



Devart ODBC Drivers

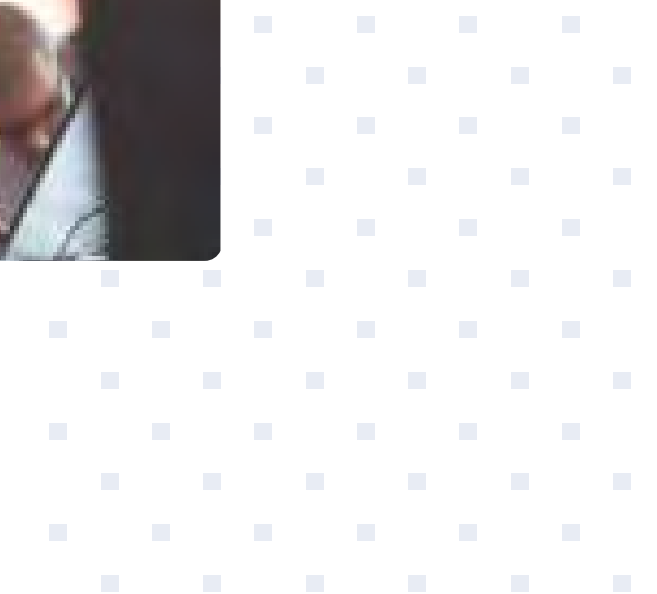
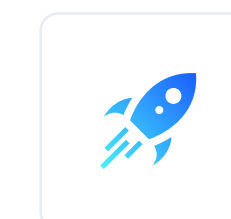
# Reliable and simple to use data connectors

ODBC 3.52 Compliant Driver | Verified Compatibility with 3d Party Tools | Standard ODBC API Functions Support

# About Us

Devart is a software development company that specializes in creating database management and data connectivity tools for developers. We offer a wide range of products for Windows, macOS, and Linux, and for various databases, such as MySQL, Oracle, SQL Server, and more.

Some of our popular data connectivity products include ODBC Drivers, Delphi Data Access Components, ADO.NET providers for various databases and clouds, SQL Server Integration Services and Excel Add-ins. The company was founded in 1997 and is based in Prague, Czech Republic.



## About ODBC Drivers

Devart ODBC Drivers are cost-effective data integration tools for developers and data analysts that helps quickly and easily solve business challenges related to data access.

Devart's ODBC connectors are an optimal variant to access databases with native protocol directly without using additional client software and access cloud data sources via HTTPS.

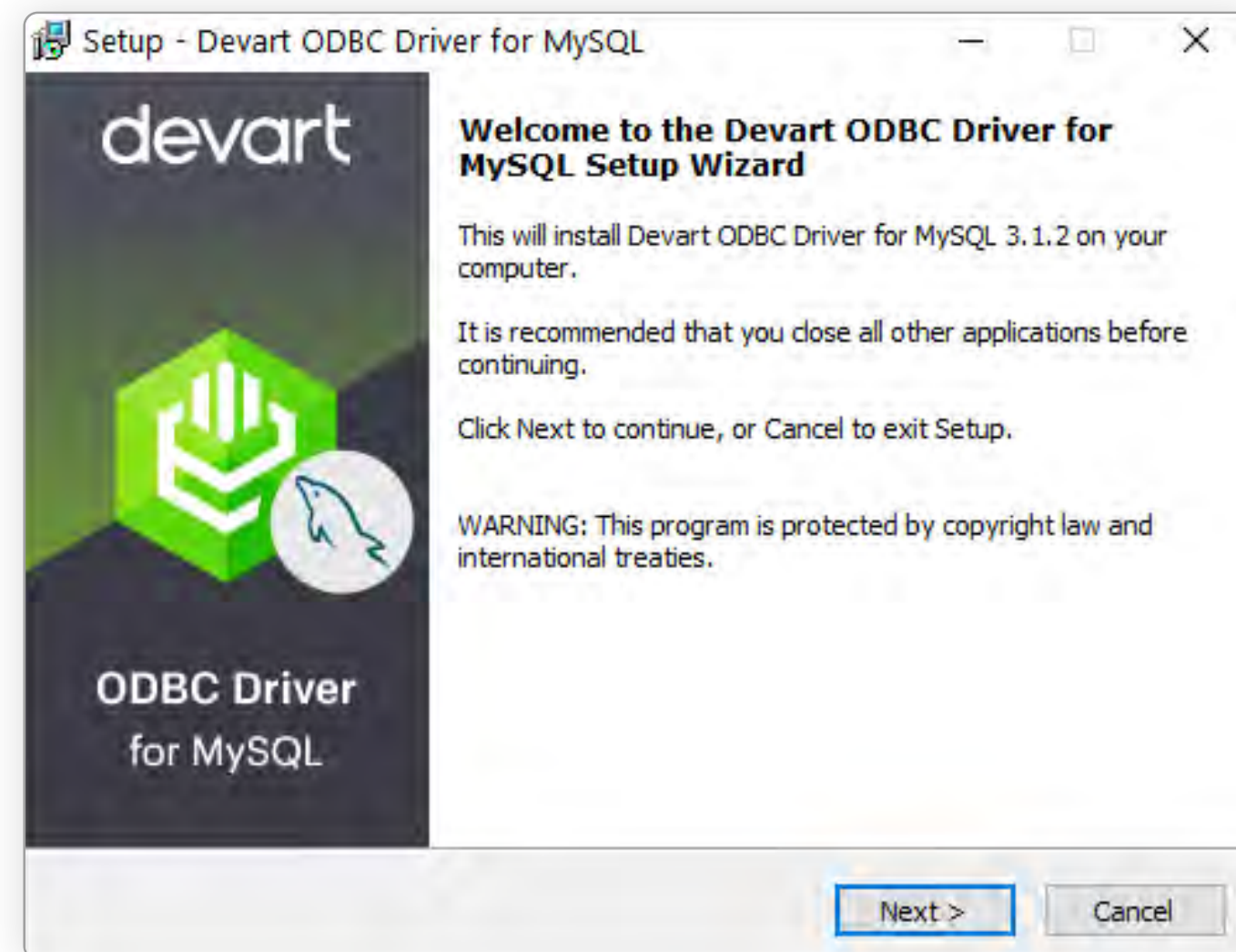
### **Devart ODBC Drivers offer advanced features:**

