

Setup MySQL Connector for Python on EC2

INF 551

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Create new user and database

- Login to MySQL as root
 - `mysql -u root -p`
- Create a new user 'inf551' with password 'inf551'
 - `create user inf551@localhost identified by 'inf551';`
- Create a database 'inf551' if you have not
 - `create database inf551;`

Grant permission

- Grant all permissions on database 'inf551' to user 'inf551'
 - grant all privileges on inf551.* to inf551@localhost;
- Login to the database 'inf551'
 - mysql inf551 -u inf551 -p

Install MySQL connector

- `wget`
`https://dev.mysql.com/get/Downloads/Connector-Python/mysql-connector-python-2.1.4.tar.gz`
- `tar xvf mysql-connector-python-2.1.4.tar.gz`
- `cd mysql-connector-python-2.1.4`
- `sudo python setup.py install`

Test it out

```
import mysql.connector

cnx = mysql.connector.connect(user='inf551', password='inf551',
                              host='127.0.0.1',
                              database='inf551')

cursor = cnx.cursor()

query = "select name from Beers"

cursor.execute(query)

for name in cursor:
    print name

cursor.close()
cnx.close()
```

Inserting data


```
import mysql.connector
```

```
cnx = mysql.connector.connect(user='inf551', password='inf551',  
    host='127.0.0.1',  
    database='inf551')
```

```
cursor = cnx.cursor()
```

```
add_beer = ("INSERT INTO Beers "  
            "(name, manf) "  
            "VALUES (%s, %s)")
```

Still use %s even for
attributes of other types,
e.g., integer



```
data_beer = ("Budweiser", "Anheuser-Busch")
```

```
cursor.execute(add_beer, data_beer)
```

```
cnx.commit()
```

```
cursor.close()
```

```
cnx.close()
```

Useful commands

- Find all users
 - `select User FROM mysql.user;`
- Change password for user (inf551):
 - set password for inf551@localhost = password('inf551');
 - (for this, you need to login to MySQL as root)

Useful commands

- Remove users
 - `drop user inf551@localhost;`

Resources

- Chapter 5 Connector/Python Coding Examples
 - <https://dev.mysql.com/doc/connector-python/en/connector-python-examples.html>