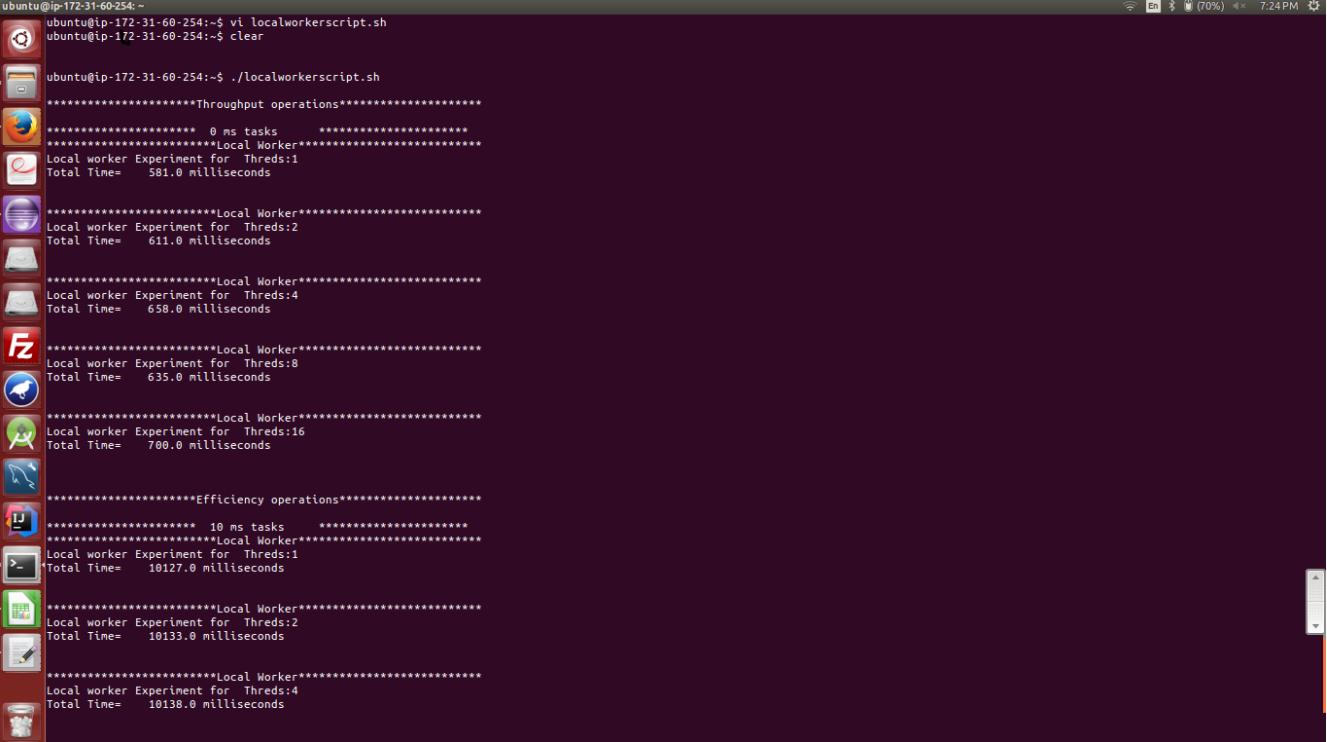


# OUTPUT SCREEN SHOTS

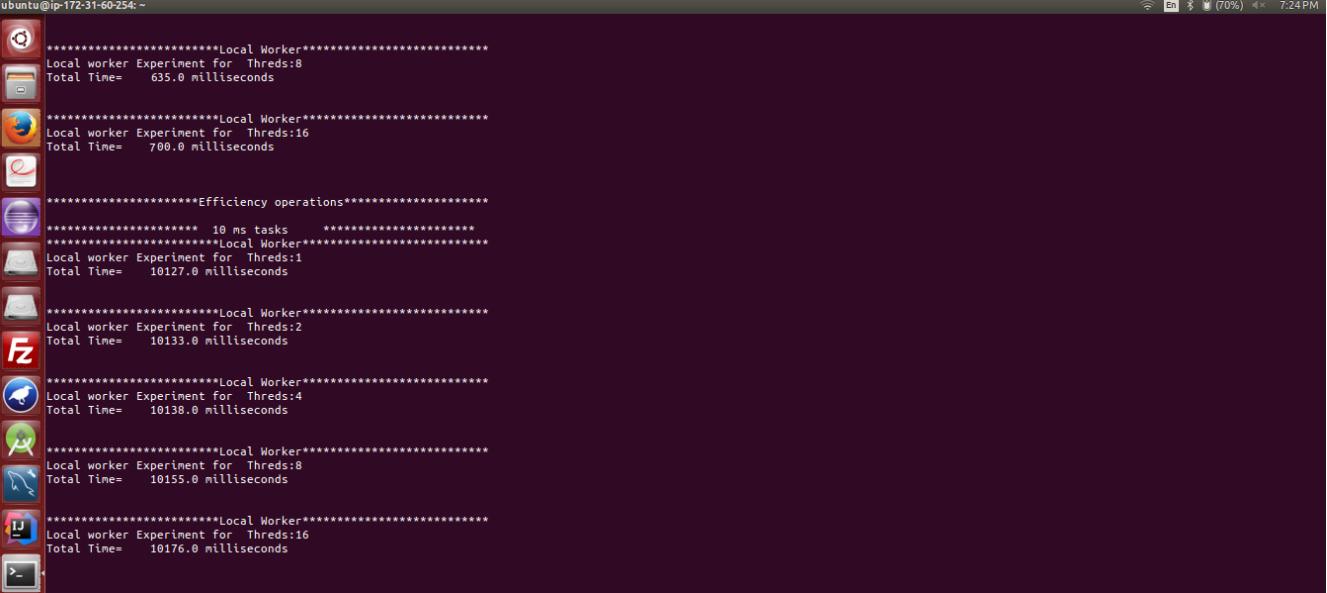
## 1. Local task execution framework

0 ms for 1 Thread, 2 Thread, 4 Thread, 8 Thread, 16 Thread



```
ubuntu@ip-172-31-60-254:~  
ubuntu@ip-172-31-60-254:~$ vi localworkerscript.sh  
ubuntu@ip-172-31-60-254:~$ clear  
  
ubuntu@ip-172-31-60-254:~$ ./localworkerscript.sh  
*****Throughput operations*****  
***** 0 ms tasks *****  
*****Local Worker*****  
Local worker Experiment for Threds:1  
Total Time= 581.0 milliseconds  
  
*****Local Worker*****  
Local worker Experiment for Threds:2  
Total Time= 611.0 milliseconds  
  
*****Local Worker*****  
Local worker Experiment for Threds:4  
Total Time= 658.0 milliseconds  
  
*****Local Worker*****  
Local worker Experiment for Threds:8  
Total Time= 635.0 milliseconds  
  
*****Local Worker*****  
Local worker Experiment for Threds:16  
Total Time= 700.0 milliseconds  
  
*****Efficiency operations*****  
***** 10 ms tasks *****  
*****Local Worker*****  
Local worker Experiment for Threds:1  
Total Time= 10127.0 milliseconds  
  
*****Local Worker*****  
Local worker Experiment for Threds:2  
Total Time= 10133.0 milliseconds  
  
*****Local Worker*****  
Local worker Experiment for Threds:4  
Total Time= 10138.0 milliseconds
```

10 ms for 1 Thread, 2 Thread, 4 Thread, 8 Thread, 16 Thread



```
ubuntu@ip-172-31-60-254:~  
*****Local Worker*****  
Local worker Experiment for Threds:8  
Total Time= 635.0 milliseconds  
  
*****Local Worker*****  
Local worker Experiment for Threds:16  
Total Time= 700.0 milliseconds  
  
*****Efficiency operations*****  
***** 10 ms tasks *****  
*****Local Worker*****  
Local worker Experiment for Threds:1  
Total Time= 10127.0 milliseconds  
  
*****Local Worker*****  
Local worker Experiment for Threds:2  
Total Time= 10133.0 milliseconds  
  
*****Local Worker*****  
Local worker Experiment for Threds:4  
Total Time= 10138.0 milliseconds  
  
*****Local Worker*****  
Local worker Experiment for Threds:8  
Total Time= 10155.0 milliseconds  
  
*****Local Worker*****  
Local worker Experiment for Threds:16  
Total Time= 10176.0 milliseconds
```

1second for 1 Thread, 2 Thread, 4 Thread, 8 Thread, 16 Thread

```
ubuntu@ip-172-31-60-254: ~
*****Local Worker*****
Local worker Experiment for Threds:4
Total Time= 10138.0 milliseconds

*****Local Worker*****
Local worker Experiment for Threds:8
Total Time= 10155.0 milliseconds

*****Local Worker*****
Local worker Experiment for Threds:16
Total Time= 10176.0 milliseconds

*****Efficiency operations*****
***** 1 second tasks *****
*****Local Worker*****
Local worker Experiment for Threds:1
Total Time= 100028.0 milliseconds

*****Local Worker*****
Local worker Experiment for Threds:2
Total Time= 100023.0 milliseconds

*****Local Worker*****
Local worker Experiment for Threds:4
Total Time= 100030.0 milliseconds

*****Local Worker*****
Local worker Experiment for Threds:8
Total Time= 100035.0 milliseconds

*****Local Worker*****
Local worker Experiment for Threds:16
Total Time= 100031.0 milliseconds

*****Efficiency operations*****
***** 10 second tasks *****
*****Local Worker*****
Local worker Experiment for Threds:1
```

10 seconds for 1 Thread, 2 Thread, 4 Thread, 8 Thread, 16 Thread

```
Total Time= 100035.0 milliseconds
*****Local Worker*****
Local worker Experiment for Threds:16
Total Time= 100031.0 milliseconds

*****Efficiency operations*****
***** 10 second tasks *****
*****Local Worker*****
Local worker Experiment for Threds:1
Total Time= 100010.0 milliseconds

*****Local Worker*****
Local worker Experiment for Threds:2
Total Time= 100008.0 milliseconds

*****Local Worker*****
Local worker Experiment for Threds:4
Total Time= 100009.0 milliseconds

*****Local Worker*****
Local worker Experiment for Threds:8
Total Time= 100012.0 milliseconds

*****Local Worker*****
Local worker Experiment for Threds:16
Total Time= 100013.0 milliseconds
```

## 2. Remote task execution framework

16 instances on AWS windows

The screenshot shows the AWS EC2 Management Console interface in Mozilla Firefox. The left sidebar navigation bar includes links for EC2 Dashboard, Events, Tags, Reports, Limits, Instances (selected), Spot Requests, Reserved Instances, Scheduled Instances, Commands, Dedicated Hosts, Images (AMIs, Bundle Tasks), Elastic Block Store (Volumes, Snapshots), and Network & Security (Security Groups, Elastic IPs). The main content area displays a table of 16 EC2 instances. The table columns are: Name, Instance ID, Instance Type, Availability Zone, Instance State, Status Checks, Alarm Status, and Public DNS. The instances are numbered 1 through 9, with instance 1 highlighted. All instances are listed as 'running' with 2/2 status checks and no alarms. The Public DNS column lists various IP addresses starting with ec2-52-. The bottom of the page shows the instance details for i-a891ff35, including its Instance ID, Public DNS (ec2-52-87-183-106.compute-1.amazonaws.com), and a link to its monitoring tab.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS
Remote_Client	i-a9660834	t2.micro	us-east-1a	running	2/2 checks ...	None	ec2-54-164-2...
1	i-a891ff35	t2.micro	us-east-1a	running	2/2 checks ...	None	ec2-52-87-18...
2	i-a991ff34	t2.micro	us-east-1a	running	2/2 checks ...	None	ec2-52-90-57...
3	i-ab91ff36	t2.micro	us-east-1a	running	2/2 checks ...	None	ec2-52-91-23...
4	i-d091ff4d	t2.micro	us-east-1a	running	2/2 checks ...	None	ec2-52-207-2...
5	i-d191ff4c	t2.micro	us-east-1a	running	2/2 checks ...	None	ec2-52-205-2...
6	i-d391ff4e	t2.micro	us-east-1a	running	2/2 checks ...	None	ec2-52-90-84...
7	i-d491ff49	t2.micro	us-east-1a	running	2/2 checks ...	None	ec2-52-23-18...
8	i-d591ff48	t2.micro	us-east-1a	running	2/2 checks ...	None	ec2-52-205-2...
9	i-d691ff4b	t2.micro	us-east-1a	running	2/2 checks ...	None	ec2-52-87-24...

