

# SQL Server 2019 - Microsoft Relational Database Management System

SQL Server 2019 continues to push the boundaries of security, availability, and performance for all your data workloads.

SQL Server is essentially a relational database management system designed and developed by Microsoft that allows developers and data engineers to store and retrieve data while developing applications. software. The current instance is SQL Server 2019, which is an upgrade from SQL Server 2017. From MS SQL Server for OS/2 starting in 1989 and the first SQL Server 4.2 release in 1993, SQL Server has gone through. a long street. SQL Server 2019 offers capabilities and functionality that have been significantly improved over the decades.

SQL Server 2019 continues to push the boundaries of security, availability, and performance for all your data workloads, now with new, higher-performance compliance tools on the latest hardware. and high availability on Windows, Linux and containers. Advanced PolyBase allows you to query other databases like Oracle, Teradata and Mongo DB directly from SQL Server without moving or copying data.

SQL Server can be used on Azure ie. Cloud, on-premises as well as extending to IoT devices through Edge.



## Outstanding features of SQL Server 2019

1. **Intelligently handle all your data** : SQL Server is a hub for data integration. Deliver transformative insights by querying across your entire data region.
2. **Choice of languages ??and platforms** : Build modern apps in any data, any language - on-premises and in the cloud, available on Windows, Linux, and Docker containers.

3. **Industry-leading performance** : Leverage breakthrough scalability, performance, and availability for intelligence applications and mission-critical data warehouses.
4. **Least vulnerable** : Increase security with encryption at rest and when active. SQL Server has been the least vulnerable database for the past 8 years in the NIST vulnerability database.
5. **Make Faster and Better Decisions** : The powerful reporting capabilities of SQL Server Reporting Services or the rich interactive visualizations from Power BI, SQL Server all work with your favorite reporting tools.
6. **Support multiple languages** : English, German, Japanese, Spanish, Korean, Russian, Italian, French, Chinese (Simplified), Chinese (Traditional), Portuguese (Brazil)

## Hardware requirements

The following memory and processor requirements apply to all instances of SQL Server:

Element	Request
Hard Drive	SQL Server requires a minimum of 6GB of available hard drive space. Hard disk space requirements will vary depending on the SQL Server component you install.
Screen	SQL Server requires a monitor with Super-VGA (800x600) resolution or higher.
Internet	Internet functionality requires Internet access (charges may apply).
Memory	<p>Minimum:</p> <ol style="list-style-type: none"> <li>1. Express Edition: 512MB</li> <li>2. All other versions: 1GB</li> </ol> <p>Recommendations:</p> <ol style="list-style-type: none"> <li>1. Express Edition: 1GB</li> <li>2. All other instances: Minimum of 4GB and must be increased as database size increases to ensure optimal performance.</li> </ol>
Processor speed	<ol style="list-style-type: none"> <li>1. Minimum: x64 processor, 1.4GHz</li> <li>2. Recommended: 2.0GHz or faster</li> </ol>
Processor Type	x64 processor: AMD Opteron, AMD Athlon 64, Intel Xeon with Intel EM64T support, Intel Pentium IV with EM64T support

## Software requirements

The following requirements apply to all settings:

Element	Request
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Operating system	<ol style="list-style-type: none"><li>1. Windows 10 TH1 1507 or later</li><li>2. Windows Server 2016 or later</li></ol>
.NET Framework	Minimal operating system including minimal .NET framework.
Network software	Supported operating systems for SQL Server with built-in networking software. The named and default versions of the standalone installation support the following network protocols: Shared memory, Named Pipes, and TCP/IP.

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