MySQL Local Setup Tutorial

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2 DOWNLOAD. INSTALL. SETUP

This section presents an up to date tutorial for installing and configuring MySQL Server and Client Tools based on https://ladvien.com/data-analytics-mysql-localhost-setup/

MySQL is a free and open-source relational database management system (RDBMS) that you can install on your own PC (or Mac) with no license or account requirements.

Note: This tutorial is valid for MySQL Installer 8.0.16, downloaded from the official site. For other versions it is not guaranteed to work the same way.

2.1 Windows

2.1.1 Download MySQL MSI Installer

Open the following link with your browser to download the MySQL MSI Installer: https://dev.mysql.com/downloads/installer/

Select the first option (Web Installer). (Figure 1)

Select Operating Sy Microsoft Window	stern: IS	T	Looking for preversions?	vious GA
Windows (x86, 3	2-bit), MSI Installer	8.0.16	20.0M	Download
Windows (x86, 3	2-bit), MSI Installer	8.0.16	373.4M	Download

Figure 1 Download MySQL Installer

You will be asked to create an account, but you may skip this by clicking on "No thanks, just start my download". Wait for the installer to download then open it from your browser. (Figure 2)

	link. Otherwise, yo	u can signup for a free account by clicking the s	Sign Up link an
	No thanks, just start r	ny download.	
Contact MySQL Sales			
USA/Canada: +1-866-221-0	634 (More Countries »)		
PRODUCTS	SERVICES		DOC
Oracle MySOL Cloud Service	Training		Miso
MySQL Enterprise Edition	Certification	MySQL NDB Cluster	MySQ
MySQL Standard Edition	Consulting	MySQL Nbb claster	MySQ
MySQL Classic Edition	Support	MySQL Briter	MvSO
MySQL Cluster CGE		MySQL Workbench	Topic
MySQL Embedded (OEM/ISV)			
MySQL Embedded (OEM/ISV)			
MySQL Embedded (OEM/ISV)	neration and/or its offiliates		
	poration and/or its affiliates		

Figure 2 Start download then open installer

If you are prompted to "Upgrade", go ahead and say "Yes" (Figure 3)



Figure 3 Optional upgrade. Say Yes

2.1.2 Run MySQL MSI installer

2.1.2.1 The installer will now open. In the first tab "Choosing a Setup Type", select "Developer Default" and click "Next". This will download and install the MySQL Server and the GUI application on your computer (with all required products).



Figure 4 Installer. Choosing a Setup Type

2.1.2.2 In "Check Requirements" tab you may click "Next" (the products are not required for what we need). (Figure 5)

MySQL Installer		-	- 🗆 X
MySQL. Installer	Check Requirements		
Adding Community	The following products have failing them automatically. Requirements on each item to try and resolve it m	requirements. MySQL Installer will attempt t marked as manual cannot be resolved autom anually.	o resolve natically. Click
Choosing a Setup Type			
Check Requirements	For Product	Requirement	Status
	O MySQL For Excel 1.3.8	Visual Studio 2010 Tools for Office R	
Installation	MySQL for Visual Studio 1.2.9	Visual Studio version 2015, 2017 or 2	Manual
Product Configuration			
Installation Complete			

Figure 5 Installer. Check Requirements

2.1.2.3 If a popup appears about missing requirements, go ahead and say "Yes". (Figure 6)



Figure 6 Installer. Missing requirements. Say yes

2.1.2.4 In the "Installation" tab, click on "Execute" (you don't have to select anything else here). (Figure 7)

SQL Installer			_		Х
MySQL. Installer Adding Community	Installation The following products will be installed.				
	Product	Status	Progress	Notes	
Choosing a Setup Type	MySQL Server 8.0.19	Ready to download			
Installation	MySQL Workbench 8.0.19	Ready to download			´
Product Configuration	MySQL Notifier 1.1.8	Ready to download			
roduct configuration	MySQL Shell 8.0.19	Ready to download			
Installation Complete	MySQL Router 8.0.19	Ready to download			
	Connector/ODBC 8.0.19	Ready to download			
	Connector/C++ 8.0.19	Ready to download			
	Connector/J 8.0.19	Ready to download			
	Connector/NET 8.0.19	Ready to download			
	Connector/Python 8.0.19	Ready to download			
	MySQL Documentation 8.0.19	Ready to download			
	Samples and Examples 8.0.19	Ready to download			
	Click [Execute] to install the following packa	ages.			
		< Back	Execute	Cance	2l

