



Damon freut sich auf Weihnachten und 2023 (Foto: Dirk Hondong)

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Weihnachtsgruß 2022

Liebe Data Platform Community!

Das Jahr 2022 ist fast vorbei und wie jeden Dezember fassen wir es in unserem Newsletter zusammen. War es ein gutes Jahr? Mit allen Krisen, welche auf unsere Gesellschaft eingeschlagen sind, würden wir sagen „sicher nicht“. War es ein gutes Jahr für unsere Community? „Definitiv ja“, denn der PASS Deutschland e.V. kann auf ein erfolgreiches und wiederbelebtes 2022 zurückblicken.

Nach zwei Jahren „Virtualisierung“ konnten wir ENDLICH wieder in unseren Chapters starten, ENDLICH wieder Face2Face Community. Seit dem Sommer finden in vielen Regionen wieder Treffen statt und es werden immer mehr. Damit die Community auch schön an Weihnachten zusammensitzen kann, sponsert der Verein zentral jede RG mit 300,00 Euro Weihnachtzuschuss damit wir das Jahr schön ausklingen lassen können. Auf unserer Webseite findet Ihr die aktuellen und geplanten Veranstaltungen unter:

<https://www.sqlpass.de/regionalgruppentreffen>

Dank der Möglichkeit sich persönlich treffen zu können, ergriffen wir auch die Chance, erneut ein PASS Camp zu veranstalten. Vom 27. bis zum 30.06.2022 fand das Event an gewohnter Stelle bei der Lufthansa in Seeheim statt. Ausverkauft, nur diesmal im Sommer, kam auch ordentlich Stimmung auf. Diesmal ohne Glühwein, dafür mit ordentlich Cocktails auf der Terrasse, nach bestmöglichen Hygienerichtlinien und mit viel neuer Dataplattform-Tech, wurde ein sehr erfolgreiches Camp mit glücklichen und zufriedenen Campern gewinnbringend für den Verein durchgeführt. Wir danken nochmals allen Sprecher:innen für das Commitment und freuen uns darauf in 2023, dann aber wieder Ende November / Anfang Dezember, ein PASS Camp zu veranstalten. Stay tuned!

Zusätzlich zum PASS Camp 2022 fand am 27.06.2022, bei sommerlichen Temperaturen, auch eine Mitgliederversammlung mit Wahl des Vorstandes statt. Die Hoffnung, mit einer hybriden Versammlung mehr Menschen zur Vorstandswahl zu bewegen, wurde leider nicht erfüllt. Den neuen Vorstand (in weihnachtlicher Stimmung) seht Ihr wie folgt unten im Bild:



Klaus Höltgen, Oliver Engels, Ben Kettner, Frank Geisler, Constantin „Kostja“ Klein

















Mehr über die Vorstandswahl findet Ihr auf unserer Webseite:

<https://www.sqlpass.de/vorstandswahl-und-neuer-vorstand-2022-2024/>

Aus dem Vorstand ausgeschieden ist unser langjähriger Vize, Tillmann Eitelberg, dem wir hiermit nochmals großen Dank aussprechen für seine Arbeit als RGV-Chef über viele, viele Jahre. Wir freuen uns sehr, dass er dem Verein als Chapter Leader der Regionalgruppe Rheinland und der Community im Allgemeinen erhalten bleibt.

Liste der Regionalgruppen PASS Deutschland e.V.

Details zu den einzelnen Treffen werden auf der Website oder bei MeetUp angekündigt. Bitte wende Dich an die angegebenen Ansprechpartner der jeweiligen Regionalgruppen. Die Mailadressen findest Du auf der jeweiligen Webseite. (RGV = Regionalgruppenverantwortliche)

	RGV	Siegfried Spuddig, Erik Esmaty
	Webseite	https://www.sqlpass.de/groups/rg-bayern
	MeetUp	https://www.meetup.com/de-DE/pass-bayern/
	RGV	Markus Raatz, Georg Urban, Benjamin Kettner
	Webseite	https://www.sqlpass.de/groups/rg-berlin/
	MeetUp	https://www.meetup.com/de-DE/PASS-Usergroup-Berlin/
	RGV	Mark Kuschel, Stefan Dase
	Webseite	https://www.sqlpass.de/groups/rg-bremen/
	MeetUp	https://www.meetup.com/de-DE/PASS-SQL-User-Group-Bremen
	RGV	William Durkin
	Webseite	https://www.sqlpass.de/groups/rg-emsland/
	MeetUp	
	RGV	Michael Deinhard, Michael Kugler
	Webseite	https://www.sqlpass.de/groups/rg-franken/
	MeetUp	https://www.meetup.com/de-DE/SQLPass-Regionalgruppe-Franken/
	RGV	Sascha Lorenz, Cornelia Matthesius
	Webseite	https://www.sqlpass.de/groups/rg-hamburg/
	MeetUp	https://www.meetup.com/de-DE/Hamburger-MS-SQL-Server-Usergroup-by-PASS-Deutschland-e-V/
	RGV	Christoph Seck, Vladimir Stepa, Marcus Möhle
	Webseite	https://www.sqlpass.de/groups/rg-hannover/
	MeetUp	https://www.meetup.com/de-DE/PASS-RG-Hannover-Meetup/
	RGV	Stefan Kirner, Michael Riedmüller
	Webseite	https://www.sqlpass.de/groups/rg-karlsruhe/
	MeetUp	https://www.meetup.com/pass-karlsruhe/events/?_locale=de-DE
	RGV	Benjamin Machuletz, Johannes Curio, Philipp Lenz
	Webseite	https://www.sqlpass.de/groups/rg-mittelrhein/
	MeetUp	
	RGV	Frank Geisler, Dirk Hondong
	Webseite	https://www.sqlpass.de/groups/rg-muensterland/
	MeetUp	https://www.meetup.com/de-DE/pass-deutschland-e-v-regionalgruppe-munsterland
	RGV	Oliver Engels, Nina Weisheidinger, Alexander Karl
	Webseite	https://www.sqlpass.de/groups/rg-rhein-main/
	MeetUp	https://www.meetup.com/de-DE/PASS-Usergroup-Rhein-Main/
	RGV	Tillmann Eitelberg, Christoph Muthmann, Ralph Depser
	Webseite	https://www.sqlpass.de/groups/rg-rheinland/
	MeetUp	https://www.meetup.com/de-DE/PASS-Microsoft-Data-Platform-Usergroup-Rheinland/
	RGV	Klaus Hoeltgen, Gabi Münster
	Webseite	https://www.sqlpass.de/groups/rg-ruhrgebiet/
	MeetUp	
	RGV	Thomas Jorzig, Ralf Dietrich, Michael Werner
	Webseite	https://www.sqlpass.de/groups/rg-sachsen/
	MeetUp	
	RGV	Michael Niethammer, Jochen Stein
	Webseite	https://www.sqlpass.de/groups/rg-stuttgart/
	MeetUp	
	RGV	Lars Platzdasch, Andre Wittmer, Markus Kepert
	Webseite	https://www.sqlpass.de/groups/rg-thueringen/
	MeetUp	https://www.meetup.com/de-DE/PASS-Usergroup-Thueringen/

Den Newsletter Online lesen! Auf ISSUU (www.issuu.com)!

Seit März 2014 gibt es unseren Newsletter auch als E-Magazin auf www.issuu.com. Zum Studieren benötigt man nur einen Browser (oder eine IOS- oder Android App) und alle Links aus dieser Ausgabe funktionieren auch direkt aus dem E-Magazin heraus. Am leichtesten findest Du unseren Newsletter über den Suchtag SQLPASS oder über den Direktlink für den aktuellen Newsletter:

https://issuu.com/sqlpass/docs/newsletter_2022-12

Blogs von Mitgliedern des Pass Deutschland e.V.!

Liebe Newsletter-Leser!

Ansprechpartner: Nina Weisheidinger

Blog-Liste (bereits früher veröffentlicht)
(nach Vornamen der Autoren sortiert)

Blog: ORDIX BLOG

URL: <https://blog.ordix.de/categories/microsoft-sql-server/>

Autor: **Andreas Jordan** (Rhein-Main) und **Kollegen**

Schwerpunkte: Datenbank-Administration

Blog: SQL Server Data Platform blog by Andreas Wolter

URL: <http://andreas-wolter.com/blog/>

Autor: **Andreas Wolter** (Rhein-Main)

Schwerpunkte: Datenbank-Administration, Performance und Sicherheit

Blog: Arno Cebulla über Information Design mit MS SSRS

URL: <http://blog.oraylis.de/author/acebulla/>

Autor: **Arno Cebulla** (Rheinland)

Schwerpunkte: Business Intelligence

Blog: Continuous Intelligence

URL: <http://www.continuous-intelligence.de>

Autor: **Dr. Benjamin Kettner** (Berlin)

Schwerpunkte: Business Intelligence

Blog: T-SQL Ninja

URL: <https://www.tsq-ninja.com/>

Autor: **Dr. Benjamin Kettner, Frank Geisler**
(Berlin, Lüdinghausen)

Schwerpunkte: T-SQL

Blog: Solisyon SQL Blog

URL: <http://www.solisyon.de/sqlblog/>

Autor: **Benjamin Weissman** (Franken)

Schwerpunkte: Business Intelligence

Blog: SQL aus Hamburg

URL: <http://www.sql-aus-hamburg.de>

Autor: **Björn Peters** (Hamburg)

