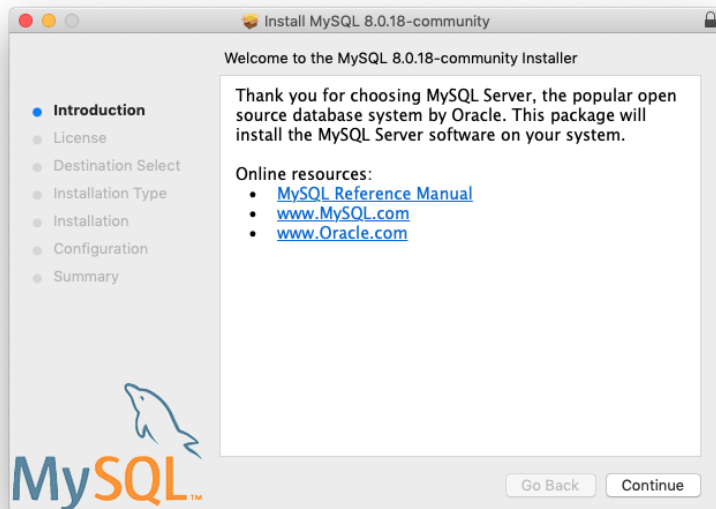
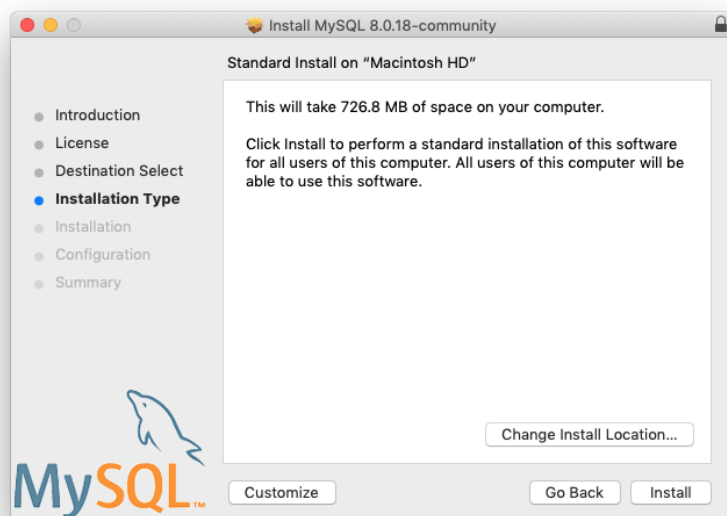


Installing MySQL Community Server 8.0.18 with Document Store

1. Download and install MySQL Community Server 8.0.18 for macOS (x86, 64-bit), DMG Archive from <https://dev.mysql.com/downloads/mysql/>
2. Launch the .dmg and start the installer .pkg
3. Click 'Continue' > 'Continue' > 'Agree'

