

# Инструкция MySQL - начало работы





# Установка MySQL на Windows

## 1 шаг Переходим на сайт [MySQL](#)

The screenshot shows the MySQL website homepage. At the top, there is a navigation bar with the MySQL logo, the tagline "The world's most popular open source database", a search icon, and links for "Contact MySQL", "Login", and "Register". Below the navigation bar, there are links for "MYSQL.COM", "DOWNLOADS" (which is underlined), "DOCUMENTATION", and "DEVELOPER ZONE". Social media icons for Facebook, Twitter, LinkedIn, and YouTube are also present.

The main content area features a large blue banner with the text "MySQL HeatWave" and "One MySQL Database service for OLTP, OLAP, ML, and Lakehouse". Below this, there are two columns of text. The left column highlights "Unmatched price performance" with three bullet points: "4.2X faster than Amazon Redshift at one-fifth the cost", "3.3X faster than Snowflake at one-eighth the cost", and "1,400X faster than Aurora at half the cost". It also mentions "Available on OCI, AWS, and Azure" and includes two buttons: "Try Free" and "Technical Guides".

The right column of the banner promotes the "MySQL Summit - May 1, 2024 - Redwood Shores, California", stating that it is where developers, DBAs, experts, and users come to learn about the latest innovations on-premises and in the cloud using MySQL and MySQL HeatWave. It includes a link for "Free Event - Register Now".

Below the banner, there are three sections. The first is "MySQL Newsletter" with links for "Subscribe" and "Archive". The second is "Free Webinars" with two items: "Machine Learning for Beginners - From Data to Insights" (Thursday, March 21, 2024) and "Migrating from MariaDB to MySQL HeatWave" (Thursday, April 11, 2024). The third section is "MySQL Enterprise Edition", which includes a description of the edition and links for "Learn More", "Customer Download from My Oracle Support (MOS)", "Trial Download from Oracle edelivery", and "Developer Download from Oracle OTN".

The bottom section is "MySQL NDB Cluster CGE", which includes a description of the cluster and a link for "MySQL NDB Cluster".



**2 шаг** Далее на вкладку загрузки. Пролистываем ниже.

The screenshot shows the MySQL website. At the top, there is a navigation bar with the MySQL logo, the tagline "The world's most popular open source database", a search icon, and links for "Contact MySQL", "Login", and "Register". Below this, there are links for "MYSQL.COM", "DOWNLOADS" (which is underlined with an orange bar), "DOCUMENTATION", and "DEVELOPER ZONE". Social media icons for Facebook, Twitter, LinkedIn, and YouTube are also present.

The main content area features a large blue banner for "MySQL HeatWave" with the subtitle "One MySQL Database service for OLTP, OLAP, and ML—without ETL". Below this, there are two columns of text. The left column is titled "Unmatched price performance" and lists three bullet points: "6.5X faster than Redshift at half the cost", "7X faster than Snowflake at 20% the cost", and "1,400X faster than Aurora at half the cost". It also states "Available on OCI, AWS, and Azure". The right column is titled "MySQL HeatWave developer resources" and contains two paragraphs: "Build applications for popular use cases with step-by-step instructions and code samples." and "Download the new MySQL Shell for VS Code and MySQL Workbench.".

Below the banner, there are two buttons: "Try Free" and "Technical Guides". At the bottom of the page, there are two sections: "MySQL Newsletter" with links to "Subscribe" and "Archive", and "MySQL Enterprise Edition" with links to "Learn More", "Customer Download", and "Trial Download". A red arrow points from the "DOWNLOADS" link in the navigation bar to the "MySQL Enterprise Edition" section.

At the bottom left, there is a link to "Free Webinars" and a brief description: "Introducing MySQL HeatWave Lakehouse - processing data in store with record".

The URL at the bottom left is <https://www.mysql.com/downloads/>.





## 3 шаг Здесь выбираем MySQL Community (GPL) Downloads

The screenshot shows the MySQL website's download section. On the left, there are links for the MySQL Newsletter, Free Webinars, and Contact Sales. The main content area features sections for MySQL Enterprise Edition and MySQL Cluster CGE. At the bottom of the main content area, a red rectangular box highlights the link 'MySQL Community (GPL) Downloads >'. The URL 'https://dev.mysql.com/downloads/' is visible in the bottom left corner of the browser window.

**MySQL Newsletter**  
Subscribe >  
Archive >

**Free Webinars**  
Introducing MySQL HeatWave Lakehouse - processing data in object store with record performance  
Thursday, July 27, 2023  
Deep Dive into MySQL HeatWave Lakehouse  
Tuesday, August 08, 2023  
Migrating from On-Premises MySQL to MySQL HeatWave On-Demand  
More >

**Contact Sales**  
USA: +1-866-221-0634  
Canada: +1-866-221-0634  
Germany: +49 89 143 01280  
France: +33 1 57 60 83 57  
Italy: +39 02 249 59 120  
UK: +44 207 553 8447  
Japan: 0120-065556  
China: 400 669 0561  
India: 0068001005870  
More Countries >  
**Contact Us Online >**

**MySQL Enterprise Edition**  
MySQL Enterprise Edition includes the most comprehensive set of advanced features, management tools and technical support for MySQL.  
Learn More >  
Customer Download >  
Trial Download >

**MySQL Cluster CGE**  
MySQL Cluster is a real-time open source transactional database designed for fast, always-on access to data under high throughput conditions.  
• MySQL Cluster  
• MySQL Cluster Manager  
• Plus, everything in MySQL Enterprise Edition  
Learn More >  
Customer Download > (Select Patches & Updates Tab, Product Search)  
Trial Download >

**MySQL Community (GPL) Downloads >**

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



## 4 шаг Далее выбираем MySQL Community Serve

### MySQL Community Downloads

- MySQL Yum Repository
- MySQL APT Repository
- MySQL SUSE Repository
- MySQL Community Server**
- MySQL Cluster
- MySQL Router
- MySQL Shell
- MySQL Operator
- MySQL NDB Operator
- MySQL Workbench
- MySQL Installer for Windows
- C API (libmysqlclient)
- Connector/C++
- Connector/J
- Connector/NET
- Connector/Node.js
- Connector/ODBC
- Connector/Python
- MySQL Native Driver for PHP
- MySQL Benchmark Tool
- Time zone description tables
- Download Archives

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**5 шаг** Далее скачать загрузочный файл версии `mysql-installer-community.msi`.

Он позволит установить все компоненты СУБД даже при отсутствии интернет-соединения у сервера.

## MySQL Community Downloads

MySQL Installer

**General Availability (GA) Releases** Archives

### MySQL Installer 8.0.30

Select Operating System:  
Microsoft Windows

Looking for previous GA versions?

<b>Windows (x86, 32-bit), MSI Installer</b> (mysql-installer-web-community-8.0.30.0.msi)	8.0.30	5.5M	<a href="#">Download</a>
<b>Windows (x86, 32-bit), MSI Installer</b> (mysql-installer-community-8.0.30.0.msi)	8.0.30	448.3M	<a href="#">Download</a>

We suggest that you use the MD5 checksums and GnuPG signatures to verify the integrity of the packages you download.



## 6 шаг Далее регистрацию можно пропустить нажав “No thanks, just start my download”

### MySQL Community Downloads

Login Now or Sign Up for a free account.

