



Università degli Studi di Milano Bicocca  
**Corso di Laurea in Informatica**

# Installazione MySQL

## Laboratorio di Basi si Dati

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# Installazione

Per poter effettuare il laboratorio di basi di dati, è necessario installare due componenti:

- MySQL Community Edition
- MySQL Workbench



Nelle prossime slides troverete le indicazioni per Windows e Ubuntu/Linux.

# Installazione su Windows

1. Scaricare ed installare Microsoft Visual C++ 2019 Redistributable Package (x64)

- [https://aka.ms/vs/16/release/vc\\_redist.x64.exe](https://aka.ms/vs/16/release/vc_redist.x64.exe) (64bit)
- [https://aka.ms/vs/16/release/vc\\_redist.x86.exe](https://aka.ms/vs/16/release/vc_redist.x86.exe) (32bit)

2. Scaricare l'installer da <https://dev.mysql.com/downloads/mysql/>

The screenshot shows the MySQL Community Server 8.0.19 download page for Windows. The page has a navigation bar with 'General Availability (GA) Releases', 'Archives', and an information icon. Below the navigation bar, the title 'MySQL Community Server 8.0.19' is displayed. A dropdown menu for 'Select Operating System:' is set to 'Microsoft Windows'. A 'Looking for previous GA versions?' link is visible. The 'Recommended Download:' section features a large graphic for 'MySQL Installer for Windows' with the text 'All MySQL Products. For All Windows Platforms. In One Package.' and a 'Go to Download Page >' button. Below this, the 'Other Downloads:' section lists three download options:

Operating System	Version	Size	Action
Windows (x86, 32 & 64-bit), MySQL Installer MSI	8.0.19	187.8M	Download
Windows (x86, 64-bit), ZIP Archive	8.0.19	187.8M	Download
Windows (x86, 64-bit), ZIP Archive Debug Binaries & Test Suite	8.0.19	406.7M	Download

A red arrow points from the 'Go to Download Page >' button to the 'Windows (x86, 32 & 64-bit), MySQL Installer MSI' download link.

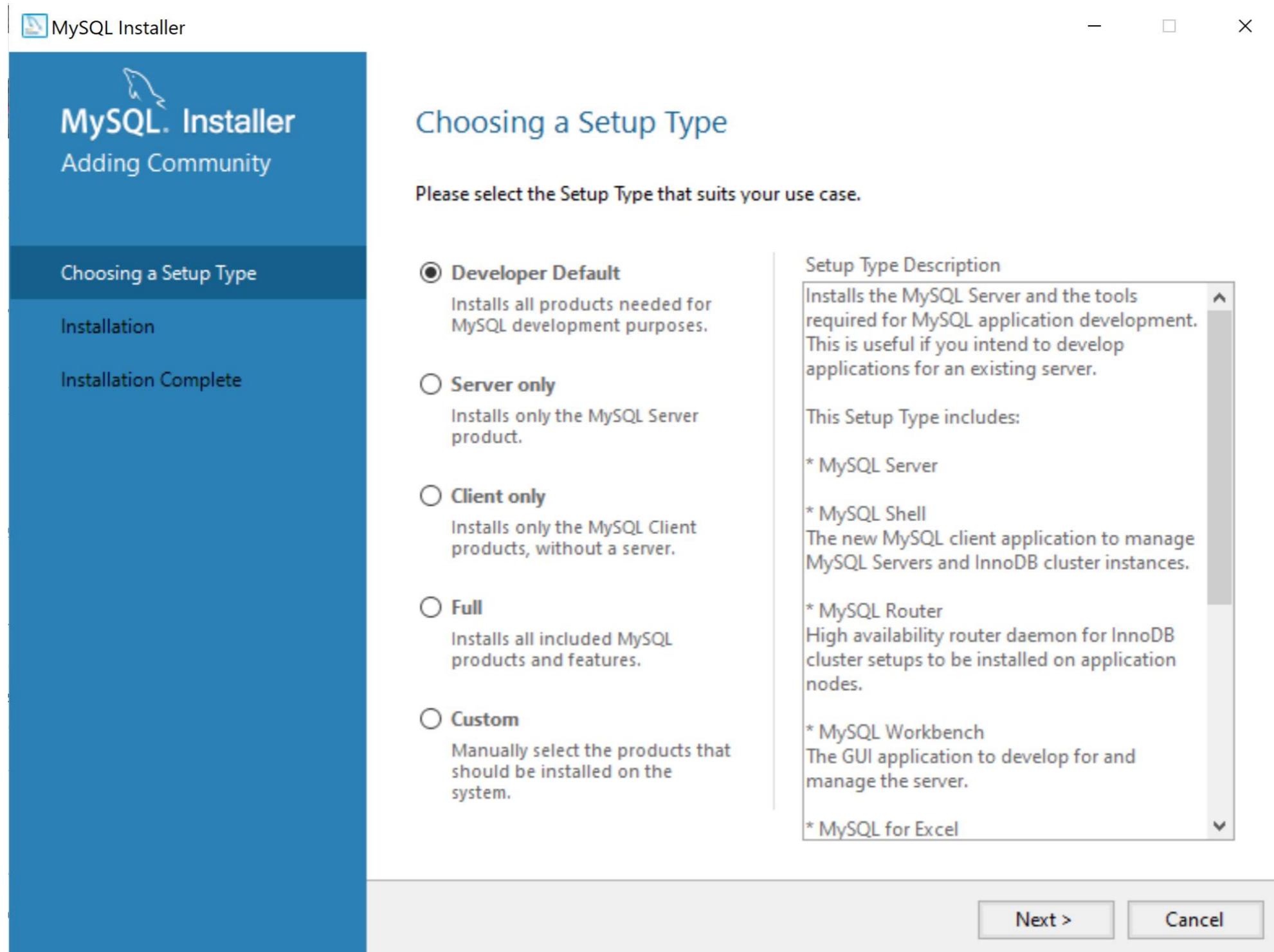
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Operating System	Version	Size	Action
Windows (x86, 32-bit), MSI Installer	8.0.19	18.6M	Download
Windows (x86, 32-bit), MSI Installer	8.0.19	398.9M	Download

