Azure Database for MySQL

Simplified Cloud Database Solutions for Developers

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What is Azure Database for MySQL?

Azure Database for MySQL is a fully managed, cloud-based relational database service from Microsoft. It allows you to run open-source MySQL databases on Azure without the complexities of infrastructure management, hardware provisioning, or manual backups.

Cloud-Based Service

Hosted on Microsoft's global infrastructure.

Managed for You

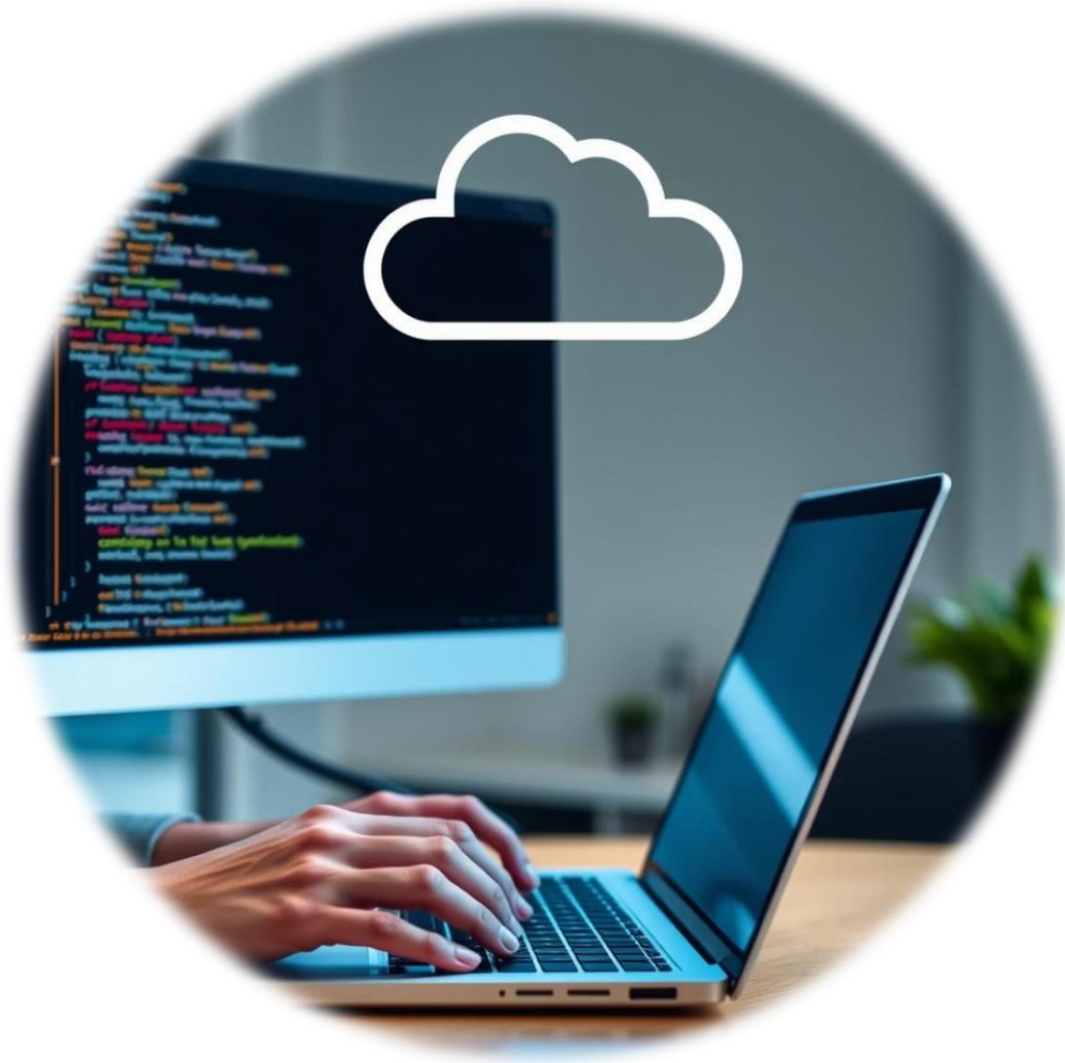Microsoft handles maintenance, security, and updates.

MySQL Compatibility

Supports the latest MySQL Community Edition.

Key Benefits for Developers

Ease of Use & Management

- You can **create or move** your MySQL database to Azure very quickly.

- It handles **automatic backups**, **updates**, and **security**.

Cost Efficiency

- You can **save up to 48%** compared to using your own servers.

- You only **pay when it's running**—if you stop the database, you pay only for storage.

Performance and Scalability

You can start a database in less than 2 minutes.

It can handle large traffic and data with:

96	**672 GB**	**16 TB**	**150K**
CPUs	RAM	Storage	Queries/Second
Maximum processing power for complex queries.	Ample memory for fast data operations.	Scalable storage for massive datasets.	High throughput for demanding applications.

These robust specifications ensure your applications can handle significant workloads and maintain high performance.

Smart Performance Tools & Mission-Critical Support

AI Optimization

- Uses **Artificial Intelligence** to monitor your queries.
- Detects slow queries and suggests how to fix them.

Mission-Critical App Support

Designed for high-importance applications like banking and e-commerce.

Flexible Maintenance

You can **schedule maintenance** at a time that suits you.

99.99% Availability

Offers **99.99% availability**, even if one server fails.

Seamless Integration & Application Deployment

Azure Database for MySQL integrates effortlessly with the broader Azure ecosystem, streamlining application deployment and development workflows.

Easy Deployment

Accelerate your application deployments with intuitive Azure tools.

CI/CD Support

Leverage GitHub Actions for continuous integration and delivery pipelines, ensuring faster updates.

Supports **GitHub pipelines** (CI/CD), making app updates faster.

Azure Service Compatibility

Seamlessly connect with Azure AI, Kubernetes (AKS), App Service, and more for comprehensive solutions.

Enterprise-Grade Security

Azure Database for MySQL provides multiple layers of protection, ensuring your data remains secure and compliant.

- **Built-in Data Encryption:** Data is encrypted both at rest and in transit.
- **Real-Time Threat Detection:** Microsoft Defender actively monitors your database for anomalies and potential attacks.
- **Access Control:** Granular control over who can access your sensitive data.
- **Global Data Centres:** Hosted in secure, globally distributed Microsoft data centres.

Why Choose Azure Database for MySQL?

100%

Fully Managed

Microsoft handles all infrastructure and maintenance.

99%

High Availability

Ensures continuous operation with minimal downtime.

95%

Scalable Performance

Dynamically adjust resources to meet application demands.

98%

Robust Security

Multi-layered protection, encryption, and threat detection.

Azure Database for MySQL simplifies database management, allowing developers to focus on building innovative applications with confidence.