Schwerpunkte: Datenbank-Administration

Blog: Architektur und Administration

URL: <http://www.insidesql.org/blogs/cmu/>

Autor: **Christoph Muthmann** (Rheinland)

Schwerpunkte: Datenbank-Administration

Blog: sqlXpert GmbH Blog

URL: <http://www.sqlxpert.de/blogsqlxpert/>

Autoren: **Daniel Caesar** (Berlin) und **Imke Feldmann** (Berlin)

Schwerpunkte: Business Intelligence

Blog: Dirk Hondong's blog

URL: <https://dirkhondong.wordpress.com/>

Autor: **Dirk Hondong** (Ruhrgebiet)

Schwerpunkte: Datenbank-Administration

Blog: GDS Business Intelligence Blog

URL: <http://gds-business-intelligence.de/de/category/sql-server/>

Autor: **Frank Geisler** (Lüdinghausen)

Schwerpunkte: Business Intelligence und Entwicklung

Blog: The Bliccountant by Imke Feldmann

URL: <https://www.thebliccountant.com/>

Autor: **Imke Feldmann** (Berlin)

Schwerpunkte: Business Intelligence

Blog: Klaus Oberdalhoff

URL: <http://www.insidesql.org/blogs/klausobd/>

Autor: **Klaus Oberdalhoff** (Franken & Bayern)

Schwerpunkte: Administration und Allgemein, speziell auch zu MS-Access

Blog: Kostja's .NETte Welt

URL: <https://kostjaklein.wordpress.com/>

Autor: **Kostja Klein** (Rhein-Main)

Schwerpunkte: Entwicklung

Blog: Ceteris AG BI Blog

URL: <http://www.ceteris.ag/blog>

Autor: **Markus Raatz** (Berlin)

Schwerpunkte: Business Intelligence

Blog: New Row – My journey through Business Intelligence and ...

URL: <http://www.martinguth.de/>

Autor: **Martin Guth** (Karlsruhe)

Schwerpunkte: Business Intelligence

Blog: Michal Dvorak aka Nolock über Power BI

URL: <https://twitter.com/nolockcz>

Autor: **Michal Dvorak** (Karlsruhe)

Schwerpunkte: Power BI, Power Query, M

Blog: Nikoport - SQL Server, Community, Development and Web adventures

URL: <http://www.nikoport.com>

Autor: **Niko Neugebauer** (Rhein-Main)

Schwerpunkte: SQL Server allgemein

Blog: flip-it.de :: SQL and more

URL: <http://www.flip-it.de>

Autor: **Philipp Lenz** (Mittelrhein)

Schwerpunkte: Business Intelligence

Blog: About SQL Server Basics and in-depth

URL: <http://dirtyread.de>

Autor: **Robert Hartmann** (Franken)

Schwerpunkte: SQL Server allgemein

Blog: Robert Panther on SQL Server

URL: <http://pantheronsql.wordpress.com>

Autor: **Robert Panther** (Rhein-Main)

Schwerpunkte: SQL Server allgemein

Blog: Sascha Lorenz aus Hamburg über die Themen Microsoft SQL Server, SharePoint, .NET Technologien und ganz allgemein über Business Intelligence

URL: <http://saschalorenz.blogspot.com>

Autor: **Sascha Lorenz** (Hamburg)

Schwerpunkte: Business Intelligence

Blog: GlorfIT

URL: <http://glorf.it>

Autor: **Thomas Glörfeld** (Franken)

Schwerpunkte: SQL Server allgemein

Blog: Tillmann Eitelberg & Oliver Engels zu SSIS-Components

URL: <http://www.ssis-components.net>

Autoren: **Tillmann Eitelberg** (Rheinland)
und **Oliver Engels** (Rhein-Main)

Schwerpunkte: Integration-Services

Blog: TORSTEN SCHUESSLER | Sapere aude! (aka tosc)

URL: <http://www.insidesql.org/blogs/tosc/>

Autor: **Torsten Schüßler** (Franken)

Schwerpunkte: SQL Server allgemein

Blog: arelium BLOG

URL: <https://www.arelidium.de/blog/>

Autor: **Torsten Ahlemeyer** (Rheinland)

Schwerpunkte: Rund um den SQL-Server und BI

Blog: Inside SQL Server - Unleash the Power of Microsoft SQL Server

URL: <https://inside-sqlserver.com/#Blog>

Autor: **Torsten Strauß** (Ruhrgebiet)

Schwerpunkte: SQL Server allgemein

Blog: SQL Server Intern

URL: <http://www.db-berater.de/sql-server-blog>

Autor: **Uwe Ricken** (Rhein-Main)

Schwerpunkte: Datenbank-Administration

Blog: Volker Bachmann and SQL Server

URL: <http://blog.volkerbachmann.de>

Autor: **Volker Bachmann** (Ruhrgebiet)

Schwerpunkt: Datenbank-Administration

Blog: workingondata

URL: <https://workingondata.wordpress.com>

Autor: **Wolfgang Strasser** (Franken)

Schwerpunkte: Business Intelligence

Blog-Infos

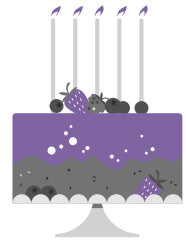
Ankündigung, Änderung, Löschung

Wenn auch dein PASS-Mitglieds-Blog hier erscheinen soll, so schreibe bitte eine E-Mail mit den folgenden Angaben an: newsletter(punkt)redaktion(at)sqlpass(punkt)de

- Den Titel des BLOG's
- Deinen Namen
- Deinen Blog-URL
- Deine Inhalte:
eine (kurze) Übersicht der Themen-Schwerpunkte
- Deine Regionalgruppe: (optional, aber erwünscht)
- (Deine E-Mail-Adresse): Die ist für Rückmeldungen, wird aber nicht auf unserer BLOG-Seite veröffentlicht oder anderweitig verwendet.

Änderung in der Liste der Regionalgruppen

Wer sich schon daran gewöhnt hatte, dass sich in der Liste der Regionalgruppen ohnehin nie etwas ändert, der hat sich dieses Mal getäuscht.
Unser Mitglied Erik Monchen (RG Bayern) hat geheiratet und den Namen seiner Frau angenommen.
Die Redaktion gratuliert ganz herzlich.



Allgemeine Artikel

SQL Partition overview

In diesem Artikel erklärt Daniel Calbimonte, was Partition für eine Tabellenpartition und SSAS bedeutet. Er liefert auch einige Anleitungen zur Automatisierung des Partitionsprozesses.

<https://www.sqlshack.com/sql-partition-overview/>

SQL Syntax

In diesem Artikel gibt uns Tihomir Babic einen Überblick über die grundlegende SQL-Syntax mit Schwerpunkt auf den Anweisungen SELECT, INSERT INTO, UPDATE und DELETE.

<https://learnsql.com/blog/sql-syntax/>

SQL Server, Oracle and PostgreSQL Job Schedulers

In diesem Artikel erklärt Andrea Gnemmi, wie man Jobs plant in SQL Server, Oracle und PostgreSQL.

<https://www.mssqltips.com/sqlservertip/7361/job-scheduler-sql-server-oracle-postgresql/>

These SQL Queries Will Help You With Data Analysis

In diesem Artikel stellt uns Himanshu Kathuria diese Abfragen vor.

<https://learnsql.com/blog/sql-queries-for-data-analysis/>

SQL SERVER: Reasons – Not Able to Shrink the Transaction Log

In diesem Artikel stellt uns Pinal Dave diese Gründe vor.

<https://blog.sqlauthority.com/2022/08/24/sql-server-reasons-not-able-to-shrink-the-transaction-log/>

What is not contained in contained Availability Groups

In diesem Artikel beantwortet uns Eitan Blumin diese Frage.

<https://eitanblumin.com/2022/09/16/what-is-not-contained-in-contained-availability-groups/>

Community Tools Month: Using sp_WhoIsActive to Catch ASYNC_NETWORK_IO

Mit diesem Artikel zeigt uns Brent Ozar, wie dies funktioniert.

https://www.brentozar.com/archive/2022/09/community-tools-month-using-sp_whoisactive-to-catch-async_network_io/

Common SQL Server Consulting Advice: Setting Target Recovery Interval

Mit diesem Artikel liefert Erik Darling Teil 5 seiner Serie „Common SQL Server Consulting Advice“.

<https://www.erikdarlingdata.com/common-sql-server-consulting-advice-setting-target-recovery-interval/>

Data Visualizations for Excel Multi-Chart Sets with SQL Server Data

In diesem Artikel gibt uns Rick Dobson einen tieferen Einblick in dieses Thema.

<https://www.mssqltips.com/sqlservertip/7360/excel-line-charts-scatter-charts-excel-sql-server/>

Resumable Online Index Create in SQL Server 2019

In diesem Artikel befasst sich Rajendra Gupta mit den Erweiterungen für die Online-Indexerstellung in SQL Server 2019.

<https://www.mssqltips.com/sqlservertip/5759/resumable-online-index-create-in-sql-server-2019/>

Why the Optimizer Doesn't Use Buffer Pool Knowledge

In diesem Artikel beschreibt Paul Randal, warum der Optimierer den Inhalt des Bufferpools nicht für die Planerstellung verwendet, und geht auf die potenziellen Gefahren ein, wenn dies der Fall wäre.