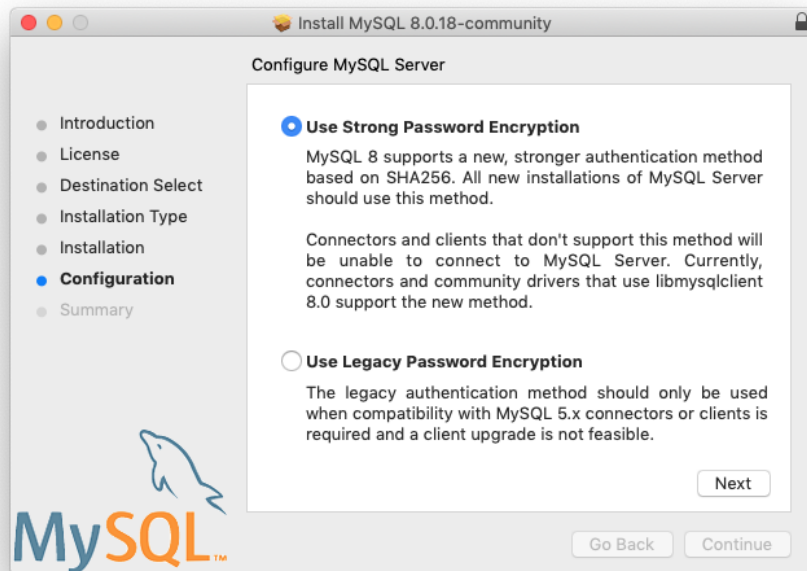


4. Click 'Install' then enter your password to begin installation.



5. Configuration:

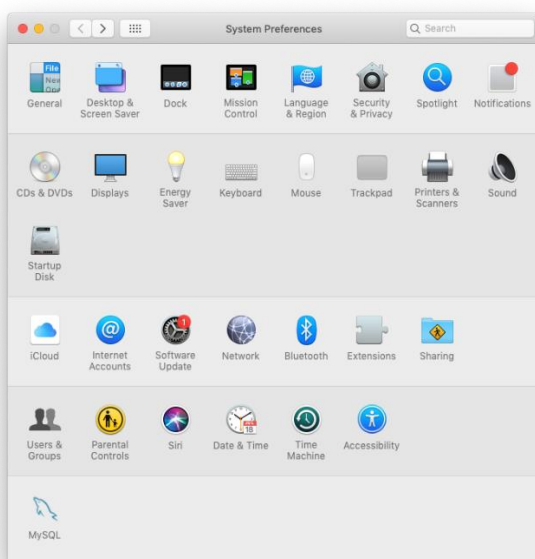
Passwords: Use strong password encryption, then click 'next'



Enter a password: You will need this password to connect to your database later - remember it!

Click 'next', then enter your password.

6. Close the installer, then go to 'System Preferences'. There should be a new icon at the bottom titled 'MySQL':



Click on it to get to view your MySQL instances and configuration control panels. You can go here to configure, start and stop your MySQL server. Make sure it is running now (green lights):



You have now installed MySQL at the location: `/usr/local/bin/mysql`

We are going to install a more advanced MySQL shell to test the document store.

7. Download the MySQL Shell .dmg from <https://dev.mysql.com/downloads/shell>

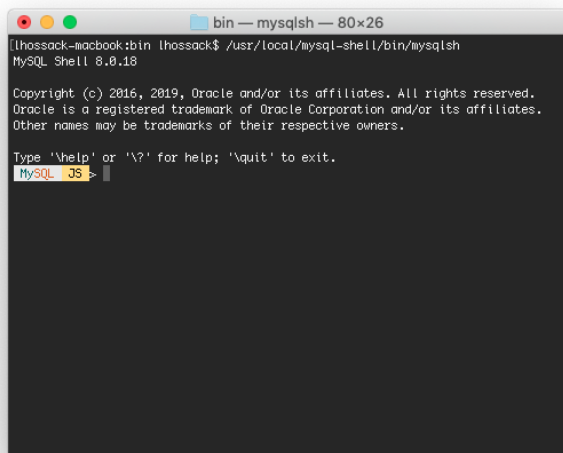
8. Launch the .dmg and start the .pkg.

9. Click 'Continue' > 'Continue' > 'Agree' > 'Install', then enter your password. Close the installer when complete. It will have installed to `/usr/local/`

10. Launch MySQL Shell by opening a terminal window and typing:

```
/usr/local/mysql-shell/bin/mysqlsh
```

Which should give you the following prompt:



11. Testing the document store from MySQL Shell:

To connect to your database server, type:

```
\connect root@localhost:33060
```

And then enter the password you designated.

Ensure that the line which says "Your MySQL Connection id is xx" contains the message "(X Protocol)":

```
MySQL localhost:3306 ssl JS > \connect root@localhost:33060
Creating a session to 'root@localhost:33060'
Fetching schema names for autocompletion... Press ^C to stop.
Closing old connection...
Your MySQL connection id is 15 (X protocol)
Server version: 8.0.18 MySQL Community Server - GPL
No default schema selected; type \use <schema> to set one.
```

You can now type the following (on separate lines):

```
\sql
```

```
CREATE DATABASE Test;
```

```
\use Test
```