## Worker 1; Sleep 0 ; Tasks 100K

```
ubuntu@ip-172-31-51-59:~/CloudKonClient
AwsCredentials.properties build.xml lib src
ubuntu@ip-172-31-51-59:~/CloudKonClient$ clear
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties build.xml lib src
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd src/
ubuntu@ip-172-31-51-59:~/CloudKonClient/src$ vi DynamoDBServiceUtil.java
ubuntu@ip-172-31-51-59:~/CloudKonClient/src$ ls
DynamoDBServiceUtil.java SQSClients.java SQSQueueServiceUtil.java
ubuntu@ip-172-31-51-59:~/CloudKonClient/src$ ls
DynamoDBServiceUtil.java SQSClients.java SQSQueueServiceUtil.java
ubuntu@ip-172-31-51-59:~/CloudKonClient/src$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties build.xml lib src
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ant
Buildfile: /home/ubuntu/CloudKonClient/build.xml

init:
[mkdir] Created dir: /home/ubuntu/CloudKonClient/bin

compileCloudKonClient:
[mkdir] Created dir: /home/ubuntu/CloudKonClient/build/classes
[javac] /home/ubuntu/CloudKonClient/build.xml:9: warning: 'includeanruntime' was not set, defaulting to build.sysclasspath=last; set to false for repeatable builds
[javac] Compiling 3 source files to /home/ubuntu/CloudKonClient/build/classes
[javac] Note: /home/ubuntu/CloudKonClient/src/DynamoDBServiceUtil.java uses or overrides a deprecated API.
[javac] Note: Recompile with -Xlint:deprecation for details.

RunClientsSidejar:
[mkdir] Created dir: /home/ubuntu/CloudKonClient/build/jar
[jar] Building jar: /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar

main:
BUILD SUCCESSFUL
Total time: 12 seconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/Utility/build/jar:/home/ubuntu/Utility/taskCreation:10000 0
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClients client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 650459.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$
```

DynamoDB - AWS Console - Mozilla Firefox

Inbox (1,574) akedar... Fwd: cluster ssh - abhi... Welcome, Abhijeet - ... prog3\_v2.pdf SQS Management Co... DynamoDB - AWS Con... Exception in thread "...

https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=CloudKonDB

AWS Services EC2 RDS SQS DynamoDB Edit

Abhijeet Kedari N. Virginia Support

DynamoDB

Dashboard Tables Reserved capacity

Create table Actions

CloudKonDB Close

Overview Items Metrics Alarms Capacity Indexes Triggers Access control

Scan: [Table] CloudKonDB: id ▲ Viewing 901 to 1000 items >

Scan [Table] CloudKonDB:id + Add filter Start search

	id	status
task6025	0	
task5771	0	
task4922	0	
task2540	0	
task8338	0	
task2899	0	

Feedback English

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Mozilla Firefox seems slow... to... start. Learn How to Speed It Up Don't Tell Me Again

SQS Management Console - Mozilla Firefox

Inbox (1,574) - aked... | Fwd: cluster ssh - abhi... | Welcome, Abhijeet... | prog3\_v2.pdf | SQS Management Co... | DynamoDB - AWS Con... | Exception in thread "... | 12:18 AM

AWS Services EC2 RDS SQS DynamoDB Edit

Create New Queue Queue Actions

Filter by Prefix: Enter Text...

Name	Messages Available	Messages in Flight	Created
RESULTQUEUE	291	0	2016-05-01 00:01:02 GMT-05:00
SOURCEQUEUE	1,936	0	2016-05-01 00:01:02 GMT-05:00

Feedback English

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Mozilla Firefox seems slow... to... start.

## Worker 1; Sleep 10ms ; Tasks 1000

```
ubuntu@ip-172-31-51-59:~/CloudKonClient
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~$ cd CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
Exception in thread "main" com.amazonaws.services.sqs.model.QueueDoesNotExistException: The specified queue does not exist for this wsdl version. (Service: AmazonSQS; Status Code: 400; Error Code: AWS.SimpleQueueService.NonExistentQueue; Request ID: f9b33f39-1eb0-5f07-8278-70a686bbe447)
at com.amazonaws.http.AmazonHttpClient.handleErrorResponse(AmazonHttpClient.java:1389)
at com.amazonaws.http.AmazonHttpClient.executeOneRequest(AmazonHttpClient.java:902)
at com.amazonaws.http.AmazonHttpClient.executeHelper(AmazonHttpClient.java:607)
at com.amazonaws.http.AmazonHttpClient.doExecute(AmazonHttpClient.java:376)
at com.amazonaws.http.AmazonHttpClient.executeWithTimer(AmazonHttpClient.java:338)
at com.amazonaws.http.AmazonHttpClient.execute(AmazonHttpClient.java:287)
at com.amazonaws.services.sqs.AmazonSQSClient.invoke(AmazonSQSClient.java:1666)
at com.amazonaws.services.sqs.AmazonSQSClient.invoke(AmazonSQSClient.java:1636)
at com.amazonaws.services.sqs.AmazonSQSClient.getQueueUrl(AmazonSQSClient.java:1024)
at SQSQueueServiceUtil.getQueueUrl(Unknown Source)
at SQSClient.main(Unknown Source)
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!
~Ubuntu@ip-172-31-51-59:~/CloudKonClients
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!
Total Time= 58028.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd Utility/
ubuntu@ip-172-31-51-59:~/Utility$ ls
bin build build.xml build.xml config.properties src
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 100 1000
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
bash: cd: Clo: No such file or directory
ubuntu@ip-172-31-51-59:~$ cd Clo
bash: cd: Cl: No such file or directory
ubuntu@ip-172-31-51-59:~$ cd CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!
Total Time= 107165.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$
```

DynamoDB - AWS Console - Mozilla Firefox

Inbox (1,574) - akedar... Fwd: cluster ssh - abhi... Welcome, Abhijeet - ... prog3\_v2.pdf SQS Management Co... DynamoDB - AWS Con... Exception in thread "...

https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=CloudKonDB

AWS Services EC2 RDS SQS DynamoDB Edit

Abhijeet Kedari N. Virginia Support

DynamoDB Dashboard Tables Reserved capacity

Create table Actions

Filter by table name

Name CloudKonDB

CloudKonDB Close

Overview Items Metrics Alarms Capacity Indexes Triggers Access control

Create item Actions

Scan [Table] CloudKonDB: id

+ Add filter Start search

Viewing 901 to 1000 items

	id	status
task311	0	
task743	0	
task435	0	
task42	0	
task298	0	
task729	0	

Feedback English

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Mozilla Firefox seems slow... to... start.

Learn How to Speed It Up Don't Tell Me Again

SQS Management Console - Mozilla Firefox

Inbox (1,574) - akedar... Fwd: cluster ssh - abhi... Welcome, Abhijeet - ... prog3\_v2.pdf SQS Management Co... DynamoDB - AWS Con... Exception in thread "...

https://console.aws.amazon.com/sqs/home?region=us-east-1#queue-browser:prefix=

AWS Services EC2 RDS SQS DynamoDB Edit

Abhijeet Kedari N. Virginia Support

Create New Queue Queue Actions

Filter by Prefix: Enter Text...

Name	Messages Available	Messages in Flight	Created
RESULTRQUEUE	117	0	2016-05-01 00:49:30 GMT-05:00
SOURCEQUEUE	641	0	2016-05-01 00:49:30 GMT-05:00

Feedback English

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Mozilla Firefox seems slow... to... start.

Learn How to Speed It Up Don't Tell Me Again

## Worker 1; Sleep 1 Second ; Tasks 100

```
ubuntu@ip-172-31-51-59:~/CloudKonClient
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
Exception in thread "main" com.amazonaws.services.sqs.model.QueueDoesNotExistException: The specified queue does not exist for this WSDL version. (Service: AmazonSQS; Status Code: 400; Error Code: AWS.SimpleQueueService.NonexistentQueue; Request ID: f9b33f39-1eb0-5f07-8278-70a686bbe447)
        at com.amazonaws.http.AmazonHttpClient.handleErrorResponse(AmazonHttpClient.java:1389)
        at com.amazonaws.http.AmazonHttpClient.executeHelper(AmazonHttpClient.java:902)
        at com.amazonaws.http.AmazonHttpClient.execute(AmazonHttpClient.java:697)
        at com.amazonaws.http.AmazonHttpClient.doExecute(AmazonHttpClient.java:376)
        at com.amazonaws.http.AmazonHttpClient.executeWithTimer(AmazonHttpClient.java:338)
        at com.amazonaws.http.AmazonHttpClient.execute(AmazonHttpClient.java:287)
        at com.amazonaws.services.sqs.AmazonSQSClient.invoke(AmazonSQSClient.java:1666)
        at com.amazonaws.services.sqs.AmazonSQSClient.invoke(AmazonSQSClient.java:1636)
        at com.amazonaws.services.sqs.AmazonSQSClient.getQueueUrl(AmazonSQSClient.java:1024)
        at SQSQueueServiceUtil.getQueueUrl(Unknown Source)
        at SQSClient.main(Unknown Source)
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!
~Ubuntu@ip-172-31-51-59:~/CloudKonClient
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!
Total Time= 58028.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility$ ls
bin build build.xml config.properties src
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 100 1000
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/Utility$ cd CloudKonClient
bash: cd: CLo: No such file or directory
ubuntu@ip-172-31-51-59:~/cd CloudKonClient/
bash: cd: CL: No such file or directory
ubuntu@ip-172-31-51-59:~/cd CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!
Total Time= 107165.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$
```

DynamoDB - AWS Console - Mozilla Firefox

Inbox (1,574) - akedar... | Fwd: cluster ssh - abhi... | Welcome, Abhijeet... | prog3\_v2.pdf | SQS Management Co... | DynamoDB - AWS Con... | Exception in thread ... | +

<https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=CloudKonDB>

AWS Services EC2 RDS SQS DynamoDB Edit v Support

DynamoDB

Dashboard

Tables

Reserved capacity

Create table Actions

Filter by table name

Name

CloudKonDB

CloudKonDB Close

Overview Items Metrics Alarms Capacity Indexes Triggers Access control

Create Item Actions

Scan: [Table] CloudKonDB: id ▲ Viewing 1 to 55 items

Scan [Table] CloudKonDB: id

+ Add filter

Start search

	id	status
task25	0	
task34	0	
task35	0	✎
task54	0	
task38	0	
task44	0	

Feedback English

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Mozilla Firefox seems slow... to... start. Learn How to Speed It Up Don't Tell Me Again

SQS Management Console - Mozilla Firefox

Inbox (1,574) - aked... | Fwd: cluster ssh - abhi... | Welcome, Abhijeet... | prog3\_v2.pdf | SQS Management Co... | DynamoDB - AWS Con... | Exception in thread "... | 12:58 AM

AWS Services EC2 RDS SQS DynamoDB Edit

Create New Queue Queue Actions

Filter by Prefix: Enter Text...