<https://sqlperformance.com/2021/11/sql-optimizer/buffer-pool-knowledge>

Create a SQL Alias using SQL Server Synonyms to access to Tables, Views, User-Defined Functions, Stored Procedures

In diesem Artikel erklärt Aubrey Love, wie dies funktioniert.

<https://www.mssqltips.com/sqlservertip/7395/sql-synonyms-access-tables-views-functions-stored-procedures/>

Managing memory-optimized file groups of SQL Database

In diesem Artikel erklärt Nisarg Upadhyay, wie man eine speicheroptimierte Dateigruppe einer SQL-Datenbank verwaltet.

<https://www.sqlshack.com/managing-memory-optimized-file-groups-of-sql-database/>

Create, Read, Update and Delete Data in SQL Server Tables

In diesem SQL-Artikel geht Jan Potgieter auf einige grundlegende Beispiele ein.

<https://www.mssqltips.com/sqlservertip/7369/sql-server-crud-operation-examples/>

Trivial Plans Are Not Always the Best Plans

In diesem Artikel erklärt uns Chad Callihan, warum er dieser Meinung ist.

<https://callihandata.com/2022/08/23/trivial-plans-are-not-always-the-best-plans/>

SQL Server Agent Jobs Schedules - Review, Cleanup, and Special Cases

In diesem Artikel gibt uns Svetlana Golovko einen tieferen Einblick in dieses Thema.

<https://www.mssqltips.com/sqlservertip/7393/sql-server-agent-job-scheduling-management-troubleshooting/>

How to Add a Column to a SQL Server Table

In diesem Artikel zeigt uns Manvendra Singh, wie man eine Spalte zu einer bestehenden Tabelle hinzufügt, indem man sowohl T-SQL als auch die SSMS-Schnittstelle verwendet, um die SQL-Daten für Ihr Projekt zu unterstützen.

<https://www.mssqltips.com/sqlservertip/7394/add-a-column-in-a-table-in-sql/>

What's New in MS SQL Server 2022

In diesem Artikel gibt Lisandro Fernigrini einen Überblick über die neuen Verbesserungen und Funktionen, die kommen werden.

<https://learnsql.com/blog/what-is-new-in-sql-server-2022/>

Export Data from SSMS to Excel

In diesem Artikel zeigt Joe Gavin, wie dies funktioniert.

<https://www.mssqltips.com/sqlservertip/7312/ssms-export-to-excel/>

List Foreign Keys referencing tables in SQL Server

In seinem Beitrag liefert uns Tom Collins ein Skript dafür.

<https://www.sqlserver-dba.com/2022/09/list-foreign-keys-referencing-tables-in-sql-server.html>

Simple Parameterization and Trivial Plans — Part 6

In diesem Artikel setzt Paul White seine Serie über einfache Parametrisierung und triviale Pläne fort.

<https://sqlperformance.com/2022/08/sql-optimizer/simple-parameterization-and-trivial-plans-part-6>

SQL Date Calculation Simplifications in SQL Server

In diesem Artikel gibt uns Aaron Bertrand einen tieferen Einblick in dieses Thema.

<https://www.mssqltips.com/sqlservertip/7389/sql-date-calculations-simplified-first-last-nth-day-of-the-month/>

New Bit Manipulation Functions in SQL Server 2022

In diesem Artikel befasst sich Itzik Ben-Gan mit den neuen Bitmanipulationsfunktionen in SQL Server 2022, einschließlich GET_BIT, SET_BIT, RIGHT_SHIFT und LEFT_SHIFT.

<https://sqlperformance.com/2022/09/sql-server-2022/new-bit-manipulation-functions>

Ansprechpartner: Nina Weisheidinger

Business Intelligence

Answering your questions about the new App Experience!

Einige der Fragen zur neuen App Experience von Power BI werden hoffentlich im Video beantwortet..

<https://www.youtube.com/watch?v=wJJ31G98aCM>

Automating your formatted tables in Power BI!

Das Video zeigt, wie man das Formatted Tables Feature zusammen mit Power Automate nutzen kann, um Ergebnisse in Mails zu versenden.

<https://www.youtube.com/watch?v=5ZjO1lmFmh4>

Diagnosing Switch-Related Performance Problems In Power BI DAX Using EvaluateAndLog

Offenbar gibt es bei Measures mit Switch Funktionen Potential zur Performanceverbesserungen, welches aber kompliziert zu finden ist.

<https://blog.crossjoin.co.uk/2022/09/19/diagnosing-switch-related-performance-problems-in-power-bi-dax-using-evaluateandlog/>

Calling The Power BI Enhanced Refresh API From Power Automate, Part 2: Refreshing Specific Tables And Partitions

Der zweite Teil des Posts zeigt, wie man mit dem speziellen Konnektor nur bestimmte Tabellen oder Partitionen aktualisiert.

<https://blog.crossjoin.co.uk/2022/08/14/calling-the-power-bi-enhanced-refresh-api-from-power-automate-part-2-refreshing-specific-tables-and-partitions/>

Power BI Apps for multiple audiences has arrived!

Mit einem neuen Feature kann man den Zugriff auf bestimmte Inhalte in einer Power BI App besser kontrollieren.

<https://guyinacube.com/2022/09/15/power-bi-apps-for-multiple-audiences-has-arrived/>

Get started with SPARK in Azure Synapse Analytics

Der Guy-in-a-Cube zeigt ein Einstiegvideo zum Setup und der Anwendung von Spark in Azure Synapse Analytics.

<https://guyinacube.com/2022/08/16/get-started-with-spark-in-azure-synapse-analytics/>

Super Fast Data Loads to Prod -

Der Artikel zeigt einen Weg, um in Produktion befindliche Datenmodelle schneller zu aktualisieren, wenn Datenmodelle geändert wurden.

<https://powerbi.tips/2022/09/super-fast-data-loads-to-prod/>

Getting Data Into Shape for Reporting with Power BI – Paul Turley's SQL Server BI Blog

Paul Turley beschreibt seine Erfahrungen mit Performance Optimierungen und der nötigen Aufbereitung von Daten zum Reporting.

<https://sqlserverbi.blog/2022/08/31/getting-data-into-shape-for-reporting-with-power-bi/>

What is this delta lake thing?

Das Video zeigt, wie man seine Daten in einem Delta Lake an Stelle einfacher Dateien im Lake einsetzt.

<https://www.youtube.com/watch?v=3ef985a0Veg>

Manage and Embed Power BI Reports and Datasets as Part of a Power Platform Solution

die Integration zwischen Power BI und Power Apps wird verbessert, insbesondere im Hinblick auf das Einbetten von Reports.

<https://www.youtube.com/watch?v=ZuXAqlQdOb4>

What's the real size of your data model in Power BI?

Es gibt unterschiedliche Angaben zur Größe des Power BI Datenmodells an unterschiedlichen Stellen. Das Video hat Details.

<https://www.youtube.com/watch?v=vl7kVVHxsiM>

Azure Data Factory August 2022 Monthly Update

Der Artikel und das Video beschreiben die Neuerungen aus dem August für die Azure Data Factory.

<https://techcommunity.microsoft.com/t5/azure-data-factory-blog/azure-data-factory-august-2022-monthly-update/ba-p/3608710>

Azure Data Factory Updated Pipeline Designer

Der Pipeline Designer in Azure Data Factory hat ein Update erhalten, welches einige Elemente anders anordnet.

<https://techcommunity.microsoft.com/t5/azure-data-factory-blog/azure-data-factory-updated-pipeline-designer/ba-p/3618755>

Conditional Formatting with Field Parameters in Power BI???

Field Parameters und Conditional Formatting arbeiten nicht zusammen. Fragt Adam und Patrick nach einer Lösung.

<https://www.youtube.com/watch?v=KOeT9Dsk-xo>

Retrieving user access list to all reports in your PowerBI tenant using Powershell

Mit Powershell kann man sich eine Übersicht über die Zugriffsrechte der Nutzer auf Reports verschaffen.

<https://tomaztsql.wordpress.com/2022/09/14/retrieving-user-access-list-to-all-reports-in-your-powerbi-tenant-using-powershell/>

Using governance to spur, not stall, data access for analytics

Der Artikel schlägt einen Ansatz vor, bei dem Data Governance zum Vorteil von KI eingesetzt werden kann.

<https://www.technologyreview.com/2022/09/15/1059242/using-governance-to-spur-not-stall-data-access-for-analytics/>

Data Governance: Joining the Dots

Brian Brewer hält Data Governance für eine komplexe Aufgabe, die jedes Unternehmen betrifft und erläutert die Details aus seiner Perspektive.

<https://www.red-gate.com/hub/product-learning/sql-data-catalog/data-governance-joining-the-dots>

Updates and deletes with Azure Synapse Link for SQL Server 2022

Kevin Chant teilt mit uns die Details zu Updates und Deletes zusammen mit Azure Synapse Link für SQL Server 2022.

<https://www.kevinrchant.com/2022/08/30/updates-and-deletes-with-azure-synapse-link-for-sql-server-2022/>

Template Gallery in Azure Synapse Lake Database

In diesem Fortsetzungsartikel lernen wir, wie wir in Azure Synapse Lake Database Daten in domainspezifische Strukturen einlesen können.

<https://www.sqlshack.com/template-gallery-in-azure-synapse-lake-database/>

OPENJSON Performance

Der Einsatz von OPENJSON mit oder ohne Schema hat einen Einfluß auf die Performance

<https://www.davemason.me/2022/08/21/openjson-performance>

Wie Du Leerwerte in Datenschnitten verhinderst

Leere Werte sind ein lästiges Problem in Visualisierungen, welches man verhindern kann, wie der Artikel zeigt.