Figure 7 Installer. Installation

2.1.2.5 Wait until the required products are downloaded and installed. (Figure 8)

MySQL Installer			_	
MySQL. Installer Adding Community	Installation The following products will be installed.			
	Product	Status	Progress	Notes
Choosing a Setup Type	📩 📐 MySQL Server 8.0.19	Downloading	6%	
Installation	📩 📐 MySQL Workbench 8.0.19	Downloading	16%	
Product Configuration	🐼 🛐 MySQL Notifier 1.1.8	Downloaded		
rioduce configuration	📩 💽 MySQL Shell 8.0.19	Downloading	47%	
Installation Complete	MySQL Router 8.0.19	Downloading	43%	
	Connector/ODBC 8.0.19	Downloaded		
	📩 💽 Connector/C++ 8.0.19	Downloading	25%	
	Connector/J 8.0.19	Downloaded		
	Connector/NET 8.0.19	Downloaded		
	📩 🔛 Connector/Python 8.0.19	Downloading	82%	
	MySQL Documentation 8.0.19	Downloading	5%	
	Samples and Examples 8.0.19	Downloaded		
	Show Details >			
		< Back	Execute	Cancel

Figure 8 Installer. Installation in progress

2.1.2.6 When everything is installed, click on "Next". (Figure 9)



Figure 9 Installer. Installation complete

2.1.2.7 Everything is installed now, but we need one more step for configuring the products. In the "Product Configuration" tab, click "Next". This will configure each product which is an important step for defining e.g. the connection method, authentication and user accounts, so that everything will be ready to use (without additional configuration) after the installation. (Figure 10)

SQL Installer		- 🗆 X
MySQL. Installer Adding Community	Product Configuration We'll now walk through a configuration w	izard for each of the following products.
Choosing a Setup Type	You can cancel at any point if you wish to products.	leave this wizard without configuring all the
Installation	Product	Status
Des durat Caraffragation	MySQL Server 8.0.19	Ready to configure
Product Configuration	Samples and Examples 8.0.19	Ready to configure Ready to configure
	٢	
		Next > Cancel

Figure 10 Installer. Product configuration

2.1.2.8 Now we move on to the MySQL Server configuration. In the "High Availability" tab, leave "Standalone MySQL Server / Classic MySQL Replication" selected and click "Next". (Figure 11)

MySQL Installer	– 🗆 X
MySQL. Installer MySQL Server 8.0.19	High Availability Standalone MySQL Server / Classic MySQL Replication Choose this option to run the MySQL instance as a standalone database server with the opportunity to configure classic replication later. With this option, you can provide your own
High Availability	nign-availability solution, if required.
Type and Networking	The InnoDB cluster technology provides an out-of-the-box high availability (HA) solution for MVSQL using Group Replication.
Authentication Method	
Accounts and Roles	MuCOL Shall
Windows Service	
Logging Options	Client App \leftrightarrow MySQL Router
Advanced Options	InnoDB Cluster
Apply Configuration	Note: InnoD8 cluster requires a minimum of three MySQL server instances to provide a fully automated HA solution. Members of a cluster should be located such that network communication latency between servers is low.
	Next > Cancel

Figure 11 Installer. High Availability

2.1.2.9 In the "Type and Networking" tab, leave everything as default and click "Next". (Figure 12)

Note: If there is an exclamation mark next to "Port", then you may have another server running on the same port which may have to be removed, or the port to be changed from the default 3306. You can ask about further help with this (possible) issue on the forum.



Figure 12 Installer. Type and Networking

2.1.2.10 In the "Authentication Method" tab, leave "Use Strong Password Encryption Authentication (RECOMMENDED)" selected and click "Next". (Figure 13)



Figure 13 Installer. Authentication Method

- 2.1.2.11 In the "Accounts and Roles" tab, create a password that will be used to connect to the database server. For convention purpose, use the following password: ewis2020.
 (Figure 14)
- 2.1.2.12 Then click on "Add User". The following popup will appear (Figure 15) where you will type a user name (for convention, use **ewis_student**) and a password for the new user (for convention, use **ewis2020**). Then click "Ok".
- 2.1.2.13 Now (in the same "Accounts and Roles" tab) click "Next".

MySQL Installer				-		×
MySQL. Installer MySQL Server 8.0.19	Accounts and Ro Root Account Password Enter the password for the place.	DIES root account. Please	remember to store	e this password i	n a secure	
High Availability	MySQL Root Password:	•••••				
Type and Networking Authentication Method	Repeat Password:	Password strength	n: Weak			
Accounts and Roles						
Windows Service	MySQL User Accounts					
Apply Configuration	Create MySQL user accou consists of a set of privile	unts for your users and ges.	d applications. Assi	ign a role to the	user that	
	MySQL User Name	Host	User Role		Add Us Edit Us Delet	er e
			< Back	Next >	Canc	el

Figure 14 Installer. Accounts and Roles

🔊 MySQL User Ad	count		×
Please specify	the user nan	ne, password, and database role.	
E 1	User Name:	ewis_student	
Server	Host:	<all (%)="" hosts=""> ~</all>	
	Role:	DB Admin v	
1	Authentication:	MySQL	
MySQL user ci	edentials		
	Password:	•••••	
Confi	rm Password:	•••••	
		Password strength: Weak	
		OK Cance	

Figure 15 Installer. Add User

2.1.2.14 In the "Windows Service" tab, leave everything as default and click on "Next". (Figure

MvSOL Installer	
MySQL Server 8.0.19	Windows Service Configure MySQL Server as a Windows Service
High Availability	Windows Service Details Please specify a Windows Service name to be used for this MySQL Server instance. A unique name is required for each instance.
Type and Networking	Windows Service Name: MySQL80
Authentication Method	Start the MySQL Server at System Startup
Accounts and Roles	
Windows Service	Run Windows Service as The MySQL Server needs to run under a given user account. Based on the security requirements of your system you need to nick one of the options below.
Apply Configuration	Standard System Account
	Recommended for most scenarios.
	🔿 Custom User
	An existing user account can be selected for advanced scenarios.

