Microsoft Data and Al News

June 2021

Table of Contents

- Microsoft Data and Al News
 - General Announcements
 - Data Platform
 - Data Integration
 - Analytics and Reporting
 - Al and loT
 - Infrastructure and Management
 - Training and Technical Guides
 - Development and Tools
 - Lifecycle Updates
 - SQL Server Builds
 - Community Resources
 - Newsletter Archives

General Announcements

- Introducing Windows 11
 - Redesigned for productivity, creativity and ease.
 - We put Start at the center and made it easier to quickly find what you need. Start utilizes the power of the cloud and Microsoft 365 to show you your recent files no matter what platform or device you were viewing them on earlier, even if it was on an Android or iOS device.
 - You can also create separate Desktops for each part of your life and customize them to your liking – imagine having a Desktop for work, gaming or school.
 - A faster way to connect to the people you care about
 - With Windows 11, we're excited to introduce Chat from Microsoft Teams integrated in the taskbar.
 - Delivering the best PC gaming experiences yet
 - Windows 11 unlocks the full potential of your system's hardware, putting some of the latest gaming technology to work for you. Like: DirectX 12 Ultimate, which can enable breathtaking, immersive graphics at high frame rates; DirectStorage for faster load times and more detailed game worlds; and Auto HDR for a wider, more vivid range of colors for a truly captivating visual experience.
 - A faster way to get the information you care about
 - When you open your personalized feed it slides across your screen like a sheet of glass so it doesn't disrupt what you're doing. For creators and publishers, Widgets also opens new real estate within Windows to deliver personalized content.
 - An all-new Microsoft Store where your favorite apps and entertainment come together

- Not only will we bring you more apps than ever before, we're also making all content apps, games, shows, movies easier to search for and discover with curated stories and collections.
- When you download an app from the Store you have the peace of mind of knowing it's been tested for security and family safety.
- Starting later this year, people will be able to discover Android apps in the Microsoft Store and download them through the Amazon Appstore.
- Creating a more open ecosystem unlocking new opportunity for developers and creators
 - We're also announcing a progressive change to our revenue share policies where app developers can now bring their own commerce into our Store and keep 100% of the revenue.
- [video] Combating gender-based violence in South Africa with Microsoft Azure
 - Christine and Naomi Bisimwa [...] used Microsoft Azure and GitHub to build an app that empowers girls and women in their community to take their lives back into their own hands.
- Microsoft celebrates Pride by centering on intersectionality, donating to LGBTQI+ non-profits and releasing the largest and most inclusive product lineup
 - This year Microsoft is making the largest and most inclusive Pride themed products in our company's history. Created with and by employees from the LGBTQI+ communities, these Pride products center on the intersectionality of the LGBTQI+ movement across race and ethnicity.

• Defend and deter

- We saw and shared publicly Nobelium's extensive experimentation in the early stages of its campaign experiments consistent with Nobelium's established practice to avoid detection and remain persistent in victim networks. We wanted the defender community in government and in the private sector to have this technical information as soon as possible. Our disclosure has already yielded benefits as CISA, the U.S. agency most responsible for our civil cyberdefense, used our information to identify and help protect more potential victims.
- How Microsoft approaches hybrid work: A new guide to help our customers
 - Two new resources for navigating the shift to hybrid work
 - Hybrid Workplace Flexibility Guide—which we originally created for Microsoft employees. In it, you'll find sample team agreements, templates, and tools for hybrid work
 - Hybrid Work: A Guide for Business Leaders wraps up much of what we've learned about how to reimagine people, places, and processes for a hybrid world
- What's New in Microsoft Teams | May 2021
 - Dynamic view automatically arranges the elements of your meeting for an optimal viewing experience.
 - Presenter mode empowers presenters to customize how their video feed and content appear to the audience with powerful professional layouts, including Standout (show the speaker's video feed as a silhouette in front of shared content).
 - Large meeting support
 - Add a custom attendee registration page to your meetings or webinars to better manage attendance before your virtual event starts.
 - The new share content experience helps presenters find their desired content more quickly and easily. Windows are consolidated into a single bucket to provide a concise view and all PowerPoints are automatically organized to present with PowerPoint Live.
 - Organizers can now set a timer for Breakout rooms from the Breakout Room settings

- There are three new ways that you can now manage your attendees' camera (1) Meeting
 attendees are able to turn their camera on or off to share video by default (2) You can also
 configure to have all attendees' camera disabled (3) You can also enable or disable the camera
 for individual attendees
- Expanding Al-based noise suppression for Mac users.
- o Participant list is now broken out into three sections: Lobby, Presenters, and Attendees
- Launch multiple-choice quizzes (previously known as "Correct Answer Choice") in your Teams meetings
- Tag APIs let frontline workers quickly reach a group of people by role, shifts etc.
- And more!

