

ORACLE

MySQL for Beginners

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MySQL Solution Consulting

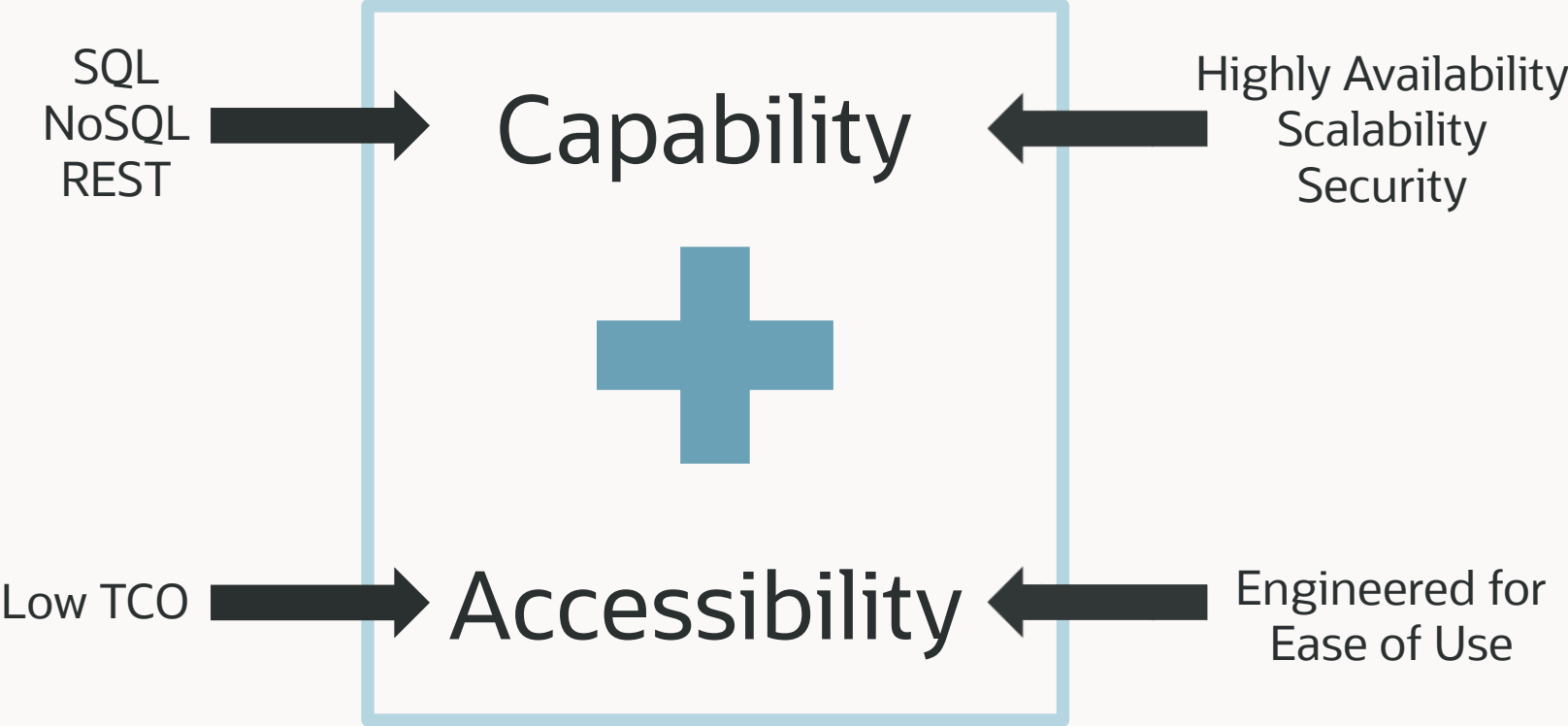
July 22, 2025



MySQL™

Decisions Installation Usage

Decisions – Why MySQL?