- ✓ Verified compatibility with multiple integration tools
- ✓ Simple install for multiple computers
- ✓ Easy access to live data from anywhere
- ✓ OAuth 2.0 Support

# Getting Started: Installation (on the example of ODBC Driver for MySQL)

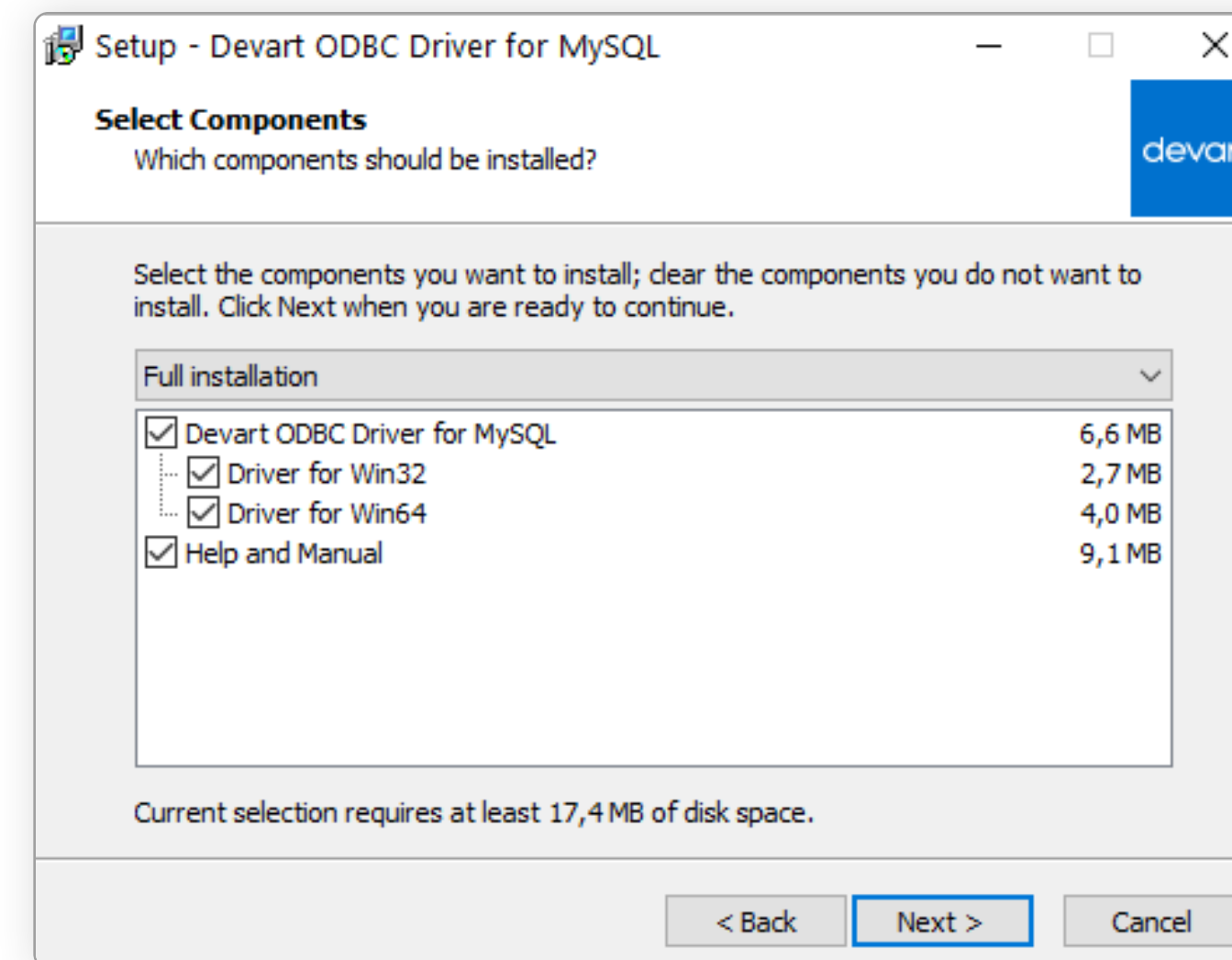
## Install the connector on Windows

1. [Download](#) and run the installer.
2. Follow the instructions in the wizard.



3. In case if you already have the specified installation folder on the PC or another Driver version is installed, you will get a warning. Click **Yes** to overwrite the old files with the current installation, but it is recommended to completely uninstall the previous driver version first, and then install the new one.