A red arrow points from the 'Windows (x86, 32-bit), MSI Installer' (398.9M) download link to the warning message at the bottom of the page: 'We suggest that you use the MD5 checksums and GnuPG signatures to verify the integrity of the packages you download.'

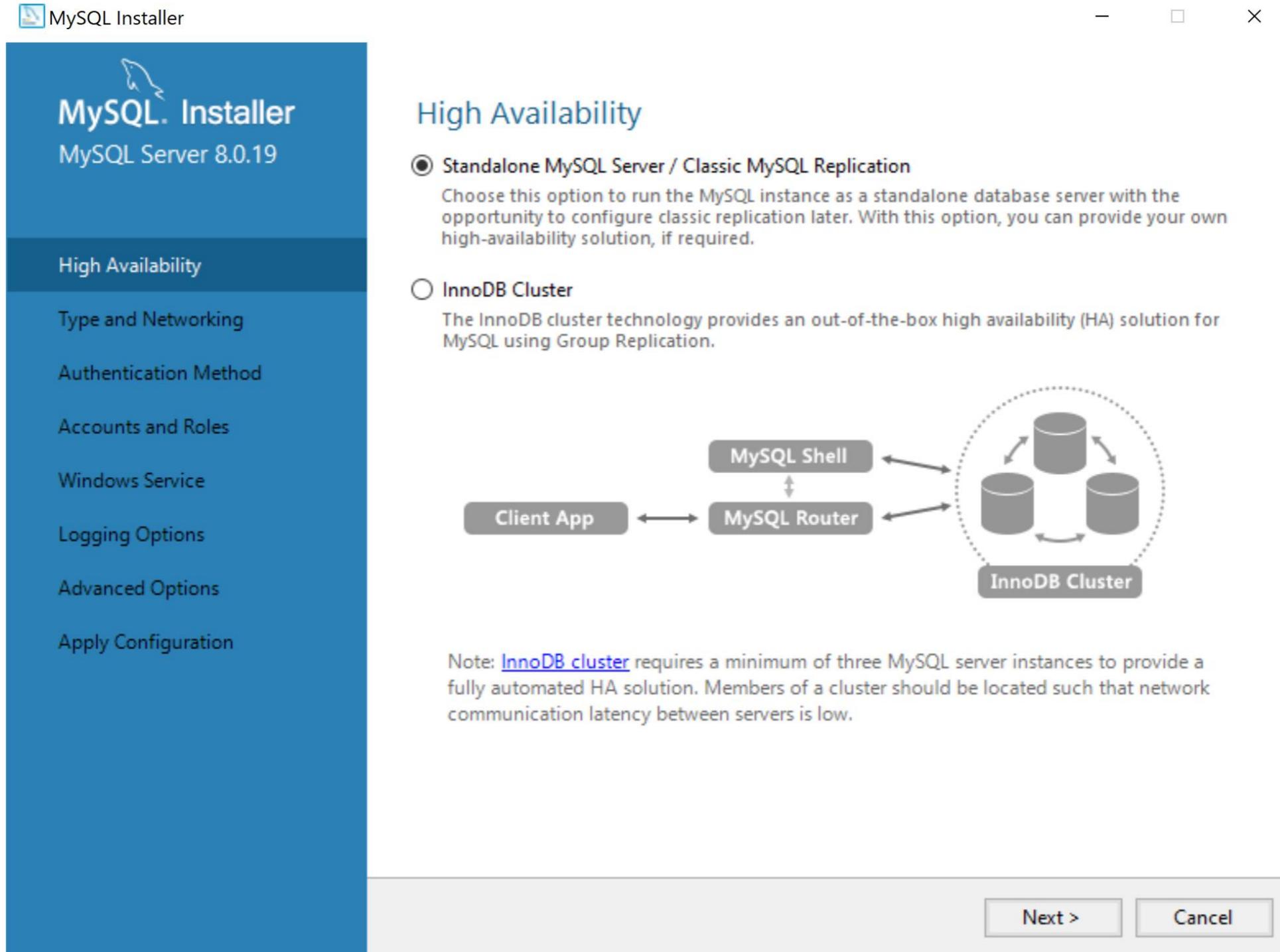
# Installazione su Windows

## 3. Installare la versione "Developer Default"



# Installazione su Windows

4. Selezionare la voce “Standalone MySQL Server / Classic MySQL Replication”



The screenshot shows the MySQL Installer window for MySQL Server 8.0.19. The left sidebar contains a list of configuration steps: High Availability (selected), Type and Networking, Authentication Method, Accounts and Roles, Windows Service, Logging Options, Advanced Options, and Apply Configuration. The main content area is titled "High Availability" and features two radio button options:

- 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 solution, if required.
- InnoDB Cluster**  
The InnoDB cluster technology provides an out-of-the-box high availability (HA) solution for MySQL using Group Replication.

Below the options is a diagram illustrating the InnoDB Cluster architecture. It shows a "Client App" connected to a "MySQL Router", which in turn connects to a "MySQL Shell" and an "InnoDB Cluster". The "InnoDB Cluster" is represented by three database instances within a dashed circle, with bidirectional arrows indicating replication between them.

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.