An Oracle Web Account provides you with the following advantages:

- Fast access to MySQL software downloads
- Download technical White Papers and Presentations
- Post messages in the MySQL Discussion Forums
- Report and track bugs in the MySQL bug system

Login »  
using my Oracle Web account

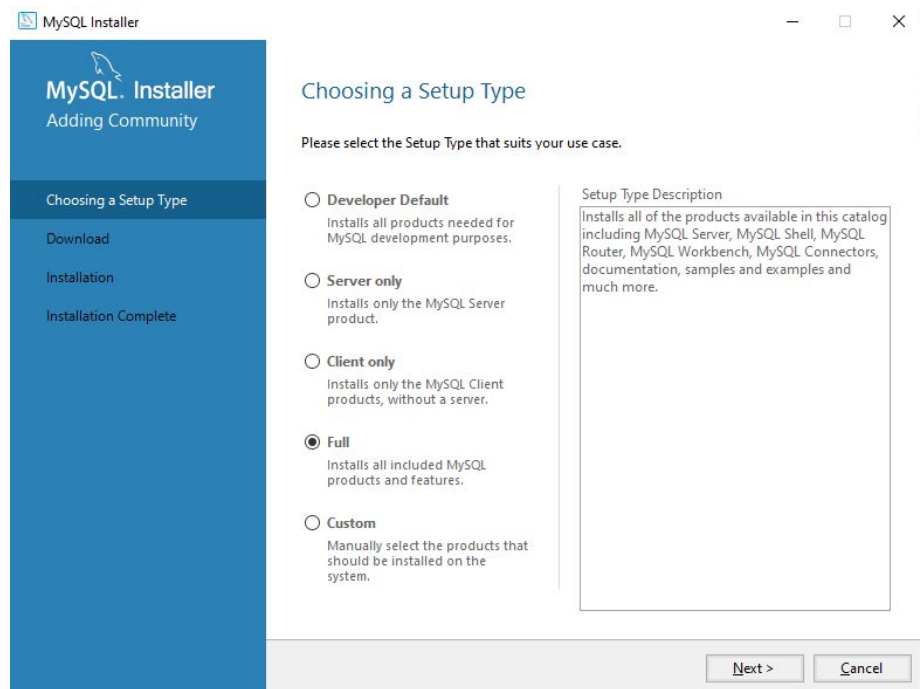
Sign Up »  
for an Oracle Web account

MySQL.com is using Oracle SSO for authentication. If you already have an Oracle Web account, click the Login link. Otherwise, you can signup for a free account by clicking the Sign Up link and following the instructions.

No thanks, just start my download.



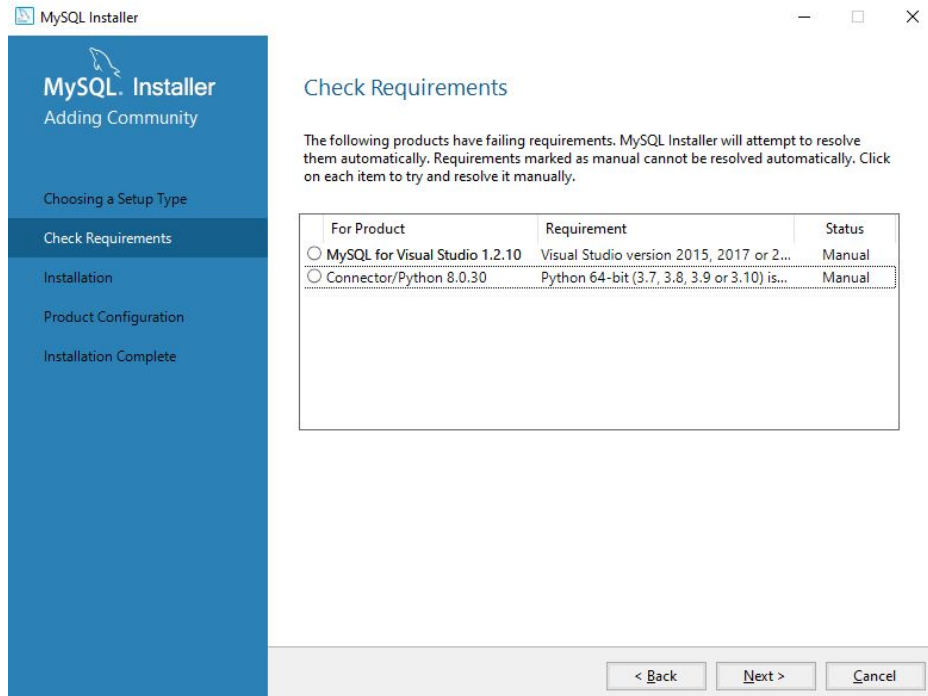
**7 шаг** После успешного скачивания загрузочного файла, его нужно будет запустить. Далее должна открыться программа установки. Выбираем «Full». Далее нажимаем кнопку «Next»