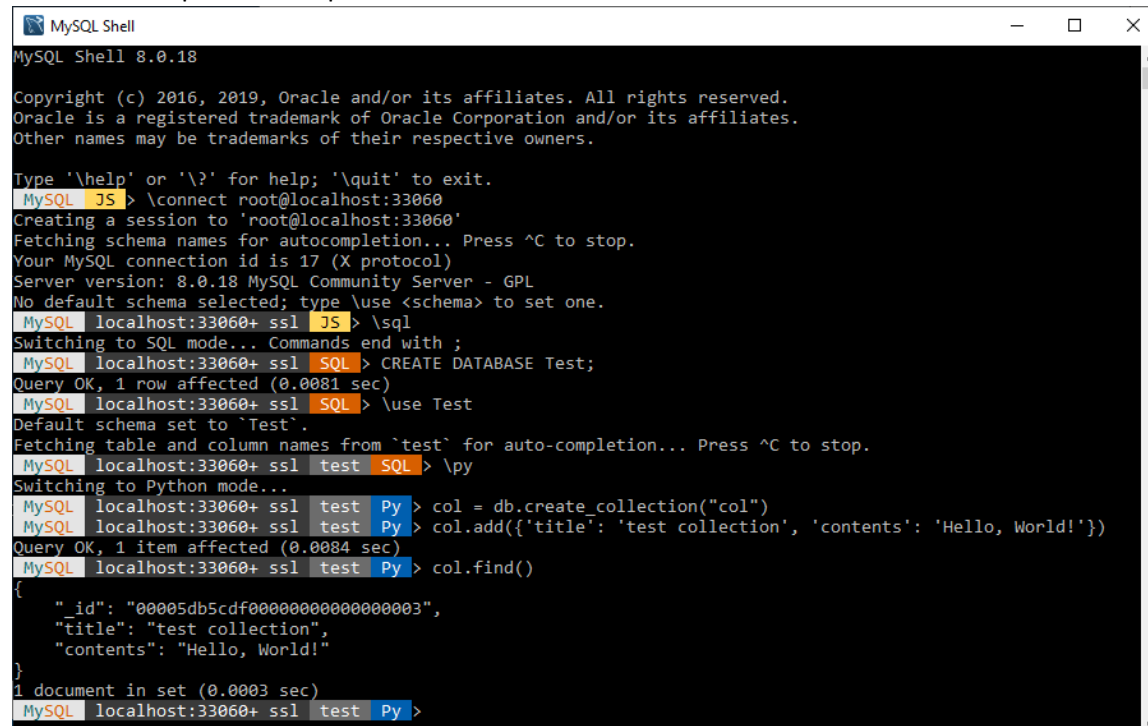
```
\py
```

```
col = db.create_collection("col")
```

```
col.add({'title': 'test collection', 'contents': 'Hello, World!'})
```

```
col.find()
```

Which should produce output like this:



```
MySQL Shell
MySQL Shell 8.0.18

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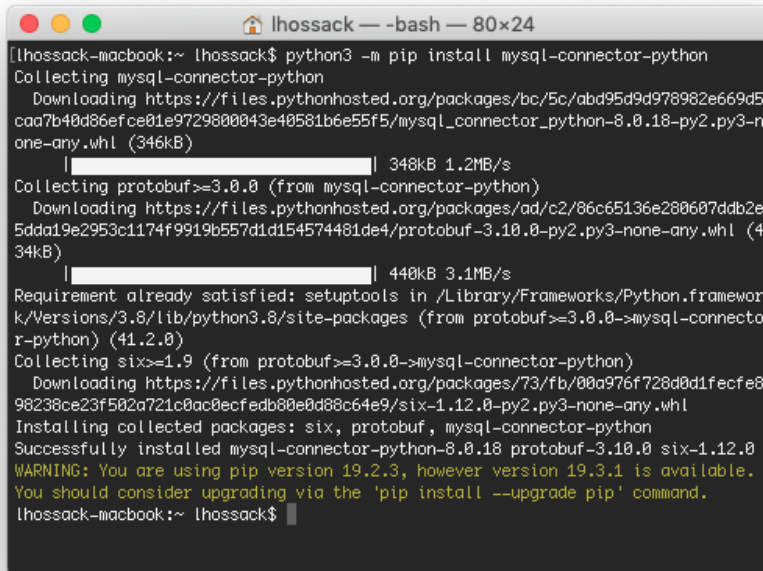
Type '\help' or '\?' for help; '\quit' to exit.
MySQL JS > \connect root@localhost:33060
Creating a session to 'root@localhost:33060'
Fetching schema names for autocompletion... Press ^C to stop.
Your MySQL connection id is 17 (X protocol)
Server version: 8.0.18 MySQL Community Server - GPL
No default schema selected; type \use <schema> to set one.
MySQL localhost:33060+ ssl JS > \sql
Switching to SQL mode... Commands end with ;
MySQL localhost:33060+ ssl SQL > CREATE DATABASE Test;
Query OK, 1 row affected (0.0081 sec)
MySQL localhost:33060+ ssl SQL > \use Test
Default schema set to `Test`.
Fetching table and column names from `test` for auto-completion... Press ^C to stop.
MySQL localhost:33060+ ssl test SQL > \py
Switching to Python mode...
MySQL localhost:33060+ ssl test Py > col = db.create_collection("col")
MySQL localhost:33060+ ssl test Py > col.add({'title': 'test collection', 'contents': 'Hello, World!'})
Query OK, 1 item affected (0.0084 sec)
MySQL localhost:33060+ ssl test Py > col.find()
{
  "id": "00005db5cdf000000000000000000003",
  "title": "test collection",
  "contents": "Hello, World!"
}
1 document in set (0.0003 sec)
MySQL localhost:33060+ ssl test Py >
```