At the bottom right of the window, there are "Next >" and "Cancel" buttons.

# Installazione su Windows

5. Configurare il server. Questi dovrebbero essere i parametri di default.

The screenshot shows the MySQL Installer window for MySQL Server 8.0.19. The left sidebar contains the following navigation options: High Availability, Type and Networking (selected), Authentication Method, Accounts and Roles, Windows Service, and Apply Configuration. The main content area is titled 'Type and Networking' and includes the following sections:

- Server Configuration Type:** A dropdown menu is set to 'Development Computer'. Below it is the instruction: 'Choose the correct server configuration type for this MySQL Server installation. This setting will define how much system resources are assigned to the MySQL Server instance.'
- Connectivity:** A section with the instruction: 'Use the following controls to select how you would like to connect to this server.'
  - 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.'
  - Show Advanced and Logging Options

At the bottom right, there are three buttons: '< Back', 'Next >' (highlighted with a blue border), and 'Cancel'.

# Installazione su Ubuntu / Linux

1. Scaricare l'installer da <https://dev.mysql.com/downloads/mysql/>

**General Availability (GA) Releases** Archives

## MySQL Community Server 8.0.19

Select Operating System:  
Ubuntu Linux

Select OS Version:  
Linux - Generic (glibc 2.12) (x86, 64-bit)

Looking for previous GA versions?

