# Installing MySQL 8

This is a step by step guide for installing the MySQL database and MySQL Workbench, and the creation and popultion of the HARVESTER database.

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### Downloading Software

All application software can be downloaded from the MySQL website. There are two applications that are required:

MySQL 8 Database <a href="https://dev.mysql.com/downloads/mysql">https://dev.mysql.com/downloads/mysql</a>

MSQL Workbench <a href="https://dev.mysql.com/downloads/workbench/">https://dev.mysql.com/downloads/workbench/</a>

## Installing the MySQL Database Software

Navigate to the downloaded MySQL database installation application, typically *mysql-installer-community-* 8.0.20.0.msi, and run it.





If you already have MySQL Server isntalled, the Installer will first upgrade any installed components to the largest version.

SQL Installer				_ 🗆	×
MySQL. Installer Upgrading Community	Select Products To Up Using this wizard you will be able to Upgradeable Products	grade update your installed pr	roducts.		
Welcome Back!	Product	Architecture	Installed	Upgrade To	
Select Products To Upgrade	MySQL Workbench	X64 X86	8.0.19	8.0.20	
Apply Updates Finished	Available Upgrades				
	Version	Published	Cr : <u>N</u> e	nanges xt > <u>C</u> ar	icel

NySQL Installer	- 🗆 X
MySQL. Installer Upgrading Community	Apply Updates The following products will be updated.
Welcome Back! Select Products To Upgrade Apply Updates Finished	Upgrade         Status         Progress         Notes           MySQL Workbench 8.0.20 (Upgr         Ready to Upgrade         Image: Connector/NET 8.0.20 (Upgradi         Ready to Upgrade         Image: Connector/NET 8.0.20 (Upgradi         Ready to Upgrade         Image: Connector/NET 8.0.20 (Upgradi         Image: Connector/NET 8.0.20 (Upgradi         Ready to Upgrade         Image: Connector/NET 8.0.20 (Upgradi         Image: Conn
	Click [Execute] to update the following packages.
	< <u>B</u> ack <u>Ex</u> ecute <u>C</u> ancel

Select the components to upgrade and click the *Execute* button.

SQL Installer			_		Х
MySQL. Installer	Apply Updates				
Opgrading Community	The following products will be updated.				
	Upgrade	Status	Progress	Notes	
Welcome Back!	🖉 📐 MySQL Workbench 8.0.20 (Upgr	Complete			
Select Products To Upgrade	🖉 [ Connector/NET 8.0.20 (Upgradi	Complete			
Apply Updates					
Finished					
	<u>S</u> how Details >				
		< <u>B</u> ack	<u>N</u> ext >	<u>C</u> anc	el

NySQL Installer		_		×
MySQL. Installer Upgrading Community	Finished The Upgrade has completed. Please click Finish to close this wizard.			
Welcome Back! Select Products To Upgrade Apply Updates	Copy Log to Clipboard			
Finished				
		Pack	Einial	
	<u></u>		<u>r</u> inisi	

With installed components now upgraded, the database installation can begin. Click the Add button.

MySQL Installer			- 🗆 X
Mysql. Installe	er		?
Product	Version	Architecture Quick Action	Add
MySQL Workbench	8.0.20	X64	Modify
Connector/NET	8.0.20	X86	Upgrade
			Remove
			Kentove

NySQL Installer		_		×
MySQL. Installer Adding Community	Select Products and Features Please select the products and features you would like to install on this mac	hine.		
Select Products and Features	All Software, Current Bundle, Any		Edit	
Installation	Available Products: Products/Features To Be I	nstalled	:	
Installation Complete	MySQL Servers     Applications     MySQL Connectors     Documentation			
	Published: Estimated Size: Release Notes:			
	Next	>	<u>C</u> anc	el

Open the list of Available Products and select MySQL Server 8.0 to be installed then click the Next button.

