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Databases on Azure

Build and transform applications with intelligent, limitless, and trusted cloud databases.

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Azure offers a choice of relational and non-relational databases for all your application needs. Built-in intelligence helps automate management tasks like high availability, scaling, and query performance tuning so your applications are always on and ready. Support mission-critical applications with limitless database scale and up to 99.999% availability. Trust Azure for built-in data security controls, broad regional coverage, and industry-leading compliance certifications to help strengthen your security posture and support your business growth.

Build modern applications with cloud-scale databases

Purpose-built Azure databases

Azure Cosmos DB	**Fast, distributed NoSQL and relational database at any scale** Develop high-performance applications of any size or scale with a fully managed and serverless distributed database supporting open-source PostgreSQL, MongoDB, and Apache Cassandra as well as Java, Node.JS, Python, and .NET.	**Best for** • Delivering real-time personalization • High-quality, global app experiences at scale • Handling peak sales periods with ease • Leveraging real-time, IoT telemetry streaming data
Azure SQL Database	**Flexible, fast, and elastic SQL database for your new apps** Build apps that scale with a fully managed and intelligent SQL database built for the cloud. Grow your applications with near-limitless storage capacity and responsive serverless compute, backed by AI-based advanced security.	**Best for** • High-performance transactional applications • Finance, sales order management, systems of record • Processing streaming data to uncover app insights • Simplifying complex data landscapes

Best of open source

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[Azure Database for PostgreSQL](#)	**Fully managed, intelligent, and scalable PostgreSQL database** Innovate faster with a fully managed PostgreSQL database service for open-source developers building scalable and secure enterprise-ready apps.	**Best for** - Open-source, enterprise app development - Rich and personalized digital marketing experiences - Secure and scalable e-commerce solutions - Finance management apps - Scalable web and mobile apps
[Azure Database for MySQL](#)	**Scalable, open-source MySQL database** Develop apps with a fully managed community MySQL database service delivering high availability, mission-critical performance, and elastic scaling for open-source developers building mobile and web apps.	**Best for** - Secure and scalable e-commerce solutions - Scalable web and mobile apps - Rich and personalized digital customer experiences - High-performance and secure finance management apps - Low-latency gaming experiences
[Azure Database for MariaDB](#)	**Fully managed, community MariaDB** Build with a fully managed community MariaDB database service delivering high availability and elastic scaling for open-source developers.	**Best for** - Secure and scalable e-commerce solutions - Scalable web and mobile apps - Rich and personalized digital customer experiences - High-performance and secure finance management apps
[Azure Cache for Redis](#)	**Distributed, in-memory, scalable caching** Accelerate your application's data layer with an in-memory data store that offers increased speed and scale for web applications, backed by the open-source Redis server.	**Best for** - Application caching

Common database and application migration patterns

Migrate from	Azure destination	Best for
SQL Server	[SQL Server on Azure Virtual Machines](#)	Migrate your SQL Server workloads with ease and maintain them with 100 percent compatibility and operating system-level access. Save on total cost of ownership and automate management with SQL Server IaaS Agent extension.

Migrate from	Azure destination	Best for
	Azure SQL Managed Instance	Modernize .NET applications with Azure SQL Managed Instance, a fully managed and intelligent service combining the broadest SQL Server engine compatibility with an always-up-to-date service.
Oracle Database	Oracle on Azure	Migrate your Oracle Database workloads with ease and combine the best of Oracle with the best of Azure. Maintain 100 percent compatibility and operating system-level access.
	Azure Database for PostgreSQL	Migrate Oracle Database to Azure Database for PostgreSQL for a fully managed, open-source database designed for scalable and secure enterprise-ready apps.
	Azure SQL Database	Migrate Oracle Database to Azure SQL Database, a fully managed and intelligent service for relational performance at scale.
MongoDB	MongoDB Atlas on Azure	Modernize with a fully managed database-as-a-service that runs MongoDB Enterprise and offers full support for all MongoDB features.
	Azure Cosmos DB for MongoDB	Add scalability and high performance to applications of any size and scale with a managed and serverless distributed database that supports MongoDB data.
PostgreSQL	Azure Database for PostgreSQL	Migrate to a fully managed open-source database with support for the latest PostgreSQL versions and AI-powered performance optimization.
MySQL	Azure Database for MySQL	Migrate your on-premises MySQL database to a fully managed database that offers high availability, elastic scale, and mission-critical performance.
MariaDB	Azure Database for MariaDB	Combine MariaDB Community edition with the benefits of a fully managed service provider that offers high availability and elastic scale.
Apache Cassandra	Azure Managed Instance for Apache Cassandra	Modernize Cassandra data clusters with a managed instance in the cloud and lower operational overhead for critical Apache Cassandra workloads by hosting on a scalable and fully managed platform while retaining control over configuration options.
	Azure Cosmos DB for Apache Cassandra	Add scalability and high performance to applications of any size and scale with a managed and serverless distributed database that supports Apache Cassandra data.

Customers are doing great things with Azure managed databases

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See how the NBA accelerates modern app time to market to ramp up fans' excitement

"I think the number-one thing in having a cloud partner in Azure is the ability for us to have a playground where we can go in and quickly experiment [with] new things, test out new features, and use the functionality that comes out of the box natively from a cloud perspective, be it the Azure SQL Database, or Azure Functions, or Azure Templates."

- Sahil Gupta: Senior Vice President and Head of Application Development

Read the story ›

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Analyst reports, white papers and e-books

Videos

Cloud computing

Cloud computing

What is cloud computing?

What is cloud migration?

What is a hybrid cloud?

What is AI?

What is IaaS?

What is SaaS?

What is PaaS?

What is DevOps?

Change language

English (India)

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