<https://ssbi-blog.de/blog/business-topics/wie-du-leerwerte-in-datenschnitten-verhinderst/>

So trennst Du Buchstaben und Ziffern von Sonderzeichen mit Power Query

Lars zeigt uns, wie man in Zeichenketten bestimmte Zeichen von anderen nicht gewünschten trennen kann.

<https://ssbi-blog.de/blog/business-topics/so-trennst-du-buchstaben-und-ziffern-von-sonderzeichen-mit-power-query/>

Using RELATED and RELATEDTABLE in DAX

Der Artikel beschreibt die beiden Funktionen zur Arbeit in einem Row-Kontext mit Beziehungen.

<https://www.sqlbi.com/articles/using-related-and-relatedtable-in-dax/>

Merging your data in a modern lakehouse data warehouse

Wir lernen, wie wir unsere Daten in Azure Synapse Analytics durch die Ebenen mit Merge und pySpark oder SQL Verarbeiten können.

<https://www.youtube.com/watch?v=TGIP4w61Tyc>

Simulate Hierarchies with Field Parameters in Power BI

Probleme mit Hierarchien und Field Parameters? Patrick zeigt eine Variante zum Umgang damit.

https://www.youtube.com/watch?v=5G_xSjy5muo

Extract Multiple Pages from Web

An einem realen Beispiel zeigt der Artikel, wie man Daten aus mehreren Web-Seiten in einem gemeinsamen Report vereinigt und die Daten täglich automatisch aktualisiert.

<https://exceleatorbi.com.au/extract-multiple-pages-from-web/>

Power BI guidance documentation

James Serra hat eine Liste mit interessanten Links zum Thema Power BI Guidance Documentation erstellt, die es so in der offiziellen Dokumentation nicht gibt.

<https://www.sqlservercentral.com/blogs/power-bi-guidance-documentation>

Azure Data Studio August Release - Microsoft SQL Server Blog

Es gibt ein neues Release des Azure Data Studio mit interessanten Neuerungen.

<https://cloudblogs.microsoft.com/sqlserver/2022/08/24/azure-data-studio-august-release/>

Long term storage of Power BI activity logs and statistics using Powershell

Mit Powershell kann man seine Power BI Logs und Statistiken exportieren und so länger als die sonst üblichen 90 Tage auswerten.

<https://tomaztsql.wordpress.com/2022/08/24/longterm-storage-of-power-bi-activity-logs-and-statistics-using-powershell/>

Power BI Data Driven Subscriptions with Power Automate (Report Bursting)

Power Automate ermöglicht einen datengetriebenen Versand von Power BI Reports an bestimmte Empfänger.

<https://denglishbi.wordpress.com/2022/08/22/power-bi-data-driven-subscriptions-with-power-automate-report-bursting/>

Azure Machine Learning Call API from Power Query

Auch ohne Power BI Premium kann man eine Azure Machine Learning API aus Power Query heraus aufrufen.

<https://radacad.com/azure-machine-learning-call-api-from-power-query>

First impressions of the web terminal in Azure Databricks

Kevin Chant entdeckt das Web Terminal in Azure Databricks und gibt uns einen ersten Eindruck.

<https://www.kevinrchant.com/2022/08/25/first-impressions-of-the-web-terminal-in-azure-databricks/>

Power BI Live Embedding In PowerPoint

Matt Allington zeigt, wie man mit den aktuell verfügbaren Versionen einen Power BI Report Live in Power Point einbetten kann

<https://exceleratorbi.com.au/power-bi-live-embedding-in-powerpoint/>

Getting started with Azure Synapse Lake Database and Lake tables

Als Nachfolger des vorherigen Artikels zur Theorie zeigt dieser, wie man eine Azure Synapse Instanz erstellt und eine Lake Database mit einer Tabelle erstellt.

<https://www.sqlshack.com/getting-started-with-azure-synapse-lake-database-and-lake-tables/>

Power BI Paginated Report - Perfect for Printing

Zum Drucken von Reports mit Tabellen kommt SSRS in Form des Power BI Paginated Report zurück.

<https://radacad.com/power-bi-paginated-report-perfect-for-printing>

an accessible makeover

Manchmal kann man mit kleineren Anpassungen in den Reports den Nutzern einen besseren Zugang zu den Angaben bieten.

<https://www.storytellingwithdata.com/blog/accessible-data-viz>

Azure DevOps: Deploying Power BI reports with a parameterized gateway-based Data Source

Der Artikel erläutert mehrere Varianten, um einen Report mit einer Datenquelle mit Parametern und Zugriff auf einen Gateway in Produktion auszurollen.

<https://www.sqlservercentral.com/blogs/azure-devops-deploying-power-bi-reports-with-a-parameterized-gateway-based-data-source>

Computing sales to specific customers before and after a time period

Der Artikel zeigt, wie man den Filter Kontext anpassen muss, um eine recht spezielle Aussage in Power BI anzeigen zu können.

<https://www.sqlbi.com/articles/computing-sales-to-specific-customers-before-and-after-a-time-period/>

One Way to Add an Existing Data Factory to Github, Part 1

Andy Leonard zeigt in einer kleinen Artikelserie, wie man seine Data Factory Artefakte in Github verwalten kann.

<https://andyleonard.blog/2022/08/one-way-to-add-an-existing-data-factory-to-github-part-1/>

Data Lakes Are Dead: Evolving Your Company's Data Architecture

Oh, jetzt sind die Data Lakes schon tot und wir müssen schon wieder eine neue Datenarchitektur implementieren.

<https://www.dataversity.net/data-lakes-are-dead-evolving-your-companys-data-architecture/>

Deleting Power BI datasets using Powershell

Mit dem gezeigten PowerShell Skript kann man Datasets löschen, die Power BI in bestimmten Situationen automatisch anlegt.

<https://tomaztsql.wordpress.com/2022/08/18/deleting-power-bi-datasets-using-powershell/>

How to Visualize Python Charts in Power BI

Daniel Calbimonte hat hier einen Artikel für Alle, die schon immer einmal eine Visualisierung mit Python in Power BI erstellen wollten.

<https://www.sqlservercentral.com/articles/how-to-visualize-python-charts-in-power-bi>

Ansprechpartner: Michael Riedmüller

Neues von den SQL Release Services (ex Neues aus der Knowledgebase)

Liebe Newsletter-Leser!

Da hat sich einiges angehäuft: Zwei neue CUs, und SQL Server 2022 community technology preview 2.1 und inzwischen auch SQL Server 2022 release candidate 0 und 1 sind verfügbar, ebenso für Linux.

Der einfacheren Überprüfung halber habe ich jetzt noch eine Spalte mit den letzten Versions-Nummern eingefügt.

Ich glaube nicht mehr, dass es (angesichts der Frequenz und Regelmäßigkeit) noch sehr sinnvoll ist die ganzen CU's jeweils ausführlich zu listen. Daher, als schnelle Übersicht, hier jetzt dauerhaft und aktuell die „Allgemeine Übersicht der Releases“ aus dem „Update Center for Microsoft SQL Server“ als Tabelle von <https://technet.microsoft.com/en-us/library/ff803383.aspx>

Außerdem benutze ich derzeit: <https://sqlserverbuilds.blogspot.com/> Hier ist auch eine Subscription möglich.

Die anderen Neuerungen findet man unter

<https://techcommunity.microsoft.com/t5/SQL-Server/bg-p/SQLServer/label-name/SQLReleases> oder
<https://techcommunity.microsoft.com/t5/SQL-Server/bg-p/SQLServer>

Neuerungen aus dem letzten Monat sind FETT gedruckt und grau unterlegt.

Letzter CU vom 29.9.2022, Letzter Artikel vom 16.10.2022, Stichtag: 20.11.2022, Euer Kai Gerlach

SQL Version	Latest Service Pack	Latest GDR Update	Latest Cumulative Update	CU / SU Release Date	Latest CU Version Number	General Guidance
2022	RC			9/29/2022		
2019	RTM	KB 4517790	CU 18 (KB5017593)	9/28/2022	15.0.4261.1	Installation
2017	RTM	KB 4505224	CU 31 (KB 5016884)	9/20/2022	14.0.3456.2	Installation
2016	SP3 (KB 5003279)			9/15/2021	13.0.6300.2	Installation
2016	SP2 (KB 4052908)	KB 4532097	CU 17 (KB 5001092)	3/29/2021	13.0.5888.11	Installation
2016	SP1 (KB 3182545)	KB 4505219	CU 15 + GDR (KB 4505221)	7/9/2019	13.0.4574.0	Installation
2016	RTM	KB4058560	CU 9 (KB 4058559)	11/2/2021	13.0.2216.0	Installation
2014	SP3 (KB 4022619)	KB 4532095	CU 4 + SU (KB 4505422)	2/11/2020	12.0.6329.1	Installation
2014	SP2 (KB 3171021)	KB 4505217	CU 18 (KB 4500180)	7/29/2019	12.0.5687.1	Installation
2014	SP1 (KB 3058865)	KB 4032542	CU 13 (KB 4019099)	8/8/2017	12.0.4522.0	Installation
2014	RTM	MS 15-058	CU 14 (KB 3158271)	6/20/2016	12.0.2569.0	Installation
2012	SP4 (KB 4018073)	KB 4057116	SU	2/11/2020	11.0.7493.4	Installation
2012	SP3 (KB 3072779)	KB 4057115	CU 10 + SAA (KB 4057121)	8/16/2017	11.0.6615.2	Installation
2012	SP2 (KB 2958429)	MS 16-136	CU 16 (KB 3205054)	1/18/2017	11.0.5678	Installation
2012	SP1 (KB 2674319)	MS 15-058	CU 16 (KB 3045317)	7/13/2015	11.0.3513	Installation
2008 R2	SP3 (KB 2979597)	KB 4057113	N/A	11/11/2018	10.00.6000	Installation
2008 R2	SP2 (KB 2630458)	MS 15-058	CU 13 (KB 2967540)	6/30/2014	10.50.4319	Installation
2008	SP4 (KB 2979596)	KB 4057114	N/A	5/2014	10.00.6000	Servicing
2008	SP3 (KB 2546951)	MS 15-058	CU 17 (KB 2958696)	5/19/2014	10.00.5861	Servicing
2005	SP4 (KB 2463332)	N/A	CU 3 (KB2507769)	3/2011	9.00.5266	Installation
2000	SP4 (KB 290211)	N/A	CU (KB916287)	10/2006	8.00.2187	Installation