Figure 16 Installer. Windows Service

- 2.1.2.15 In the "Apply Configuration" tab, click on "Execute". (Figure 17)
- 2.1.2.16 Wait until the products are configured, then click on "Finish". (Figure 18)



Figure 17 Installer. Apply Configuration

SQL Installer	- 🗆 X
MySQL. Installer MySQL Server 8.0.19	Apply Configuration The configuration operation has completed. Configuration Steps Log
High Availability Type and Networking Authentication Method Accounts and Roles Windows Service Apply Configuration	 Writing configuration file Updating Windows Firewall rules Adjusting Windows service Initializing database (may take a long time) Starting the server Applying security settings Creating user accounts Updating the Start menu link
	The configuration for MySQL Server 8.0.19 was successful. Click Finish to continue. Finish

Figure 18 Installer. Apply Configuration. Finish

2.1.2.17 You will be redirected to the "Product Configuration" tab, and you will see the MySQL
Server is now configured. Click on "Next" to configure the remaining products. (Figure 19)

NySQL Installer		- 🗆 ×
MySQL. Installer Adding Community	Product Configuration We'll now walk through a configuration wiz	rard for each of the following products.
Choosing a Setup Type	You can cancel at any point if you wish to le products.	eave this wizard without configuring all the
Installation	Product	Status
Product Configuration	MySQL Server 8.0.19 MySQL Router 8.0.19	Configuration complete. Ready to configure
Installation Complete	Samples and Examples 8.0.19	Ready to configure
	٢	3
		Next > Cancel

Figure 19 Installer. Product Configuration

- 2.1.2.18 In the "MySQL Router Configuration" click on "Finish". (Figure 20)
- 2.1.2.19 You will be redirected to the "Product Configuration" tab. Click on "Next" to configure the remaining products.

SQL Installer					-		×	
MySQL. Installer	MySQL Route	er Configu	ration					
MySQL Router 8.0.19	Bootstrap MySQL Router for use with InnoDB cluster This wizard can bootstrap MySQL Router to direct traffic between MySQL applications and a MySQL InnoDB cluster. Applications that connect to the router will be automatically directed to an available read/write or read-only member of the cluster.							
MySQL Router Configuration	The boostrapping process requires a connection to the InnoDB cluster. In order to register MySQL Router for monitoring, use the current Read/Write instance of the cluster.							
	Hostname:		0 H	lost name or IP address	s is requ	ired.		
	Port:	3310						
	Management User:	root						
	Password:		0	Test Connection				
	MySQL Router requires specification of a base port (between 80 and 65532). The first port is used for classic read/write connections. The other ports are computed sequentially after the first port. If any port is indicated to be in use, please change the base port.							
	Classic MySQL protocol connections to InnoDB cluster:							
	Read/Write:	6446						
	Read Only:	6447						
	MySQL X protocol connections to InnoDB cluster:							
	Read/Write:	6448						
	Read Only:	6449						
				Finish		Cance	:	

Figure 20 Installer. MySQL Router Configuration

2.1.2.20 In the "Connect to Server" tab, enter the root password: ewis2020

Then click on "Check". The status should turn green. Then click on "Next" and then, in "Apply Configuration" tab, click on "Execute". Wait until the configuration is applied then click "Finish". (Figure 21)

MySQL Installer						_		×
MySQL. Installer Samples and Examples	Со	nnect To Serve	r					
	Sele	ct the MySQL server ins	tances	from the	list to receive sample	e schemas and dat	ta.	
Connect To Server		Show MySQL Server instances that may be running in read-only mode						
Apply Configuration		Server MvSQL Server 8.0.19	Port 3307	Arch X64	Type Stand-alone Server	Status Connection succ	ceeded.	
	Provide the credentials that should be used (requires root privileges). Click "Check" to ensure they work.							
	User	User name: root Credentials pro			Credentials prov	ovided in Server configuration		
	Pas	sword:						
		Check	~					
						Next >	Cano	el

Figure 21 Installer. Connect to server

- 2.1.2.21 You will be redirected to the "Product Configuration" tab and everything is now configured. Click on "Next".
- 2.1.2.22 Congratulations! The installation is complete. Click on "Finish" and the installer will exit. (Figure 22)

Then, the MySQL Workbench will start automatically (wait for it) and you will be ready to connect to the database server and start working with databases.



Figure 22 Installer. Installation Complete

2.2 Mac

For Mac, it's more simple and you can follow the steps at <u>https://ladvien.com/data-analytics-</u> mysql-localhost-setup/

The MySQL Workbench and method of connection is the same as in Windows version.