### Install Using APT:

#### MySQL APT Repository

Supported Platforms:

- Debian
- Ubuntu

Download Now »

#### Download Packages:

Package Name	Version	Size	Action
Ubuntu Linux 19.10 (x86, 64-bit), DEB Bundle (mysql-server_8.0.19-1ubuntu19.10_amd64.deb-bundle.tar)	8.0.19	250.6M	Download
Ubuntu Linux 19.10 (x86, 64-bit), DEB Package (libmysqlclient21_8.0.19-1ubuntu19.10_amd64.deb)	8.0.19	1.3M	Download
Ubuntu Linux 19.10 (x86, 64-bit), DEB Package	8.0.19	3.3M	Download

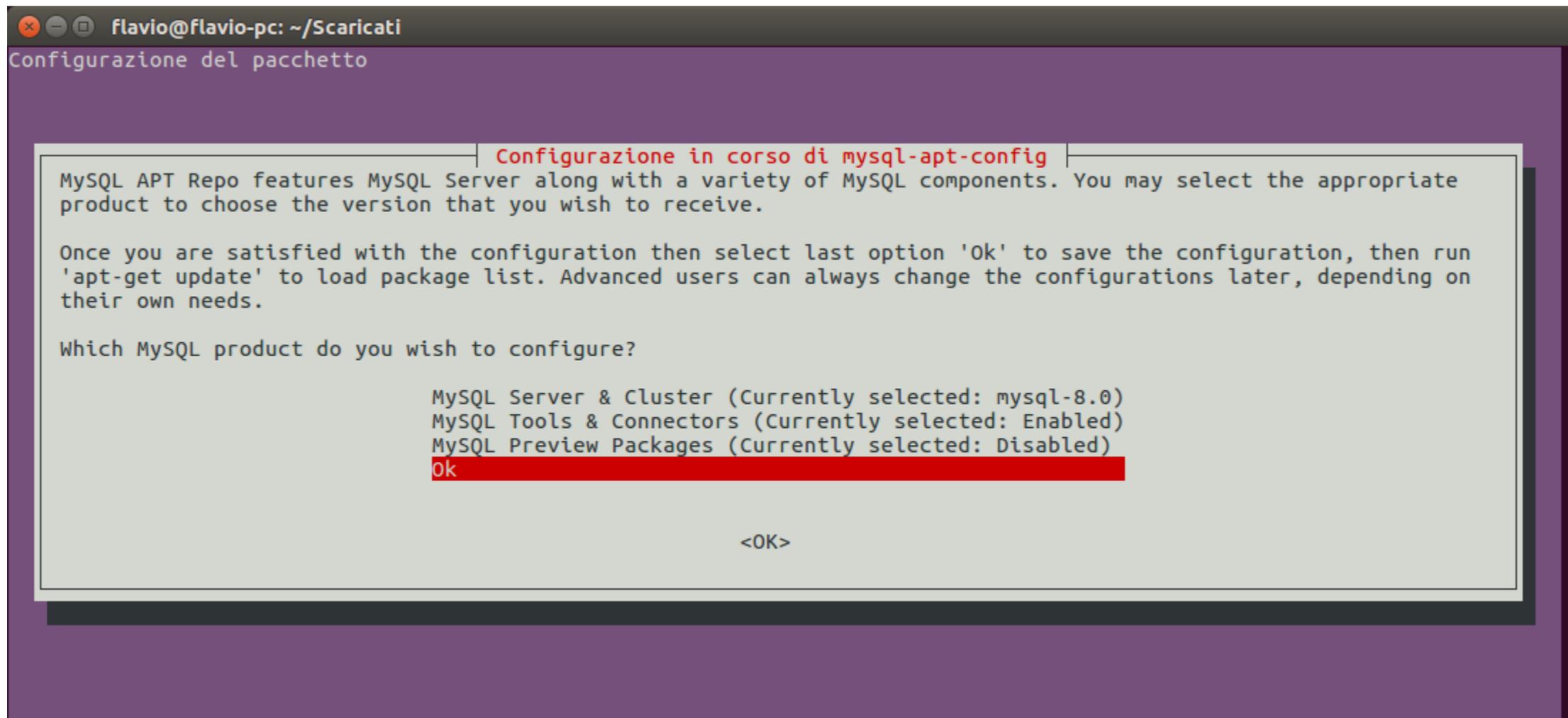
**Repository Setup Packages**

Package Name	Size	Action
Ubuntu / Debian (Architecture Independent), DEB Package (mysql-apt-config_0.8.15-1_all.deb)	34.7K	Download