Innovative organizations across many industries run MySQL

Social

facebook



LinkedIn



Pinterest

E-Commerce

Booking.com

NETFLIX

UBER



淘宝网
Taobao.com

阿里巴巴
Alibaba.com

Tech



GitHub

HubSpot

zendesk



Finance



J.P.Morgan

citi



VISA



Manufacturing

TESLA



TOYOTA

CAT

Decisions – Which MySQL Release

Recommended

MySQL 8.4.x - Long Term Support

- Only bug fixes are added

MySQL 9.x – Innovation Release

- Constant introduction of new features

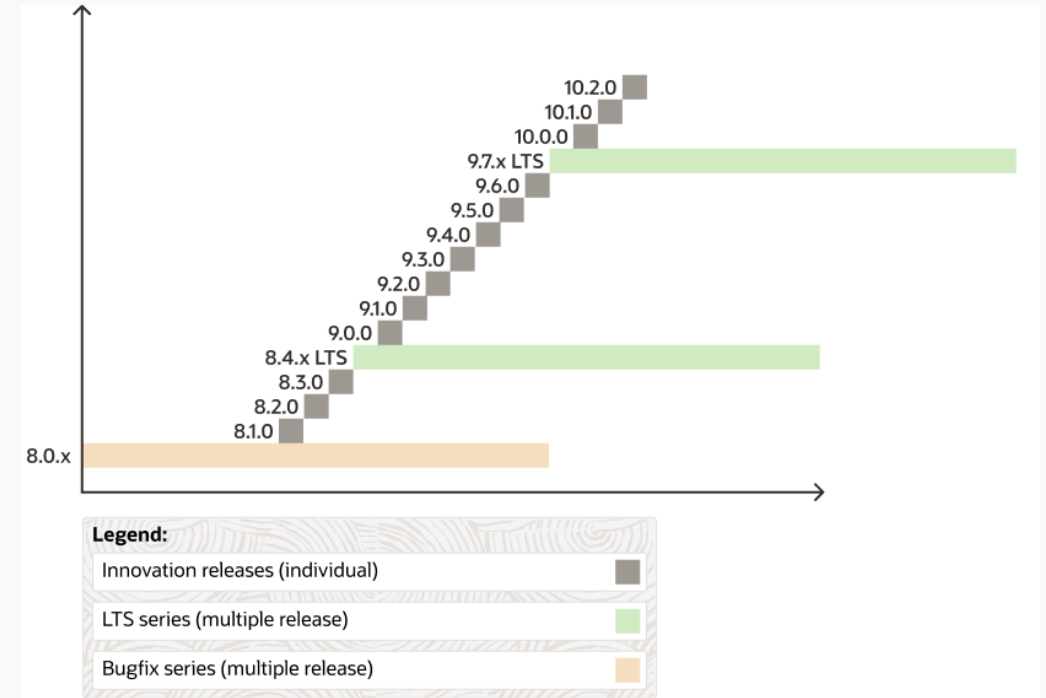
Not Recommended

MySQL 8.0

- End of Life is coming April 2026

MySQL 5.7 and older

- End of Life



Decisions – MySQL Enterprise Edition or MySQL Community Edition

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MySQL 8.4.5
Community Edition
April 15, 2025

Core Database Server

Open Source License

MySQL 8.4.5
Enterprise Edition
April 15, 2025

Enhanced Database Server
Enhanced Security
Enterprise Backup
MySQL Technical Support
MySQL Plugin for OEM

Commercial License



Decisions – Supported Platforms



		9.x	8.4	8.0
		LTS		
Operating System	Architecture			
Oracle Linux / Red Hat / CentOS / Rocky Linux				
Oracle Linux 9 / Red Hat Enterprise Linux 9 / Rocky Linux 9	x86_64, arm64	•	•	•
Oracle Linux 8 / Red Hat Enterprise Linux 8 / CentOS 8 / Rocky Linux 8	x86_64, arm64	•	•	•
Oracle Linux 7 / Red Hat Enterprise Linux 7 /	x86_64	•	•	•

<https://www.mysql.com/support/supportedplatforms/database.html>



Decisions **Installation** Usage

Installation – Awesome Documentation

Chapter 2 Installing MySQL

Table of Contents

- 2.1 General Installation Guidance
- [2.2 Installing MySQL on Unix/Linux Using Generic Binaries](#)
- 2.3 Installing MySQL on Microsoft Windows
- 2.4 Installing MySQL on macOS
- 2.5 Installing MySQL on Linux
- 2.6 Installing MySQL Using Unbreakable Linux Network (ULN)
- 2.7 Installing MySQL on Solaris
- 2.8 Installing MySQL from Source
- 2.9 Postinstallation Setup and Testing
- 2.10 Perl Installation Notes