Name	Messages Available	Messages in Flight	Created
RESULTQUEUE	0	0	2016-05-01 00:55:38 GMT-05:00
SOURCEQUEUE	66	0	2016-05-01 00:55:37 GMT-05:00

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Mozilla Firefox seems slow... to... start. Learn How to Speed It Up Don't Tell Me Again

## Worker 1; Sleep 10 Second ; Tasks 10

```
File Edit View Search Terminal Help
at SQSClient.main(Unknown Source)
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/bu
ild/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!
~Ubuntu@ip-172-31-51-59:~/CloudKonClients
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!
Total Time= 58028.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility/
ubuntu@ip-172-31-51-59:~/Utility$ ls
bin build build.xml build.xml config.properties- src
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 100 1000
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/Utility$ cd Clo
:bash: cd: Clo: No such file or directory
ubuntu@ip-172-31-51-59:~/Utility$ cd Cl
:bash: cd: Cl: No such file or directory
ubuntu@ip-172-31-51-59:~/Utility$ cd CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!
Total Time= 107165.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility/
ubuntu@ip-172-31-51-59:~/Utility$ ls
bin build build.xml build.xml config.properties- src
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 10 10000
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!
Total Time= 101367.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$
```

DynamoDB - AWS Console - Mozilla Firefox

Inbox (1,574) - akedar... | Fwd: cluster ssh - abhi... | Welcome, Abhijeet - ... | prog3\_v2.pdf | SQS Management Co... | DynamoDB - AWS Con... | Exception in thread "..."

https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=CloudKonDB

AWS Services EC2 RDS SQS DynamoDB Edit

Abhijeet Kedari N. Virginia Support

DynamoDB

Dashboard

Tables

Reserved capacity

Create table Actions

Filter by table name

Name

CloudKonDB

CloudKonDB Close

Overview Items Metrics Alarms Capacity Indexes Triggers Access control

Create Item Actions

Scan: [Table] CloudKonDB: id Viewing 1 to 5 items

Scan [Table] CloudKonDB: id Add filter Start search

	id	status
	task3	0
	task0	0
	task7	0
	task2	0
	task1	0

Feedback English

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Mozilla Firefox seems slow... to... start.

Learn How to Speed It Up Don't Tell Me Again

SQS Management Console - Mozilla Firefox

Inbox (1,574) - akedar... | Fwd: cluster ssh - abhi... | Welcome, Abhijeet - ... | prog3\_v2.pdf | SQS Management Co... | DynamoDB - AWS Con... | Exception in thread "..."

https://console.aws.amazon.com/sqs/home?region=us-east-1#queue-browser:prefix=

AWS Services EC2 RDS SQS DynamoDB Edit

Abhijeet Kedari N. Virginia Support

Create New Queue Queue Actions

Filter by Prefix: Enter Text...

Name	Messages Available	Messages in Flight	Created
RESULTQUEUE	0	0	2016-05-01 01:01:54 GMT-05:00
SOURCEQUEUE	7	0	2016-05-01 01:01:53 GMT-05:00

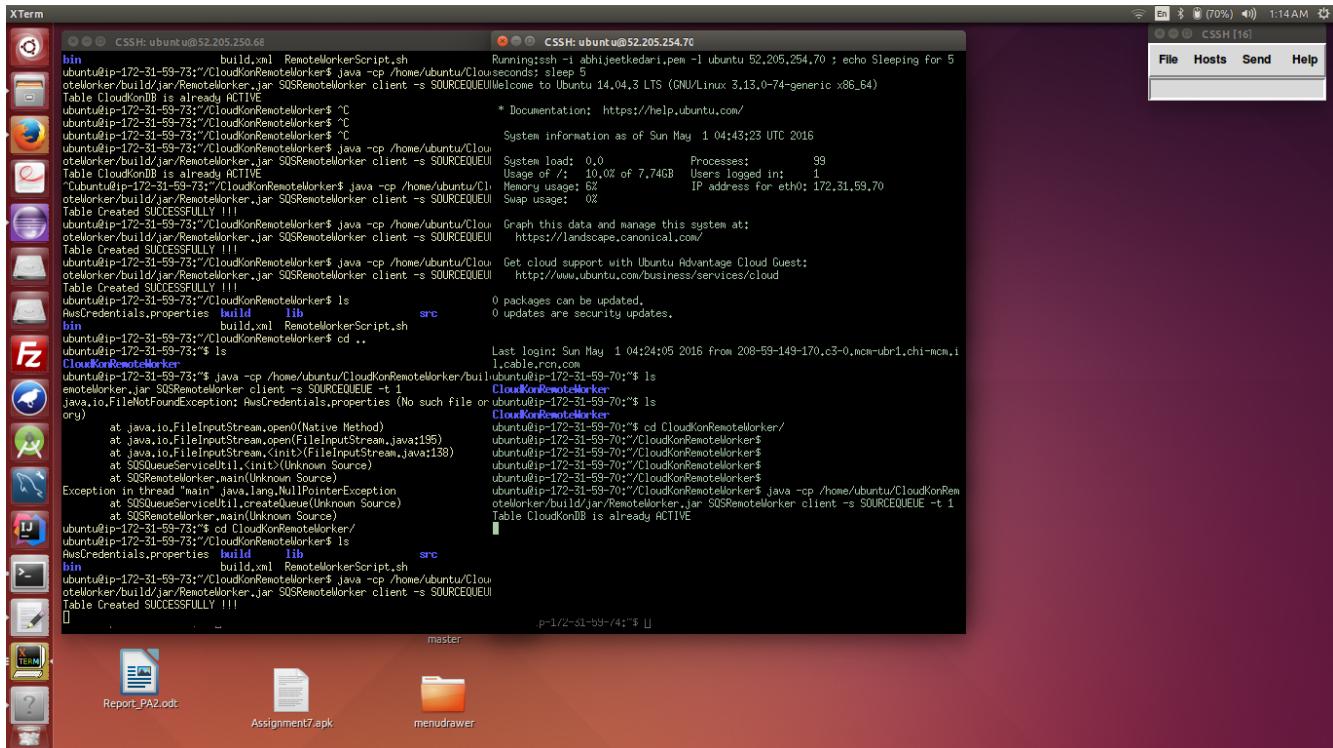
Feedback English

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Mozilla Firefox seems slow... to... start.

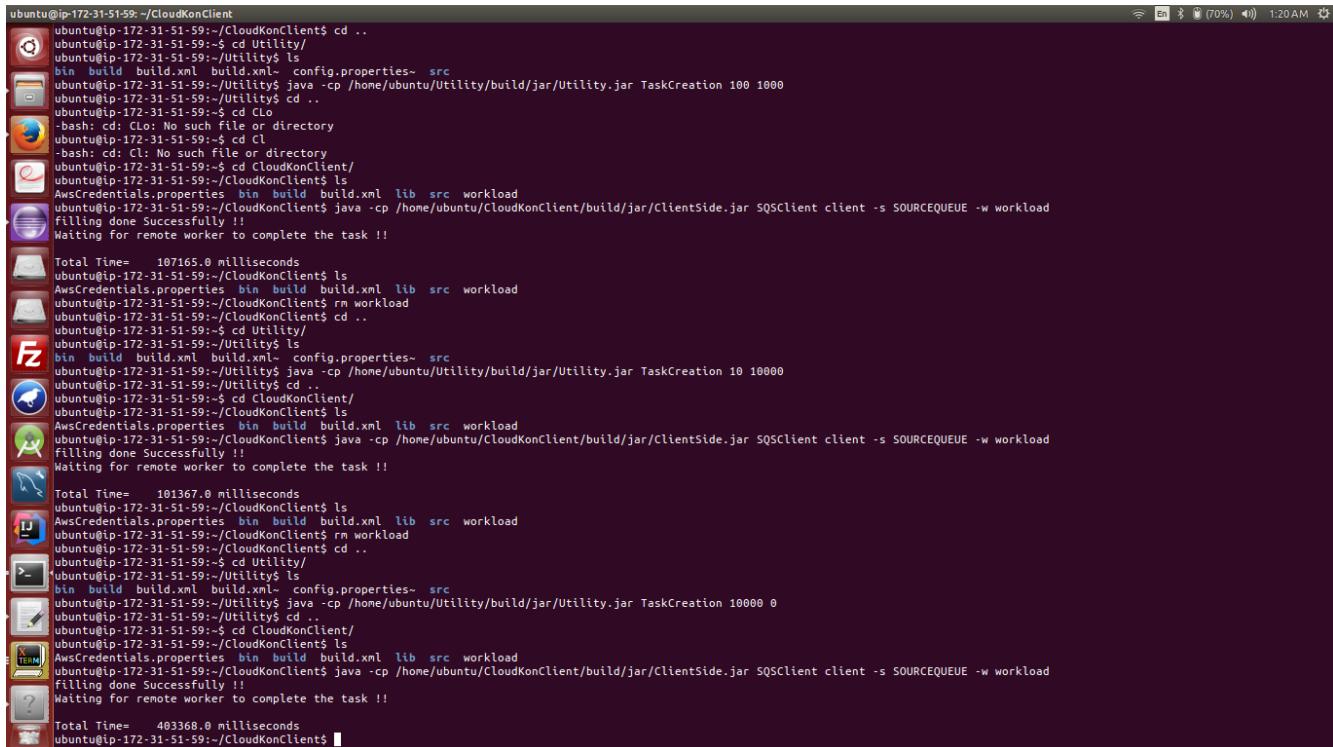
Learn How to Speed It Up Don't Tell Me Again

## 2 Remote workers running



```
XTerm: CSSH: ubuntu@52.205.250.68
bin build.xml RemoteworkerScript.sh Running:ssh -i abhijeetkedar1.pem -l ubuntu 52.205.254.70 ; echo Sleeping for 5
ubuntu@ip-172-31-59-73:"/CloudKonRemoteWorker$ java -cp /home/ubuntu/CloudSeconds; sleep 5
Table CloudKonDB is already ACTIVE
ubuntu@ip-172-31-59-73:"/CloudKonRemoteWorker$ ^C * Documentation: https://help.ubuntu.com/
ubuntu@ip-172-31-59-73:"/CloudKonRemoteWorker$ ^C System information as of Sun May 1 04:43:23 UTC 2016
ubuntu@ip-172-31-59-73:"/CloudKonRemoteWorker$ ^C System load: 0.0 Processes: 99
ubuntu@ip-172-31-59-73:"/CloudKonRemoteWorker$ ^C Usage of /: 62 10.0% of 7.74GB Users logged in: 1
ubuntu@ip-172-31-59-73:"/CloudKonRemoteWorker$ ^C Memory usage: 62 IP address for eth0: 172.31.59.70
ubuntu@ip-172-31-59-73:"/CloudKonRemoteWorker$ ^C Swap usage: 0%
Table Created SUCCESSFULLY !!!
ubuntu@ip-172-31-59-73:"/CloudKonRemoteWorker$ java -cp /home/ubuntu/CloudKonRemoteWorker/build.jar/SQSRemoteWorker client -s SOURCEQUEUEUI
Table CloudKonDB is already ACTIVE
ubuntu@ip-172-31-59-73:"/CloudKonRemoteWorker$ java -cp /home/ubuntu/CloudKonRemoteWorker/build.jar/SQSRemoteWorker client -s SOURCEQUEUEUI
Table Created SUCCESSFULLY !!!
ubuntu@ip-172-31-59-73:"/CloudKonRemoteWorker$ java -cp /home/ubuntu/CloudKonRemoteWorker/build.jar/SQSRemoteWorker client -s SOURCEQUEUEUI
Table Created SUCCESSFULLY !!!
ubuntu@ip-172-31-59-73:"/CloudKonRemoteWorker$ ls
AusCredentials.properties build lib 0 packages can be updated,
bin build.xml RemoteworkerScript.sh 0 updates are security updates.
ubuntu@ip-172-31-59-73:"/CloudKonRemoteWorker$ cd ..
CloudKonRemoteWorker
ubuntu@ip-172-31-59-73:"/ Cloud KonRemoteWorker$ java -cp /home/ubuntu/CloudKonRemoteWorker/build/build.jar/SQSRemoteWorker client -s SOURCEQUEUEUI -t 1
CloudKonRemoteWorker
java.io.FileNotFoundException: AusCredentials.properties (No such file or directory)
at java.io.FileInputStream.open0(Native Method)
at java.io.FileInputStream.open(FileInputStream.java:195)
at java.io.FileInputStream.<init>(FileInputStream.java:138)
at SQSQueueServiceUtil.init(Unknown Source)
at SQSQueueServiceUtil.createQueue(Unknown Source)
at SQSQueueServiceUtil.main(Unknown Source)
Exception in thread "main" java.lang.NullPointerException
at SQSQueueServiceUtil.createQueue(Unknown Source)
at SQSQueueServiceUtil.main(Unknown Source)
ubuntu@ip-172-31-59-73:"/cd CloudKonRemoteWorker/
ubuntu@ip-172-31-59-73:"/CloudKonRemoteWorker$ ls
AusCredentials.properties build lib build.xml RemoteworkerScript.sh
ubuntu@ip-172-31-59-73:"/CloudKonRemoteWorker$ java -cp /home/ubuntu/CloudKonRemoteWorker/build.jar/SQSRemoteWorker client -s SOURCEQUEUEUI
Table Created SUCCESSFULLY !!!
[] p=1/z-s1-b3-/4;"$ l
master
```