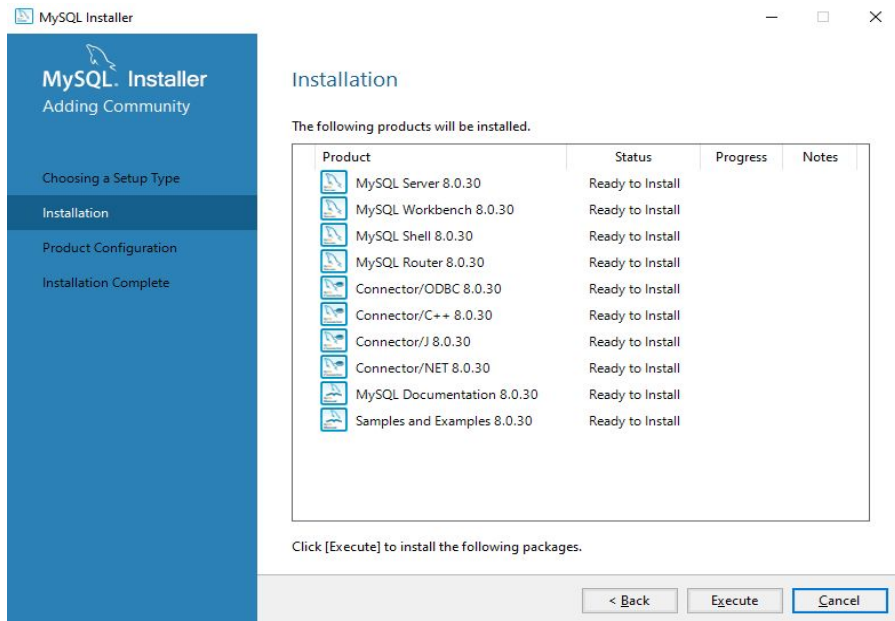


## 8 шаг Необходимо нажать кнопку «Next»



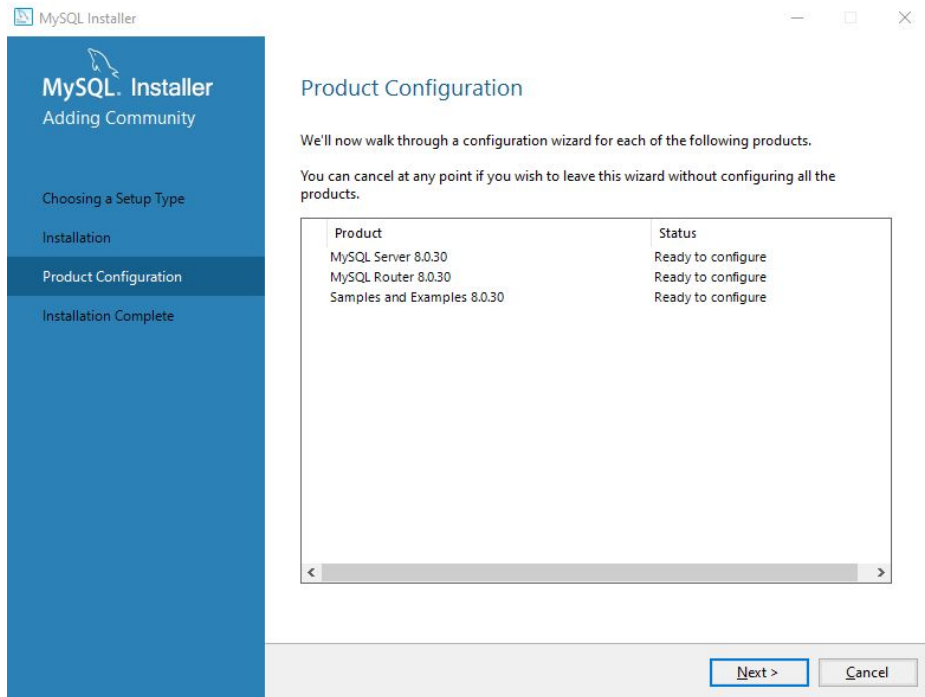


## 9 шаг Нажимаем кнопку «Execute». Когда файлы будут загружаться, нажимаем «Next».





## 9 шаг Нажимаем кнопку «Next»





**10 шаг** MySQL Server установлен. Теперь необходимо произвести настройку его конфигурации. Нажимаем «Next».

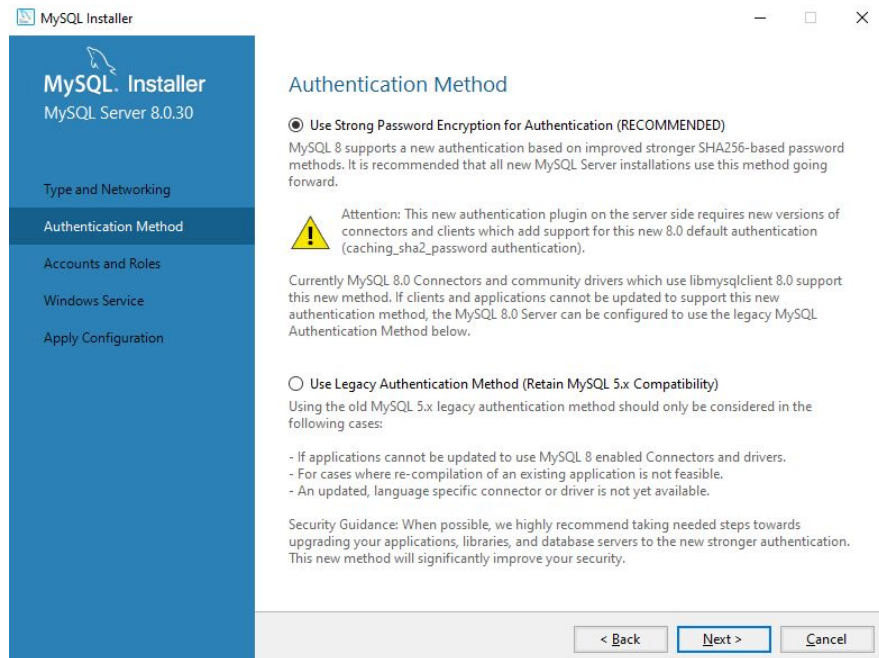
The screenshot shows the 'MySQL Installer' window for 'MySQL Server 8.0.30'. The left sidebar contains a list of configuration steps: 'Type and Networking' (selected), 'Authentication Method', 'Accounts and Roles', 'Windows Service', and 'Apply Configuration'. The main area is titled 'Type and Networking' and contains the following sections:

- Server Configuration Type**: A dropdown menu labeled 'Config Type:' with 'Development Computer' selected.
- Connectivity**: A section with the instruction 'Use the following controls to select how you would like to connect to this server.' It includes:
  - ☒ TCP/IP: Port: 3306, X Protocol Port: 33060
  - ☒ Open Windows Firewall ports for network access
  - ☐ Named Pipe: Pipe Name: MYSQL
  - ☐ Shared Memory: Memory Name: MYSQL
- Advanced Configuration**: A section with the instruction 'Select the check box below to get additional configuration pages where you can set advanced and logging options for this server instance.' It includes:
  - ☐ Show Advanced and Logging Options

At the bottom right, there are 'Next >' and 'Cancel' buttons.



## 10 шаг оставляем первый выбранный вариант и нажимаем «Next».





## 11 шаг В открывшемся окне вводим пароль

MySQL Installer

MySQL Server 8.0.30

Type and Networking

Authentication Method

Accounts and Roles

Windows Service

Apply Configuration

### Accounts and Roles

Root Account Password

Enter the password for the root account. Please remember to store this password in a secure place.

MySQL Root Password: .....

Repeat Password: .....

Password strength: **Strong**

MySQL User Account

Please specify the user name, password, and database role.

User Name: DB\_User1

Host: <All Hosts (%)>

Role: DB Admin

Authentication: ☒ MySQL

MySQL user credentials

Password: .....

Confirm Password: .....

Password strength: **Strong**

OK Cancel

< Back Next > Cancel

Add User Edit User Delete





## 12 шаг Нажимаем «Next»

MySQL Installer

MySQL. Installer  
MySQL Server 8.0.30

Type and Networking

Authentication Method

Accounts and Roles

**Windows Service**

Apply Configuration

**Windows Service**

☒ Configure MySQL Server as a Windows Service

**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:

☒ Start the MySQL Server at System Startup

**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 pick one of the options below.

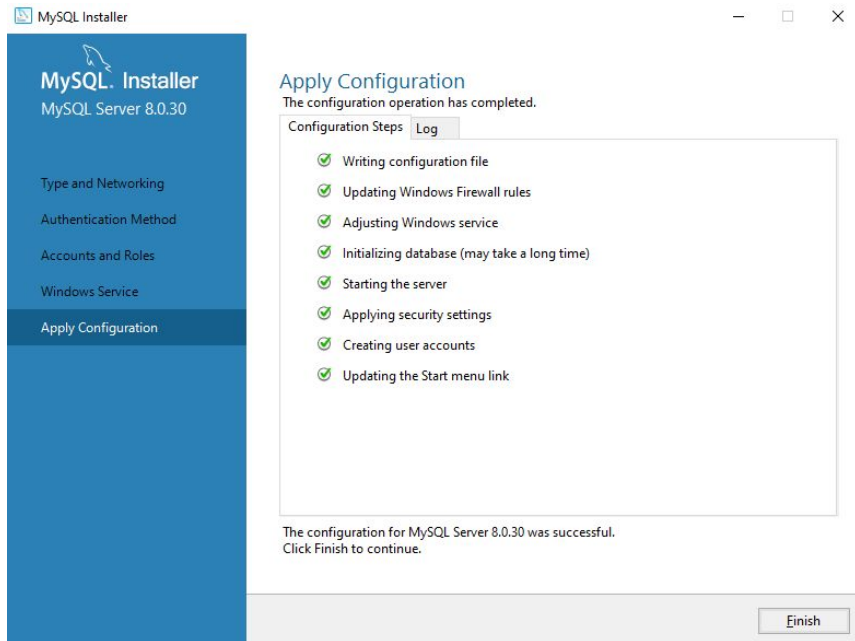
☒ **Standard System Account**  
Recommended for most scenarios.

☐ **Custom User**  
An existing user account can be selected for advanced scenarios.

< Back   Next >   Cancel



**12 шаг** Нажимаем кнопку «Execute».  
После загрузки нажимаем «Finish». И снова нажимаем кнопку «Next»





## 12 шаг В открывшемся окне не будем вносить никаких изменений, а просто нажимаем «Finish»

MySQL Installer

MySQL Router 8.0.30

MySQL Router Configuration

☐ Bootstrap MySQL Router for use with InnoDB Cluster

This wizard can bootstrap MySQL Router to direct traffic between MySQL applications and InnoDB Cluster. Applications that connect to the router will be automatically directed to an available read/write or read-only member of the cluster.