Andere Artikel findet Ihr nachfolgend:

Released: SCOM Management Packs for SQL Server, RS, AS (7.0.38.0)

1.7.2022 By Ebru Ersan

Updates to SQL Server, Reporting Services, and Analysis Services Management Packs are available (7.0.38.0). You can download the MPs from the links below. Majority of the changes are based on your direct feedback. Thank you. These management packs can be used to monitor the public preview of SQL Server 2022.

- [Download Microsoft System Center Management Pack for SQL Server from Official Microsoft Download Cen...](#)
- [Download Microsoft System Center Management Pack for SQL Server Analysis Services from Official Micr...](#)
- [Download Microsoft System Center Management Pack for SQL Server Reporting Services from Official Mic...](#)

Another change we've done recently is to move operations guides for all SQL Server family of management packs from download center to docs.microsoft.com. This unifies the content viewing experience for the user as the rest of the SCOM and SQL Server documentation is already there. Furthermore, it allows us to present you with the most up to date and accurate content online. The link to the operation guide for each MP can be found on the MP download page. Here are the links that show what's new in these MPs:

- [Features and Enhancements in Management Pack for SQL Server](#)
- [Features and Enhancements in Management Pack for SQL Server Analysis Services](#)
- [Features and Enhancements in Management Pack for SQL Server Reporting Services](#)

Artikel-URL <https://techcommunity.microsoft.com/t5/sql-server-blog/released-scom-management-packs-for-sql-server-rs-as-7-0-38-0/ba-p/3563336>

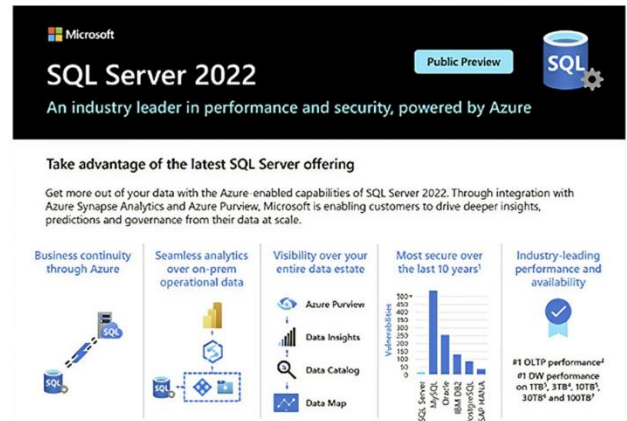
SQL Server 2022 Release Candidate 1 is now available

29.9.2022 By Ajay Jagannathan

Continuing with our release cadence, we're excited to announce the release of **SQL Server 2022 Release Candidate 1**. Since the first public preview in May 2022, anyone can [download SQL Server 2022 RC1](#) to try the new features in this release.

[Download SQL Server 2022 public preview](#)

SQL Server 2022 is the most Azure-enabled release of SQL Server yet, with continued innovation across performance, security, and availability. It is part of the [Microsoft Intelligent Data Platform](#), which unifies operational databases, analytics, and data governance.



Microsoft
SQL Server 2022
An industry leader in performance and security, powered by Azure

Public Preview

Take advantage of the latest SQL Server offering

Get more out of your data with the Azure-enabled capabilities of SQL Server 2022. Through integration with Azure Synapse Analytics and Azure Purview, Microsoft is enabling customers to drive deeper insights, predictions and governance from their data at scale.

- Business continuity through Azure
- Seamless analytics over on-prem operational data
- Visibility over your entire data estate
 - Azure Purview
 - Data Insights
 - Data Catalog
 - Data Map
- Most secure over the last 10 years!
- Industry-leading performance and availability
 - #1 OLTP performance*
 - #1 DW performance on TIB® 3TIB®, 10TIB®, 30TIB® and 100TIB®

RC 1 introduces [Hybrid buffer pool with direct write](#) as well as other improvements.

Learn more

- Read how you can [innovate faster and achieve greater agility](#) with the [Microsoft Intelligent Data Platform](#) and turn your data into decisions.
- Get started today by [downloading the pre-view](#) or [deploying in Azure!](#)
- For installing SQL Server 2022 public preview on Linux, see [installation guidance](#).
- Learn more about the features of SQL Server 2022 by reading the [documentation](#) and watching the [SQL Server 2022 Data Exposed video series](#).
- Dive into the technical details including installation guidance and stay up to date with the [latest release notes](#).
- Let us know if you have any thoughts or feedback through our [SQL Server feedback portal](#). We look forward to seeing how SQL Server 2022 will transform your business in the coming months and years.

Artikel-URL: <https://techcommunity.microsoft.com/t5/sql-server-blog/sql-server-2022-release-candidate-1-is-now-available/ba-p/3641091>

SQL Server 2022 Release Candidate 1 is now available on Linux

4.10.2022 By Amit Khandelwal

Continuing with our release cadence, we are pleased to announce the release of SQL Server 2022 Release Candidate 1 (RC 1) for Linux.

To download the latest RC 1 container images, please use the '2022-LATEST' tags for both RHEL and Ubuntu based container images. Or you could also use the following tags

For RHEL-based SQL Server containers : "2022-RC1-RHEL-8.5"

For Ubuntu-based SQL Server containers : "2022-RC1-UBUNTU-20.04"

Please see [SQL Server 2022 public preview](#) blog for detailed instructions on how to get started with the container images.

To install the SQL Server 2022 RC 1 packages, follow these steps:

For RHEL-based installations see RHEL: [RHEL: Install SQL Server on Linux](#)

For SLES-based installations refer: [SLES: Install SQL Server on Linux](#)

For Ubuntu-based installations refer: [Ubuntu: Install SQL Server on Linux](#)

In addition to the new features added in [RC 1](#), this Linux release includes a preview of SQL Server 2022 packages for SLES 15 distributions. Also, the configuration of PMEM for SQL Server on Linux is supported since SQL Server 2019, you can read [Configure persistent memory \(PMEM\) - Linux - SQL Server](#) for further details.

For information on the features supported, see : [Editions and supported features of SQL Server 2022 Preview - Linux - SQL Server](#) , and for release notes, see [Release notes for SQL Server 2022 Preview on Linux - SQL Server](#)

Artikel-URL <https://techcommunity.microsoft.com/t5/sql-server-blog/sql-server-2022-release-candidate-1-is-now-available-on-linux/ba-p/3643236>

Updates to the modern servicing model for SQL Server 2017 and future versions of SQL Server on Linux

25.8.2022 By Amit Khandelwal

Updates to SQL Server, Reporting Services, and Analysis Services Management Packs are available (7.0.38.0). You can download the MPs from the links below. Majority of the changes are based on your direct feedback. Thank you. These management packs can be used to monitor the public preview of SQL Server 2022.

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[Download Microsoft System Center Management Pack for SQL Server Analysis Services from Official Micr...](#)

[Download Microsoft System Center Management Pack for SQL Server Reporting Services from Official Mic...](#)

Another change we've done recently is to move operations guides for all SQL Server family of management packs from download center to docs.microsoft.com. This unifies the content viewing experience for the user as the rest of the SCOM and SQL Server documentation is already there. Furthermore, it allows us to present you with the most up to date and accurate content online. The link to the operation guide for each MP can be found on the MP download page. Here are the links that show what's new in these MPs:

[Features and Enhancements in Management Pack for SQL Server](#)

[Features and Enhancements in Management Pack for SQL Server Analysis Services](#)

[Features and Enhancements in Management Pack for SQL Server Reporting Services](#)

Artikel-URL: <https://techcommunity.microsoft.com/t5/sql-server-blog/updates-to-the-modern-servicing-model-for-sql-server-2017-and/ba-p/3608676>

Modernize your data estate on SQL from cloud to edge

13.10.2022 By Bob Ward

Experience SQL innovation with consistency and rich Azure integration

At this year's Microsoft Ignite 2022 event, we talked about doing more with less and unlocking the value of your data. Leveraging the cloud to reduce costs, drive productivity and accelerate insights and decision-making can make a measurable impact on an organization's competitiveness, particularly in uncertain times. This is true for your SQL Server data. At Ignite, we made several announcements that will help you modernize your SQL Server data by tapping into the power of Azure. These announcements (and a few sneak peeks) represent the ongoing investment we're making in our family of SQL databases to deliver what you need for your business.