NySQL Installer			_	×
MySQL. Installer Adding Community	Select Products and Feature Please select the products and features you	2S would like to install on this machine	e.	
Select Products and Features	Filter:		Edit	
Installation Product Configuration Installation Complete	Available Products:	Products/Features To Be Insta WySQL Server 8.0.20 - X64	illed:	
	Image: MySQL Router         Image: MySQL Connectors         Image: Connector/OBBC         Image: Connector/C++         Image: Connector/J         Image: Connector/Python         Image: Connector/Python <td< th=""><th>a//8.0/en/news-8-0-20.html</th><th>Cano</th><th>cel</th></td<>	a//8.0/en/news-8-0-20.html	Cano	cel

NySQL Installer			_		×
MySQL. Installer Adding Community	Installation The following products will be installed.				
	Product	Status	Progress	Notes	
Select Products and Features	MySQL Server 8.0.20	Ready to Install			
Installation					
Product Configuration					
Installation Complete					
	Click [Execute] to install the following packag	es.			
		< <u>B</u> ack	Execute	<u>C</u> anc	el

Click the *Execute* button to begin the installation process.

NySQL Installer			_		×
MySQL. Installer Adding Community	Installation				
	The following products will be installed.				
Select Products and Features	Product           Image: WySQL Server 8.0.20	Status Complete	Progress	Notes	
Installation					
Product Configuration					
Installation Complete					
	<u>S</u> how Details >				
		< <u>B</u> ack	<u>N</u> ext >	<u>C</u> ance	el

SQL Installer			×
MySQL. Installer Adding Community	Product Configuration We'll now walk through a configuration	n wizard for each of the following products.	
Select Products and Features	You can cancel at any point if you wish products.	to leave this wizard without configuring all the	
Installation	Product	Status	
Product Configuration	MySQL Server 8.0.20	Ready to configure	
Installation Complete	<		>
		<u>N</u> ext > <u>C</u>	ancel

Once successfully installed, the database will now have to be configured.

MySQL Installer	– 🗆 X
MySQL. Installer MySQL Server 8.0.20	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	nigh-availability solution, if required.
Type and Networking	The InnoDB cluster technology provides an out-of-the-box high availability (HA) solution for MySQL using Group Replication.
Authentication Method	
Accounts and Roles	
Windows Service	MysQL Snell
Logging Options	Client App $\longleftrightarrow$ MySQL Router
Advanced Options	InnoDB Cluster
Apply Configuration	Note: InnoDB 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.
	<u>N</u> ext > <u>C</u> ancel

Select the default Standalone option and click Next to continue



In most cases, the default options are acceptable however you may have specifc networking requirements. Choose the options you require and click the *Next* button.



We strongly recommend that you use Strong Password Encryption.

NySQL Installer	- 🗆 X
MySQL. Installer MySQL Server 8.0.20	Accounts and Roles Root Account Password Enter the password for the root account. Please remember to store this password in a secure place.
High Availability Type and Networking Authentication Method	MySQL Root Password:
Accounts and Roles	
Windows Service Apply Configuration	MySQL User Accounts Create MySQL user accounts for your users and applications. Assign a role to the user that consists of a set of privileges.
	MySQL User Name Host User Role
	< <u>B</u> ack <u>N</u> ext > <u>C</u> ancel

Now set a root password and keep it safe. You will need it to administer the database. Now click *Add User* to create a database user.

NySQL User Ac	count		Х
Please specify	the user nar	ne, password, and database role.	
	User Name:	9	
Server	Host:	localhost $\checkmark$	
Service	Role:	DB Admin 🗸	
A	uthentication:	MySQL	
MySQL user cr	edentials		1
	Password:	▲	
Confi	m Password:		
		Password strength: Max	
		<u>O</u> K <u>C</u> ancel	

Create the new database user and set the Host to localhost.

NySQL Installer				_		×
MySQL. Installer MySQL Server 8.0.20	Accounts and Ro Root Account Password Enter the password for the r place.	les root account. Please r	emember to store t	this password in	a secure	
High Availability	MySQL Root Password:	•••••				
Type and Networking Authentication Method	Repeat Password:	••••••••••••••••••••••••••••••••••••••	Strong			
Accounts and Roles						
Windows Service Apply Configuration	MySQL User Accounts Create MySQL user accourt	nts for your users and	applications. Assig	n a role to the u	ser that	
11,7 2	consists of a set of privileg	jes.				
	MySQL User Name	Host localhost	User Kole DB Admin		Edit Use	er
		[	< <u>B</u> ack	<u>N</u> ext >	<u>C</u> ance	el

Once new accounts are created, click Next.