The bootstrapping process requires a connection to InnoDB Cluster. In order to register the MySQL Router for monitoring, use the current Read/Write instance of the cluster.

Hostname:

Port:

Management User:

Password:

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:

Read Only:

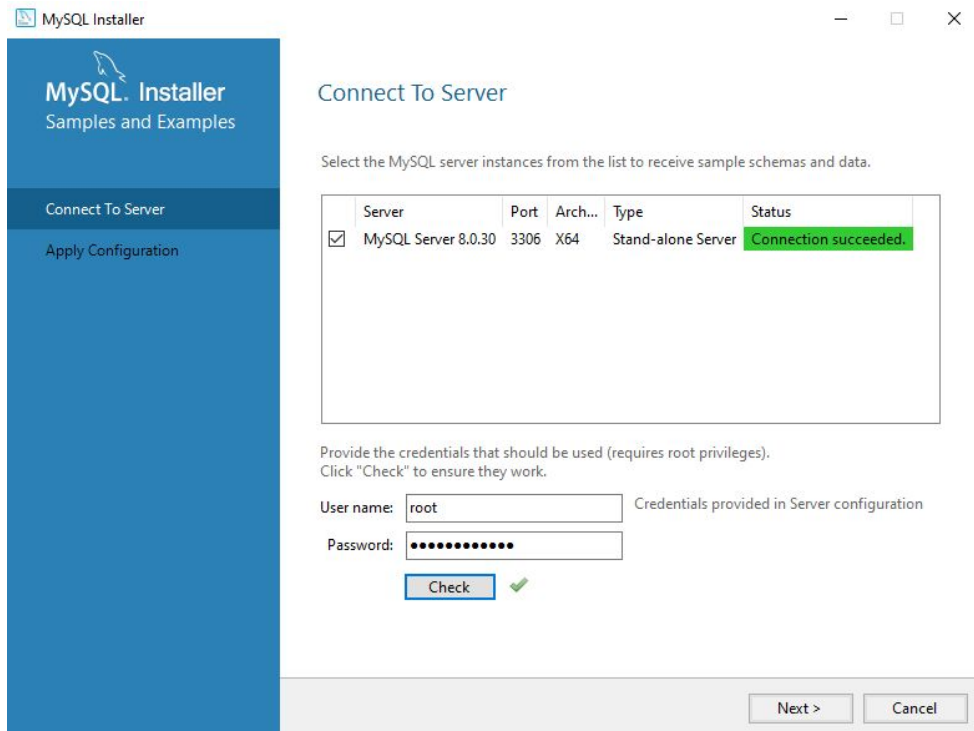
X Protocol connections to InnoDB Cluster:

Read/Write:

Read Only:

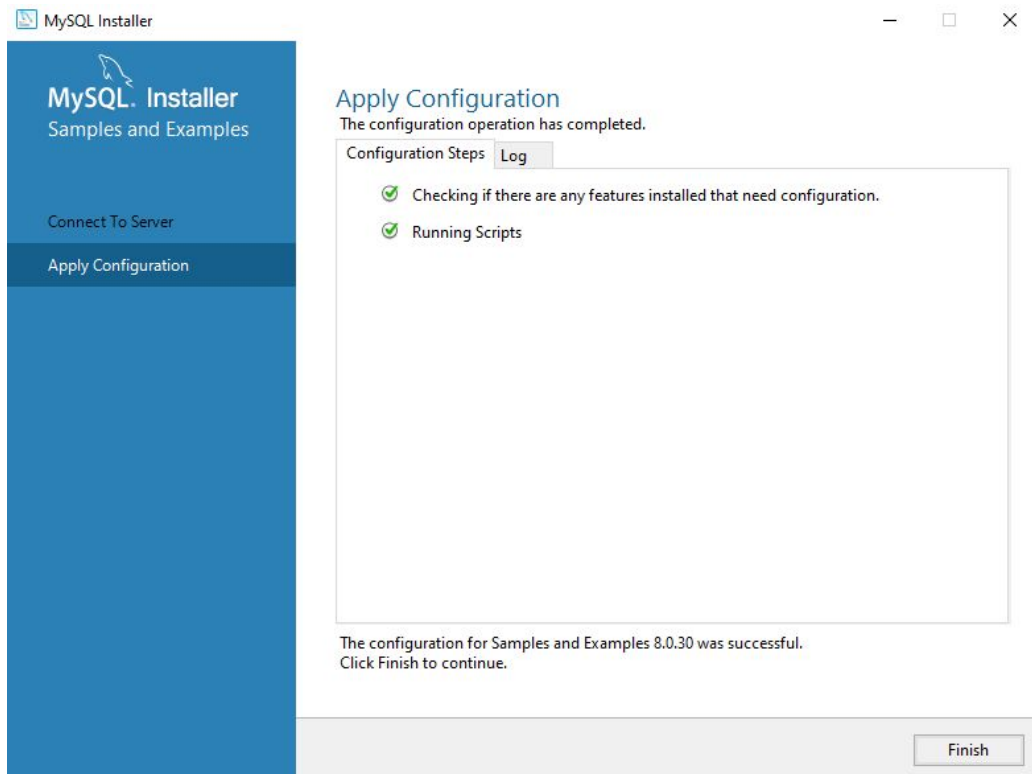


**13 шаг** В открывшемся окне заполняем ранее заданные логин и пароль для пользователя root и нажимаем кнопку «Check» для проверки соединения



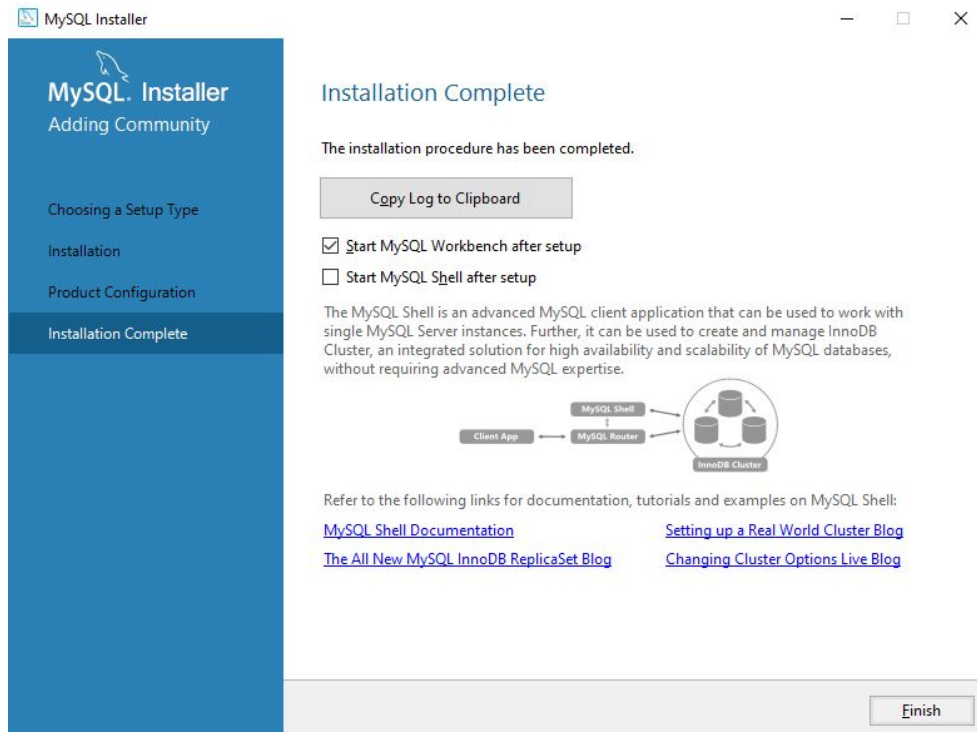


**14 шаг** Нажимаем «Next» и применяем все параметры кнопкой «Execute». После установки нажимаем «Finish»





## 15 шаг Установка завершена. Установим галочку в соответствующем чекбоксе и нажмем «Finish»







## Установка MySQL на Mac

**Существует множество способов начать работу с SQL на MacBook. В этом гайде вы найдете один из способов по установке MySQL. Стоит помнить, что для работы потребуется запущенный сервер на Вашем компьютере.**