Data Platform

- SQL Server
 - Cumulative Update #11 for SQL Server 2019 RTM
 - SQL Server 2016 Service Pack 3 release schedule update
- Azure SQL
 - Import BACPAC fails if schema has a large number of tables, indexes and/or views
 - The solution is use SqlPackage.exe with "/p:Storage=File"
 - Option /p: Storage=({File|Memory}) Specifies how elements are stored when building the database model. For performance reasons the default is InMemory. For large databases, File backed storage is required.
 - Azure SQL: Public preview updates for early June 2021
 - Track and record changes in your Azure SQL Databases through Change Data Capture.
 - Stay compliant with regulatory requirements for data residency with backup storage redundancy for Azure SQL Database.
 - Shape query performance and behavior without having to directly modify an application's original T-SQL code with Query Store hint support for Azure SQL.
 - Azure SQL—public preview updates for late June 2021
 - Use AAD-only authentication for SQL Database and Managed Instance to disable SQL authentication.
 - Use Azure SQL Database Hyperscale with named replicas to massively scale out read workloads and easily implement near-real time analytical solutions.
 - Create or upgrade your Azure SQL Managed Instance general purpose instances to host up to 16TB of data.
 - Lesson Learned #177: Is possible to use Private Endpoint with Azure SQL External Tables?
 - Outbound connections for Azure SQL External Tables are [executed] from backend nodes that are outside of any private endpoint addressing space
 - Parallel backup for better performance in SQL Managed Instance General Purpose
 - With parallel backup the files are backed up at the same time and the throughput is spread across the files
 - Use Resource Health to troubleshoot connectivity for Azure SQL Database and Azure SQL Managed Instance
 - Resource Health determines the health of your SQL resource by examining the success and failure of logins to the resource.

- Currently, Resource Health for your SQL Database resource only examines login failures due to system error and not user error.
- The Resource Health status is updated every 1 to 2 minutes.
- When available, the downtime reason is reported in the Health History section of Resource Health. Downtime reasons are typically published within 45 minutes after an event.
- The login failures experienced during planned maintenance are typically transient, and retry logic helps reduce the impact.
- Any client production application that connects to a cloud database should implement a robust connection retry logic, as it would help mitigate these situations and should generally make the errors transparent to the end user.
- Announcing Azure SQL Database ledger in public preview
 - Ledger eliminates the additional cost, complexity, and performance overhead of decentralized blockchain technology while providing many of the benefits of blockchain in a fully managed and familiar SQL environment.
 - With the ledger feature, you will be able to detect if data in your Azure SQL Database has been maliciously altered and if so, restore it back to the original value.
 - The computed hashes of your database are [...] stored outside of Azure SQL Database in tamper-proof storage (such as Azure immutable Blob storage, or Azure Confidential Ledger), as database digests.
 - Database digests are used later to verify that data in the database has not been tampered with.
 - Tutorial Create and use append-only ledger tables
- MySQL
 - Azure Database for MySQL Flexible Server standby server selection in public preview
 - Flexible Server now allows you to select your standby server's zone. In case of any outrages, the standby server will be switched to become the new primary server.
 - Azure Defender for Azure Database for MySQL Single Server now generally available
 - Azure Defender provides security alerts for anomalous activities so that you can detect potential threats and respond to them as they occur.
- MariaDB
 - Azure Database for MariaDB: Planned Maintenance Notifications in general availability
 - During planned maintenance, a notification event is created to inform you when the service update is deployed in the Azure region of your servers.
 - Azure Database for MariaDB Azure Defender in general availability
 - When you enable this plan for Azure Database for MariaDB, Azure Defender for open source relational databases will provide alerts when it detects anomalous database access and query patterns as well as suspicious database activities.
- PostgreSQL
 - Azure Database for PostgreSQL Hyperscale (Citus) now offers server group restart feature in public preview
 - When you use the server group restart feature, all nodes in your Hyperscale (Citus) server group are restarted
 - Azure Database for PostgreSQL Flexible Server: Forced failover in public preview
 - You can use this feature to force a manual failover from your primary to your standby server to either test the high availability functionality or switch the availability zone between the primary and the standby servers.

