardware	500 KB disk space
Software	PowerShell 5.0 NuGet 3.5.0 or higher
TeamCity plug-in	
Hardware	16.3 MB disk space
Software	TeamCity 10.0 or higher
Web dashboard	
Hardware	164 MB disk space
Software	Internet Explorer 11 or higher Edge build 14393 or higher Chrome 50 or higher Mozilla Firefox 50 or higher Opera 40 or higher
Port	TCP port 5019 (http) and 4443 (https) on ApexSQL DevOps toolkit - Web Dashboard web server (configurable)

^[1] See [Supported systems](#) for exact version support

^[3] The minimum required version

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

^[5] Up to the latest version

Supported Software

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 DevOps toolkit	✓	✓	✓	✓	✓	✓	✓	✓	✓

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

Source control systems					
	Azure DevOps ^[6]	Git ^[7]	Mercurial ^[7]	Perforce ^[7]	Subversion ^[7]
ApexSQL DevOps toolkit	✓	✓	✓	✓	✓

^[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

Getting Started

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

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

ApexSQL DevOps toolkit – TeamCity plugin

Release: 2019.02.0182

Date: August 23, 2019

Enhancements:

- Provision a database
- Backup database
- Compare production database with source control
- Validate schema changes
- Format and obfuscate SQL code
- Sync step can be sourced directly from source control
- Sync data step can be sourced directly from source control

Fixes:

- “Additional parameters field contains invalid value” error is encountered when a CLI parameter that has space delimited arguments is added
- Static data is included in the package when the Include static data option in the Build step is unchecked

Changes:

- Control to change the source for the Sync step is now a select box
- Control to change the source for the Sync data step is now a select box
- Data sync step is now Sync data step
- Schema sync step is now Sync step

Release:	2018.06.0078
Date:	December 04, 2018

Enhancements:

- Support for TeamCity 2018.1.3 (build 58658)

Fixes:

- Package step extracts synthetic data from the test database when script folder is created

Release:	2018.05.0077
Date:	November 01, 2018

Enhancements:

- Environmental variable %apexsql.outputPath% is added to use as the current execution output path
- The “Exclude tables” option is added in the Audit step

Changes:

- ApexSQL Trigger project file is now mandatory in the Audit step in order to provide audit architecture and repository database information
- ApexSQL Enforce rulebase file upload is replaced with the file path text box in the Review step
- Audit step no longer overwrites existing table triggers
- Separate output folder is created for each consecutive build

- SQL Server and database connection parameters are no longer mandatory when project file is used

Release: 2018.04.0055
Date: October 11, 2018

Changes:

- ApexSQL CI/CD toolkit – TeamCity plugin name is changed into ApexSQL DevOps toolkit – TeamCity plugin

Release: 2018.01.0001
Date: May 11, 2018

Features:

- Continuous integration:
 - Build a SQL Server database directly from source control and optionally include static data
 - Fill empty tables with synthetic data
 - Integrate trigger-based audit trails and reporting into change sensitive database objects
 - Generate full or differential documentation for the SQL Server database
 - Test SQL Server database using unit tests
 - Enforce database best practices by reviewing, detecting and fixing issues
 - Create a clean database package for easy deployment
 - Publish package to a designated NuGet feed
- Continuous delivery:
 - Compare SQL Server database schemas and create a script for schema synchronization
 - Compare SQL Server static data and create a script for data synchronization
 - Push schema and data changes to a target database
- Archive all output files in a central folder
- Automatically create rollback scripts
- Flexible pipelines