**После установки мы сможем создавать и подключать таблицы, запускать запросы и работать с средствами управления SQL.**



## 1 шаг Переходим на сайт [MySQL](https://www.mysql.com)

The screenshot shows the MySQL HeatWave landing page. At the top, there's a navigation bar with the MySQL logo, a search bar, and links for 'Contact MySQL', 'Login', and 'Register'. Below the navigation bar, there's a main header with the MySQL logo and links for 'MYSQL.COM', 'DOWNLOADS', 'DOCUMENTATION', and 'DEVELOPER ZONE'. The main content area features a large blue banner with the text 'MySQL HeatWave' and 'One MySQL Database service for OLTP, OLAP, ML, and Lakehouse'. Below this, there's a section titled 'Unmatched price performance' with a list of performance metrics: '4.2X faster than Amazon Redshift at one-fifth the cost', '3.3X faster than Snowflake at one-eighth the cost', and '1,400X faster than Aurora at half the cost'. To the right of this section is a dark blue box with the text 'MySQL Summit - May 1, 2024 - Redwood Shores, California' and a link to 'Free Event - Register Now'. At the bottom of the banner, there are two buttons: 'Try Free' and 'Technical Guides'. Below the banner, there's a section for 'MySQL Newsletter' with a 'Subscribe' link and an 'Archive' link. To the right of this is a section for 'MySQL Enterprise Edition' with a 'Learn More' link and links to download from My Oracle Support (MOS), Oracle edelivery, and Oracle OTN. At the bottom, there's a section for 'MySQL NDB Cluster CGE' with a link to 'MySQL NDB Cluster'.

The world's most popular open source database

MySQL.COM DOWNLOADS DOCUMENTATION DEVELOPER ZONE

Contact MySQL | Login | Register

# MySQL HeatWave

One MySQL Database service for OLTP, OLAP, ML, and Lakehouse

### Unmatched price performance

- 4.2X faster than Amazon Redshift at one-fifth the cost
- 3.3X faster than Snowflake at one-eighth the cost
- 1,400X faster than Aurora at half the cost

### Available on OCI, AWS, and Azure

Try Free Technical Guides

### MySQL Summit - May 1, 2024 - Redwood Shores, California

MySQL Summit is where developers, DBAs, experts, and users come to learn about the latest innovations on-premises and in the cloud using MySQL and MySQL HeatWave.

Free Event - Register Now »

### MySQL Newsletter

Subscribe »

Archive »

### Free Webinars

Machine Learning for Beginners - From Data to Insights  
Thursday, March 21, 2024

Migrating from MariaDB to MySQL HeatWave  
Thursday, April 11, 2024

### MySQL Enterprise Edition

MySQL Enterprise Edition includes the most comprehensive set of advanced features, management tools and technical support for MySQL.

Learn More »

Customer Download from My Oracle Support (MOS) »

Trial Download from Oracle edelivery »

Developer Download from Oracle OTN »

### MySQL NDB Cluster CGE

MySQL NDB Cluster is a real-time open source transactional database designed for fast, always-on access to data under high throughput conditions.

- MySQL NDB Cluster

2 шаг Далее на вкладку загрузки. Пролистываем ниже.

The screenshot shows the MySQL website with the following elements:

- Header:** MySQL logo, tagline "The world's most popular open source database", search bar, and links for "Contact MySQL", "Login", and "Register". Navigation links include "MYSQL.COM", "DOWNLOADS" (highlighted), "DOCUMENTATION", and "DEVELOPER ZONE". Social media icons for Facebook, Twitter, LinkedIn, and YouTube are also present.
- Main Content Area:**
  - MySQL HeatWave:** A large blue section with the headline "MySQL HeatWave" and subtitle "One MySQL Database service for OLTP, OLAP, and ML—without ETL".
  - Unmatched price performance:** A list of performance metrics:
    - 6.5X faster than Redshift at half the cost
    - 7X faster than Snowflake at 20% the cost
    - 1,400X faster than Aurora at half the cost
  - Available on OCI, AWS, and Azure:** Text indicating cloud availability.
  - MySQL HeatWave developer resources:** A dark blue box containing text about building applications and downloading the MySQL Shell for VS Code and MySQL Workbench.
  - Buttons:** "Try Free" and "Technical Guides" buttons with right-pointing arrows.
- Footer/Bottom Section:**
  - MySQL Newsletter:** Includes "Subscribe" and "Archive" links.
  - Free Webinars:** Includes a link to "Introducing MySQL HeatWave Lakehouse - processing data in store with record".
  - MySQL Enterprise Edition:** Describes the comprehensive set of advanced features, management tools, and technical support.
  - MySQL Cluster CGE:** A link to the MySQL Cluster Group Extension.

A red arrow points from the "MySQL HeatWave developer resources" box down to the "MySQL Enterprise Edition" section.

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



## 3 шаг Здесь выбираем MySQL Community (GPL) Downloads

The screenshot shows the MySQL Downloads page. On the left sidebar, there are links for 'MySQL Newsletter', 'Free Webinars', and 'Contact Sales'. The main content area features 'MySQL Enterprise Edition' and 'MySQL Cluster CGE'. A red rectangular box highlights the link 'MySQL Community (GPL) Downloads' at the bottom of the main content area.

**MySQL Newsletter**  
Subscribe »  
Archive »

**Free Webinars**  
Introducing MySQL HeatWave Lakehouse - processing data in object store with record performance  
Thursday, July 27, 2023  
Deep Dive into MySQL HeatWave Lakehouse  
Tuesday, August 08, 2023  
Migrating from On-Premises MySQL to MySQL HeatWave On-Demand  
More »

**Contact Sales**  
USA: +1-866-221-0634  
Canada: +1-866-221-0634  
  
Germany: +49 89 143 01280  
France: +33 1 57 60 83 57  
Italy: +39 02 249 59 120  
UK: +44 207 553 8447  
  
Japan: 0120-065556  
China: 400 669 0561  
India: 0068001005870  
  
More Countries »  
**Contact Us Online »**

**MySQL Enterprise Edition**  
MySQL Enterprise Edition includes the most comprehensive set of advanced features, management tools and technical support for MySQL.  
Learn More »  
Customer Download »  
Trial Download »

**MySQL Cluster CGE**  
MySQL Cluster is a real-time open source transactional database designed for fast, always-on access to data under high throughput conditions.  
• MySQL Cluster  
• MySQL Cluster Manager  
• Plus, everything in MySQL Enterprise Edition  
Learn More »  
Customer Download » (Select Patches & Updates Tab, Product Search)  
Trial Download »

[MySQL Community \(GPL\) Downloads »](#)

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



## 4 шаг Далее выбираем MySQL Community Serve

### MySQL Community Downloads

- MySQL Yum Repository
- MySQL APT Repository
- MySQL SUSE Repository
- MySQL Community Server**
- MySQL Cluster
- MySQL Router
- MySQL Shell
- MySQL Operator
- MySQL NDB Operator
- MySQL Workbench
- MySQL Installer for Windows
- C API (libmysqlclient)
- Connector/C++
- Connector/J
- Connector/NET
- Connector/Node.js
- Connector/ODBC
- Connector/Python
- MySQL Native Driver for PHP
- MySQL Benchmark Tool
- Time zone description tables
- Download Archives

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## 5 шаг Убедимся, что выбрана наша операционная система.

