

Run Microsoft SQL Server 2022 on Dell servers using AMD EPYC™ processors

Optimize performance, transaction processing rates, availability, and security with SQL Server running on AMD EPYC™ processor-based servers

Business continuity	Seamless analytics	Industry-leading performance	Proven security leadership
Enhance disaster recovery by reducing the time to recover with accelerated database recovery (ADR) and Azure integration with SQL Server on OEM hardware enabled by AMD EPYC™ processors.	Query data and do analytics quickly from within SQL Server or using external data sources through data virtualization in SQL Server on hardware using AMD EPYC™ processors.	Take advantage of #1 Non-clustered DW performance on 10TB ¹ only with AMD EPYC™ processors.	Modernize protection and minimize potential attack surfaces with the industry-leading security of SQL Server and AMD Infinity Guard's hardware-based, multilayered security. ²
Only in SQL Server 2022: Azure integration is made even easier with Azure SQL Managed Instance link.	Only in SQL Server 2022: Azure Synapse Link delivers near real-time insights with a no-ETL connection.	Only in SQL Server 2022: Improvements in intelligent query processing (IQP) and Query Store in SQL Server 2022 continue the tradition of release-over-release performance improvements.	Only in SQL Server 2022: SQL Server 2022 adds SQL Ledger to provide an immutable record of data modifications.



Take your SQL Server workloads running on AMD EPYC™ processor to the next level with Dell servers

PowerEdge R7525

Dell PowerEdge R7625 Rack with two 4th Generation AMD EPYC™ Processors and up to 24x 128GB DDR5 RDIMM (3TB) with bandwidth up to 4800 MT/S.

Deliver breakthrough performance, innovation and density for traditional and emerging workloads

Increase efficiency and accelerate operations with an automated infrastructure

Fortify your data center with integrity

¹ <https://www.tpc.org/3391>

² AMD Infinity Guard features vary by EPYC™ Processor generations. Infinity Guard security features must be enabled by server OEMs and/or Cloud Service Providers to operate. Check with your OEM or provider to confirm support of these features. Learn more about Infinity Guard at https://www.amd.com/en/technologies/infinity-guard_GD-183

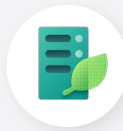
AMD EPYC™ 9004 Series Processors



Faster Time-to-Results
AMD EPYC 9004 Series processors deliver exceptional time-to results for your business critical applications.



Cutting-Edge Security Features
EPYC processors includes AMD Infinity Guard, a comprehensive suite of security features that can keep your data safe



Energy Efficiency
EPYC processors power the most energy-efficient x86 servers, helping you reduce energy costs and meet corporate sustainability goals



Faster insights
Capture the full value of your IT investment with EPYC processor-powered servers that improve time-to-value for your applications and help you gain business-critical insights faster.

4th Gen AMD EPYC™ processors are available on 1P and 2P configurations and feature:

- Up to 128 cores (256 threads) per processor.
- Up to 384 MB L3 cache.
- Up to 12 memory channels per socket that support up to 6 TB of DDR5-4800 memory.
- Support for up to 128 (1P) and up to 160 (2P) PCIe® Gen 5.
- AVX-512 instruction support for enhanced AI and Machine Learning

4th Gen AMD EPYC processors deliver efficient, optimized performance by combining high frequencies, the largest-available L3 cache, up to 128 (1P) or up to 160 (2P) lanes of PCIe® Gen 5 I/O, synchronized fabric and memory clock speeds, and support for up to 6 TB of DDR5-4800 memory.

SQL Server database sizing recommendations

Size	Size/Users	CPU Cores	SKU	AMD Sizing Recommendation	
S	300GB-1TB <10 users	16	9174F 7313	• CPU: 1x 9174F • Memory: 192GB (12x 16GB) DDR5@4800MT/s	• Disk (REDO): 2x 1TB NVMe • Disk (DATA): 12x 1TB NVMe • NIC: 2x 10G
M	1TB-3TB <20 users	32	9374F 7543	• CPU: 1x 9374F • Memory: 384GB (12x 32GB) DDR5@4800MT/s	• Disk (REDO): 2x 3TB NVMe • Disk (DATA): 12x 3TB NVMe • NIC: 2x 25G
L	3TB-10TB <50 users	48	9474F	• CPU: 2x 9474F • Memory: 3TB (24x 128GB) DDR5@4800MT/s	• Disk (REDO): 2x 3TB NVMe • Disk (DATA): 12x/24x 3TB NVMe • NIC: 2x 25G
XL	10TB-100TB+ >50 users	96	9654	• CPU: 2x 9654 • Memory: 3TB (24x 128GB) DDR5@4800MT/s	• Disk (REDO): 2x 3TB NVMe • Disk (DATA): 12x/24x 3TB NVMe • NIC: 2x 25G

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