Worker 2; Sleep 0 ms ; Tasks 10K



```
ubuntu@ip-172-31-51-59:~/CloudKonClient
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility$ ls
bin build.xml build.xml.config.properties- src
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 100 1000
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/Clo
-bash: cd: Clo: No such file or directory
ubuntu@ip-172-31-51-59:~/cd Cl
-bash: cd: Cl: No such file or directory
ubuntu@ip-172-31-51-59:~/cd CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClients ls
AusCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 107165.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AusCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility$ cd Utility
ubuntu@ip-172-31-51-59:~/Utility$ ls
bin build build.xml build.xml.config.properties- src
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 10 10000
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/cd CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClients ls
AusCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 101367.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AusCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility$ ls
bin build build.xml build.xml.config.properties- src
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 10000 0
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/cd CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClients ls
AusCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 403368.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$
```

DynamoDB - AWS Console - Mozilla Firefox

Inbox (1,574) - akedar... Fwd: cluster ssh - abhi... Welcome, Abhijeet - ... prog3\_v2.pdf SQS Management Co... DynamoDB - AWS Con... Exception in thread "... 1:31 AM

https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=CloudKonDB

AWS Services EC2 RDS SQS DynamoDB Edit

Abhijeet Kedari N. Virginia Support

DynamoDB Dashboard Tables Reserved capacity

Create table Actions

CloudKonDB Close

Overview Items Metrics Alarms Capacity Indexes Triggers Access control

Filter by table name

Name CloudKonDB

Scan: [Table] CloudKonDB: id ▲ Viewing 1 to 78 items

Scan [Table] CloudKonDB: id + Add filter Start search

	id	status
task25	0	
task34	0	
task53	0	
task35	0	
task54	0	
task38	0	

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Mozilla Firefox seems slow... to... start. Learn How to Speed It Up Don't Tell Me Again

	id	status
task25	0	
task34	0	
task53	0	
task35	0	
task54	0	
task38	1	

SQS Management Console - Mozilla Firefox

Inbox (1,574) - akedar... Fwd: cluster ssh - abhi... Welcome, Abhijeet - ... prog3\_v2.pdf SQS Management Co... DynamoDB - AWS Con... Exception in thread "... 1:14 AM

https://console.aws.amazon.com/sqs/home?region=us-east-1#queue-browser:prefix=

AWS Services EC2 RDS SQS DynamoDB Edit

Abhijeet Kedari N. Virginia Support

Create New Queue Queue Actions

Filter by Prefix: Enter Text...

Name Messages Available Messages in Flight Created

Name	Messages Available	Messages in Flight	Created
RESULTQUEUE	2,888	0	2016-05-01 01:08:39 GMT-05:00
SOURCEQUEUE	5,475	0	2016-05-01 01:08:39 GMT-05:00

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Mozilla Firefox seems slow... to... start. Learn How to Speed It Up Don't Tell Me Again

Name	Messages Available	Messages in Flight	Created
RESULTQUEUE	2,888	0	2016-05-01 01:08:39 GMT-05:00
SOURCEQUEUE	5,475	0	2016-05-01 01:08:39 GMT-05:00

## Worker 2; Sleep 10 ms ; Tasks 2000

```
ubuntu@ip-172-31-51-59:~/CloudKonClient
Total Time= 107165.9 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility/
ubuntu@ip-172-31-51-59:~/Utility$ ls
bin build build.xml config.properties src
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 10 10000
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 101367.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility/
ubuntu@ip-172-31-51-59:~/Utility$ ls
bin build build.xml config.properties src
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 10000 0
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 403368.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility/
ubuntu@ip-172-31-51-59:~/Utility$ ls
bin build build.xml config.properties src
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 2000 10
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 61940.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$
```

DynamoDB - AWS Console - Mozilla Firefox

Inbox (1,574) akedar... Fwd: cluster ssh - abhi... Welcome, Abhijeet -... prog3\_v2.pdf SQS Management Co... DynamoDB - AWS Con... Exception in thread ...

https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=CloudKonDB

AWS Services EC2 RDS SQS DynamoDB Edit Abhijeet Kedari N. Virginia Support

**DynamoDB**

Dashboard Tables Reserved capacity

Create table Actions

Filter by table name

Name CloudKonDB

**CloudKonDB** Close

Overview Items Metrics Alarms Capacity Indexes Triggers Access control

Create item Actions

Scan: [Table] CloudKonDB: id ▲ Viewing 1 to 7 items

Scan [Table] CloudKonDB: id Add filter Start search

	id	status
	task3	0
	task9	0
	task6	0
	task0	0
	task7	0
	task2	0

Feedback English

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Mozilla Firefox seems slow... to... start. Learn How to Speed It Up Don't Tell Me Again

The screenshot shows the AWS SQS Management Console in Mozilla Firefox. The top navigation bar includes links for AWS, Services, EC2, RDS, SQS, and DynamoDB. The SQS section is active. The main content area displays a table of queues. The table has columns for Name, Messages Available, Messages in Flight, and Created. Two entries are listed:

Name	Messages Available	Messages in Flight	Created
RESULTQUEUE	501	0	2016-05-01 01:25:52 GMT-05:00
SOURCEQUEUE	1,429	0	2016-05-01 01:25:51 GMT-05:00

At the bottom of the page, there are links for Feedback, English, Privacy Policy, Terms of Use, and a note about Firefox being slow.

## Worker 2; Sleep 1 Second ; Tasks 200

```
ubuntu@ip-172-31-51-59:~/CloudKonClient
Waiting for remote worker to complete the task !!
Q Total Time= 101367.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility$ ls
bin build build.xml build.xml config.properties src
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility.jar TaskCreation 10000 0
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 403368.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility$ ls
bin build build.xml build.xml config.properties src
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility.jar TaskCreation 2000 10
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 61940.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility$ ls
bin build build.xml build.xml config.properties src
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility.jar TaskCreation 200 1000
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 107093.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$
```

DynamoDB - AWS Console - Mozilla Firefox

Inbox (1,574) - akedar... | Fwd: cluster ssh - abhi... | Welcome, Abhijeet - ... | prog3\_v2.pdf | SQS Management Co... | DynamoDB - AWS Con... | Exception in thread "..."

https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=CloudKonDB

AWS Services EC2 RDS SQS DynamoDB Edit

Abhijeet Kedari N. Virginia Support

DynamoDB

Dashboard Tables Reserved capacity

Create table Actions

Filter by table name

Name

CloudKonDB

CloudKonDB Close

Overview Items Metrics Alarms Capacity Indexes Triggers Access control

Create Item Actions

Scan: [Table] CloudKonDB: id Viewing 1 to 78 items

Scan [Table] CloudKonDB: id Add filter Start search

	id	status
task25	0	
task34	0	
task53	0	
task35	0	
task54	0	
task38	0	

Feedback English

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Mozilla Firefox seems slow... to... start.

Learn How to Speed It Up Don't Tell Me Again

SQS Management Console - Mozilla Firefox

Inbox (1,574) - akedar... | Fwd: cluster ssh - abhi... | Welcome, Abhijeet - ... | prog3\_v2.pdf | SQS Management Co... | DynamoDB - AWS Con... | Exception in thread "..."

https://console.aws.amazon.com/sqs/home?region=us-east-1#queue-browser:prefix=

AWS Services EC2 RDS SQS DynamoDB Edit

Abhijeet Kedari N. Virginia Support

Create New Queue Queue Actions

Filter by Prefix: Enter Text...

Name	Messages Available	Messages in Flight	Created
RESULTRQUEUE	0	0	2016-05-01 01:29:16 GMT-05:00
SOURCEQUEUE	165	0	2016-05-01 01:29:16 GMT-05:00

Feedback English

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Mozilla Firefox seems slow... to... start.

Learn How to Speed It Up Don't Tell Me Again

## Worker 2; Sleep 10 Second ; Tasks 20

```
ubuntu@ip-172-31-51-59:~/CloudKonClient
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 2000 10
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 61940.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility/
ubuntu@ip-172-31-51-59:~/Utility$ ls
bin build build.xml config.properties src
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 200 1000
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

FZ Total Time= 107093.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd Utility/
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 10 10000
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility/
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 20 10000
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 101409.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$
```

DynamoDB - AWS Console - Mozilla Firefox

Inbox (1,574) - akedar... | Fwd: cluster ssh - abhi... | Welcome, Abhijeet... | prog3\_v2.pdf | SQS Management Co... | DynamoDB - AWS Con... | Exception in thread "..." | 1:36 AM

https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=CloudKonDB

AWS Services EC2 RDS SQS DynamoDB Edit

Abhijeet Kedari N. Virginia Support

**DynamoDB**

- Dashboard
- Tables
- Reserved capacity

**Create table** Actions

Filter by table name

Name

CloudKonDB

**CloudKonDB** Close

Overview Items Metrics Alarms Capacity Indexes Triggers Access control

**Create Item** Actions

Scan: [Table] CloudKonDB: id ▲ Viewing 1 to 7 items

Scan [Table] CloudKonDB: id ▲ Add filter Start search

	id	status
task3	0	
task9	0	
task6	0	
task0	0	
task7	0	
task2	0	

Feedback English

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Mozilla Firefox seems slow... to... start. Learn How to Speed It Up Don't Tell Me Again

SQS Management Console - Mozilla Firefox

The screenshot shows the AWS SQS Management Console in Mozilla Firefox. The interface includes a top navigation bar with links for AWS Services like EC2, RDS, SQS, and DynamoDB. Below the navigation is a search bar and user information for Abhijeet Kedari, N. Virginia, and Support. A sidebar on the left contains various icons for other AWS services. The main content area displays a table of queues:

Name	Messages Available	Messages in Flight	Created
RESULTQUEUE	0	0	2016-05-01 01:34:23 GMT-05:00
SOURCEQUEUE	19	0	2016-05-01 01:34:22 GMT-05:00

At the bottom of the page, there are links for Feedback, English, Privacy Policy, Terms of Use, and a note about Mozilla Firefox being slow.