If any of these commands returned errors, there may be an issue with your installation or configuration.

8. Installing the connector/python with pip.

Open a terminal window, and replace 'python3' with the python3 name in your path and run:

```
python3 -m pip install mysql-connector-python
```

A terminal window titled 'lhossack — -bash — 80x24' showing the execution of the command 'python3 -m pip install mysql-connector-python'. The output shows the collection and download of 'mysql-connector-python' (346kB) and 'protobuf' (440kB). It also shows that 'setuptools' is already satisfied and 'six' is collected. The installation is successful, and a warning is displayed about upgrading pip.

```
lhossack-macbook:~ lhossack$ python3 -m pip install mysql-connector-python
Collecting mysql-connector-python
  Downloading https://files.pythonhosted.org/packages/bc/5c/abd95d9d978982e669d5
  cda7b40d86efce01e9729800043e40581b6e55f5/mysql_connector_python-8.0.18-py3-n
  one-any.whl (346kB)
    | 348kB 1.2MB/s
Collecting protobuf<=3.0.0 (from mysql-connector-python)
  Downloading https://files.pythonhosted.org/packages/ad/c2/86c65136e280607ddb2e
  5dda19e2953c1174f9919b557d1d154574481de4/protobuf-3.10.0-py2.py3-none-any.whl (4
  34kB)
    | 440kB 3.1MB/s
Requirement already satisfied: setuptools in /Library/Frameworks/Python.framework
  V/Versions/3.8/lib/python3.8/site-packages (from protobuf<=3.0.0->mysql-connecto
  r-python) (41.2.0)
Collecting six<=1.9 (from protobuf<=3.0.0->mysql-connector-python)
  Downloading https://files.pythonhosted.org/packages/73/fb/00a976f728d0d1fecfe8
  98238ce23f502a721c0ac0ecfedb80e0d88c64e9/six-1.12.0-py2.py3-none-any.whl
Installing collected packages: six, protobuf, mysql-connector-python
Successfully installed mysql-connector-python-8.0.18 protobuf-3.10.0 six-1.12.0
WARNING: You are using pip version 19.2.3, however version 19.3.1 is available.
You should consider upgrading via the 'pip install --upgrade pip' command.
lhossack-macbook:~ lhossack$
```

10. With this document is a python file 'test_connection.py' containing the following:

```
import mysqlx

# Connect to server on localhost
session = mysqlx.get_session({
    'host': 'localhost',
    'port': 33060,
    'user': 'root',
    'password': ''
})
```

```
schema = session.get_schema('Test')

# Specify which document to find with Collection.find()
result = schema.get_collection('col').find().limit(1).execute()
docs = result.fetch_all()
print(str(docs))

session.close()
```

You will need to edit the password on line 8 to be a string containing the password you specified for the MySQL root user.

Open a new cmd.exe window and run the code. You should get similar output (the document you added to this collection in Step 7) if the connector/python is installed and working properly.

```
M:\A2>py test_connection.py
[{'_id': '00005db5cdf00000000000000003', 'title': 'test collection', 'contents': 'Hello, World!'}]
```

Note: If the MySQL shell in Step 7 connected fine, but you get a segmentation fault while testing the python connector (Step 9), try installing a more recent version of python and installing the mysql-connector-python again.