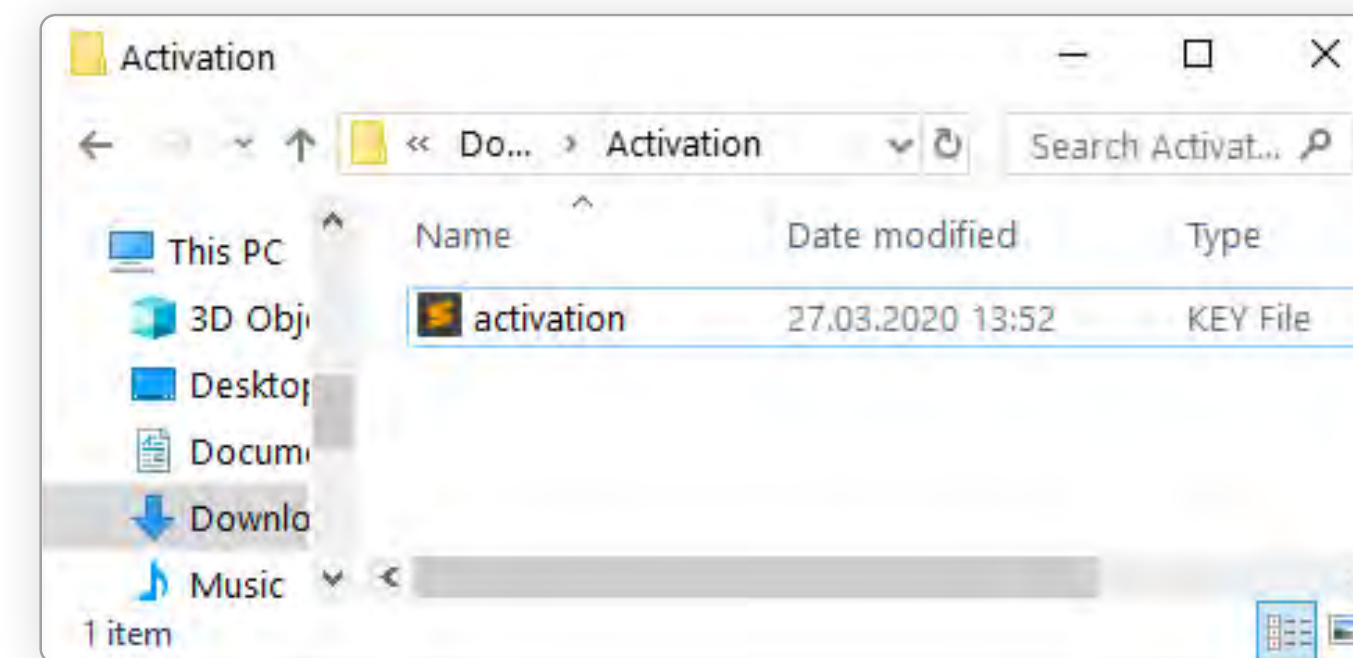
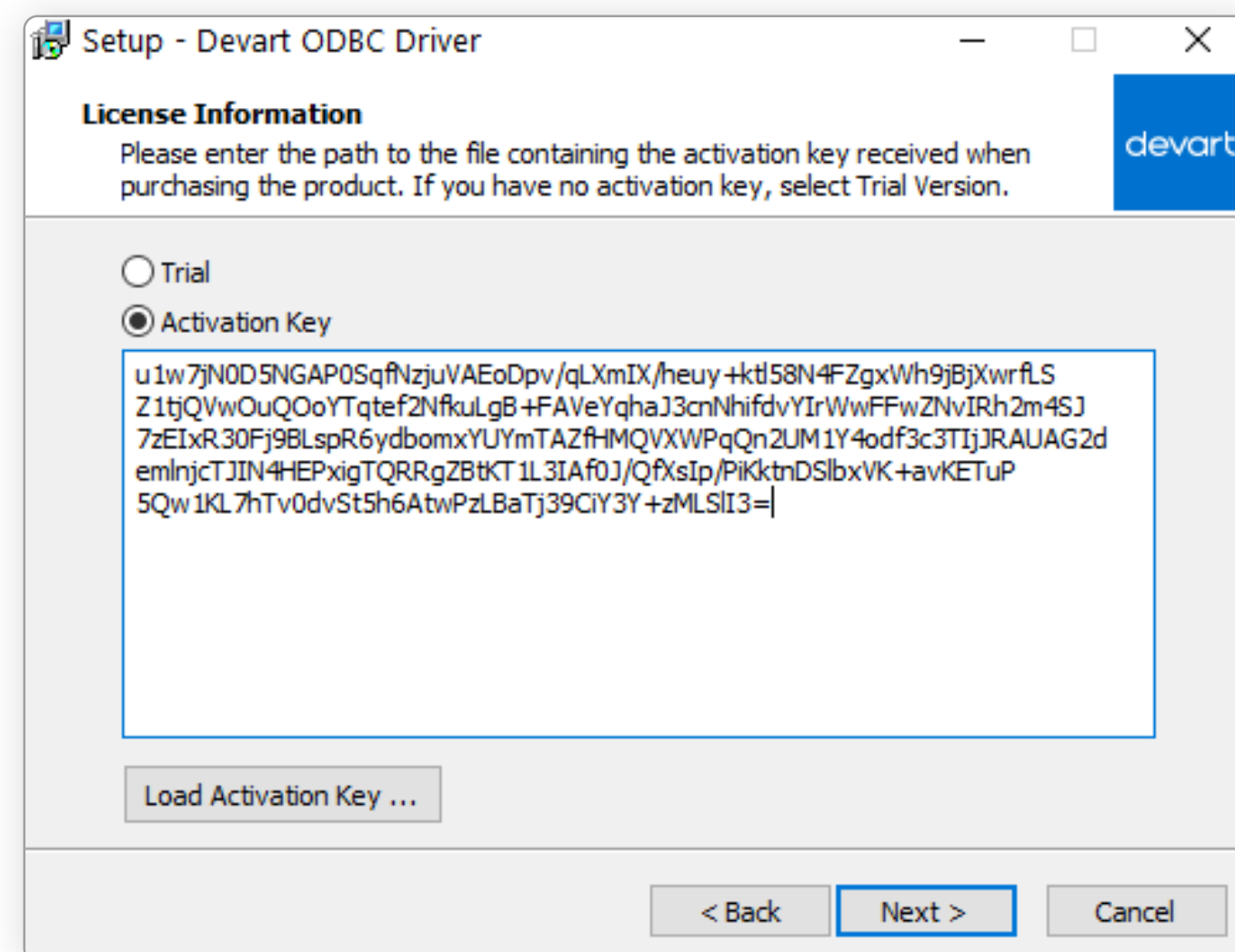
4. On the Select Components page you can select whether to install the **64-bit** version of the driver or not. Clear the check box if you need no 64-bit installation. There is also a check box on this page, that allows you to select whether to install Help and Manual.



# Getting Started: Installation

## Install the connector on Windows

5. In the License Information dialog box, you should select the license type and activate the product. If you have no activation key, you can select Trial and use the driver for evaluation purposes.
6. If you have an activation key, select the Activation Key option. Copy the activation key from the registration email or your Customer Portal account and paste it into the Activation Key edit box.
7. If you have the activation key file, click the Load Activation Key button and browse to it.



8. Click Next.
9. Click Install, then Finish.
10. After the installation is completed, you need to [configure the driver](#).

# Getting Started: Installation

## Install the connector on Linux DEB

### PREREQUISITES

ODBC Driver for MySQL works under control of an ODBC driver manager. ODBC driver manager is not distributed along with our driver and must be installed separately.