MySQL Community Downloads

MySQL Community Server

General Availability (GA) Releases Archives

MySQL Community Server 8.1.0 Innovation

Select Version:  
8.1.0 Innovation

Select Operating System:  
macOS  
Select Operating System...  
Microsoft Windows  
Ubuntu Linux  
Debian Linux  
SUSE Linux Enterprise Server  
Red Hat Enterprise Linux / Oracle Linux  
Fedora  
Linux - Generic  
macOS Sonoma  
Source Code

8.1.0	560.7M	<a href="#">Download</a>
8.1.0	565.7M	<a href="#">Download</a>
8.1.0	176.3M	<a href="#">Download</a>
8.1.0	180.7M	<a href="#">Download</a>
8.1.0	384.1M	<a href="#">Download</a>
8.1.0	384.7M	<a href="#">Download</a>



## 6 шаг Начнем производить скачивание файла.

8.1.0 Innovation


Select Operating System:

macOS

Select OS Version:

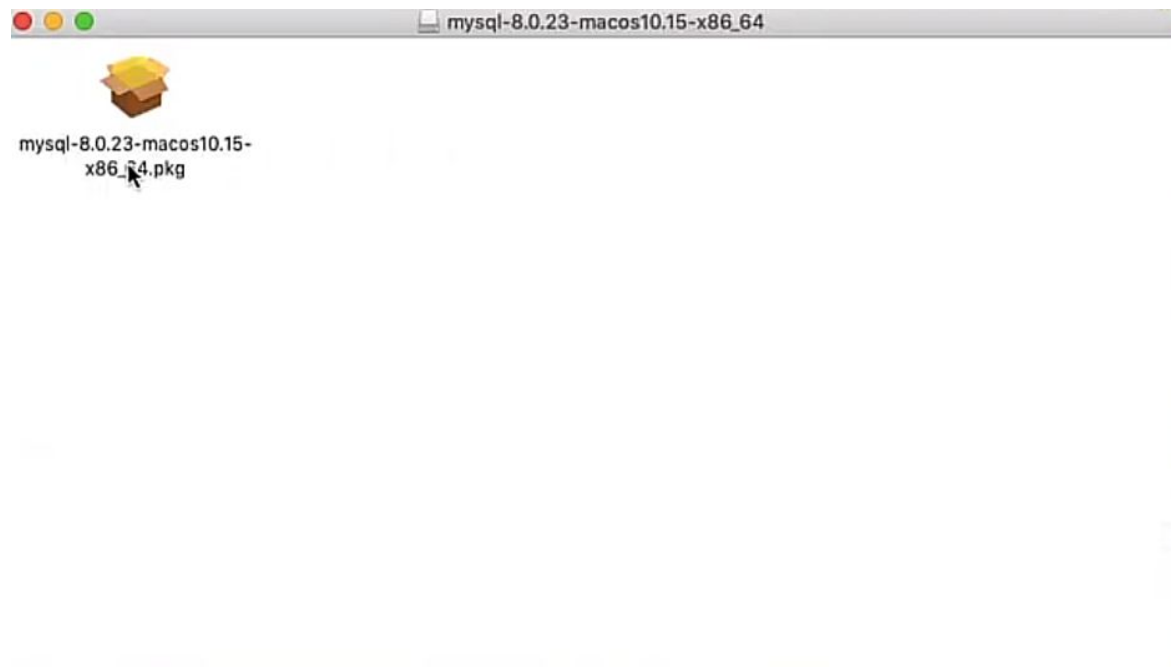
All

macOS 11 (ARM, 64-bit), DMG Archive	8.1.0	560.7M	<a href="#">Download</a>
<small>(mysql-8.1.0-macos11-arm64.dmg)</small>		MD5: 8f9f1936a0c109714671e77f7e13104   <a href="#">Signature</a>	
macOS 11 (x86, 64-bit), DMG Archive	8.1.0	565.7M	<a href="#">Download</a>
<small>(mysql-8.1.0-macos11-x86_64.dmg)</small>		MD5: d38ef93590a338f7e300873e0d0e4   <a href="#">Signature</a>	
macOS 11 (ARM, 64-bit), Compressed TAR Archive	8.1.0	176.3M	<a href="#">Download</a>
<small>(mysql-8.1.0-macos11-arm64.tar.gz)</small>		MD5: 428f4d363f32ce9b0841c8e0813e07   <a href="#">Signature</a>	
macOS 11 (x86, 64-bit), Compressed TAR Archive	8.1.0	180.7M	<a href="#">Download</a>
<small>(mysql-8.1.0-macos11-x86_64.tar.gz)</small>		MD5: 71a137870a0c1992ae75931e7e3e7969   <a href="#">Signature</a>	
macOS 11 (ARM, 64-bit), Compressed TAR Archive Test Suite	8.1.0	384.1M	<a href="#">Download</a>
<small>(mysql-test-8.1.0-macos11-arm64.tar.gz)</small>		MD5: ce48750b63a83e14131e1ee6421808   <a href="#">Signature</a>	
macOS 11 (x86, 64-bit), Compressed TAR Archive Test Suite	8.1.0	384.7M	<a href="#">Download</a>
<small>(mysql-test-8.1.0-macos11-x86_64.tar.gz)</small>		MD5: 0e13f1e3001c3e7b023d7e1e3e3e770   <a href="#">Signature</a>	
macOS 11 (ARM, 64-bit), TAR	8.1.0	577.6M	<a href="#">Download</a>
<small>(mysql-8.1.0-macos11-arm64.tar)</small>		MD5: 8af7841317317d2ac27e338c9e09333   <a href="#">Signature</a>	
macOS 11 (x86, 64-bit), TAR	8.1.0	583.6M	<a href="#">Download</a>
<small>(mysql-8.1.0-macos11-x86_64.tar)</small>		MD5: 405e478214c11a520e0311a0b013ee   <a href="#">Signature</a>	

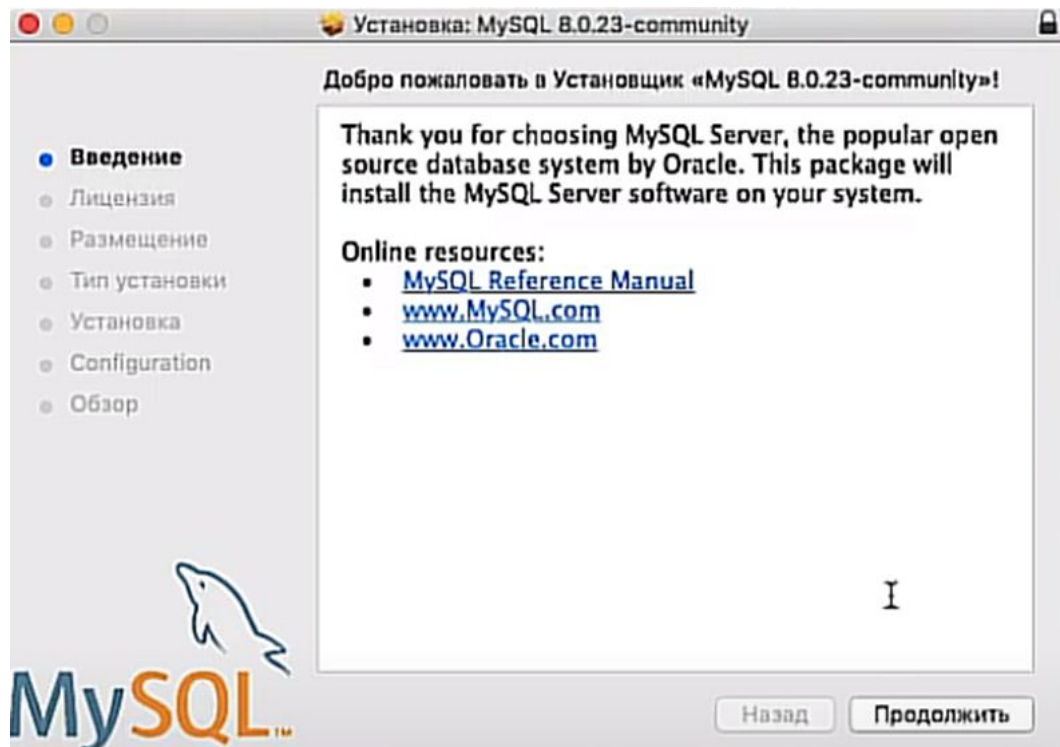
 We suggest that you use the MD5 checksums and GnuPG signatures to verify the integrity of the packages you download.