- Azure Defender for Azure Database for PostgreSQL Single Server in general availability
 - Azure Defender provides security alerts for anomalous activities so that you can detect potential threats and respond to them as they occur.
- Azure Database for PostgreSQL Single Server: Planned Maintenance Notifications in general availability
 - During planned maintenance, a notification event is created to inform you when the service update is deployed in the Azure region hosting your servers.
- Azure Database for PostgreSQL Flexible Server supports PostgreSQL minor versions (public preview)
 - Azure Database for PostgreSQL Flexible Server (preview) now supports the latest PostgreSQL minor versions 13.2, 12.6, and 11.11. These Postgres versions have many security updates and bug fixes.
- Azure Database for PostgreSQL Flexible Server: Support for Postgres 13 (public preview)
 - PostgreSQL 13, the latest major version of PostgreSQL, is now supported in public preview for Azure Database for PostgreSQL – Flexible Server.
- Public preview: Azure Database for PostgreSQL Hyperscale (Citus) support for PostgreSQL 12 and 13
 - Major enhancements in PostgreSQL 13 include de-duplication of B-tree index entries, increased performance for queries using aggregates or partitioned tables, better query planning when using extended statistics, parallelized vacuuming of indexes, incremental sorting, and more.
- Public preview: Azure Database for PostgreSQL Hyperscale (Citus) columnar compression
 - You can use columnar compression (available in select regions) with or without the scaleout features of Citus.
- Public preview: Azure Database for PostgreSQL Hyperscale (Citus) support for Citus 10
 - Citus 10 (available in select regions) includes columnar storage for Postgres, joins and foreign keys between local Postgres and Citus tables, improved SQL and Data Definition Language support, simplified operations, and more.
- Cosmos DB
 - Full text query in diagnostics logs for Azure Cosmos DB in general availability
 - Once enabled, you can view the deobfuscated query operations executed against your Azure Cosmos DB account for more detailed logging to identify performance and usage optimizations.
 - Azure Cosmos DB serverless now in general availability
 - Serverless charges are only for the resources consumed, making it a great deployment option for applications with spiky traffic patterns.
 - Azure Cosmos DB integrated cache now in public preview
 - Integrated cache optimizes costs and boosts performance for read-heavy workloads.
 - Azure Cosmos DB Linux emulator in public preview
 - Enables Linux developers to build, test, and learn on Azure Cosmos DB locally on their Linux and macOS machines.
 - Azure Cosmos DB role-based access control (RBAC) now in general availability
 - With Azure Cosmos DB role-based access control now available for Core (SQL) API, you can enable fine-grained access control by assembling allowed actions into role definitions and assigning these roles to Azure Active Directory (AAD) identities.
 - Cost-optimized diagnostics feature for Azure Cosmos DB in public preview

- Improved ingestion latency and query performance, plus possible cost optimizations on logging diagnostics.
- Always Encrypted for Azure Cosmos DB in public preview
 - Always Encrypted enables developers to encrypt sensitive data inside their client application before it gets stored in their database.
- Partial document update for Azure Cosmos DB in private preview
 - Perform path-level updates to specific fields/properties in a single document without needing to perform a full document read-replace operation.
 - This lowers end-to end-latency and can significantly reduce network payload, introduce considerable savings in CPU cycles of the client servers, and provide automatic and transparent path-level conflict resolution during concurrent writes on the same document across different properties.

Data Integration

- General availability: Support for SQL Server in data flows using Azure Data Factory & Azure Synapse
 - You can now connect to your on-premises and VM-based SQL Server natively within data flows
 - The ADF team is excited to announce that we are opening up on-prem and VM-based SQL Server as a source and sink to data flows in ADF and Azure Synapse Analytics. You will see SQL Server now as a connector option in both shared integration datasets as well as inline in your source & sink.
 - New Data Flow Connector: SQL Server as Source and Sink
- General availability: Logic Apps with new hosting options
 - Logic Apps will now run on a new containerized runtime, the same runtime powering Azure
 Functions, providing hosting flexibility to run on Functions, App Service, Kubernetes, Docker and any cloud.
 - New Visual Studio code extension ... allows local development.
- [video] Azure Data Factory update: governance, data flow startup, and CI/CD | Azure Friday
 - Using Azure Data Factory and Azure Purview for data governance and data integration
 - Fast startup time to data flow compute clusters
 - CI/CD improvements with Azure Data Factory