## 4 workers running

XTerm

The XTerm window shows a terminal session with the following commands and output:

```

SSH: ubuntu@52.205.250.68
SSH: ubuntu@52.205.254.70

otelloker/build/jar/Remoteloker.jar SOSRemoteloker client -s SOURCEQUEUE[otelloker/build/jar/Remoteloker.jar SOSRemoteloker client -s SOURCEQUEUE -t 1
Table Created SUCCESSFULLY !!!
ubuntu@ip-172-31-59-73:~/CloudKonRemoteloker$ java -cp /home/ubuntu/Cloudubuntu@ip-172-31-59-70:~/CloudKonRemoteloker$ java -cp /home/ubuntu/CloudKonRemoteloker/build/jar/Remoteloker.jar SOSRemoteloker client -s SOURCEQUEUE[otelloker/build/jar/Remoteloker.jar SOSRemoteloker client -s SOURCEQUEUE -t 1
Table CloudKonDB is already ACTIVE
Table Created SUCCESSFULLY !!!
ubuntu@ip-172-31-59-73:~/CloudKonRemoteloker$ java -cp /home/ubuntu/Cloudubuntu@ip-172-31-59-70:~/CloudKonRemoteloker$ java -cp /home/ubuntu/CloudKonRemoteloker/build/jar/Remoteloker.jar SOSRemoteloker client -s SOURCEQUEUE[otelloker/build/jar/Remoteloker.jar SOSRemoteloker client -s SOURCEQUEUE -t 1
Table CloudKonDB is already ACTIVE
ubuntu@ip-172-31-59-73:~/CloudKonRemoteloker$ cd ..
ubuntu@ip-172-31-59-73:~/CloudKonRemoteloker$ ls
CloudKonRemoteloker
ubuntu@ip-172-31-59-73:~/CloudKonRemoteloker$ cd CloudKonRemoteloker/
ubuntu@ip-172-31-59-73:~/CloudKonRemoteloker$ java -cp /home/ubuntu/Cloudubuntu@ip-172-31-59-70:~/CloudKonRemoteloker$ java -cp /home/ubuntu/CloudKonRemoteloker/build/jar/Remoteloker.jar SOSRemoteloker client -s SOURCEQUEUE[otelloker/build/jar/Remoteloker.jar SOSRemoteloker client -s SOURCEQUEUE -t 1
Table CloudKonDB is already ACTIVE
Table Created SUCCESSFULLY !!!
[]

1_cable.rcn.com
ubuntu@ip-172-31-59-72:$ ls
CloudKonRemoteloker
ubuntu@ip-172-31-59-72:$ cd CloudKonRemoteloker/
ubuntu@ip-172-31-59-72:~/CloudKonRemoteloker$ ant
Buildfile: /home/ubuntu/CloudKonRemoteloker/build.xml

init:
compileCloudKonRemote:
[javac] /home/ubuntu/CloudKonRemoteloker/build.xml:9: warning: 'includeant runtime' was not set, defaulting to build.sysclasspath=last; set to false for repeatable builds
RunRemoteSidejar:
[jar] Building jar: /home/ubuntu/CloudKonRemoteloker/build/jar/RemoteWorker.jar
main:
BUILD SUCCESSFUL
Total time: 12 seconds
ubuntu@ip-172-31-59-72:~/CloudKonRemoteloker$ ls
bin Credentials.properties build lib
build.xml RemotelokerScript.sh
ubuntu@ip-172-31-59-72:~/CloudKonRemoteloker$ java -cp /home/ubuntu/Cloudubuntu@ip-172-31-59-69:~/CloudKonRemoteloker/build/jar/Remoteloker.jar SOSRemoteloker client -s SOURCEQUEUE[otelloker/build/jar/Remoteloker.jar SOSRemoteloker client -s SOURCEQUEUE -t 1
Table CloudKonDB is already ACTIVE
[]

File Hosts Send Help

```

The terminal shows the creation of a database table, compilation of Java code, and execution of workers. It also lists files in the current directory and shows a successful build.

## Worker 4; Sleep 0 ms ; Tasks 10K

```
ubuntu@ip-172-31-51-59:~/CloudKonClient
ubuntu@ip-172-31-51-59:~$ cd Utility/
ubuntu@ip-172-31-51-59:~/Utility$ ls
bin build build.xml build.xml config.properties src
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 200 1000
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~$ cd CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 107093.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility/
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility$ rm Utility
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 10 10000
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 101409.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility/
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 10000 0
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 359315.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$
```

DynamoDB - AWS Console - Mozilla Firefox

Inbox (1,575) - akedar... | Fwd: cluster ssh - abhi... | Welcome, Abhijeet - ... | prog3\_v2.pdf | SQS Management Co... | DynamoDB - AWS Con... | Exception in thread "..."

https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=CloudKonDB

AWS Services EC2 RDS SQS DynamoDB Edit

Abhijeet Kedari N. Virginia Support

**DynamoDB**

Dashboard Tables Reserved capacity

Create table Actions

Filter by table name

Name

CloudKonDB

CloudKonDB Close

Overview Items Metrics Alarms Capacity Indexes Triggers Access control

Create item Actions

Scan: [Table] CloudKonDB: id ▲ Viewing 1 to 100 items ▶

Scan [Table] CloudKonDB: id Add filter Start search

	id	status
task3042	0	
task3729	0	
task3333	0	
task2001	0	
task6561	0	
task3920	0	

Feedback English

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Mozilla Firefox seems slow... to... start. Learn How to Speed It Up Don't Tell Me Again

SQS Management Console - Mozilla Firefox

Inbox (1,575) - akedar... | Fwd: cluster ssh - abhi... | Welcome, Abhijeet - ... | prog3\_v2.pdf | SQS Management Co... | DynamoDB - AWS Con... | Exception in thread "... | 1:52 AM

https://console.aws.amazon.com/sqs/home?region=us-east-1#queue-browser:prefix=

AWS Services EC2 RDS SQS DynamoDB Edit

Abhijeet Kedari N. Virginia Support

Create New Queue Queue Actions

Filter by Prefix: Enter Text...

Name	Messages Available	Messages in Flight	Created
RESULTRQUEUE	6,428	1	2016-05-01 01:43:27 GMT-05:00
SOURCEQUEUE	2,770	0	2016-05-01 01:43:27 GMT-05:00

https://console.aws.amazon.com/dynamodb/home?region=us-east-1 © 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use

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## Worker 4; Sleep 10 ms ; Tasks 4000

```
ubuntu@ip-172-31-51-59:~/CloudKonClient
awscredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~$ cd Utility/
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 20 10000
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
awscredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 101409.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 10000 0
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
awscredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
^Cubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 359315.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ 
ubuntu@ip-172-31-51-59:~/CloudKonClient$ 
ubuntu@ip-172-31-51-59:~/CloudKonClient$ 
ubuntu@ip-172-31-51-59:~/CloudKonClient$ 
ubuntu@ip-172-31-51-59:~/CloudKonClient$ 
ubuntu@ip-172-31-51-59:~/CloudKonClient$ 
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
awscredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
awscredentials.properties bin build build.xml lib src
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility$ ls
bin build build.xml config.properties src
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 4000 10
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 114903.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ 
```

DynamoDB - AWS Console - Mozilla Firefox

Inbox (1,575) - akedar... Fwd: cluster ssh - abhi... Welcome, Abhijeet - ... prog3\_v2.pdf SQS Management Co... DynamoDB - AWS Con... Exception in thread "... 2:01 AM

https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=CloudKonDB

AWS Services EC2 RDS SQS DynamoDB Edit

Abhijeet Kedari N. Virginia Support

DynamoDB Dashboard Tables Reserved capacity

Create table Actions

Filter by table name

Name CloudKonDB

CloudKonDB Close

Overview Items Metrics Alarms Capacity Indexes Triggers Access control

Create item Actions

Scan [Table] CloudKonDB: id Viewing 1 to 100 items

Scan [Table] CloudKonDB: id Add filter Start search

	id	status
	task308	0
	task730	0
	task550	0
	task591	0
	task676	0
	task213	0

Feedback English

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Learn How to Speed It Up Don't Tell Me Again

SQS Management Console - Mozilla Firefox

Inbox (1,575) - akedar... Fwd: cluster ssh - abhi... Welcome, Abhijeet - ... prog3\_v2.pdf SQS Management Co... DynamoDB - AWS Con... Exception in thread "... 2:01 AM

https://console.aws.amazon.com/sqs/home?region=us-east-1#queue-browser:prefix=

AWS Services EC2 RDS SQS DynamoDB Edit

Abhijeet Kedari N. Virginia Support

Create New Queue Queue Actions

Filter by Prefix: Enter Text...

Name Messages Available Messages in Flight Created

Name	Messages Available	Messages in Flight	Created
RESULTQUEUE	1,283	0	2016-05-01 02:00:12 GMT-05:00
SOURCEQUEUE	625	0	2016-05-01 02:00:11 GMT-05:00

Feedback English

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Mozilla Firefox seems slow... to... start.

Learn How to Speed It Up Don't Tell Me Again

## Worker 4; Sleep 1 Second ; Tasks 400

```
ubuntu@ip-172-31-51-59:~/CloudKonClient
ubuntu@ip-172-31-51-59-:~ cd Utility/
ubuntu@ip-172-31-51-59-:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 10000 0
ubuntu@ip-172-31-51-59-:~/Utility$ cd ..
ubuntu@ip-172-31-51-59-:~/CloudKonClient/
ubuntu@ip-172-31-51-59-:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59-:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
<Ubuntu@ip-172-31-51-59-:~/CloudKonClient>java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!
Total Time= 359315.0 milliseconds
ubuntu@ip-172-31-51-59-:~/CloudKonClient$ 
ubuntu@ip-172-31-51-59-:~/CloudKonClient$ 
ubuntu@ip-172-31-51-59-:~/CloudKonClient$ 
ubuntu@ip-172-31-51-59-:~/CloudKonClient$ 
ubuntu@ip-172-31-51-59-:~/CloudKonClient$ 
ubuntu@ip-172-31-51-59-:~/CloudKonClient$ 
ubuntu@ip-172-31-51-59-:~/CloudKonClient$ 
ubuntu@ip-172-31-51-59-:~/CloudKonClient$ 
ubuntu@ip-172-31-51-59-:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59-:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59-:~/CloudKonClient$ ls
ubuntu@ip-172-31-51-59-:~/CloudKonClient$ cd Utility/
ubuntu@ip-172-31-51-59-:~/Utility$ ls
bin build build.xml config.properties- src
ubuntu@ip-172-31-51-59-:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 4000 10
ubuntu@ip-172-31-51-59-:~/Utility$ cd ..
ubuntu@ip-172-31-51-59-:~/CloudKonClient/
ubuntu@ip-172-31-51-59-:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!
Total Time= 114903.0 milliseconds
ubuntu@ip-172-31-51-59-:~/CloudKonClient$ 
ubuntu@ip-172-31-51-59-:~/CloudKonClient$ 
ubuntu@ip-172-31-51-59-:~/CloudKonClient$ 
ubuntu@ip-172-31-51-59-:~/CloudKonClient$ cd Utility/
ubuntu@ip-172-31-51-59-:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 400 1000
ubuntu@ip-172-31-51-59-:~/Utility$ cd ..
ubuntu@ip-172-31-51-59-:~/CloudKonClient/
ubuntu@ip-172-31-51-59-:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59-:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!
Total Time= 107349.0 milliseconds
ubuntu@ip-172-31-51-59-:~/CloudKonClient$ 
```

