Feature availability

O Not supported
Fully supported

## Read about the performance, security, and Azure-connected features of SQL Server 2022 >

SQL Server 2022 comparison Compare SQL Server 2022 features and capabilities with prior versions. Try now >

SQL Server 2022: Azure-enabled, with continued

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Get to know the features and benefits now available in SQL Server 2022.

Download the datasheet >

**Compare SQL Server versions** 

Features	SQL Server 2022	SQL Server 2019	SQL Server 2017
Intelligence across all your data			
Data virtualization using PolyBase <sup>[1]</sup>			
Data virtualization for any data lake		0	0
Object storage backup and restore		0	0
Azure Synapse Link		0	0
Database performance			
In-memory database: in-memory OLTP			
In-Memory Database: Persistent Memory <sup>[2]</sup>			
In-memory database: memory-optimized tempdb			0
Real-time operational analytics			
Intelligent query processing <sup>[3]</sup>			
Buffer pool parallel scan		0	0
Query Store on by default with replica support		0	0
Query Store hints		0	0
Integrated acceleration & offloading		0	0
Hybrid buffer pool with direct write		0	0
Advanced Vector Extension (AVX) 512 extension to improve batch mode operations		0	0
Availability			
Always on			
Accelerated database recovery			0
Read scale-out availability groups			
Large memory and concurrency scalability		0	0
Multi-write replication		0	0
Link to Azure SQL Managed Instance - replicas			
Link to Azure SQL Managed Instance - unidirectional			
Link to Azure SQL Managed Instance - bidirectional <sup>[6]</sup>		0	0
Contained availability group		0	0
Encryption at rest and in motion			0
Security			
Always encrypted with secure enclaves <sup>[4]</sup>		•	0
Data discovery and classification	•	•	0
Transparent data encryption		•	•
Backup encryption support		•	
Encryption at rest and in motion		•	
Dynamic data masking and row-level security			
Microsoft Entra ID (formerly Azure Active Directory) authentication [7]		0	0
Microsoft Defender for SQL			•
Microsoft Purview Integration central governance		•	
Microsoft Purview Integration data owner policies		0	0
SQL Ledger	•	0	0
Support for PFX certificates and other cryptographic enhancements		0	0
MS-TDS 8.0 protocol and TLS 1.3		0	0
Azure-enabled			
Link to Azure SQL Managed Instance - replicas			
Link to Azure SQL Managed Instance - unidirectional			
Link to Azure SQL Managed Instance - bidirectional [6]			
Optimized virtual machine (VM) images in Azure gallery			

## Azure Purview central governance

Microsoft Defender for SQL

Azure Purview data owner policies

Azure Synapse Link for SQL

Linux support

Container support

Management and programmability

Microsoft Entra ID (formerly Azure AD) Authentication

Free asynchronous replication on Azure Virtual Machines for disaster recovery

Kubernetes support Temporal tables

JSON support Graph data support

UTF 8 support

Database compatibility certification

Azure Data Studio to manage SQL Server including support for T-SQL using notebooks

Java support

Bit manipulation functions Time series support

Master data services<sup>[5]</sup>

Data quality services [5]

Tabular BI semantic model<sup>[5]</sup>

**BI and Analytics Support** 

Integration services managed as a server

Many-to-many relationships in tabular models

SQL Server Analysis Services (SSAS) direct query

End-to-end mobile BI on any device

Calculation groups in tabular model

[4] See additional SQL Server 2022 secure enclaves <u>updates</u>. [5] SQL Server Enterprise edition only. [6] The bidirectional disaster recovery capability of the Link feature for Azure SQL Managed Instance is available in limited public preview. Learn more.

[7] Feature requires connection to Azure Arc agent.

[3] See full <u>list Intelligent Query Processing updates</u> by release.

[1] For HDFS and Azure Blob Storage only(For SQL Server 2017, SQL Server 2016 only).

[2] For tail of the log only (For SQL Server 2017, SQL Server 2016 only).

NOTE: See the <u>list</u> of SQL Server 2022 features.

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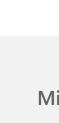
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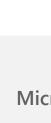
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What's new

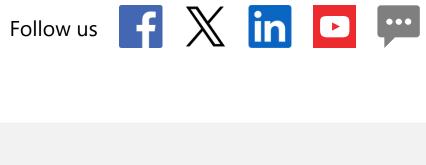
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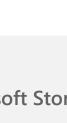
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Microsoft Teams for Education Sitemap

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