Back to Contents

Analytics and Reporting

- New Power Platform features reinforce end-to-end security, management, monitoring, and compliance
 - We are announcing a new, modern user security configuration experience in the Microsoft Power Platform admin center, generally available on July 30.
 - We are introducing several enhancements, opening up for preview in July, that will represent a level of granularity that is unmatched in the industry.
 - Connector action control enables admins to safely enable business use cases using Microsoft Power Platform with the ability to control not only which connectors are allowed for usage in each environment but also which specific actions for particular connectors that can be used by the app makers. For example, an organization may have a policy that says users cannot post tweets to Twitter but reading or extracting tweets is allowed.

- [Added] enhanced Data Loss Prevention policies to support a more scalable approach to the governance of custom connectors.
- Endpoint filtering, also being added to the platform, helps to govern which specific instances of data sources users can access (such as, a specific SQL server).
- Microsoft Information Protection sensitivity labels will provide a simple way for your users to classify critical content in Microsoft Power Platform without compromising productivity or the ability to collaborate.
- Administrative operations are fully automatable, providing the option to either call the API, that operates the Microsoft Power Platform admin center or use the available PowerShell cmdlets, which enable admins to complete admin tasks using script commands.
- New tenant-wide analytics, which released to preview on June 25, 2021, will make monitoring a breeze. These out-of-the-box analytical views will provide visibility into the full inventory as well as all maker activities across all of your environments in a single view.
- We are introducing the ability to export usage telemetry to Azure Data Lake.
- Introducing performance and diagnostics monitoring using Azure Application Insights.
- Microsoft's centralized governance, risk, and compliance tool support the implementation
 of a quarterly scorecard to communicate compliance, capability, and risk posture to drive
 readiness and minimize adverse impacts to Microsoft and our customers.
- Public preview: Announcing Azure Synapse Link for Dataverse
 - In just a few clicks, developers working in Power Apps or Dynamics 365 can bring their entire Dataverse environment to Azure Synapse.
- Public preview: Apache Spark 3.0 support in Azure Synapse Analytics
 - Apache Spark 3.0 runtime is now available in Azure Synapse
- Private preview: NVIDIA GPU Acceleration for Apache Spark™ in Azure Synapse Analytics
 - Ideal for deploying machine learning inferencing or analytical workloads in a cost-effective manner.
 - With Apache Spark[™] deployments tuned for NVIDIA GPUs, plus pre-installed libraries, Azure Synapse Analytics offers a simple way to leverage GPUs to power a variety of data processing and machine learning tasks.
- Power BI Windows app has new look (preview)!
- What's new in the June update of Power BI Report Builder
 - Power BI Report Builder is now available as a preview release for download from the Microsoft Store.
 - New "Data" tab
 - Previously, users were required to first connect to the model in the tool to paste in their custom DAX query. Now, customers can paste their DAX statement into the dataset without connecting to the model, allowing you to speed up report development when leveraging this method.
 - We've added support for SSO for both SQL Server and Oracle data sources through the Power BI Enterprise Gateway
 - A number of accessibility improvements and bug fixes have also been included in this release.
- Announcing email notifications for non-owners of dataflows
 - Announcing the availability of email notifications to non-owners in your organization
 - There's no opt in required. Just add new contacts to the list and they'll be notified via email if any issues arise
- Announcing Power BI in Jupyter notebooks
 - New package lets you embed Power BI reports in Jupyter notebooks easily.

- You can install the Power BI Client for Jupyter from PyPI
- Automate deployments with deployment pipelines API (preview)
 - We are releasing a new set of REST APIs that allow developers to automate the deployment of content within an existing deployment pipeline
 - We also provided PowerShell samples for an easy integration with tools like Azure DevOps.
- [video] Microsoft Azure Synapse Analytics knowledge center
- Quickly create reports from SharePoint lists
 - This experience empowers SharePoint list and Microsoft List users to easily explore their list data with just a few clicks
- Power BI June 2021 Feature Summary
- Paginated report visual for Power BI reports is now available in public preview
 - This native Power BI visual allows you to render any paginated report you've uploaded to the service in a Power BI report. And because you can wire up fields from your Power BI dataset to be used as parameter values, thus providing a fully-interactive experience with the paginated report, just like any other visual.
- Query Delta Lake files using T-SQL language in Azure Synapse Analytics public preview
 - In this article you will learn how to run the T-SQL queries on a Delta Lake storage from your Synapse workspace.
 - You just need to provide a URI of the Delta Lake folder to the OPENROWSET function and specify that the format is DELTA.