[ODBC Driver for MySQL](#) is compatible with [UnixODBC](#) driver manager. You can install the unixODBC driver manager using the command below:

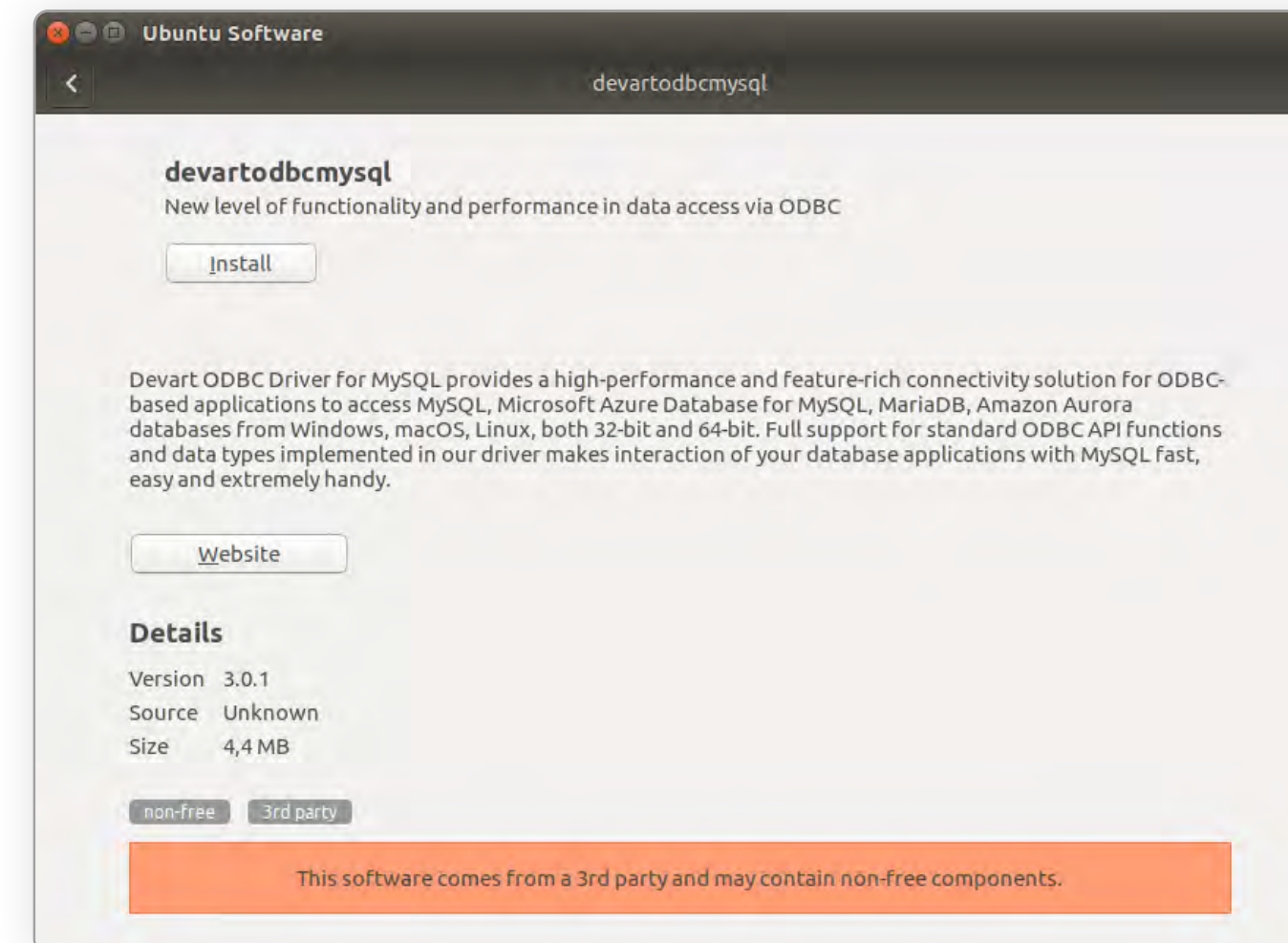
```
sudo apt-get install odbcinst1debian2 libodbc1 odbcinst unixodbc
```

### INSTALLATION

Let's consider how to install the Devart ODBC driver on Linux from a DEB package, for example, on Ubuntu. There are two ways to install the driver either manually or via the command line.

### GUI installation

1. [Download](#) the DEB package of the required bitness from the Devart website.
2. Navigate to the folder with the downloaded package ("Downloads" by default) and double-click it.
3. In the opened dialog, click the **Install** button.



4. If the installation is successfully completed, the Install button changes into the Remove one.

# Getting Started: Installation

## Install the connector on Linux DEB

### Command-line installation

1. [Download](#) the DEB package from the Devart website.  
By default the required package will be downloaded into the ~/Downloads folder (or the selected one);
2. Run the 'Terminal' program;
3. Navigate to the folder with the downloaded package `cd ~/Downloads` (if you downloaded the package into another folder, you need to specify the path to this folder as the `cd` command parameter):

```
cd ~/Downloads/
```

```
test@ubuntu:~$ cd ~/Downloads/  
test@ubuntu:~/Downloads$
```

4. To install the `devartodbcmysql_i386.deb` on a 32-bit system, use the following command:

```
sudo dpkg -i devartodbcmysql_i386.deb
```

```
test@ubuntu:~$ cd ~/Downloads/  
test@ubuntu:~/Downloads$ sudo dpkg -i devartodbcmysql_i386.deb
```

5. To install the `devartodbcmysql_amd64.deb` on a 64-bit system, use the following command:

```
sudo dpkg -i devartodbcmysql_amd64.deb
```

```
test@ubuntu:~$ cd ~/Downloads/  
test@ubuntu:~/Downloads$ sudo dpkg -i devartodbcmysql_amd64.deb
```

6. Driver is installed successfully.

```
test@ubuntu:~$ cd ~/Downloads/  
test@ubuntu:~/Downloads$ sudo dpkg -i devartodbcbase_i386.deb  
[sudo] password for test:  
Selecting previously unselected package devartodbcbase.  
(Reading database ... 238032 files and directories currently installed.)  
Preparing to unpack devartodbcbase_i386.deb ...  
Unpacking devartodbcbase (2.0.1) ...  
Setting up devartodbcbase (2.0.1) ...  
test@ubuntu:~/Downloads$
```

To activate the driver, perform the steps described in the [Product Activation](#) article.

# Getting Started: Installation

## Install the connector on Linux RPM

### PREREQUISITES

[ODBC Driver for MySQL](#) works under control of an ODBC driver manager. ODBC driver manager is not distributed along with our driver and must be installed separately.

ODBC Driver for MySQL is compatible with [UnixODBC](#) driver manager.

In case when using other ODBC driver managers, ODBC Driver for MySQL will be installed, but it will require manual modification of configuration files of these managers.