DynamoDB - AWS Console - Mozilla Firefox

Inbox (1,575) - akedar... | Fwd: cluster ssh - abhi... | Welcome, Abhijeet - ... | prog3\_v2.pdf | SQS Management Co... | DynamoDB - AWS Con... | Exception in thread "..." | 2:09 AM

https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=CloudKonDB

AWS Services EC2 RDS SQS DynamoDB Edit

Abhijeet Kedare N. Virginia Support

**DynamoDB**

- Dashboard
- Tables
- Reserved capacity

**Create table** Actions

Filter by table name

Name
CloudKonDB

**CloudKonDB** Close

Overview Items Metrics Alarms Capacity Indexes Triggers Access control

**Create item** Actions

Scan: [Table] CloudKonDB: id ↕ Viewing 1 to 100 items >

Scan [Table] CloudKonDB: id Add filter Start search

	id	status
task308	0	
task213	0	
task193	0	
task25	0	
task34	0	
task365	0	

Feedback English

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Mozilla Firefox seems slow... to... start. Learn How to Speed It Up Don't Tell Me Again

SQS Management Console - Mozilla Firefox

The screenshot shows the AWS SQS Management Console interface. At the top, there are several tabs including 'Inbox (1,575)', 'Fwd: cluster ssh - abhi...', 'Welcome, Abhijeet - ...', 'prog3\_v2.pdf', 'SQS Management Co...', 'DynamoDB - AWS Con...', and 'Exception in thread "...'. Below the tabs, the navigation bar includes links for AWS Services (EC2, RDS, SQS, DynamoDB), Edit, and Support. The main content area displays a table of queues. A 'Create New Queue' button is at the top left of the table. The table has columns for Name, Messages Available, Messages in Flight, and Created. Two rows are visible: 'RESULTQUEUE' (Created 2016-05-01 02:05:20 GMT-05:00) and 'SOURCEQUEUE' (Created 2016-05-01 02:05:20 GMT-05:00). There are 0 messages available for both and 1 message in flight for the result queue.

Name	Messages Available	Messages in Flight	Created
RESULTQUEUE	0	1	2016-05-01 02:05:20 GMT-05:00
SOURCEQUEUE	77	0	2016-05-01 02:05:20 GMT-05:00

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## Worker 4; Sleep 10 Second ; Tasks 40

```
ubuntu@ip-172-31-51-59:~/CloudKonClient$ 
ubuntu@ip-172-31-51-59:~/CloudKonClient$ 
ubuntu@ip-172-31-51-59:~/CloudKonClient$ 
ubuntu@ip-172-31-51-59:~/CloudKonClient$ 
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility$ 
ubuntu@ip-172-31-51-59:~/Utility$ ls
bin build build.xml build.xml config.properties- src
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 4000 10
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 114903.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility$ 
ubuntu@ip-172-31-51-59:~/Utility$ ls
bin build build.xml build.xml config.properties- src
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 400 1000
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 101404.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ 
```

DynamoDB - AWS Console - Mozilla Firefox

Inbox (1,575) - akedar... Fwd: cluster ssh - abhi... Welcome, Abhijeet - ... prog3\_v2.pdf SQS Management Co... DynamoDB - AWS Con... Exception in thread "...

https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=CloudKonDB

AWS Services EC2 RDS SQS DynamoDB Edit

Abhijeet Kedari N. Virginia Support

DynamoDB Dashboard Tables Reserved capacity

Create table Actions

Filter by table name

Name CloudKonDB

CloudKonDB Close

Overview Items Metrics Alarms Capacity Indexes Triggers Access control

Recent alerts

No CloudWatch alarms have been triggered for this table.

Stream details

Stream enabled No  
View type -  
Latest stream ARN -  
Manage Stream

Table details

Table name	CloudKonDB
Primary partition key	id (String)
Primary sort key	-
Table status	Active
Creation date	May 1, 2016 at 2:14:18 AM UTC-5
Provisioned read capacity units	100
Provisioned write capacity units	100

Feedback English

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DynamoDB - AWS Console

SQS Management Console - Mozilla Firefox

Inbox (1,575) - akedar... Fwd: cluster ssh - abhi... Welcome, Abhijeet - ... prog3\_v2.pdf SQS Management Co... DynamoDB - AWS Con... Exception in thread "...

https://console.aws.amazon.com/sqs/home?region=us-east-1#queue-browser:prefix=

AWS Services EC2 RDS SQS DynamoDB Edit

Abhijeet Kedari N. Virginia Support

Create New Queue Queue Actions

Filter by Prefix: Enter Text...

Name	Messages Available	Messages in Flight	Created
RESULTQUEUE	0	0	2016-05-01 02:14:17 GMT-05:00
SOURCEQUEUE	39	0	2016-05-01 02:14:17 GMT-05:00

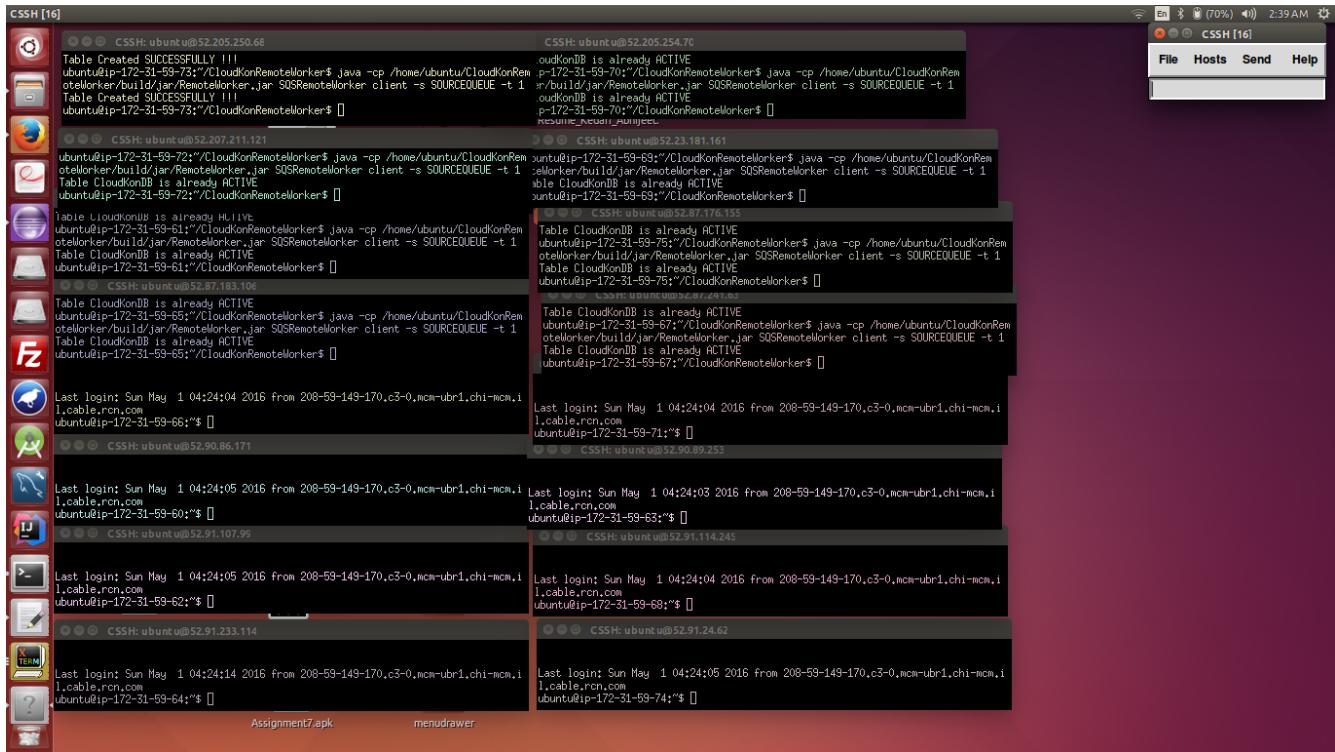
Feedback English

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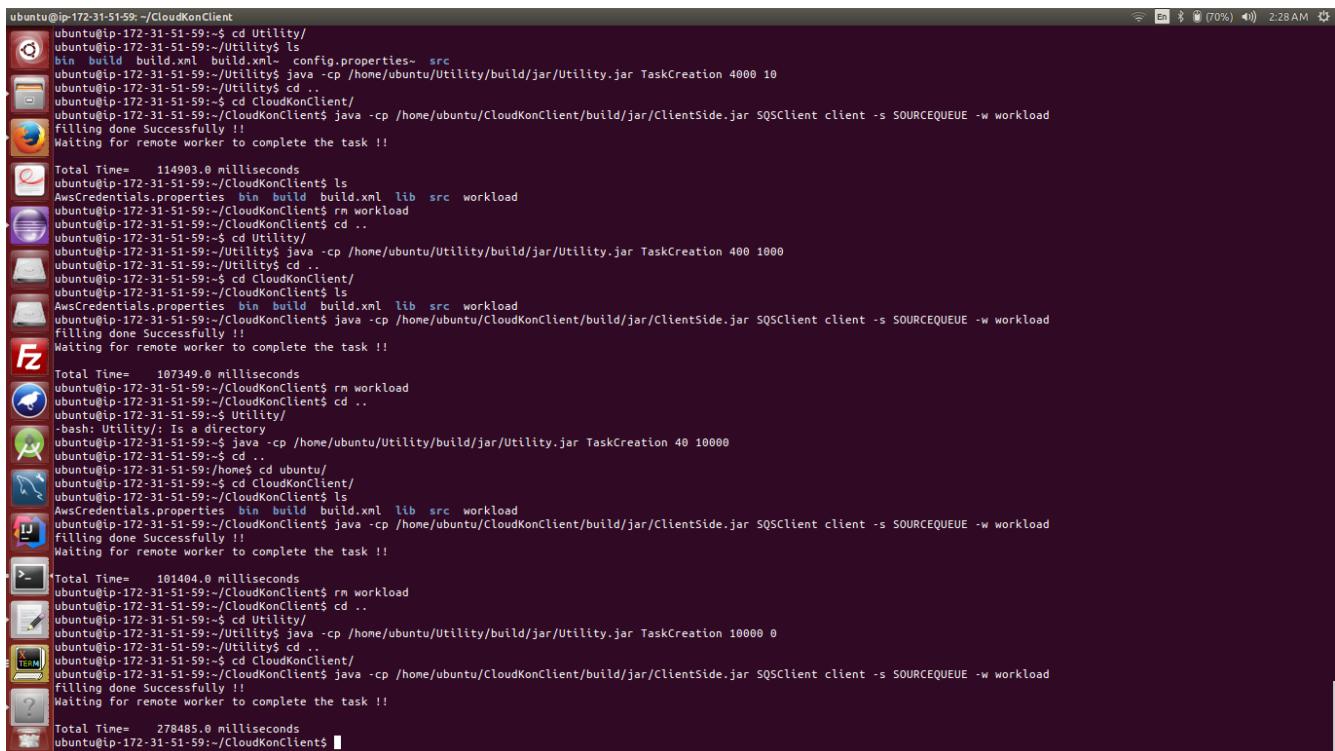
Mozilla Firefox seems slow... to... start. Learn How to Speed It Up Don't Tell Me Again

SQS Management Console

## 8 workers running



## Worker 8; Sleep 0 ms ; Tasks 10K



DynamoDB - AWS Console - Mozilla Firefox

Inbox (1,575) - akedar... | Fwd: cluster ssh - abhi... | Welcome, Abhijeet - ... | prog3\_v2.pdf | SQS Management Co... | DynamoDB - AWS Con... | Exception in thread "..."

https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=CloudKonDB

AWS Services EC2 RDS SQS DynamoDB Edit

Abhijeet Kedari N. Virginia Support

DynamoDB

Dashboard

Tables

Reserved capacity

Create table Actions

Filter by table name

Name

CloudKonDB

CloudKonDB Close

Overview Items Metrics Alarms Capacity Indexes Triggers Access control

Create item Actions

Scan [Table] CloudKonDB: id

+ Add filter Start search

Viewing 1 to 100 items

	id	status
task3042	0	
task3729	0	
task3333	0	
task2001	0	
task3920	0	
task3276	0	

Feedback English

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Mozilla Firefox seems slow... to... start.