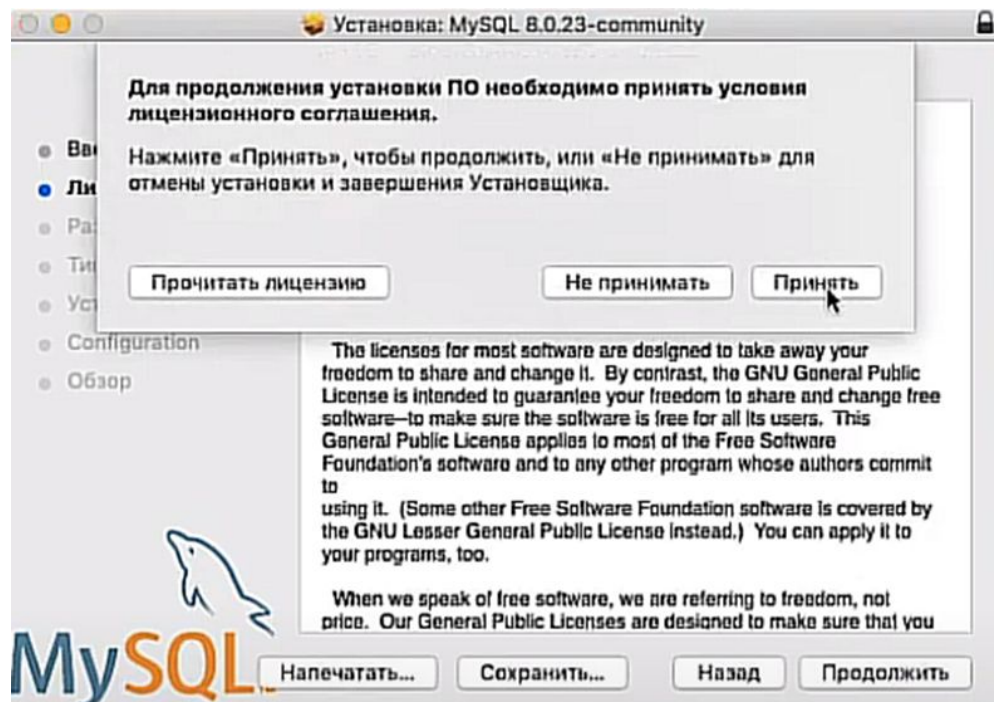
7 шаг Скачав, открываем его в загрузках.



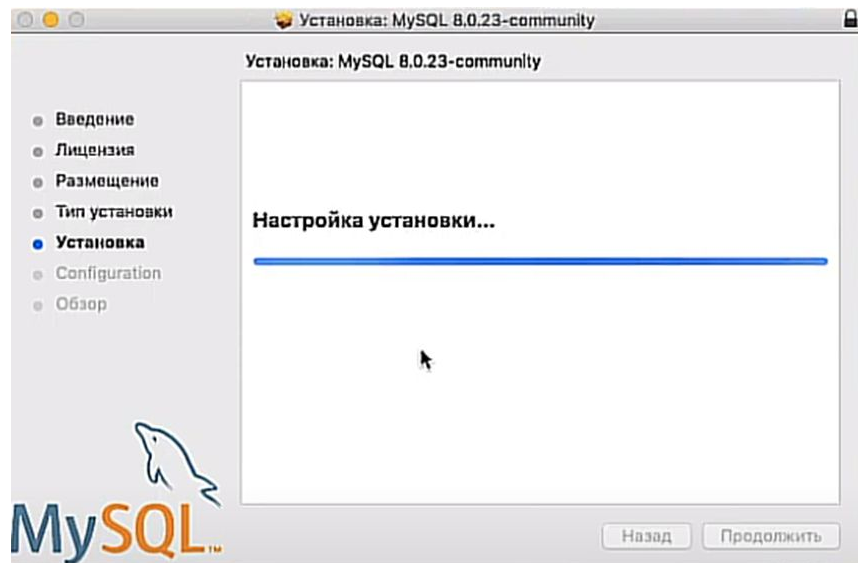
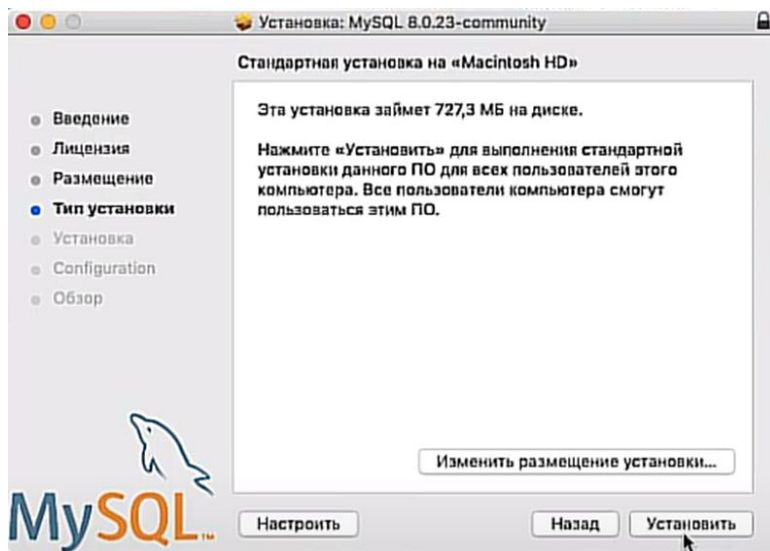
8 шаг В появившемся окне видим стандартную установку.