### INSTALLATION

Let's consider how to install the Devart ODBC driver on Linux from an RPM package, for example, on CentOS. To install the driver, you should download the .rpm package and install it via the command line. See the detailed description of these steps below:

1. [Download](#) the RPM package from the Devart website. By default the required package will be downloaded into the ~/Downloads folder (or the selected one);
2. Run the 'Konsole' program;
3. Navigate to the folder with the downloaded package `cd ~/Downloads` (if you downloaded the package into another folder, you need to specify the path to this folder as the `cd` command parameter):

```
cd ~/Downloads/
```

```
[test@centos7x64 ~]$ cd ~/Downloads/  
[test@centos7x64 Downloads]$ █
```

4. To install the `devart-odbc-mysql.i386.rpm` on a 32-bit system, use the following command:

```
sudo rpm -ivh devart-odbc-mysql.i386.rpm
```

```
[test@localhost ~]$ sudo rpm -ivh devart-odbc-mysql.i386.rpm
```

To install the `devart-odbc-mysql.x86_64.rpm` on a 64-bit system, use the following command:

```
sudo rpm -ivh devart-odbc-mysql.x86_64.rpm
```

```
[test@centos7x64 ~]$ cd ~/Downloads/  
[test@centos7x64 Downloads]$ sudo rpm -ivh devart-odbc-mysql.x86_64.rpm █
```

5. Driver is installed successfully.

```
[test@centos7x64 ~]$ cd ~/Downloads/  
[test@centos7x64 Downloads]$ sudo rpm -ivh devart-odbc-mysql.x86_64.rpm  
[sudo] password for test:  
Preparing... ##### [100%]  
Updating / installing..  
 1:devart-odbc-mysql-3.0.1-1 ##### [100%]  
[test@centos7x64 Downloads]$ █
```

To activate the driver, perform the steps described in the [Product Activation](#) article.



# Getting Started: Installation

## Install the connector on macOS

### PREREQUISITES

ODBC Driver for MySQL works under control of an ODBC driver manager. ODBC driver manager is not distributed along with our driver and must be installed separately.

[ODBC Driver for MySQL](#) is compatible with [iODBC](#) driver manager.

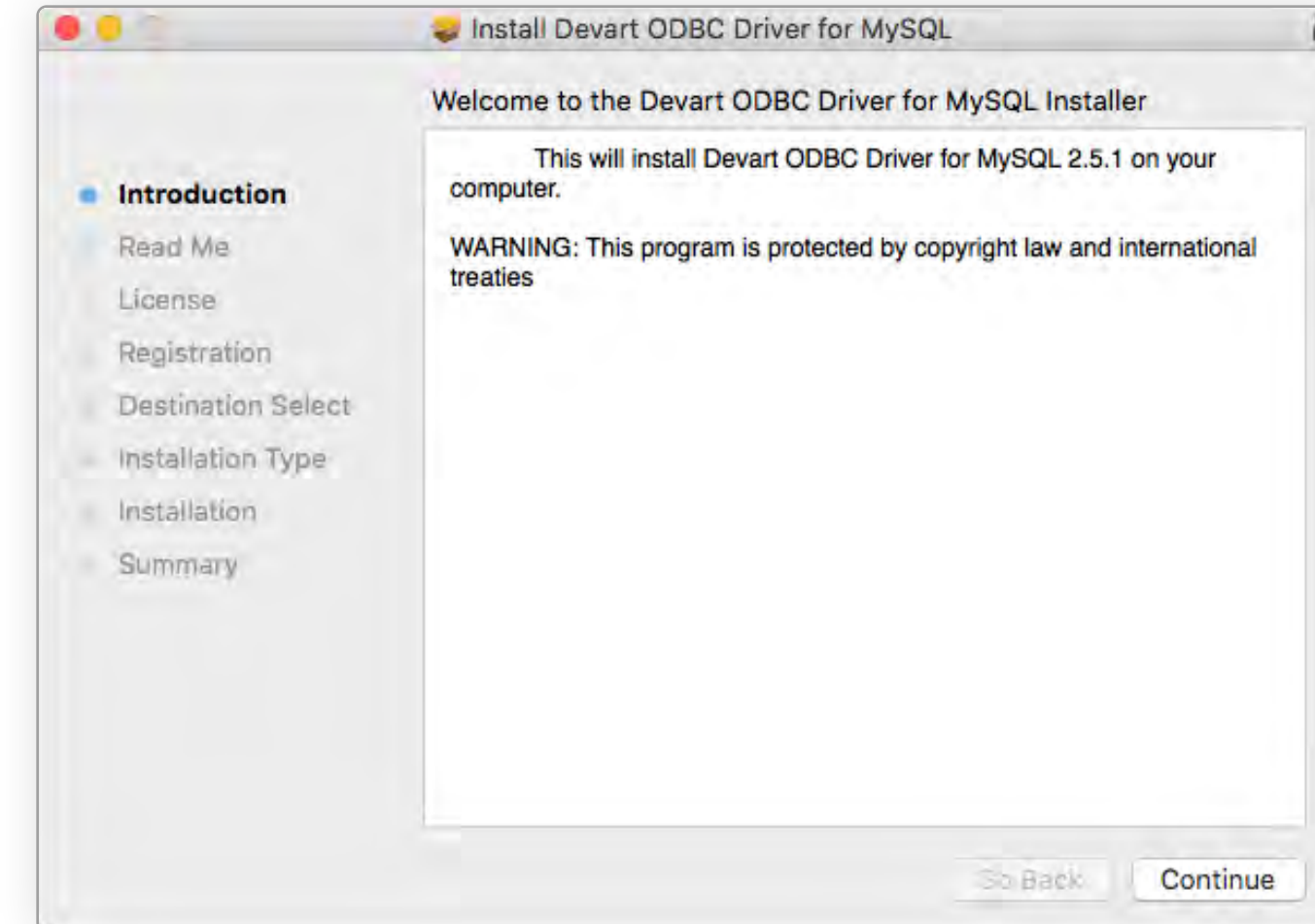
In case when using other ODBC driver managers, ODBC Driver for MySQL will be installed, but it will require manual modification of configuration files of these managers.

### INSTALLATION

1. Go to Security & Privacy settings in the System Preferences.
2. Enable the *App Store and identified developers* option in the **Allows apps downloaded from** section.
3. [Download](#) the PKG file from the Devart website.
4. Run the downloaded file, press the Allow button to proceed with the installation.