Learn How to Speed It Up Don't Tell Me Again

SQS Management Console - Mozilla Firefox

Inbox (1,575) - akedar... | Fwd: cluster ssh - abhi... | Welcome, Abhijeet - ... | prog3\_v2.pdf | SQS Management Co... | DynamoDB - AWS Con... | Exception in thread "..."

https://console.aws.amazon.com/sqs/home?region=us-east-1#queue-browser:prefix=

AWS Services EC2 RDS SQS DynamoDB Edit

Abhijeet Kedari N. Virginia Support

Create New Queue Queue Actions

Filter by Prefix: Enter Text...

Name Messages Available Messages in Flight Created

RESULTQUEUE 7,978 0 2016-05-01 02:21:34 GMT-05:00

SOURCEQUEUE 591 0 2016-05-01 02:21:34 GMT-05:00

Feedback English

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Mozilla Firefox seems slow... to... start.

Learn How to Speed It Up Don't Tell Me Again

## Worker 8; Sleep 10 ms ; Tasks 8000

```
ubuntu@ip-172-31-51-59:~/CloudKonClient
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility/
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 400 1000
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 107349.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility/
-bash: Utility/: Is a directory
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 40 10000
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 101404.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility/
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 10000 0
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 278485.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility/
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 8000 10
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 208593.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$
```

DynamoDB - AWS Console - Mozilla Firefox

Inbox (1,575) akeader... Fwd: cluster ssh - abhi... Welcome, Abhijeet -... prog3\_v2.pdf SQS Management Co... DynamoDB - AWS Con... Exception in thread "...

AWS Services EC2 RDS SQS DynamoDB Edit Abhijeet Kedari N. Virginia Support

**DynamoDB** Create table Actions

Dashboard Tables Reserved capacity

CloudKonDB Close

Overview Items Metrics Alarms Capacity Indexes Triggers Access control

Create item Actions

Scan: [Table] CloudKonDB: id ▲ Viewing 1 to 100 items >

Scan [Table] CloudKonDB: id Add filter Start search

	id	status
task3042	0	
task3729	0	
task3333	0	
task2001	0	
task3920	0	
task3276	0	

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SQS Management Console - Mozilla Firefox

Inbox (1,575) - aked... | Fwd: cluster ssh - abhi... | Welcome, Abhijeet - ... | prog3\_v2.pdf | SQS Management Co... | DynamoDB - AWS Con... | Exception in thread "..."

https://console.aws.amazon.com/sqs/home?region=us-east-1#queue-browser:selected=https://sqs.us-east-1.amazonaws.com/4608518321

SQS Management Console

AWS Services EC2 RDS SQS DynamoDB Edit

Create New Queue Queue Actions

Filter by Prefix: Enter Text...

Name	Messages Available	Messages in Flight	Created
RESULTQUEUE	6,044	0	2016-05-01 02:30:36 GMT-05:00
SOURCEQUEUE	2,119	0	2016-05-01 02:30:36 GMT-05:00

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Mozilla Firefox seems slow... to... start. Learn How to Speed It Up Don't Tell Me Again

## Worker 8; Sleep 1 second ; Tasks 800

```
ubuntu@ip-172-31-51-59:~/CloudKonClient
Total Time= 107349.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~$ Utility/
-bash: Utility/: Is a directory
ubuntu@ip-172-31-51-59:~$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 40 10000
ubuntu@ip-172-31-51-59:~$ cd ..
ubuntu@ip-172-31-51-59:~$ cd ..
ubuntu@ip-172-31-51-59:~$ cd CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 101404.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~$ cd Utility/
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 10000 0
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~$ cd CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 278485.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~$ cd Utility/
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 8000 10
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~$ cd CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 208593.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~$ cd Utility/
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 800 1000
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~$ cd CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 106632.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$
```

DynamoDB - AWS Console - Mozilla Firefox

Inbox (1,575) - akedar... | Fwd: cluster ssh - abhi... | Welcome, Abhijeet - ... | prog3\_v2.pdf | SQS Management Co... | DynamoDB - AWS Con... | Exception in thread "..."

https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=CloudKonDB

AWS Services EC2 RDS SQS DynamoDB Edit

Abhijeet Kedari N. Virginia Support

DynamoDB

Dashboard

Tables

Reserved capacity

Create table Actions

Filter by table name

Name

CloudKonDB

CloudKonDB Close

Overview Items Metrics Alarms Capacity Indexes Triggers Access control

Create item Actions

Scan [Table] CloudKonDB: id

Scan [Table] CloudKonDB: id

+ Add filter Start search

Viewing 1 to 100 items

	id	status
task3042	0	
task3729	0	
task3333	0	
task2001	0	
task3920	0	
task3276	0	

Transferring data from console.aws.amazon.com...

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SQS Management Console - Mozilla Firefox

Inbox (1,575) - akedar... | Fwd: cluster ssh - abhi... | Welcome, Abhijeet - ... | prog3\_v2.pdf | SQS Management Co... | DynamoDB - AWS Con... | Exception in thread "..."

https://console.aws.amazon.com/sqs/home?region=us-east-1#queue-browser:selected=https://sqsc.us-east-1.amazonaws.com/4608518321

AWS Services EC2 RDS SQS DynamoDB Edit

Abhijeet Kedari N. Virginia Support

Create New Queue Queue Actions

Filter by Prefix: Enter Text...

Name	Messages Available	Messages in Flight	Created
RESULTRQUEUE	0	0	2016-05-01 02:36:30 GMT-05:00
SOURCEQUEUE	291	0	2016-05-01 02:36:30 GMT-05:00

Feedback English

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Mozilla Firefox seems slow... to... start.

Learn How to Speed It Up Don't Tell Me Again

## Worker 8; Sleep 10 second ; Tasks 80

```
ubuntu@ip-172-31-51-59:~/CloudKonClient
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/clientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 101404.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility/
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 10000 0
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 278485.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility/
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 8000 10
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 208593.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility/
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 800 1000
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/clientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 106632.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility/
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 80 10000
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 101370.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$
```

DynamoDB - AWS Console - Mozilla Firefox

	id	status
task3	0	
task13	0	
task33	0	
task4	0	
task20	0	
task0	0	

The screenshot shows the AWS SQS Management Console in Mozilla Firefox. The interface includes a top navigation bar with links for AWS Services like EC2, RDS, SQS, and DynamoDB. Below this is a main content area with tabs for 'Create New Queue' and 'Queue Actions'. A search bar and filter options ('Filter by Prefix: Enter Text...') are present. A table lists two queues:

Name	Messages Available	Messages in Flight	Created
RESULTQUEUE	0	0	2016-05-01 02:42:01 GMT-05:00
SOURCEQUEUE	42	0	2016-05-01 02:42:00 GMT-05:00

At the bottom, there are links for Feedback, English, and a note about Firefox speed. The footer contains copyright information and links for Privacy Policy and Terms of Use.

## 16 workers running

The screenshot displays multiple terminal windows (XTerm) showing the output of running the CloudKonRemoteWorker Java application. Each window shows a command being run to start the worker on a specific port, followed by a confirmation message that the table 'CloudKonDB' is already ACTIVE. The terminals are distributed across several IP addresses, including 52.205.254.70, 52.23.181.161, 52.87.176.155, 52.90.84.83, 52.90.89.253, 52.91.107.99, 52.91.233.114, and 52.91.24.62. The workers are likely part of a distributed system processing data from the SOURCEQUEUE into the RESULTQUEUE.

## Worker 16; Sleep 0 ms; Tasks 10K

```
ubuntu@ip-172-31-51-59:~/CloudKonClient
ubuntu@ip-172-31-51-59:~$ cd CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/clientSide.jar SQSClient client -s SOURCEQUEUE -w workload
Filling done Successfully !!
Waiting for remote worker to complete the task !!
Total Time= 278485.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility/
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 8000 10
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!
Total Time= 2088593.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility/
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 800 1000
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!
Total Time= 106632.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility/
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 80 10000
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!
Total Time= 101370.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility/
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 10000 0
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!
Total Time= 290672.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$
```

DynamoDB - AWS Console - Mozilla Firefox

Inbox (1,575) - akedara... | Fwd: cluster ssh - abhi... | Welcome, Abhijeet - ... | prog3\_v2.pdf | SQS Management Co... | DynamoDB - AWS Con... | Exception in thread "..."

AWS Services EC2 RDS SQS DynamoDB Edit

Abhijeet Kedari N. Virginia Support

**DynamoDB**

Dashboard Tables Reserved capacity

Create table Actions

Filter by table name Name

CloudKonDB Close

Overview Items Metrics Alarms Capacity Indexes Triggers Access control

Create item Actions

Scan: [Table] CloudKonDB: id ▲ Viewing 1 to 100 items ▶

Scan [Table] CloudKonDB: id Add filter Start search

	id	status
	task3042	0
	task3729	0
	task3333	0
	task2001	0
	task3920	0
	task3276	0

Feedback English

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SQS Management Console - Mozilla Firefox

Inbox (1,575) - aked... | Fwd: cluster ssh - abhi... | Welcome, Abhijeet - ... | prog3\_v2.pdf | SQS Management Co... | DynamoDB - AWS Con... | Exception in thread "... | 2:49 AM

AWS Services EC2 RDS SQS DynamoDB Edit Abhijeet Kedari N. Virginia Support

Create New Queue Queue Actions

Filter by Prefix: Enter Text...

Name	Messages Available	Messages in Flight	Created
RESULTQUEUE	10,532	0	2016-05-01 02:46:44 GMT-05:00
SOURCEQUEUE	2,858	0	2016-05-01 02:46:44 GMT-05:00

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Mozilla Firefox seems slow... to... start. Learn How to Speed It Up Don't Tell Me Again

## Worker 16; Sleep 10 ms; Tasks 16000

```
ubuntu@ip-172-31-51-59:~/CloudKonClient
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 106632.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 80 10000
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 101370.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 10000 0
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 290672.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 16000 10
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 1307763.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ^C
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ^C
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ^C
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 856031.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ^C
ubuntu@ip-172-31-51-59:~/CloudKonClient$
```

DynamoDB - AWS Console - Mozilla Firefox

Inbox (1,575) - akedar... Fwd: cluster ssh - abhi... Welcome, Abhijeet - ... prog3\_v2.pdf SQS Management Co... DynamoDB - AWS Con... Exception in thread "... 2:56 AM

https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=CloudKonDB

AWS Services EC2 RDS SQS DynamoDB Edit

Abhijeet Kedari N. Virginia Support

DynamoDB Dashboard Tables Reserved capacity

Create table Actions

Filter by table name

Name CloudKonDB

CloudKonDB Close

Overview Items Metrics Alarms Capacity Indexes Triggers Access control

Create item Actions

Scan: [Table] CloudKonDB: id ▲ Viewing 1 to 100 items

Scan [Table] CloudKonDB: id + Add filter Start search

	id	status
	task3042	0
	task3729	0
	task3333	0
	task2001	0
	task3920	0
	task3276	0

Feedback English

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Mozilla Firefox seems slow... to... start.

