Report of TP1 Redis

This TP permit us to know how to install redis and some instructions of Redis. This TP is to create a Redis client to subscribe to new items in a specific category and a publisher who publish some information.

I will give you some explication of my code. My code is composed by 2 files, one is to create the Redis client and the other is to realise the function of the publisher.

In the file sub.py :

First of all, I do the connection for the client to connect to Redis server :

   r =   redis.StrictRedis(host='localhost',port=6379, db=0)

Then I make the client subscribe to the items :

   client = r.pubsub()

   r = client.subscribe('IPad')

   r = client.subscribe('Bike')

   r = client.subscribe('Aquarium')

At last, I write a while loop to make the client to get the message of information of items published by the publisher :

   while True:

      message = client.get_message()

      if message:

         print "Subscriber: %s" % message

In the file pub.py :

First of all, I do the connection for the publisher to connect to Redis server :

   r =   redis.StrictRedis(host='localhost',port=6379, db=0)

Then I create a database of some items, this is an example to show I create this database :

   r.lpush('IPad',[{'name' : 'IPad 1', 'price' : 500, 'color' : 'Red'},{'name' : 'IPad 2', 'price' : 600, 'color' : 'Black'},{'name' : 'IPad mini', 'price' : 300, 'color' : 'Red'}])

These items can just exist for a while :

   r.expire('IPad',10)

Then I make the publisher to publish items :

   iPad = r.hgetall('IPad')

   r.publish('IPad', iPad)

When I lance the program, I will obtain :

   Subscriber: {'pattern': None, 'type': 'subscribe', 'channel': 'IPad', 'data': 1L}

   Subscriber: {'pattern': None, 'type': 'subscribe', 'channel': 'Bike', 'data': 2L}

   Subscriber: {'pattern': None, 'type': 'subscribe', 'channel': 'Aquarium', 'data': 3L}

   Subscriber: {'pattern': None, 'type': 'message', 'channel': 'IPad', 'data': "{'color': 'Red', 'price': '500', 'name': 'IPad 2}"}

   Subscriber: {'pattern': None, 'type': 'message', 'channel': 'Bike', 'data': "{'color': 'Black', 'price': '300', 'name': 'OFO'}"}

Subscriber: {'pattern': None, 'type': 'message', 'channel': 'Aquarium', 'data': "{'color': 'Blue', 'price': '20', 'name': 'JIDI'}"}