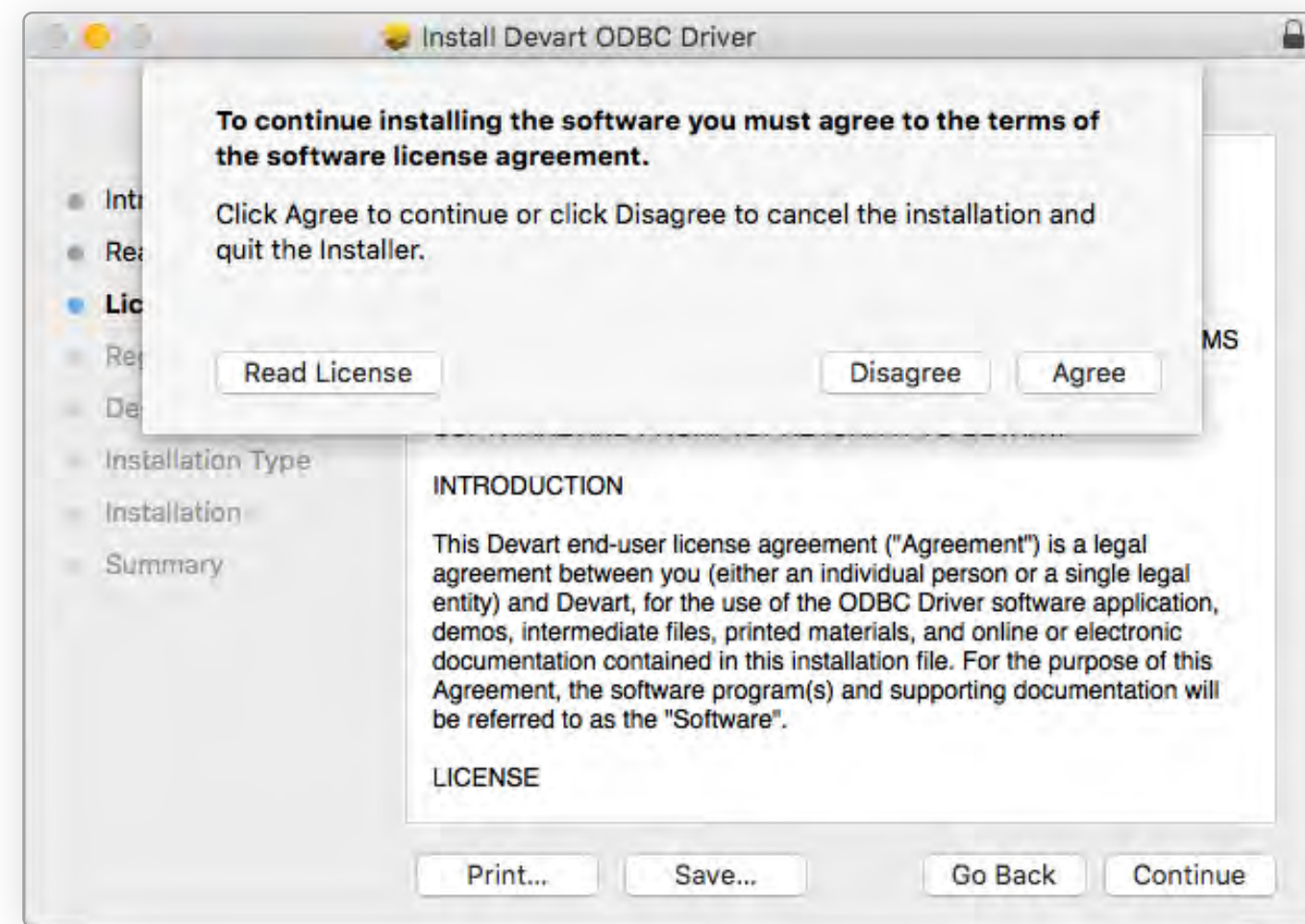
**Note:** If the options in **Allow apps downloaded from** section are grayed out, click on the lock icon and enter your administrator password to proceed with the installation.