NySQL Installer	- 🗆 X
MySQL. Installer MySQL Server 8.0.20	Windows Service ☑ Configure MySQL Server as a Windows Service
High Availability Type and Networking Authentication Method	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. Windows Service Name: MySQL80 Start the MySQL Server at System Startup
Accounts and Roles Windows Service	Run Windows Service as
Apply Configuration	<ul> <li>Ine MySQL Server needs to run under a given user account. Based on the security requirements of your system you need to pick one of the options below.</li> <li>Standard System Account         Recommended for most scenarios.         <ul> <li>Custom User</li> <li>An existing user account can be selected for advanced scenarios.</li> </ul> </li> </ul>
	< <u>B</u> ack <u>N</u> ext > <u>C</u> ancel

Select the default options and click Next.



Click the *Execute* button to apply the configuration settings.



The installer will now apply the configuration setting to the database. When the configuration is completed, click *Finish*.

NySQL Installer		- 0	×
MySQL. Installer Adding Community	Product Configuration We'll now walk through a configuratio	n wizard for each of the following products.	
Select Products and Features	You can cancel at any point if you wish products.	to leave this wizard without configuring all the	
Installation	Product	Status	]
Product Configuration	MySQL Server 8.0.20	Configuration complete.	
Installation Complete	<		
		<u>N</u> ext > <u>C</u> ance	I

Click Next to begin Product configuration.

NySQL Installer	-		×
MySQL. Installer Adding Community	Installation Complete The installation procedure has been completed.		
Select Products and Features Installation Product Configuration Installation Complete	Cgpy Log to Clipboard		
		<u>F</u> inis	h

Navigate to the downloaded MySQL Workbench software, typically *mysql-workbench-community-6.3.8-win32.exe*, and run it.



#### Click Next.

🙀 MySQL Workbench 6.3 CE - Setup Wizard	×
Custom Setup Select the program features you want installed.	a start
Click on an icon in the list below to change how a feature is in MySQL Workbench Core Program Shortcut	nstalled. Feature Description Core components needed to run MySQL Workbench This feature requires 0KB on your hard drive.
Help < Back	Next > Cancel

Click Next.

🙀 MySQL Workbench 6.3 CE - Setup Wizard	×I
Ready to Modify the Program         The wizard is ready to begin installation.	
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.	
Current Settings:	
Setup Type: Destination Folder: C:\Program Files\MySQL\MySQL Workbench 6.3 CE\	
< <u>B</u> ack <u>Install</u> Cancel	J

Click *Install*. The installation will only take a few moments then the **Completed** screen will be displayed.



# Creating and Populating the Harvester Database

Open the MySQL Workbench application.



Click on the Local Instance MySQL box to log into the local database.

📉 Connect to M	ySQL Server	×
	Please enter p following serv	bassword for the vice:
	Service:	Mysql@localhost:3306
~ ~ <b>~</b>	User:	root
Workbench		
		Save password in vault
		OK Cancel

Enter the root password to that set when you were installing the database and click Ok.

🕅 MySQL Workbench		
Local instance MySQL ×		
<u>File Edit View Query Database Server Tools</u>	<u>Scripting</u> <u>H</u> elp	
New Model Ctrl+N		© <b>–</b> –
New Query Tab Ctrl+T		
Open Model Ctrl+O		
Open SQL Script Ctrl+Shift+O		
Open Recent		
Run SQL Script		
Close Connection Tab Ctrl+Shift+F4		
Close Tab Ctrl+W		
Save Script Ctrl+S		
Save Script As Ctrl+Shift+S		
Revert to Saved		
Exit Alt+F4		
	0.111	
	Output	
	Action Output	Duration
	# Time Action	Message / Fetch
Line of the second s		
Management Schemas		
Information		
No object selected		
Object Info Session		

Once Workbench is open, navigate to the Open SQL Script in the the File menu.

In the file dialog box, navigate to

C:\Program Files (x86)\SIGINT Systems\Harvester\resources\setup\database

and open the *create\_db.sql* file.



Once the file is open, click the *Execute* icon  $\checkmark$  on the toolbar.

This will create the new HARVESTER database. Next open and execute the *populate\_db.sql* file. This will build all the narrative tables that HARVESTER requires to run.

Once the is done, the MySQL has been successfully installed and the HARVESTER has been successfully created.

#### You can now run HARVESTER for the first time!