Al and IoT

- Introducing the Ingestion Client for Azure Speech
 - Ingestion Client, an Azure solution that will monitor your dedicated Azure Storage container so that audio files landing in that storage are automatically transcribed.
 - We created this tool to help you set-up a full blown, scalable, and secure transcription pipeline through simple configuration and without any development effort.
- Azure Machine Learning public preview announcements for June 2021.
- Azure IoT Edge for Linux now generally available
 - Azure IoT Edge for Linux on Windows (EFLOW) allows you to manage and deploy your IoT Edge Linux workloads, such as Azure SQL Edge and Azure Live Video Analytics on PC-Class Windows IoT devices using your existing Microsoft management resources and technology.
- Azure Machine Learning Managed Online and Batch Endpoints now in public preview //Build 2021.
 - Managed Online Endpoints provide out of box capabilities to operationalize models: SLA metrics including latency, throughput and resource utilization, security aspects including managed identity and authentication, integration with log analytics, and safe rollout of new model versions.
 - Managed Batch Endpoints help customers deploy and operationalize their models and get a consistent endpoint to batch score large scale data. It also supports no-code MLflow model deployment.
- Azure Machine Learning general availability announcements //Build, May 2021
 - Data Labeling-Image Instance Segmentation in Azure Machine Learning gives you a central place to create, manage, and monitor labeling projects.

- Azure Machine Learning supports managing the end-to-end machine learning cycle using open MLFlow standards, enabling existing workloads to move from local execution to execution in the intelligent cloud & edge.
- General availability: Azure Applied Al Services
 - We are announcing a new category of services called Azure Applied AI Services. These services combine Azure Cognitive Services with task-specific AI and business logic, so developers can accelerate building AI solutions for common scenarios, such as document processing, customer service, and extracting insights from content. Applied AI services include Azure Bot Service, Azure Cognitive Search, Azure Form Recognizer, Azure Metrics Advisor, and Azure Immersive Reader, which many developers already know and love.
- Now available: Translate full documents with Microsoft Translator
- General availability: Azure Cognitive Services Text Analytics for Health
 - Now in general availability, use Text Analytics for Health to detect words and phrases mentioned in unstructured text as entities in the healthcare and biomedical domain.
- Public preview: Azure Cognitive Services Text Analytics Adds Question Answering Feature
 - The new, standard Question Answering feature will try to find the relevant answer for a user question, from a given passage of text such as a document returned as a search result, standalone web page, etc.
- From conversation to code: Microsoft introduces its first product features powered by GPT-3
 - With new features powered by GPT-3, Microsoft Power Apps users can describe a programming goal in conversational language and have it automatically transformed into Power Fx code
- Cognitive Services Form Recognizer adds new version in general availability
 - Extract data from ID cards and extract line items from invoices using state-of-the-art deep learning models.
 - Extract tables with column header information.
 - Tag data as tables and empty values for your custom form models.
 - New version supports 73 languages.

Infrastructure and Management

- Azure Data Lake Storage Gen1: Account creation will be blocked for new customers starting July 5, 2021
 - Starting July 5, 2021, customers who don't have an existing account on Azure Data Lake Storage Gen1 will not be able to create Azure Data Lake Storage Gen1 accounts. We recommend Azure Data Lake Storage Gen2 for all your analytics needs.
 - Azure Data Lake Storage Gen1 will be retired on Feb 29, 2024.
- General availability: Key Rotation and Expiration Policies for Azure Storage
 - We are launching a feature, that will allow you to not only set key expiration duration but also add policies that can mandate anyone deploying storage endpoints to specify key rotation duration.
 - Furthermore, you would be able to monitor key expiration and set alerts if a key is about to expire. For accounts that are nearing key expiry, you can rotate the keys using APIs, CLI, Powershell, or Azure Portal.
- Azure announces general availability of scale-out NVIDIA A100 GPU Clusters: the fastest public cloud supercomputer
- Azure Cost Management and Billing updates June 2021

- o Reminder: Cloudyn retiring on June 30
- [video] Group Managed Service Account for Windows container and AKS on Azure Stack HCI
- Azure Storage Blob inventory public preview is now available in all public regions
 - Azure blob storage inventory provides you the ability to understand the total number of objects, their size, tier, and other information to gain insight into your object storage estate. Inventory can be used with Azure Synapse to calculate summaries by container.
 - Calculate blob count and total size per container using Azure Storage inventory

