

**CS 553 Cloud Computing**  
**Programming Assignment 3**  
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**Manual**

**Note:-**

1) User should keep all code of client, Remote and Animoto in one eclipse project and create runnable jar file from eclipse. Copy that jar file to amazon Ec2 instance along with credentials file and workload.txt file.

2) Keep credentials file and workload.txt file on same location where jar is copied.

**1) Below are the steps to execute Local Code:-**

Create workload file first:-

- JavacWorkload\_File\_Creator.java
- Java Workload\_File\_Creator

You will be asked to enter number of jobs and sleep time for job. Workload.txt file will be created which will have all sleep tasks.

Example:-

Thread.sleep(100);

- javac Local\_Client.java
- javaLocal\_Client -s LOCAL -t 1 -w Workload.txt

This will start execution of local program which will create number of worker threads mentioned in command line after -t and 2 client threads 1 will input jobs in Incoming\_Queue and other thread will check if execution is complete or not in Response\_Queue.

## 2) Below are the steps to execute Remote Code:-

- `java -cp PA3_Code.jar Workload_File_Creator`

You will be asked to enter number of jobs and sleep time for job. Workload.txt file will be created which will have all sleep tasks.

Example:-

```
Thread.sleep(100);
```

- `java -cp PA3_Code.jar Create_QueueIncoming_Queue`

Above command will create two queues in your amazon account one is SQS Incoming\_Queue queue other is SQS Response\_Queue and DynamoDb table Job\_Id\_Check.

- `java -cp PA3_Code.jar Worker -s Incoming_Queue -t 1`

Above command will start worker with 1 thread and will create one worker thread and will connect Incoming\_Queue ,Response\_Queue and Job\_Id\_Check table. This thread will continuously check Incoming\_Queue for any job.

- `java -cp PA3_Code.jar Client -s Incoming_Queue -w Workload.txt`

Above command will start client and will connect Incoming\_Queue and Response\_Queue. This will start putting jobs in Incoming\_Queue for execution and other thread will continuously will check response queue for completion of jobs.

- `java -cp PA3_Code.jar Delete_QueueIncoming_Queue`

Once execution is completed by user. Above command will delete Incoming\_Queue ,Response\_Queue.

## 3) Below are the steps to execute Animoto Code:-

- `java -cp PA3_Code.jar Input_File_Creator`

Above command will create Animoto\_Workload.txt file and will input below jobs in file.

```
/home/sujay/Desktop/Assignment3/PA3_Jar_files/Image_Link.txt
```

Above path is the location of file which as 60 images.

- `java -cp PA3_Code.jar Animoto_Client -s Animoto_Input_Queue -w Animoto_Workload.txt`

Above command will start client and will create `Animoto_Input_Queue`, `Animoto_Response_Queue` and `Animoto_Job_IdDynamoDB` table in your amazon Aws account and will load jobs in incoming queue.

- `java -cp PA3_Code.jar Animoto_Worker -s Animoto_Input_Queue -t 1`

Above command will start worker with 1 thread and will create bucket in s3 and will connect to `Animoto_Input_Queue`, `Animoto_Response_Queue` for processing jobs.