Whether you're currently on-premises, in the cloud, or somewhere in-between with a hybrid strategy, what really sets Microsoft SQL Server and the Azure SQL family of databases apart is the underlying SQL engine, language, and tools consistency that extends from cloud to edge, and the level of integration it has with other Azure services. Take [SQL Server 2022](#), for example, currently in preview. It is truly a hybrid data platform that now connects to Azure in ways never seen before. In fact, it's the most cloud-connected SQL Server yet. It uses [Azure SQL Managed Instance](#) for managed disaster recovery and Azure Synapse Link for SQL for near-real-time analytics. It also integrates with Microsoft Purview for insights, lineage, and centralized policy management, a true hub for security.

Part of the enabling technology behind SQL Server 2022's cloud connection comes from Azure Arc. [Azure Arc-enabled SQL Server](#), which is our new branding for an existing member of the Arc-enabled family, connects your existing SQL Server to the cloud, allowing you to leverage some great Azure benefits, like Single Sign-on with Azure Active Directory with multi-factor authentication and Microsoft Defender for Cloud, as well as the Microsoft governance solution, Purview Access Policies.

Coming soon, you can take advantage of **Pay-As-You-Go licensing for Azure Arc-enabled SQL Server**. This means that you can connect your SQL Server to Azure and have flexible licensing options from traditional SQL Server licensing to

Pay-As-You-Go pricing. Pay for what you use, whether your SQL Server is on-premises, hybrid, or multi-cloud.

Data permeates all aspects of a business, so faster actionable insights from that data can make all the difference. Azure Synapse Link for SQL enables near real-time analytics over your data in Azure SQL Database or SQL Server 2022, without having to create or maintain ETL pipelines. We've had some exciting new capabilities launch during its public preview, including a new Schedule Mode to control data ingestion timing, support for smaller-scale workloads, and full precision support for datetime data types in SQL Server. We're looking forward to the general availability of Azure Synapse Link for SQL coming soon.

Migrate and modernize your SQL to Azure

Azure SQL Managed Instance combines the broadest SQL Server compatibility with all the benefits of a fully managed cloud database service. Not only does it provide [industry-leading price performance](#) using our latest premium-series hardware, but the latest generally available innovations help you further modernize your data for the cloud. [Windows authentication for Azure Active Directory](#), for example, enables you to migrate legacy applications that cannot use Azure Active Directory authentication, with minimal to no changes in the application stack. Or, new [data virtualization](#) capabilities let you access external data while keeping it in its original format and location, eliminating the need for ETL processes and getting you faster insights from your data.

If you're interested in migrating your Oracle data to Azure SQL, we have some exciting news for you. Migration planning just got easier for Oracle customers wanting to modernize on Azure SQL, including Azure SQL Database Hyper-scale, with two public preview [announcements](#): the **Database Migration Assessment for Oracle** and the **Database Schema Conversion Toolkit for Oracle**, both of which are extensions in Azure Data Studio. With these announcements, customers can receive migration recommendations and an evaluation of code complexity as well as target sizing recommendations – all from the same tool. Schema migration between the different database platforms is also automated, and it runs on Linux environments, too!

Today we also announced a **comprehensive migration and modernization assessment for SQL Server on Azure Migration**, our free self-service migration tool. This new capability helps you easily discover and assess your entire SQL estate at scale, now including Hyper-V and bare-metal, helping identify ideal migration and modernization targets for Azure SQL, with cost optimization guidance built-in.

A modern data platform for your next app on Azure

We also provided an early view of innovations in Azure SQL Database to help developers build apps faster and with less "plumbing code." Coming soon to SQL Database are new ways to integrate data with other services by invoking REST

endpoints, boost price-performance with memory-optimized premium-series hardware and access data using modern REST and GraphQL endpoints. We're very excited about the investments we're making, like the [offline SQL Database emulator](#) and CI/CD integration, to help developers do even more with their SQL data. We invite you to watch our new [Microsoft Mechanics video](#) that double-clicks into some of the upcoming features that make Azure SQL Database great for modern, cloud-based apps.

Enable comprehensive data governance at scale

Finally, getting holistic and actionable insights from data, particularly in light of constantly evolving regulations, has become a real challenge. Microsoft Purview provides a unified hybrid data governance platform that creates a map of your data estate comprising Azure data sources, multi-cloud, and SaaS data systems. It's truly the one-stop shop for technical, governance, and business stakeholders to map and curate their metadata and govern their hybrid data estate.

This year's Ignite saw a lot of new features rolling out to Microsoft Purview, with public previews for ML-based classifications, manual data lineage, metamodels, and self-service data access on Azure SQL. We also announced the general availability of dynamic lineage for Azure SQL Database. You can learn about all these announcements and more [here](#).

Your next steps

If you like what you've read so far, we'd invite you to dive deeper into related topics by

- Watching the Ignite [breakout sessions](#)
- Getting started with [Microsoft Learn](#) to build your skills
- Exploring other [Azure announcements](#) at Microsoft Ignite

Artikel-URL <https://techcommunity.microsoft.com/t5/sql-server-blog/modernize-your-data-estate-on-sql-from-cloud-to-edge/ba-p/3651463>

Released: Microsoft.Data.SqlClient 5.0.1

13.10.2022 By David Engel

We have released an update to Microsoft.Data.SqlClient, version 5.0.1. The update addresses several issues that are important to our customers.

Updates in Microsoft.Data.SqlClient 5.0.1 include:

Fixed

- Fixed missing `HostNameInCertificate` connection string property in .NET Framework. [#1782](#)
- Fixed async deadlock issue when sending attention fails due to network failure. [#1783](#)

- Fixed **Null Reference Exception** on assigning `null` to `SqlConnectionStringBuilder.Encrypt`. [#1784](#)
- Fixed `ReadAsync()` behavior to register Cancellation token action before streaming results. [#1785](#)
- Fixed hang on infinite timeout and managed SNI. [#1798](#)
- Fixed Default UTF8 collation conflict. [#1799](#)

Changed

- Updated `Microsoft.Data.SqlClient.SNI` (.NET Framework dependency) and `Microsoft.Data.SqlClient.SNI.runtime` (.NET Core/Standard dependency) version to **5.0.1** [#1795](#), which includes the fix for the AppDomain crash in issue [#1418](#).

To get the new package, add a [NuGet reference to Microsoft.Data.SqlClient](#) in your application. For the list of changes in Microsoft.Data.SqlClient 5.0.1, you can also see the [Release Notes](#). If you encounter any issues or have any feedback, head over to the [SqlClient GitHub repository](#) and submit an [issue](#).
David Engel
Artikel-URL <https://techcommunity.microsoft.com/t5/sql-server-blog/released-microsoft-data-sqlclient-5-0-1/ba-p/3653143>

Released: Microsoft.Data.SqlClient 5.1 Preview 1

21.10.2022 By David Engel

Microsoft.Data.SqlClient 5.1 Preview 1 has been released. This release contains improvements and updates to the Microsoft.Data.SqlClient data provider for SQL Server. Our plan is to provide GA releases twice a year with two or three preview releases in between. This cadence should provide time for feedback and allow us to deliver features and fixes in a timely manner. This first 5.1 preview includes fixes and changes over the previous GA release.

Fixed

- Fixed `ReadAsync()` behavior to register Cancellation token action before streaming results. [#1781](#)
- Fixed **NullReferenceException** when assigning `null` to `SqlConnectionStringBuilder.Encrypt`. [#1778](#)
- Fixed missing `HostNameInCertificate` property in .NET Framework Reference Project. [#1776](#)
- Fixed async deadlock issue when sending attention fails due to network failure. [#1766](#)
- Fixed failed connection requests in ConnectionPool in case of PoolBlock. [#1768](#)
- Fixed hang on infinite timeout and managed SNI. [#1742](#)
- Fixed Default UTF8 collation conflict. [#1739](#)

Changed

- Updated `Microsoft.Data.SqlClient.SNI` (.NET Framework dependency) and `Microsoft.Data.SqlClient.SNI.runtime` (.NET Core/Standard dependency) version to **5.1.0-preview1.22278.1**. [#1787](#) which includes TLS 1.3 Support and fix for AppDomain crash in issue [#1418](#)
- Changed the `SqlConnectionEncryptOption` string parser to public. [#1771](#)
- Converted `ExecuteNonQueryAsync` to use async context object. [#1692](#)
- Code health improvements [#1604](#) [#1598](#) [#1595](#) [#1443](#)

Known issues

- When using `Encrypt=Strict` with TLS v1.3, the TLS handshake occurs twice on initial connection on .NET Framework due to a timeout during the TLS handshake and a retry helper re-establishes the connection; however, on .NET Core, it will throw a `System.ComponentModel.Win32Exception (258): The wait operation timed out.` and is being investigated. If you're using Microsoft.Data.SqlClient with .NET Core on Windows 11, you will need to enable the managed SNI on Windows context switch using following statement `AppContext.SetSwitch("Switch.Microsoft.Data.SqlClient.UseManagedNetworkingOnWindows", true);` to use TLS v1.3 or disabling TLS 1.3 from the registry by assigning `0` to the following `HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\TLS 1.3\Client\Enabled` registry key and it'll use TLS v1.2 for the connection. This will be fixed in a future release.