Training and Technical Guides

- [video] Leverage indoor mapping capabilities into your apps with Azure Maps Creator
- Community and certification related resources for developers
- Best practice rules to improve your model's performance and design v1.1
- Power BI Dev Camp | Teaches Advanced Data Modeling
- [video] How to build a graph and use links in Azure Workbooks
- [video] How to deploy Azure Cognitive Services in containers | Azure Tips and Tricks

Back to Contents

Development and Tools

- Preview updating PowerShell 7.2 with Microsoft Update
 - With Microsoft Update, you will get the latest PowerShell 7 updates directly in your traditional Windows Update (WU) management flow, whether that's with Windows Update for Business, WSUS, SCCM, or the interactive WU dialog in Settings.
- Released: Update to Microsoft OLE DB Driver 18 for SQL Server
- Released: General Availability of Microsoft.Data.SqlClient 3.0
- Introducing Developer Velocity Lab A Research Initiative to Amplify Developer Work and Well-Being
- Azure Communication Services UI Library available in public preview
- General availability: Improved Python support in Visual Studio Code with Pylance
- Event Hubs Premium now available in public preview
- New tools from Microsoft Research help developers write bug-free code, faster

Back to Contents

Lifecycle Updates

- Search Product and Services Lifecycle Information
 - Microsoft Lifecycle provides consistent and predictable guidelines for support throughout the life of a product, helping customers manage their IT investments and environments while strategically planning for the future.
- Lifecycle FAQ
- Products Reaching End of Support for 2021
 - SQL Server 2016 moving to extended support on July 13, 2021. Extended Support includes security updates at no cost, and paid non-security updates and support. Additionally, Microsoft will not accept requests for design changes or new features during the Extended Support phase.
- SQL Server Native Client (SNAC) is deprecated.

- OLEDB: Microsoft OLE DB Driver for SQL Server (msoledbsql not the older, sqloledb). Note:
 OLEDB has been undeprecated. To use the new msoledbsql driver in existing applications, you
 should plan to convert your connection strings from sqlncli or sqloledb, to the newer
 msoledbsql.
 - For example, convert -from- Provider=SQLNCLI11; Server=SQL1;Database=DB1;Trusted_Connection=yes; -to- Provider=MSOLEDBSQL; Server=SQL1; Database=DB1;Trusted Connection=yes;
- ODBC: Download the latest ODBC Driver for SQL Server
- Support for .NET Framework 4, 4.5 and 4.5.1 ended on January 12, 2016
 - The support change does not affect the support lifecycle policy for older versions prior to .NET Framework 4. Support for .NET Framework 4.5.2, as well as all other .NET versions such as 3.5 SP1, will continue to be supported for the duration of the operating system support lifecycle.
 - Beginning with version 4.5.2 and later, .NET Framework is defined as a component of the Windows operating system (OS). Components receive the same support as their parent products, therefore, .NET Framework 4.5.2 and later follows the lifecycle policy of the underlying Windows OS on which it is installed.

SQL Server Builds

- Find information about the latest SQL GDRs (security updates). The Security Update Guide is the authoritative source of information on Microsoft security updates. You can filter by date and product category.
- Find the latest SQL Server service packs and cumulative updates.
 - Note: SQL Server Service Packs are discontinued starting from SQL Server 2017
- Find downloads for SQL service packs, setup updates ("Smart Setup"), security updates, and update rollups in the Microsoft Update Catalog

Back to Contents

Community Resources

- Microsoft Tech Community. Collaborate, share and learn from experts. View recent blog articles.
- Provide Feedback to the Product Group
- Channel 9 Shows
 - Data Exposed
 - Learn with Dr. G
- Microsoft Learn. Up your game with a learning path designed to prepare you for industry-recognized Microsoft certifications.

Back to Contents

Newsletter Archives

- Azure Talking Points: Microsoft Data and Al News
- SQL Server Updates and Lessons Learned

Back to Contents

Table of Contents

- Microsoft Data and Al News
 - General Announcements
 - Data Platform
 - Data Integration
 - Analytics and Reporting
 - Al and IoT
 - Infrastructure and Management
 - Training and Technical Guides
 - Development and Tools
 - Lifecycle Updates
 - SQL Server Builds
 - Community Resources
 - Newsletter Archives