# Getting Started: Installation

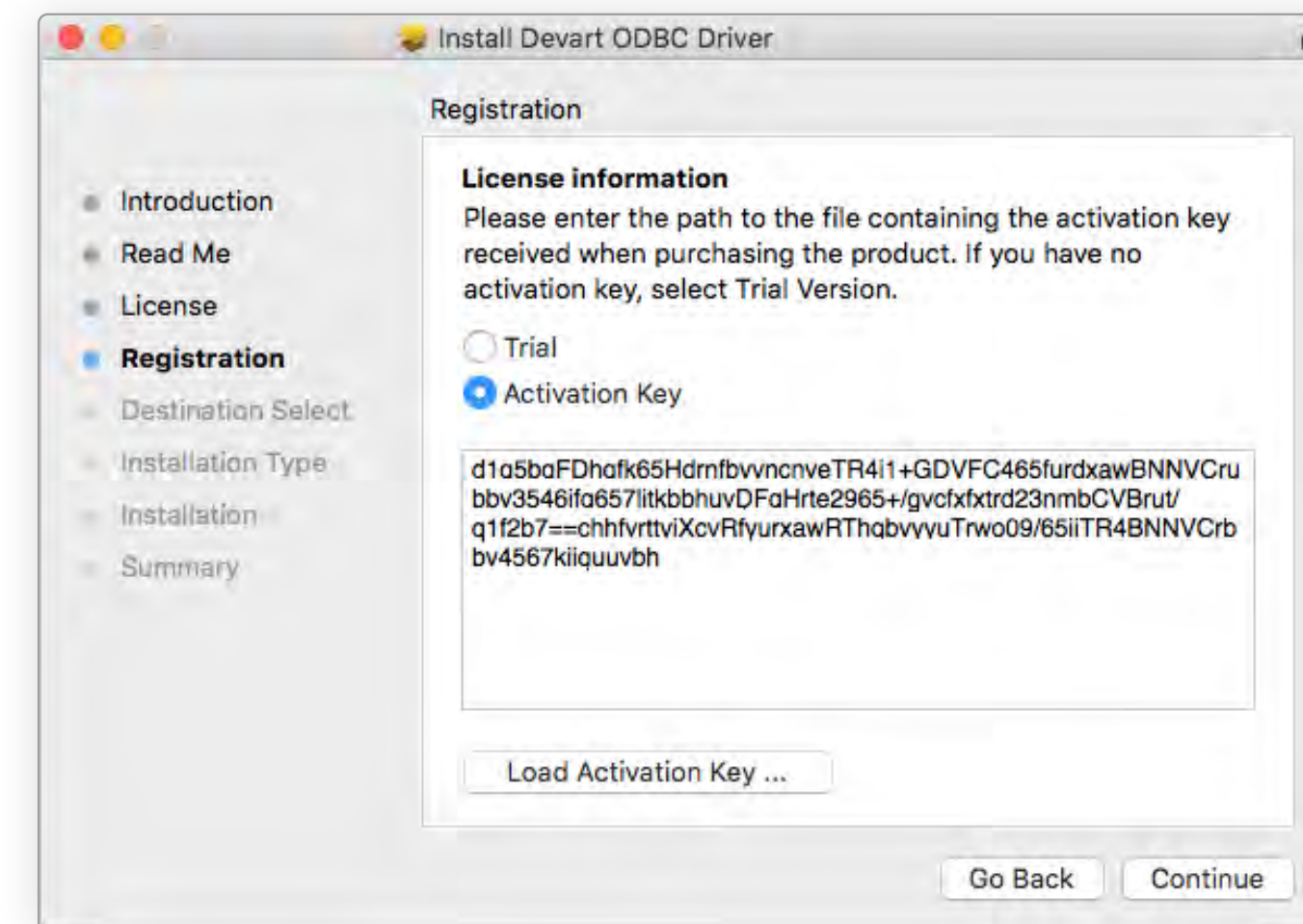
## Install the connector on macOS

5. After reading the license agreement, click Agree.



6. In the License Information dialog box, you should select the license type and activate the product. If you have no activation key, you can select Trial and use the driver for evaluation purposes.

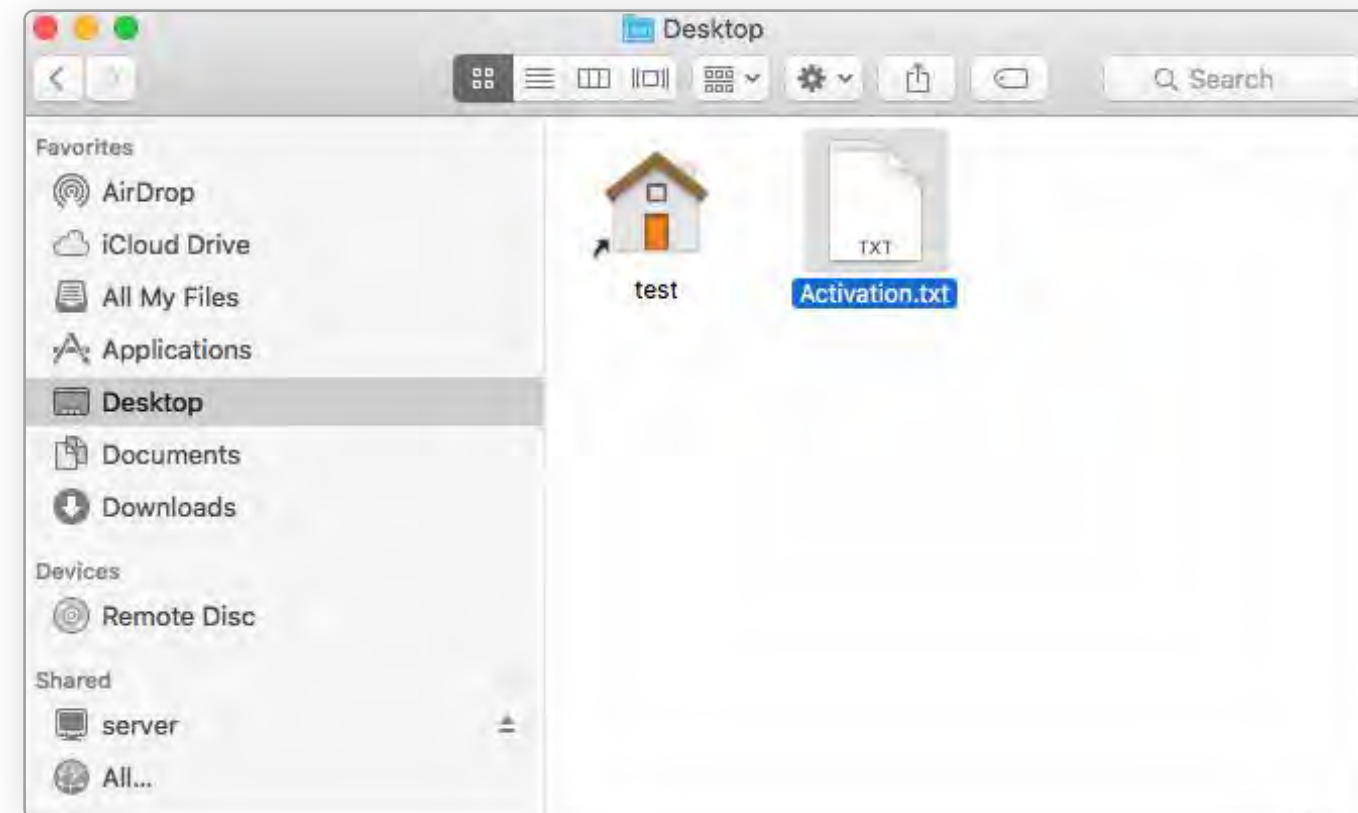
7. If you have an activation key, select the Activation Key option. Copy the activation key from the registration email or your Customer Portal account and paste it into the Activation Key edit box.