For the full list of changes in Microsoft.Data.SqlClient 5.1 Preview 1, please see the [Release Notes](#). To try out the new package, add a [NuGet reference to Microsoft.Data.SqlClient](#) in your application and pick the 5.1 preview 1 version. We appreciate the time and effort you spend checking out our previews. It makes the final product that much better. If you encounter any issues or have any feedback, head over to the [SqlClient GitHub repository](#) and submit an [issue](#).
David Engel
Artikel-URL <https://techcommunity.microsoft.com/t5/sql-server-blog/released-microsoft-data-sqlclient-5-1-preview-1/ba-p/3658397>

OLE DB Driver 19.2 for SQL Server Released

26.10.2022 By David Engel

Version 19.2 of the Microsoft OLE DB Driver for SQL Server has been released. Version 19.1 includes new features that improve security in the driver.

Features

- Support for TLS 1.3 with TDS 8.0
- Support for the **Server Certificate** connection string keyword, and the **SSPROP_INIT_SERVER_CERTIFICATE** initialization property

For more details, see the [release notes](#). The updated driver can be [downloaded directly from Microsoft](#).

David Engel

Artikel-URL <https://techcommunity.microsoft.com/t5/sql-server-blog/ole-db-driver-19-2-for-sql-server-released/ba-p/3663643>

Update: ODBC Driver 18.1.2 for SQL Server Released

3.11.2022 By David Engel

Version 18.1.2 of the [Microsoft ODBC Driver 17 for SQL Server](#) has been released. Version 18.1.2 brings a few fixes to the driver.

Fixes

- Fix VBS-NONE enclave attestation protocol
- Fix error when retrieving numeric column with Regional=Yes
- Fix intermittent lack of error when server is stopped during bcp out operation
- Fix error when stored procedure call contains unquoted string parameter

Next steps

For Windows installations, you can directly [download the Microsoft ODBC Driver 18 for SQL Server](#).

Linux and macOS packages are also available. For installation details see the [online instructions for Linux](#) or [macOS](#).

Roadmap

We are committed to improving quality and bringing more feature support for connecting to [SQL Server Azure SQL Database Azure SQL DW](#), and [Azure SQL Managed Instance](#) through regular driver releases. We invite you to explore the latest the Microsoft Data Platform has to offer via a trial of [Microsoft Azure SQL Database](#) or by evaluating [Microsoft SQL Server](#).

David Engel

Artikel-URL <https://techcommunity.microsoft.com/t5/sql-server-blog/update-odbc-driver-18-1-2-for-sql-server-released/ba-p/3669324>

Early technical preview of JDBC Driver 12.1.0 for SQL Server released

3.11.2022 By David Engel

We have released a new early technical preview of the JDBC Driver for SQL Server which contains several additions and changes.

Precompiled binaries are available on [GitHub](#) and also on [Maven Central](#).

Below is a summary of the changes in 12.1.0 over version 11.2.0.

Added

- Added support for access token callback [1940](#)
- Added support for DefaultAzureCredential [1936](#)
- Added support for Java 19 [1929](#)

Changed

- Make driver Loom friendly [1931](#)
- Managed Identity authentication uses Azure Identity library instead [1936](#)
 - This allows the driver to support Managed Identity authentication in all the [Azure services supported by the Azure Identity library](#).
- Updated MSAL and jackson-databind versions [1947](#)
- Updated Azure Identity version [1941](#)
- Made MSAL an optional dependency [1893](#)
- Added FINE logging for token expiry [1875](#)
- Upgraded junit jupiter [1895](#)

Fixed issues

- Ensure that batchParamValues is cleared in all cases when executing a batch [1869](#)
- Fixed query cancellation bug [1897](#)
- Fixed callable statement index out of bounds error [1898](#)
- Fixed sonatype warnings [1950](#)
- Fixed check for DONE token when fetching result sets [1943](#)
- Fixed race condition in secure string utility [1948](#)
- Fixed attestation NONE protocol bug to work with all servers and enclave types [1942](#)
- Fixed signed byte comparison [1920](#)

Getting the latest release

The latest bits are available on our [GitHub repository](#), and [Maven Central](#).

Add the JDBC preview driver to your Maven project by adding the following code to your POM file to include it as a dependency in your project (choose .jre8 for Java 8 or .jre11 for Java 11 and up).

Artikel-URL <https://techcommunity.microsoft.com/t5/sql-server-blog/early-technical-preview-of-jdbc-driver-12-1-0-for-sql-server/ba-p/3669365>

Take the SQL Server Mac challenge

3.11.2022 By Bob Ward

(Anm. D. Red.; Grafiken aus Platzgründen entnommen)

When I graduated from college, one of the first computers I ever used was a Macintosh. I loved the Mac, the user interface, and the overall footprint of that computer. I also started my career developing on UNIX systems with C++ and databases like Ingres. As I moved to other jobs, the PC was becoming very popular as was the Windows Operating System. When I joined Microsoft in 1993, I would embark on a 25-year journey working only on Windows laptops and Windows Server computers. And then in 2017 we launched SQL Server on Linux, which includes support for containers.

Since then, I have spent some of my time talking to customers directly and at events about SQL Server on Linux. At one of these events some time ago in London (you may have heard of SQLBits), I was presenting on SQL Server on Linux and someone in the audience asked me this question. "Bob, I love what Microsoft is doing with Linux but I'm a MacBook user. I want to use my MacBook and run SQL Server on it". I thought for a second on this question and then came up with the idea of the "SQL Server Mac Challenge". I told the audience that with a reasonable internet connection, I could get any MacBook user up and running and connected to SQL Server with no Windows software in 5 minutes or less. The person in the audience took me up on my challenge and posted something on Twitter the next day that it worked! So here in this blog post, I will show you my journey in taking the SQL Server Mac Challenge. I'm happy to tell you it took only 4 minutes on my MacBook Pro.

First, you need to download Docker for Mac as seen on this screenshot of the website to download

The download is not too large and didn't take long on my internet connection. At the bottom right corner on my MacBook is an icon for downloads. I selected this to extract the downloaded image. When the image for Docker for Mac is extracted, a new window pops up so I can install it as an Application. I just used my mouse to drag the Docker icon on the Applications icon on this screen.

When this completed, I selected the Launchpad application on the Dock and it shows the Docker application installed. I double-clicked the Docker Application. Now I see a new icon at the top status bar on my MacBook showing Docker is starting up.

While Docker is starting up, I now decided to multi-task and download our cross-platform tool called Azure Data Studio. You can download the Mac version at <https://aka.ms/azuredatstudio>.

While Azure Data Studio is downloading, I can pull the docker image for SQL Server. The steps for pulling docker images for SQL Server can be found <https://aka.ms/sqlcontainers>. Since the terminal for MacBook is a bash shell, I just ran this command in the terminal

```
docker pull mcr.microsoft.com/mssql/server:2019-latest
```

After the docker pull is completed, I can start up a docker container with these commands:

```
docker run -e "ACCEPT_EULA=Y" -e "MSSQL_SA_PASSWORD=<YourStrong@PasswOrd>" -p 1433:1433 --name sql1 --hostname sql1 -d mcr.microsoft.com/mssql/server:2019-latest
```

Notice the -p parameter which maps port 1433 to 1401. When I connect to this SQL Server I will use port 1401. When this completes SQL Server is now up and running in a Docker container. No Windows software is required.

Azure Data Studio has been extracted so I'll select that to install it as an application and launch it. Again, Azure Data Studio for Mac is a native Mac Application.

When Azure Data Studio launches it pops up a window for me to supply a server to connect to. I'll use the local IP address, port 1401, and the sa password I supplied when running the container. When I connect, Azure Data Studio shows an Object Explorer and dashboard. I run a query by right-clicking the Server and select New Query. And now I'll run `SELECT @@version` to prove I can run a query

There you have it. I did this in less than 5 minutes! So calling all MacBook users. Take the SQL Server Mac Challenge!

Authors note: I wrote this article a few years back but have now reposted this. Since then we have launched a preview for a new local Azure SQL Database development experience which uses containers and is supported on macOS: Read more at <https://learn.microsoft.com/azure/azure-sql/database/local-dev-experience-sql-database-emulator>.

Bob Ward, Microsoft

Artikel-URL <https://techcommunity.microsoft.com/t5/sql-server-blog/take-the-sql-server-mac-challenge/ba-p/3669396>

Azure Data Studio and BDC Retirement

8.11.2022 By Erin Stellato

In February of this year, retirement of SQL Server 2019 Big Data Clusters Add-On was announced ([Big data options on the Microsoft SQL Server platform - SQL Server | Microsoft Docs](#)), with support continuing through February 2025. Customers can currently use Azure Data Studio to

connect to their Big Data Cluster servers, view the dashboard, deploy servers, use Object Explorer to explore HDFS, and use Spark kernels in notebooks.

We recognize that we need to maintain this functionality in Azure Data Studio, but we also want to reduce the complexity of the application for new users. To that end, we have decided to create a separate release of Azure Data Studio that maintains the Big Data Cluster functionality. This will be a fork of the next release of Azure Data Studio (1.40), against which we can apply security fixes and other changes if needed, and we will keep this build available until February 2025. The Big Data Cluster-specific release of Azure Data Studio 1.40 will be available for download from the [Releases page](#) until 2025.

We are in the process of updating relevant [BDC documentation](#), to ensure that users can easily find where to download Azure Data Studio 1.40 for Big Data Clusters. Our goal is to make users aware of this upcoming change so there are no surprises, and to confirm everyone knows where to find a copy of this build if it is needed. If you have any feedback, please [raise an issue in GitHub](#) and we will follow up.