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

# Installazione su Ubuntu / Linux

2. Aprire un terminal. Portarsi nella cartella dove è stato caricato il file e digitare  
`sudo dpkg -i mysql-apt-config_0.8.15-1_all.deb`
3. Selezionare Ok



```
flavio@flavio-pc: ~/Scaricati
Configurazione del pacchetto

Configurazione in corso di mysql-apt-config
MySQL APT Repo features MySQL Server along with a variety of MySQL components. You may select the appropriate
product to choose the version that you wish to receive.

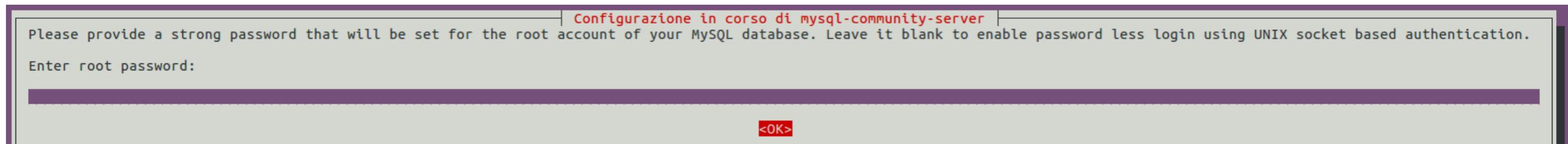
Once you are satisfied with the configuration then select last option 'Ok' to save the configuration, then run
'apt-get update' to load package list. Advanced users can always change the configurations later, depending on
their own needs.

Which MySQL product do you wish to configure?

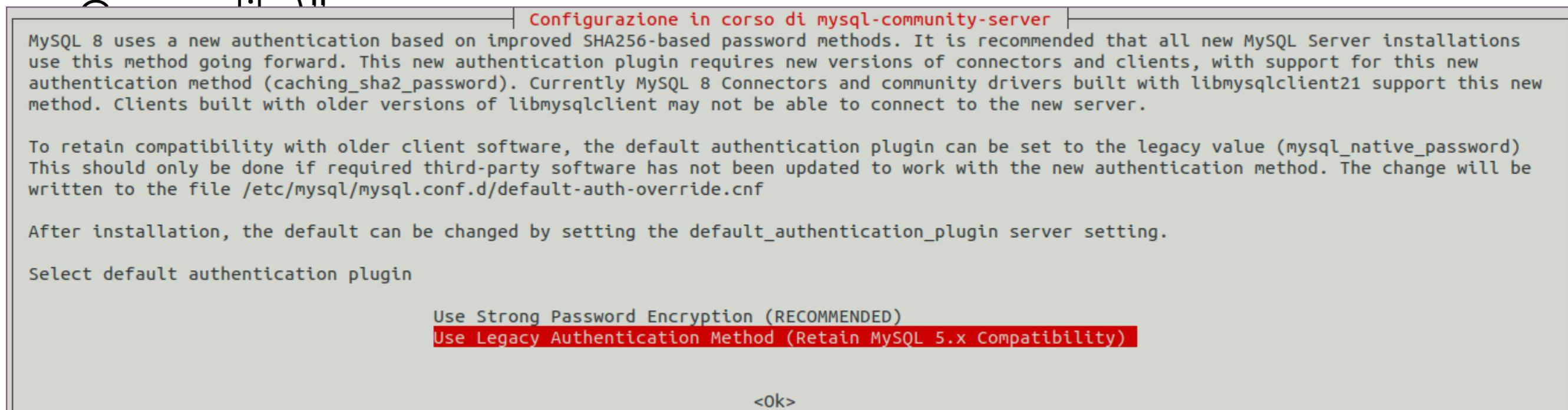
MySQL Server & Cluster (Currently selected: mysql-8.0)
MySQL Tools & Connectors (Currently selected: Enabled)
MySQL Preview Packages (Currently selected: Disabled)
Ok
<OK>
```

# Installazione su Ubuntu / Linux

4. Aggiornare la lista dei pacchetti disponibili al sistema
  - `sudo apt-get update`
5. Installare mysql server
  - `sudo apt -y install mysql-server`
6. Inserire una password



7. Selezionare "Use Legacy AuthenticationMethod (Retain MySQL 5.x



# Installazione su Ubuntu / Linux

8. Aprire un terminal e verificare che la connessione a mysql funzioni (chiede pwd)
  - `mysql -u root -p`
9. Scaricare mysql-workbench da
  - <https://dev.mysql.com/downloads/workbench/>
10. Installare il pacchetto scaricato
  - `sudo dpkg -i mysql-workbench-community_8.0.19-1ubuntu18.04_amd64.de`
11. Aggiornare la lista dei pacchetti disponibili al sistema
  - `sudo apt-get update`
12. Installare mysql-workbench
  - `sudo apt-get install mysql-workbench-community`