

# Databases on Azure

Build AI-ready apps with intelligent cloud databases.

Develop AI-ready, trusted applications with a range of relational and non-relational databases and keep your focus on [application development and innovation](#), not database management. Intelligence built-in helps automate management tasks like high availability, scaling, and query performance tuning so your applications are always on and ready. Trust Azure for built-in data security controls, broad regional coverage, and more compliance offerings to help strengthen your security posture and support your business growth.

## Build modern applications with cloud-scale databases

Purpose-built Azure databases

<a href="#">Azure Cosmos DB</a>	<b>Fast, distributed NoSQL and relational database at any scale</b>  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, NodeJS, Python, and .NET.	<b>Best for</b> <ul style="list-style-type: none"><li>Delivering real-time personalization</li><li>High-quality, global app experiences at scale</li><li>Handling peak sales periods with ease</li><li>Leveraging real-time, IoT telemetry streaming data</li></ul>
<a href="#">Azure SQL Database</a>	<b>Flexible, fast, and elastic SQL database for your new apps</b>  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.	<b>Best for</b> <ul style="list-style-type: none"><li>High-performance transactional applications</li><li>Finance, sales order management, systems of record</li><li>Processing streaming data to uncover app insights</li><li>Simplifying complex data landscapes</li></ul>

Best of open source

<a href="#">Azure Database for PostgreSQL</a>	<b>Fully managed, intelligent, and scalable PostgreSQL database</b>  Innovate faster with a fully managed PostgreSQL database service for open-source developers building scalable and secure enterprise-ready apps.	<b>Best for</b> <ul style="list-style-type: none"><li>Open-source, enterprise app development</li><li>Rich and personalized digital marketing experiences</li><li>Secure and scalable e-commerce solutions</li><li>Finance management apps</li><li>Scalable web and mobile apps</li></ul>
<a href="#">Azure Database for MySQL</a>	<b>Scalable, open-source MySQL database</b>  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.	<b>Best for</b> <ul style="list-style-type: none"><li>Secure and scalable e-commerce solutions</li><li>Scalable web and mobile apps</li><li>Rich and personalized digital customer experiences</li><li>High-performance and secure finance management apps</li><li>Low-latency gaming experiences</li></ul>
<a href="#">Azure Database for MariaDB</a>	<b>Fully managed, community MariaDB</b>  Build with a fully managed community MariaDB database service delivering high availability and elastic scaling for open-source developers.	<b>Best for</b> <ul style="list-style-type: none"><li>Secure and scalable e-commerce solutions</li><li>Scalable web and mobile apps</li><li>Rich and personalized digital customer experiences</li><li>High-performance and secure finance management apps</li></ul>
<a href="#">Azure Cache for Redis</a>	<b>Distributed, in-memory, scalable caching</b>  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.	<b>Best for</b> <ul style="list-style-type: none"><li>Application caching</li></ul>

## Common database and application migration patterns

Migrate from	Azure destination	Best for
SQL Server	<a href="#">SQL Server on Azure Virtual Machines</a>	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.
	<a href="#">Azure SQL Managed Instance</a>	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	<a href="#">Oracle on Azure</a>	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.
	<a href="#">Azure Database for PostgreSQL</a>	Migrate Oracle Database to Azure Database for PostgreSQL for a fully managed, open-source database designed for scalable and secure enterprise-ready apps.
	<a href="#">Azure SQL Database</a>	Migrate Oracle Database to Azure SQL Database, a fully managed and intelligent service for relational performance at scale.
MongoDB	<a href="#">MongoDB Atlas on Azure</a>	Modernize with a fully managed database-as-a-service that runs MongoDB Enterprise and offers full support for all MongoDB features.
	<a href="#">Azure Cosmos DB for MongoDB</a>	Add scalability and high performance to applications of any size and scale with a managed and serverless distributed database that supports MongoDB data.
PostgreSQL	<a href="#">Azure Database for PostgreSQL</a>	Migrate to a fully managed open-source database with support for the latest PostgreSQL versions and AI-powered performance optimization.
MySQL	<a href="#">Azure Database for MySQL</a>	Migrate your on-premises MySQL database to a fully managed database that offers high availability, elastic scale, and mission-critical performance.
MariaDB	<a href="#">Azure Database for MariaDB</a>	Combine MariaDB Community edition with the benefits of a fully managed service provider that offers high availability and elastic scale.
Apache Cassandra	<a href="#">Azure Managed Instance for Apache Cassandra</a>	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.
	<a href="#">Azure Cosmos DB for Apache Cassandra</a>	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

### 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

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