Artikel-URL <https://techcommunity.microsoft.com/t5/sql-server-blog/azure-data-studio-and-bdc-retirement/ba-p/3669192>

Released: Microsoft.Data.SqlClient 5.1 Preview 2

10.11.2022 By David Engel

Microsoft.Data.SqlClient 5.1 Preview 2 has been released. This release contains improvements and updates to the Microsoft.Data.SqlClient data provider for SQL Server. Our plan is to provide GA releases twice a year with two or three preview releases in between. This cadence should provide time for feedback and allow us to deliver features and fixes in a timely manner. This second 5.1 preview includes fixes and changes over the previous preview release.

Added

- Added target-specific support for .NET 6.0 and dropped support for .NET Core 3.1. [#1704](#) [#1823](#)
- Added support for `DateOnly` and `TimeOnly` for `SqlParameter` value and `GetFieldValue`. [#1813](#)
- Added support for TLS 1.3 for .NET Core and SNI Native. [#1821](#)
- Added `ServerCertificate` support for `Encrypt=Mandatory` or `Encrypt=Strict`. [#1822](#)
- Added Windows ARM64 support when targeting .NET Framework. [#1828](#)

Fixed

- Fixed memory leak regression from [#1781](#) using a `DisposableTemporaryOnStack` struct. [#1818](#)

Changed

- Updated `Microsoft.Data.SqlClient.SNI` (.NET Framework dependency) and `Microsoft.Data.SqlClient.SNI.runtime` (.NET Core/Standard dependency) version to [5.1.0-preview2.22311.2](#). [#1831](#) which includes the fix for the TLS 1.3 timeout and double handshake issue, removal of ARM32 binaries, and support for the `ServerCertificate` option. [#1822](#)
- Reverted "Excluding unsupported TLS protocols" for issue [#1151](#) (i.e. removed `Switch.Microsoft.Data.SqlClient.EnableSecureProtocolsByOS`) by adding support for TLS 1.3. [#1824](#)
- Code health improvements [#1812](#) [#1520](#)

For the full list of changes in Microsoft.Data.SqlClient 5.1 Preview 2, please see the [Release Notes](#).

To try out the new package, add a [NuGet reference to Microsoft.Data.SqlClient](#) in your application and pick the 5.1 preview 2 version.

We appreciate the time and effort you spend checking out our previews. It makes the final product that much better. If you encounter any issues or have any feedback, head over to the [SqlClient GitHub repository](#) and submit an [issue](#).

David Engel

Artikel-URL <https://techcommunity.microsoft.com/t5/sql-server-blog/released-microsoft-data-sqlclient-5-1-preview-2/ba-p/3674114>

Manage, secure, and govern your SQL Server estate from Azure

16.10.2022 By Venkata Raj Pochiraju

(Anm. D. Red.; Grafiken aus Platzgründen entnommen)

Overview

Our learnings from talking to several enterprise customers is that businesses are leveraging hybrid and multi-cloud approaches to achieve digital transformation and stay competitive. While we expect this pattern to continue to rise, it also offers a unique set of challenges, especially with its strategic asset "Data" management. Let's look at some of those challenges and learn how Microsoft's "Hybrid and multi-cloud data solutions" help to maximize the cost-effectiveness, security, performance, and reliability of the data with less.

How to optimize costs and get predictable billing for all the data services running across on-premises, and cloud?

How to manage all the digital assets across on-premises and multi-cloud from a single place?

How to improve the organization's security posture so that you get the best-in-class security protection?

How to ensure that business continuity and availability are not interrupted in the event of a disaster.

To address all the above, and more challenges, Microsoft offers **Azure Arc-enabled SQL Server** which lets you manage, secure, and govern your SQL Servers hosted on Windows and Linux physical servers and virtual machines hosted outside of Azure, on your corporate network, or another cloud provider. This management experience is designed to be consistent with how you manage native Azure virtual machines, using standard Azure constructs such as Azure Policy and applying tags.

When you connect SQL Server connected to Azure through Arc, it becomes a connected machine and is treated as a resource in Azure.

NEW: SQL Server pay-as-you-go licensing model
Today at PASS Summit we shared the latest announcements for SQL Server. This includes the availability of a new consumption model for SQL Server, made possible with Azure Arc. It is now available in a cloud-like billing model for all your SQL Servers deployed anywhere. Gain better cost efficiencies when paying only for what you use by activating **pay-as-you-go** (PAYG) licensing option. For some customers, PAYG may offer a cost-effective option in the scenarios below:

- If you have a seasonal business with high demand for a fraction of the time each year.
- If you self-install SQL Servers on any virtual machine like AVS, non-Azure clouds and need a consistent behavior between SQL Server deployed in Azure and outside of Azure.
- If you need a flexible licensing option, choose between consumption-based licensing and a perpetual license.

You can select pay-as-you-go billing through Microsoft Azure to install a Standard or Enterprise edition without supplying a pre-purchased product key.

The billing granularity is one hour, and the charges are calculated based on the SQL Server edition and the maximum size of the hosting server at any time during that hour.

Inventory and Asset management

By Arc enabling all your Servers and SQL Servers, you can get a single consistent view of all your SQL Servers and databases deployed on-premises, edge and multi-cloud. Use "Azure Resource graph" service to query the inventory in various dimensions and increase the visibility of your entire data estate.

Receive "**Extended security updates (ESU)**" through Arc-enabled SQL Servers. For more on this feature visit: [What are Extended Security Updates for SQL Server?](#)

Secure & Protect SQL Servers from Azure

Arc-enabled SQL Server offers centralized security, data governance for all your data assets across Data centers,

multi-cloud environments, managed by Azure native services includes built-in integration with Azure Active Directory (AAD)*, Microsoft Defender, Sentinel and Purview.

Unified Azure Active Directory authentication

Customers with SQL Server 2022 can enable Azure Active Directory authentication, single sign-on, unify SQL Server authentication and leverage multi-factor authentication. Learn more, [Azure Active Directory authentication for SQL Server](#)

Secure with Microsoft Defender for SQL Server

Secure Arc-enabled SQL Server by enabling Microsoft Defender for SQL includes functionality for surfacing and mitigating potential database vulnerabilities and detecting anomalous activities that could indicate a threat to your database. It provides a single go-to location for enabling and managing these capabilities.

[SQL Advanced Threat Protection](#) detects anomalous activities indicating unusual and potentially harmful attempts to access or exploit your database. It continuously monitors your database for suspicious activities, and it provides immediate security alerts on potential vulnerabilities, Azure SQL injection attacks, and anomalous database access patterns. Advanced Threat Protection alerts provide details of suspicious activities and recommend action on how to investigate and mitigate the threat.

[SQL vulnerability assessment](#) is an easy-to-configure service that can discover, track, and help you remediate potential database vulnerabilities.

Learn more, [Protect Azure Arc-enabled SQL Server with Microsoft Defender for Cloud](#)

Purview Access Policies

With new Microsoft Purview access policies for SQL Server 2022 powered by Arc-Enabled SQL Servers, you can gain visibility into your data assets across on-premises data centers and multi-cloud. You can secure access to your data and safeguard sensitive data across applications deployed in multi-clouds.

This feature provides the data administrators or owners the capability to author policies that govern the access to Active Directory users directly from Azure to all your SQL Server 2022 data sources at scale without writing T-SQL code and explicitly creating logins and database users. Learn more, [Microsoft Purview access policies for SQL Server 2022](#)

SQL Server assessments

The SQL Server assessment allows you to diagnose potential issues with your SQL Server environment running on-premises and in multi-cloud environments. The assessment covers areas such as security, performance, SQL Server and database configurations, and disaster recovery proactively detects the risks and provides detailed mitigation

guidance. This promotes managing and operating SQL Server healthily. Learn more, [Configure SQL Assessment | Azure Arc-enabled SQL Server](#)

How to Arc enable SQL Server?

Now that we understand how Azure Arc-enabled SQL Server service brings the power of all innovation built-in Azure Services can be by extending Azure services to all the SQL Servers running outside of Azure and to manage, secure, protect and govern the entire SQL Server data estate at scale, let's examine the different ways to Arc-enable SQL Servers.

SQL Server 2022 setup

SQL Server 2022 install wizard (setup) simply the onboarding to Azure Arc, introduces the Azure SQL extension configuration that you can connect to Azure, and start managing, securing, protecting, and governing from Azure. Learn more, [Install SQL Server 2022](#)

When the host Server is already connected to Arc-Server is Arc enabled

If the host machine with SQL Server is already connected to Azure Arc enabled, you can also Arc-enable connect the

SQL Server instances on that machine by installing the SQL Server Extension - Azure Arc. The SQL Server extension for Azure Arc Server can be found in the extension manager. [Install Azure SQL extension.](#)

When the host server is NOT Arc-enabled

If the server that runs your SQL Server instance is not yet connected to Azure, you can initiate the connection from the target machine using the onboarding script. This script will connect the server to Azure and will install the Azure extension for SQL Server. [Generate an onboarding script for SQL Server](#)

Arc-enable SQL Servers at scale

There are a few ways that you can Arc-enable SQL Servers at scale, using Azure policy, using PowerShell script. More on that feature here, [Connect SQL Server instances to Azure at scale](#)

Artikel-URL <https://techcommunity.microsoft.com/t5/sql-server-blog/manage-secure-and-govern-your-sql-server-estate-from-azure/ba-p/3674920>

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