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' 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 identified by 'inf551';

- 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
- gunzip mysql-connector-python-2.1.4.tar.gz
- tar xvf mysql-connector-python-2.1.4.tar
- 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)")

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

cursor.execute(add_beer, data_beer)

cnx.commit()

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

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

Useful commands

- Find all users
  - select User FROM mysql.user;

- Change password for user (inf551):
  - set password for inf551@localhost = password('inf551');
  - (you need to login as MySQL root)

Resources

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