

ORACLE

MySQL™



# MySQL Enterprise Edition

For the Most Demanding Applications



## Why MySQL Enterprise Edition Matters

MySQL is the world's most popular open source database. Many users start their MySQL journey with the MySQL Community Edition.

MySQL Enterprise Edition provides the advanced security, performance, scalability and availability for the most demanding applications and online environments.



MySQL Enterprise Edition is the database of choice for visionary startups, small and medium-sized businesses, as well as large enterprises. It helps them to be more agile and drive innovation while minimizing costs. It is globally trusted for its reliability and ease of use.

Whether you are building high volume eCommerce applications, enterprise applications or advanced communications networks: Your organization deserves the most advanced tools to build and manage critical database applications.

## Top Reasons to Use MySQL Enterprise Edition

Be more agile and drive innovation for next-generation Web, eCommerce, Cloud, mobile and embedded applications.

Reduce total cost of ownership with up to 90% savings over competing databases.

Achieve maximum flexibility by combining SQL relational data with NoSQL unstructured applications.

Deploy the most reliable, scalable, trusted and easy-to-use database: It powers the most visited websites globally.

# MySQL Enterprise Authentication

## **Open, pluggable authentication interface**

Empowers your MySQL users by authenticating them from centralized directories with Single Sign-On.

Enables your MySQL DBAs to be more productive by giving them one credential for all systems.

Makes your IT infrastructure more secure by leveraging LDAP directories to enforce your security policies.



# MySQL Enterprise Encryption

## **Public Key Cryptography**

Protects sensitive data throughout its lifecycle using encryption, key generation and digital signatures.

Encrypts data using RDS, DHS, and DH encryption algorithms without modifying existing applications.

Helps you confidently comply with regulatory requirements such as GDPR, the PCI Data Security Standard, Sarbanes-Oxley and HIPAA.

## MySQL Enterprise TDE

### Transparent data-at-rest encryption

Encrypts data in real time prior to writing to storage and decrypts it when reading from storage.

Leverages powerful two-tier encryption key architecture, consisting of a master encryption key and automatically managed tablespace keys.

Prevents malicious users from reading sensitive data from tablespace files, database backups or disks.

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## MySQL Enterprise Masking and De-Identification

### Masking, blurring, random data substitution and more

Hides or obfuscates personally identifiable information by controlling how it shows.

Leverages the built-in masking logic and easy-to-use masking functions, with no impact on database performance nor changes to applications.

Improves the security of development, test and analytics environments by masking confidential application data.

## MySQL Enterprise Firewall

### Your guard against cyber security threats

Real-time protection against database-specific attacks, such as SQL Injection.

Real-time thread monitoring: Automatically creates a whitelist of approved SQL statements. Runs in each MySQL instance and provides high scale-out performance.

Requires no changes to applications regardless of development language, framework or third party.

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## MySQL Enterprise Audit

### Open, pluggable audit interface

Verifies DBA activity, proves your data's validity and performs forensic analysis to investigate and discover data breaches.

Audits are easily designed through templates and custom filters. Filter on connections, users, table access, access type, statement status, query content, and more.

Adds auditing compliance quickly and seamlessly by writing auditing solutions based on application-specific requirements.

## MySQL Enterprise Scalability

### Your database grows with your user base

Delivers excellent throughput and performance for your applications through on-demand scalability, both for concurrent users and queries.

Meets the most demanding mobile application workloads with an efficient thread-handling model designed to sustain performance and scalability as concurrent user loads grow.

Controls query execution, splits threads into managed thread groups and avoids deadlocks when queries are stalled.

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## MySQL Enterprise High Availability

### InnoDB Cluster: integrated, native HA solution

InnoDB Cluster provides fault tolerance, automated failover and elasticity using Group Replication to replicate data for all members of the cluster.

InnoDB Cluster eliminates the need for external tools, scripts or other components, and is 100% developed and supported by the MySQL team.

MySQL Router ensures client requests are load balanced and routed to the correct servers in case of any database failures. MySQL Shell makes setup easy and under five minutes.

## MySQL Enterprise Backup

### Non-blocking hot backups of MySQL Databases

Performs incremental backups, partial backups and full online backups of all InnoDB data while MySQL is online, without interrupting queries or updates.

Restores data with consistent Point-in-Time Recovery, a fine-grained roll forward recovery to a specific transaction and a partial restore.

Compresses your backup files, reducing backup size from 70% to more than 90%. Backs up and restores directly to inexpensive cloud storage.

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## MySQL Enterprise Monitor

### Continuous uptime for your applications

Automates the monitoring of your MySQL infrastructure to run dynamic, high-growth applications that require continuous uptime.

Monitors performance, availability, clusters, replications, backups, queries, InnoDB and more from a single console.

Provides real-time visibility into your MySQL databases with the Enterprise Dashboard: reports, relevant statistics, potentially critical issues and more.



## Oracle Enterprise Manager for MySQL

### **Real-time monitoring of your MySQL databases**

Empowers your Oracle developers and DBAs with real-time monitoring capabilities to ensure consistent configuration, performance and availability for your MySQL databases.

Collects 500+ metrics covering various MySQL components. Defines critical and warning thresholds for each of the collected metrics.

Monitors configuration details to easily keep track of configuration changes.

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## MySQL Workbench Enterprise Edition

### **The unified visual development tool**

Empowers your developers and data architects to design, model, generate and manage MySQL databases using a unified visual tool.

Everything a data modeler needs to create complex entity-relationship models, forward and reverse engineering, change management and documentation.

Includes a visual SQL editor, advanced data modeling and comprehensive toolset for database design, query development, server configuration, user administration and database migrations.

## Product Certifications/Integrations

You are an Oracle customer who also uses MySQL?

MySQL Enterprise Edition makes it much easier by certifying and supporting the use of MySQL databases in conjunction with many Oracle products, including:

- Oracle Linux
- Oracle VM
- Oracle Enterprise Manager
- Oracle Golden Gate
- Oracle Fusion Middleware
- Oracle Secure Backup
- Oracle Audit Vault and Database Firewall

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## Oracle Premier Support for MySQL

**The industry's most experienced MySQL Engineers**

24/7 production support in 29 languages; unlimited support incidents; knowledge base; maintenance releases, bug fixes, patches and updates; MySQL consultative support.

Helps you lower the total cost of ownership of your MySQL databases, improve the return on your investment and optimize the business value of your IT solutions.



## MySQL Enterprise Edition Is Made for You

MySQL Enterprise Edition includes the most comprehensive features, tools and technical support to achieve the highest levels of MySQL scalability, security, reliability and uptime.

MySQL Enterprise Edition reduces risks, costs and complexity of developing, deploying and managing critical MySQL applications.



# MySQL Enterprise Edition Powers the Enterprise