This chapter describes how to obtain and install MySQL. A summary of the p

<https://dev.mysql.com/doc/>

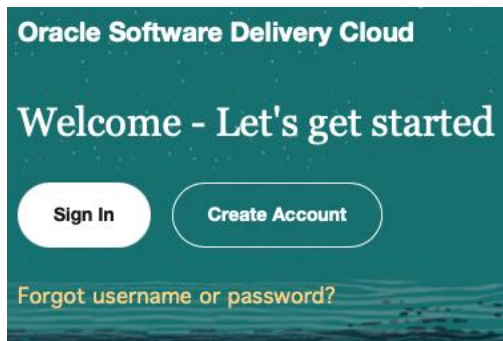
Where to Download

Enterprise – Trial / Developer

<http://edelivery.oracle.com>

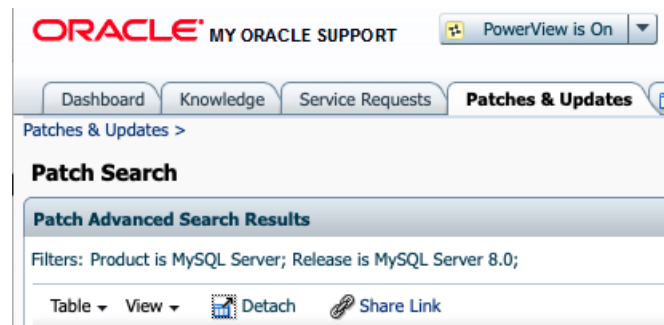
- 30-day trial license
- Latest version only

<https://www.oracle.com/downloads/>



Existing Customer

<https://support.oracle.com>



Community

<https://dev.mysql.com>

- [MySQL Database Service »](#)
- [MySQL Documentation »](#)
- [MySQL Downloads »](#)
- [MySQL Forums »](#)
- [MySQL Enterprise Edition »](#)
- [MySQL Cluster CGE »](#)



Installation – Linux Basics

Native Packages

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- Leverage Linux packaging (apt, yum, rpm, deb, etc)
- Fast and easy

Generic Binaries

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- Highly customize the install (directories, OS accounts, etc)



Installation – Linux - Things to Know

#1

Linux may have already installed MySQL or a MySQL fork.

```
ps aux | grep mysqld  
yum --disablerepo=* provides mysql\*
```

#2

Initial root password can show up either during the install or in the MySQL error log (depending on install method)

#3

2002 & 2003 errors when trying to connect are network issues

Port/network blocked?

Try connecting locally via socket: `mysql -uroot -p`

Installation – Windows

#1

Preinstall requirements:
Microsoft Visual C++ Redistributable 2019

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- 2.4 Installing MySQL on macOS
- 2.5 Installing MySQL on Linux
- 2.6 Installing MySQL Using Unbreakable Linux Network (ULN)
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This chapter describes how to obtain and install MySQL. A summary of the

#2

Post install:
Watch out for virus checking on MySQL data directory

#3

Configuration
MySQL configuration file is called my.ini (my.cnf on linux)

Configuring the Server

- It's all about the my.cnf (Linux) or my.ini (Windows)
- Defaults are likely good enough for initial testing
- Later learn about mysql-auto.cnf



MySQL Database User Accounts – A Twist

User accounts include a name AND a host

```
create user 'benjamin'@'localhost' identified by  
<password>;
```

