

# SQL Server 2022 editions

Azure-enabled with continued performance and security innovation

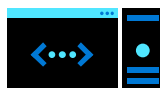


## Express

Free, entry-level database for small web and mobile apps

### Feature highlights

- Up to 4 cores of CPU
- Up to 1410 MBs of memory
- Microsoft Purview Policies
- Azure AD authentication
- Built-in query intelligence: PSP Optimization, Optimized plan forcing
- Query store on by default for new databases
- Data Lake Virtualization
- Ledger
- Timeseries support



## Standard

Full featured database with for mid-tier applications and data marts

### Feature highlights

- Up to 24 cores of CPU
- Up to 128 GBs of memory
- Azure Synapse Link for SQL
- Link feature for Azure SQL Managed Instance (basic availability groups)
- Buffer Pool Parallel Scan
- Backups to S3-compatible object storage

+ Express features



## Enterprise

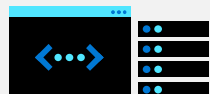
Mission-critical performance and intelligence for tier 1 databases

### Feature highlights

- Unlimited cores of CPU
- Unlimited memory
- Azure Synapse Link for SQL (multi-threaded snapshot)
- Link feature for Azure SQL Managed Instance
- Built-in query intelligence: DOP feedback, CE Feedback, Memory Grant Feedback
- Contained Availability Group
- AVX 512 extension for batch mode

+ Standard features

+ Express features



## Developer

Free to use with all the features of Enterprise Edition specifically for dev/test in non-production environments

← Build once and deploy across any SQL Server edition without changing your app →

# What's new in SQL Server 2022

SQL Server 2022 new features		Express	Standard	Enterprise
<b>Compute and storage</b>	Maximum number of cores	4	24	OS Max
	Maximum memory utilized per instance	1410 MB	128 GB	OS Max
	Maximum relational database size	10 GB	524 PB	524 PB
<b>Azure-enabled</b>	Azure Synapse Link for SQL		×	×
	Ledger	×	×	×
	Link feature for Azure SQL Managed Instance			×
	Link feature for Azure SQL Managed Instance (basic availability groups)		×	
<b>Choice of language and platform</b>	Microsoft Purview policies	×	×	×
	JSON T-SQL Enhancements	×	×	×
	Modern T-SQL surface area	×	×	×
	Query Store by default for new databases	×	×	×
	Query Store: Read-replica support			×
	Built-in query intelligence: Parameter Sensitive Plan (PSP) Optimization, Optimized plan forcing	×	×	×
	Built-in query intelligence: CE Feedback, DOP Feedback, Memory Grant Feedback			×
<b>Industry-leading performance and availability</b>	Contained Availability Group			×
	Buffer Pool Parallel Scan		× (limited to 2 threads, over 64GB Mem only)	×
	AVX 512 extension for batch mode			×
	Intel QAT Enhancements for Backup		× (SW only)	× (HW + SW)
	Timeseries support	×	×	×
<b>Secure and reliable</b>	Always Encrypted with secure enclaves - new features	×	×	×
	Granular permissions for Dynamic Data Masking	×	×	×
<b>Analytics</b>	Data Lake Virtualization	×	×	×
	Object Storage Integration with S3-compatible storage		×	×

# SQL Server 2022 continues to deliver unparalleled value



Business continuity through Azure



Seamless analytics over on-prem operational data



Visibility over your entire data estate



Most secure over the last 10 years<sup>1</sup>



Industry-leading performance and availability

## 2017 additions

- Support for Linux including Red Hat Enterprise Linux (RHEL), SUSE Linux Enterprise Server (SLES), and Ubuntu
- Support for Docker containers on Linux and Windows
- Python language support
- Support for graph data
- Automatic plan correction and adaptive query processing
- Cross platform availability groups

## 2019 additions

- Azure Machine Learning and Spark ML
- Support for Kubernetes deployment
- Free supported Java
- Native UTF-8 support
- In-Memory Database: Persistent Memory support
- Accelerated database recovery
- Free DR to Azure Always Encrypted with secure enclaves
- Data classification & auditing
- Vulnerability assessment

## 2022 additions

- Azure extension for SQL Server
- Link feature for Azure SQL Managed Instance
- Azure Synapse link for SQL
- Azure Purview policies
- SQL Server Ledger
- Large memory and concurrency scalability
- Data virtualization for any data lake
- Object storage backup and restore
- Query Store on by default with replica support
- Query Store hints
- Intelligent Query Processing NextGen
- JSON functions
- Modern T-SQL surface area
- Time series support
- Integrated acceleration & offloading

Full list of SQL Server 2022 editions and supported features available on [SQL Docs](#)