

SQL SERVER 2017 EDITIONS

Common programming surface area - develop once and scale across editions

Bring the performance and security of SQL Server to Windows, Linux and Docker containers, with your choice of editions. SQL Server 2017 delivers industry-leading mission critical database capabilities with everything built-in. Gain transformative insights from in-database advanced analytics with Python and R, and rich interactive visualizations on any device.

Express

SMALL-SCALE APPLICATIONS

- ✓ Development and management tools
- ✓ Easy backup and restore to Microsoft Azure
- ✓ Free to use

Standard

FULLY FEATURED DATABASE FOR MID-TIER APPLICATIONS AND DATA MARTS

- ✓ End-to-end database security with Always Encrypted
- ✓ Enhanced in-memory performance for all workloads
- ✓ Basic reporting
- ✓ Basic analytics
- ✓ Hybrid scenarios: Stretch Database, backup

Enterprise

MISSION CRITICAL IN-MEMORY PERFORMANCE AND SCALE, SECURITY AND HIGH AVAILABILITY

- ✓ Mission critical high availability on Windows and Linux
- ✓ Enhanced in-memory performance
- ✓ Faster performance with Adaptive Query Processing
- ✓ Unparalleled data security
- ✓ PB scale data warehousing
- ✓ End-to-end mobile BI with rich visualizations on all major platforms
- ✓ In-database advanced analytics built-in at scale with R and Python
- ✓ Enhanced hybrid scenarios including Stretch Database, HA, DR and backup
- ✓ Software Assurance benefits include unlimited virtualization, Machine Learning Server for Hadoop, and Power BI Report Server

Developer

DEVELOPMENT AND TESTING ✓ Build, test, and demo apps in non-production environments ✓ Free to use ✓ All Enterprise Edition features available

SQL Server 2017 features by edition		Standard	Enterprise
OLTP Performance	Maximum number of cores	24 cores	Unlimited
	Maximum memory utilized per instance	128 GB	OS Max
	Maximum size	524 PB	524 PB
	Advanced OLTP (In-memory OLTP*, Operational analytics)	●	●
	Basic high availability (2-node single database failover, non-readable secondary)	●	●
	Manageability (Management Studio, Policy-Based Management)	●	●
	Enterprise data management (Master Data Services, Data Quality Services)**		●
	Advanced HA (Always On - multi-node, multi-db failover, readable secondaries)		●
	Basic Adaptive Query Processing (Interleaved execution) NEW*	●	●
	Advanced Adaptive Query Processing (Batch mode memory grant feedback, Batch mode adaptive joins), Automatic Plan Correction NEW*		●
Security	Basic security (Always Encrypted, Row-level security, data masking, basic auditing, separation of duties)	●	●
	Advanced security (Transparent Data Encryption)		●
Data Warehousing	Advanced data integration (Fuzzy grouping and look ups, change data capture)		●
	Data warehousing (In-Memory ColumnStore, Partitioning)	●	●
	T-SQL query across relational and Hadoop data with PolyBase**	●	●
Business Intelligence	Programmability & Developer Tools (T-SQL, CLR, Data Types, FileTable**, JSON, graph data support) NEW*	●	●
	Basic data integration (SSIS, built-in connectors)	●	●
	Basic reporting & analytics**	●	●
	Basic Corporate Business Intelligence (Multi-dimensional models, Basic tabular model, enhanced connectors, new transformations, object-level security, ragged hierarchies)** NEW*	●	●
	Mobile BI**		●
	Advanced Corporate Business Intelligence (Advanced tabular model, Direct query, in-memory analytics, advanced data mining)**		●
Advanced Analytics	Basic R and Python integration (Connectivity to R Open and Python, Limited parallelism)** NEW*	●	●
	Advanced R and Python integration (Ability to run on GPUs and full parallelism through Machine Learning Services)** NEW*		●
Hybrid Cloud	Stretch Database**	●	●

Features in blue are newly available.

*In-memory OLTP subject to memory limits in Standard Edition

**Available for Windows Server only