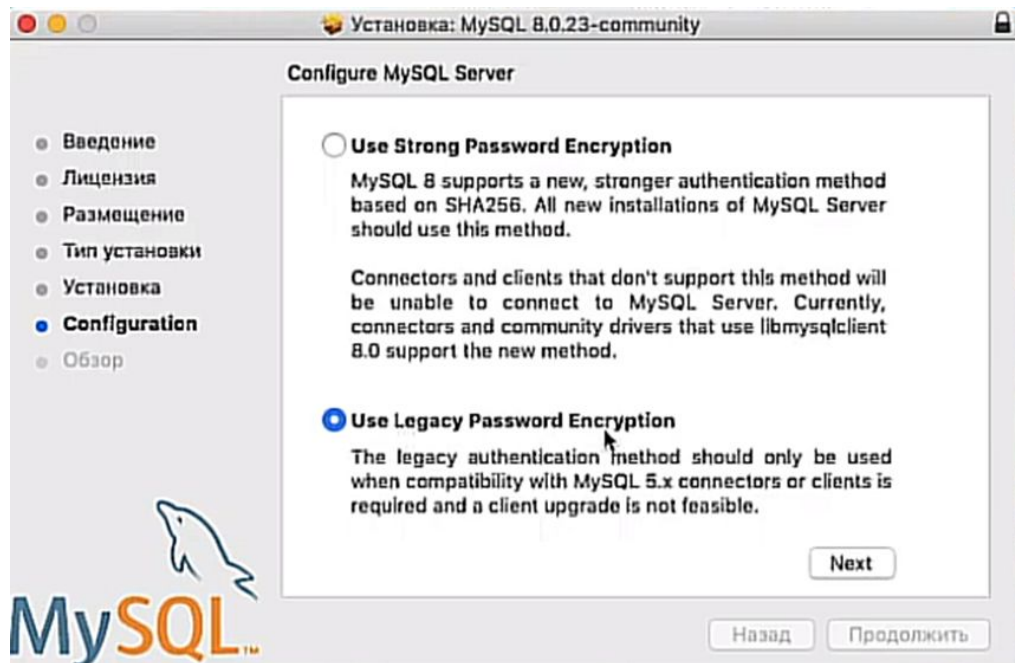
## 9 шаг Соглашаемся с условиями лицензии.



## 10 шаг Начинаем установку программы.

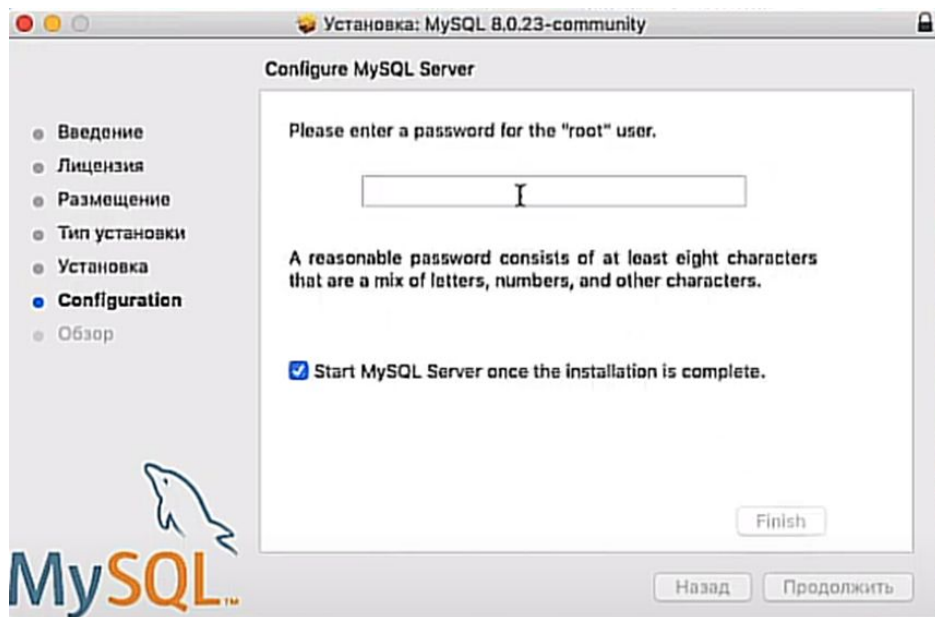


11 шаг Дождитесь её завершения и выберите наследуемый пароль.

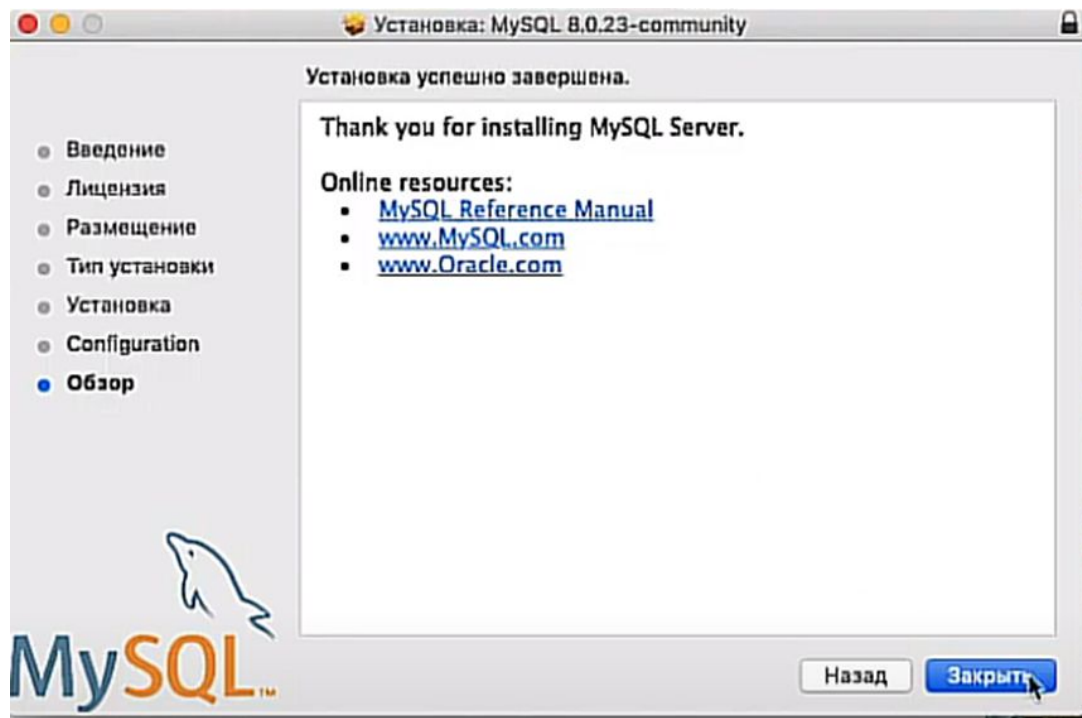




12 шаг Определяем его - он должен быть длиннее 7 символов.



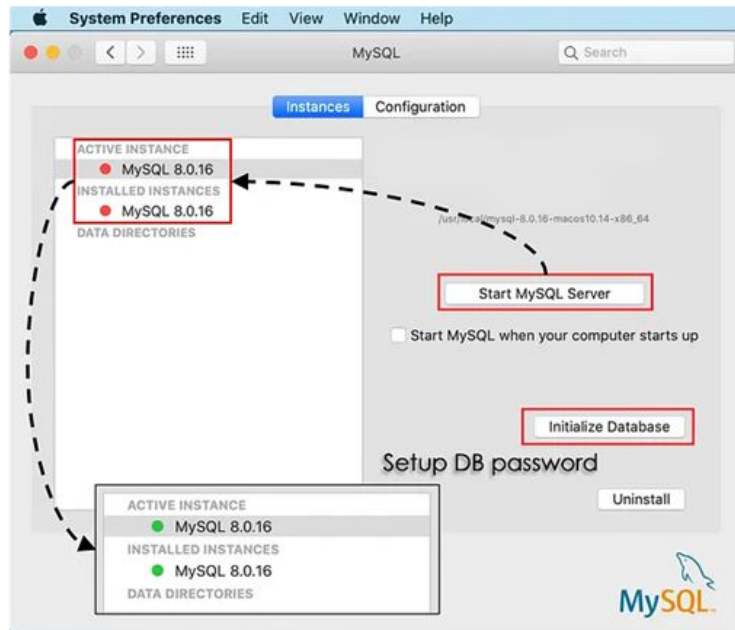
## 13 шаг Завершаем установку MySQL.



## 14 шаг Находим программу среди установленных.



15 шаг Здесь можно увидеть запущенные сервера.





**16 шаг** В терминале запускаем команду `mysql -u root -p`

**Ура!**

Сервер MySQL запущен. В терминале появилась возможность работать с базами данных.