benjamin@localhost
benjamin@192.168.1.100
benjamin@%

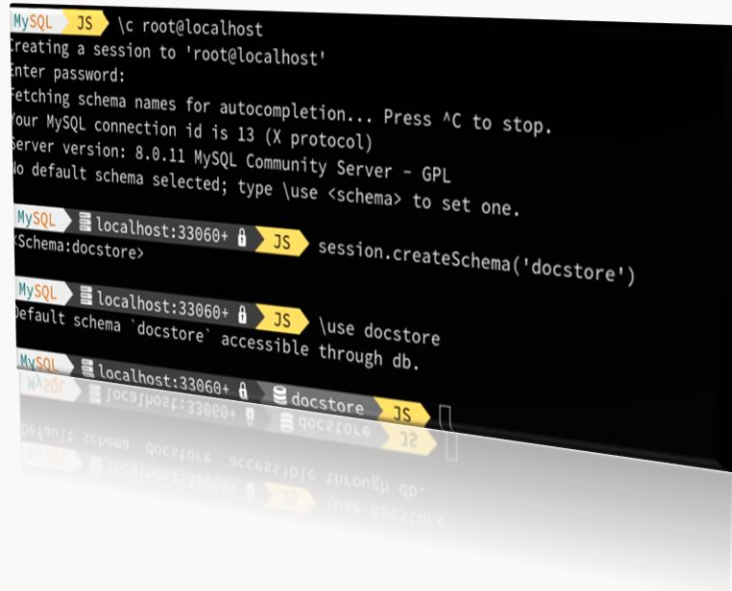


These are three different user accounts with different permissions



Decisions Installation **Usage**

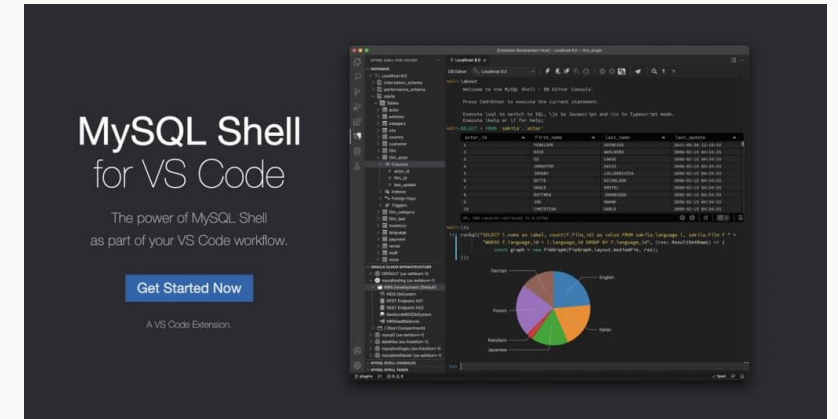
MySQL Shell



```
MySQL JS \c root@localhost
Creating a session to 'root@localhost'
Enter password:
Fetching schema names for autocompletion... Press ^C to stop.
Your MySQL connection id is 13 (X protocol)
Server version: 8.0.11 MySQL Community Server - GPL
No default schema selected; type \use <schema> to set one.
MySQL localhost:33060+ JS session.createSchema('docstore')
MySQL localhost:33060+ JS \use docstore
Default schema 'docstore' accessible through db.
MySQL localhost:33060+ JS docstore JS
```

- Command line MySQL development and management
- Included in default installs, can also download separately from dev.mysql.com
- Scriptable client, configure HA, import/export

MySQL Shell for VS Code



- GUI MySQL development and management
- Installed with VS Code Marketplace



Usage – Sample Data

“Employee”

<https://dev.mysql.com/doc/employee/en/>

“World”

<https://dev.mysql.com/doc/world-setup/en/>

“Sakila”

<https://dev.mysql.com/doc/sakila/en/>

Also includes stored procedures, triggers, views

The MySQL logo is displayed in a large, stylized font. The word "My" is in a dark teal color, and "SQL" is in a bright orange color. A small "TM" trademark symbol is positioned to the right of the "L".

Usage – Operational Considerations



Backup and Recovery

Is my data important?

- Start with MySQL Shell
- Look to Enterprise Backup



High Availability

What happens if the MySQL server fails?

- Many MySQL HA/DR options



Database Security

What happens if the data gets sold on the dark web?

- Start with best practices
- Look to Enterprise Edition features



Technical Support

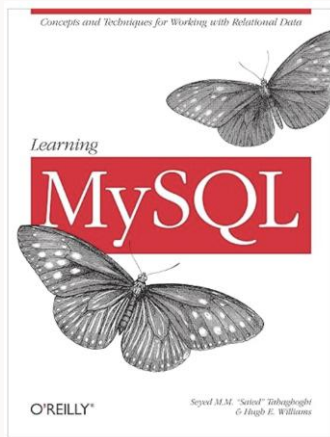
What if I need important, time-sensitive help?

- Basic questions at forums.mysql.com
- Look to MySQL Technical Support

Learn More!



DBA & Developer paths
Training Classes & Certifications
<http://education.oracle.com>



Guided self-study
<https://sheeri.org/mysql-marinate-quick-links/>

Capability



Accessibility

MySQL™



MySQL™

Now go build something *amazing*.

Thank you

Benjamin Wood

MySQL Solution Consulting