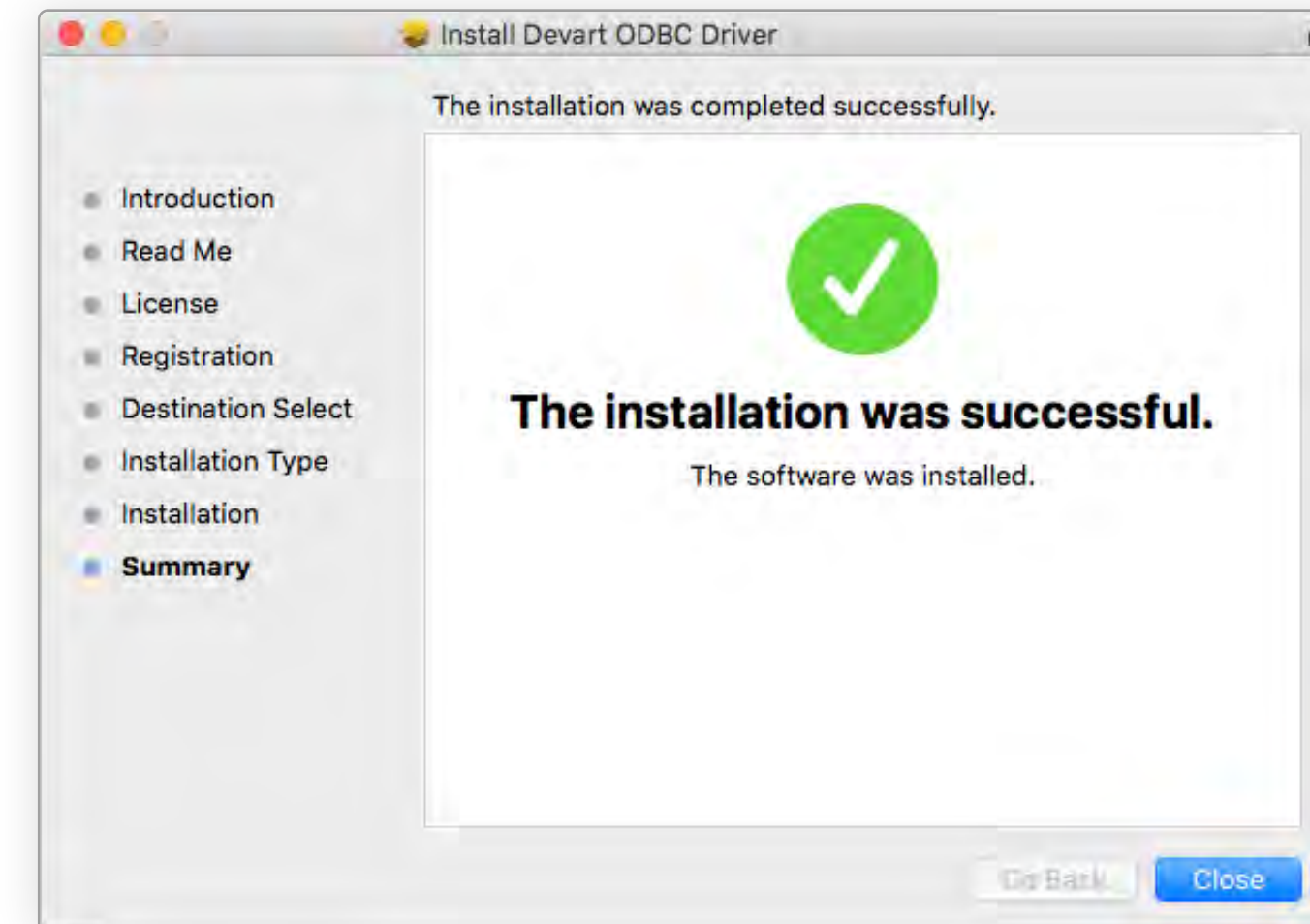
# Getting Started: Installation

## Install the connector on macOS

8. If you have the activation key file, click the Load Activation Key button and browse to it.



9. To complete the installation click Continue, then Install buttons.



To activate the driver, perform the steps described in the [Product Activation](#) article.

# Enabling ODBC Tracing

## Creating an ODBC Trace Log on Windows

When you start or stop tracing in the 64-bit ODBC Administrator, the tracing is also enabled or disabled in the 32-bit ODBC Administrator, and vice versa.

If the ODBC client application you need to trace runs under Local System account or any other user login than your own, select **Machine-Wide tracing for all user identities**

For example, this option may be necessary for SSMS.

To generate a trace file using ODBC Source Administrator on Windows, follow the steps below.

1. Type **ODBC Data Sources** in the Windows 10 search box (in earlier versions of Windows, open **Control Panel** > **Administrative Tools**) and choose the application of the needed bitness.
2. Select the **Tracing** tab.
3. If necessary, change the default **Log File Path**. Make sure that the path is writable by the application, then click **Apply**
4. Click **Start Tracing Now**.
5. Restart all application processes.
6. Click **Test Connection** in the DSN settings to make sure the driver is able to connect.
7. Reproduce the issue.
8. Click **Stop Tracing Now** on the **Tracing** tab.
9. Send us the obtained log file (for example, devart.log).

## Creating an ODBC Trace Log on macOS

To enable the trace option on macOS, use the Tracing tab within ODBC Administrator.

1. Open the ODBC Administrator.
2. Select the **Tracing** tab.
3. If necessary, change the default **Log file path**.
4. Select **All the time** in the **When to trace** option.

## Creating an ODBC Trace Log on Linux

To trace the ODBC calls on Linux, set the **Trace** and **TraceFile** keyword/value pairs in the **[ODBC]** section of the **/etc/odbcinst.ini** file, for example:

```
[ODBC]
Trace=Yes
TraceFile=/home/test/devart.log
```

Make sure to disable logging after obtaining a log file since it affects the read/write speed.

# Data Type Mapping

The Devart ODBC Driver for MySQL supports all MySQL data types. The following table describes how the MySQL data types are mapped to the ODBC data types.

MySQL Data Types	ODBC Data Types	MySQL Data Types	ODBC Data Types
DECIMAL, NEWDECIMAL	SQL_DECIMAL	DATETIME	SQL_TYPE_TIMESTAMP
BIT	SQL_INTEGER	YEAR	SQL_SMALLINT
TINY	SQL_TINYINT	VAR_STRING, VARCHAR	if is flagged as binary - SQL_VARBINARY else - SQL_VARCHAR
SHORT	SQL_SMALLINT	STRING	if is flagged as binary - SQL_BINARY else - SQL_CHAR
INT24	SQL_INTEGER	NULL	SQL_VARCHAR
LONG	SQL_INTEGER	ENUM	SQL_CHAR
LONGLONG	SQL_BIGINT	SET	SQL_CHAR
FLOAT	SQL_REAL	TINY BLOB	if is flagged as binary - SQL_LONGVARBINARY else - SQL_LONGVARCHAR;
DOUBLE	SQL_DOUBLE	MEDIUM_BLOB	
TIMESTAMP	SQL_TYPE_TIMESTAMP	LONG_BLOB	
DATE, NEWDATE	SQL_TYPE_DATE	BLOB	
TIME	SQL_TYPE_TIME		



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