Learn How to Speed It Up Don't Tell Me Again

SQS Management Console - Mozilla Firefox

Inbox (1,575) - akedar... Fwd: cluster ssh - abhi... Welcome, Abhijeet - ... prog3\_v2.pdf SQS Management Co... DynamoDB - AWS Con... Exception in thread "... 2:56 AM

https://console.aws.amazon.com/sqs/home?region=us-east-1#queue-browser:selected=https://sqs.us-east-1.amazonaws.com/4608518321

AWS Services EC2 RDS SQS DynamoDB Edit

Abhijeet Kedari N. Virginia Support

Create New Queue Queue Actions

Filter by Prefix: Enter Text...

Name Messages Available Messages in Flight Created

Name	Messages Available	Messages in Flight	Created
RESULTQUEUE	5,302	0	2016-05-01 02:54:46 GMT-05:00
SOURCEQUEUE	567	0	2016-05-01 02:54:45 GMT-05:00

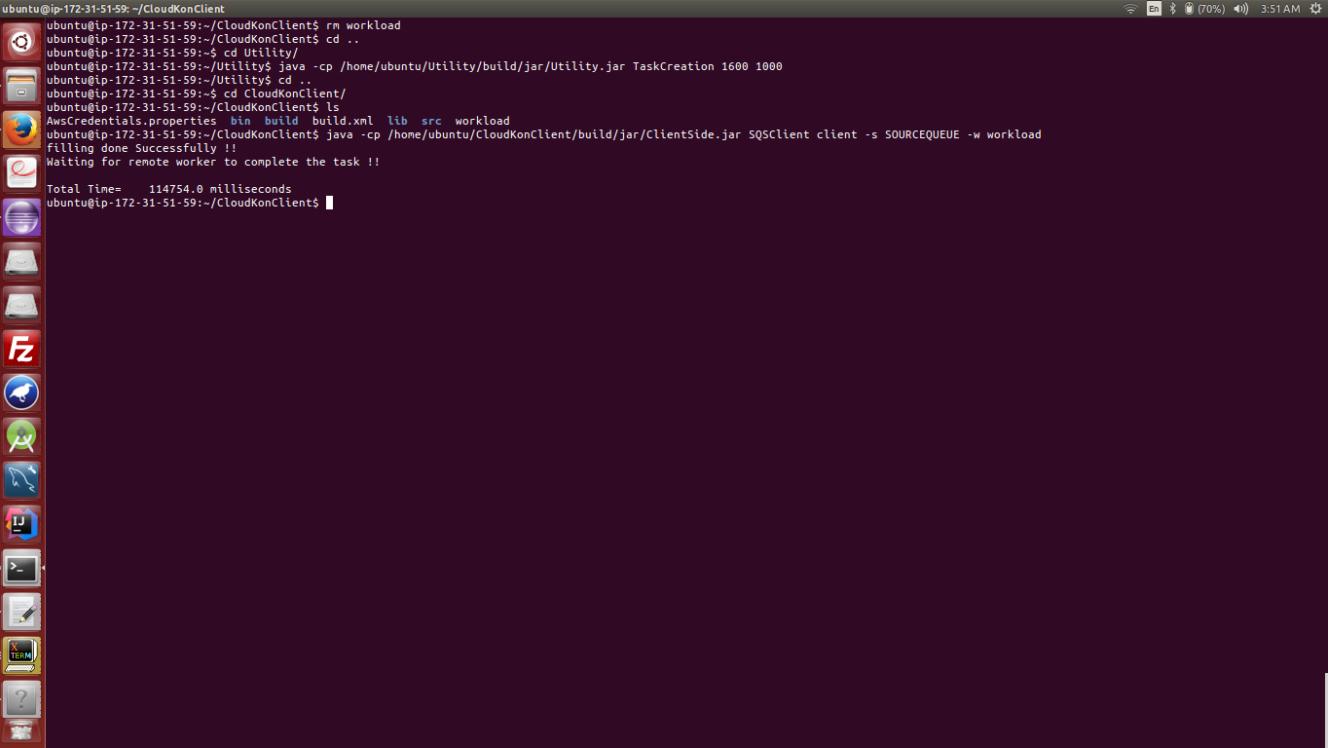
Feedback English

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Mozilla Firefox seems slow... to... start.

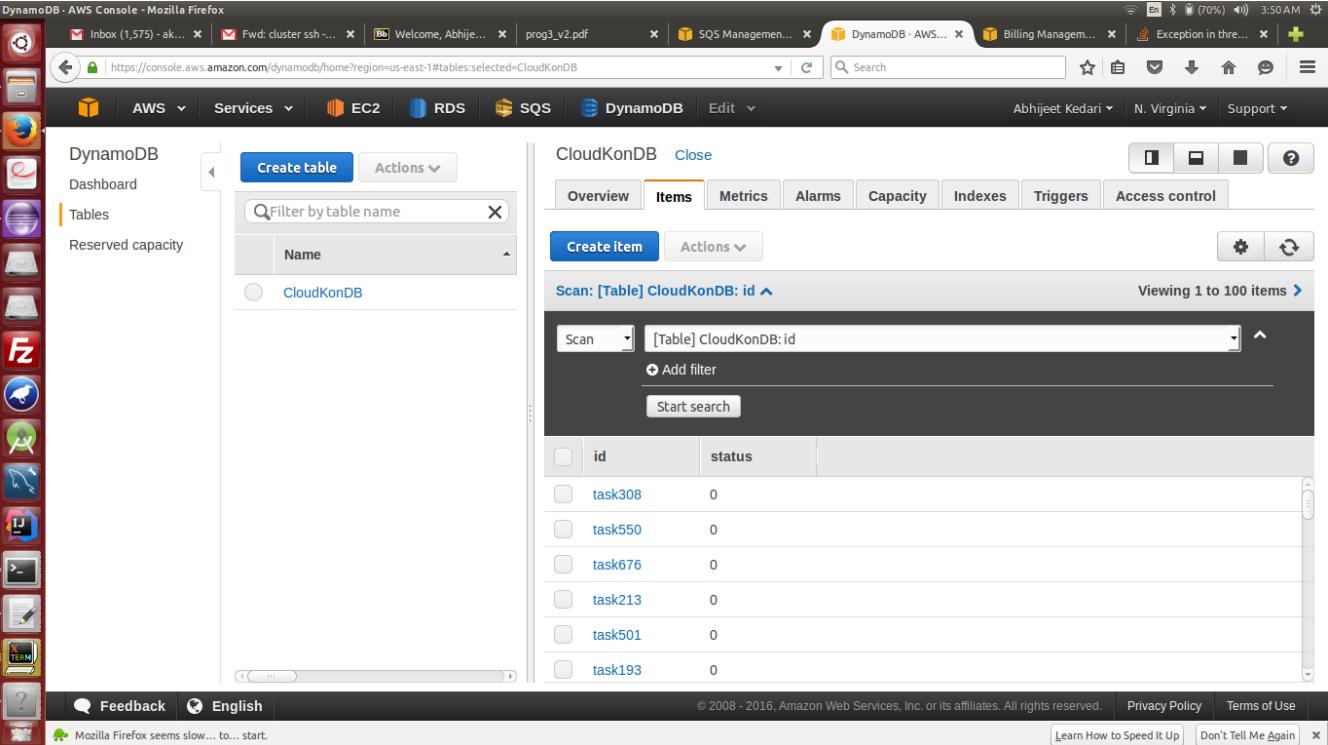
Learn How to Speed It Up Don't Tell Me Again

## Worker 16; Sleep 1 Second; Tasks 1600



```
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility/
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 1600 1000
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 114754.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$
```



DynamoDB · AWS Console - Mozilla Firefox

Inbox (1,575) | Fwd: cluster ssh ... | Welcome, Abhijeet Kedari | prog3\_v2.pdf | SQS Management | DynamoDB · AWS ... | Billing Management | Exception in thre...

https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=CloudKonDB

AWS Services: EC2 | RDS | SQS | **DynamoDB** | Edit

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**DynamoDB**

Dashboard

Tables

Reserved capacity

Create table Actions

Filter by table name

Name

CloudKonDB

**CloudKonDB** Close

Overview Items Metrics Alarms Capacity Indexes Triggers Access control

Create item Actions

Scan: [Table] CloudKonDB: id ▾ Viewing 1 to 100 items ▾

Scan [Table] CloudKonDB: id Add filter Start search

	id	status
task308	0	
task550	0	
task676	0	
task213	0	
task501	0	
task193	0	

Feedback English

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SQS Management Console - Mozilla Firefox

The screenshot shows the AWS SQS Management Console in Mozilla Firefox. The browser has several tabs open, including 'Inbox (1,575 - eka...)', 'Fwd: cluster ssh ...', 'Welcome, Abhije...', 'prog3\_v2.pdf', 'SQS Managemen...', 'DynamoDB - AWS...', 'Billing Managem...', and 'Exception in thre...'. The main content area displays the SQS queue browser with a prefix filter set to 'RESULTQUEUE'. Two queues are listed:

Name	Messages Available	Messages in Flight	Created
RESULTQUEUE	89	1	2016-05-01 03:49:29 GMT-05:00
SOURCEQUEUE	1,363	0	2016-05-01 03:49:29 GMT-05:00

At the bottom, there are links for 'Feedback' (with a green icon), 'English', and 'Privacy Policy / Terms of Use'. A note says 'Mozilla Firefox seems slow... to... start.' with options to 'Learn How to Speed It Up' or 'Don't Tell Me Again'.

## Worker 16; Sleep 10 Second; Tasks 160

```
ubuntu@ip-172-31-51-59:~/CloudKonClient
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd Utility/
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 1600 1000
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ ls
AwsCredentials.properties bin build build.xml lib src workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 114754.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$ rm workload
ubuntu@ip-172-31-51-59:~/CloudKonClient$ cd ..
ubuntu@ip-172-31-51-59:~/Utility$ java -cp /home/ubuntu/Utility/build/jar/Utility.jar TaskCreation 160 10000
ubuntu@ip-172-31-51-59:~/Utility$ cd ..
ubuntu@ip-172-31-51-59:~/CloudKonClient/
ubuntu@ip-172-31-51-59:~/CloudKonClient$ java -cp /home/ubuntu/CloudKonClient/build/jar/ClientSide.jar SQSClient client -s SOURCEQUEUE -w workload
filling done Successfully !!
Waiting for remote worker to complete the task !!

Total Time= 101486.0 milliseconds
ubuntu@ip-172-31-51-59:~/CloudKonClient$
```

DynamoDB - AWS Console - Mozilla Firefox

Inbox (1,575) - ak... Fwd: cluster ssh... Welcome, Abhije... prog3\_v2.pdf SQS Management... DynamoDB - AWS... Billing Management... Exception in thre... 3:56 AM

https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=CloudKonDB

AWS Services EC2 RDS SQS DynamoDB Edit

Abhijeet Kedari N. Virginia Support

DynamoDB Dashboard Tables Reserved capacity

Create table Actions

Filter by table name

Name CloudKonDB

CloudKonDB Close

Overview Items Metrics Alarms Capacity Indexes Triggers Access control

Create item Actions

Scan [Table] CloudKonDB: id

Scan [Table] CloudKonDB: id + Add filter Start search

Viewing 1 to 45 items

	id	status
	task25	0
	task34	0
	task54	0
	task32	0
	task41	0
	task60	0

Feedback English

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SQS Management Console - Mozilla Firefox

Inbox (1,575) - ak... Fwd: cluster ssh... Welcome, Abhije... prog3\_v2.pdf SQS Management... DynamoDB - AWS... Billing Management... Exception in thre... 3:55 AM

https://console.aws.amazon.com/sqs/home?region=us-east-1#queue-browser:prefix=

AWS Services EC2 RDS SQS DynamoDB Edit

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Create New Queue Queue Actions

Filter by Prefix: Enter Text...

Name Messages Available Messages in Flight Created

Name	Messages Available	Messages in Flight	Created
RESULTQUEUE	0	0	2016-05-01 03:54:16 GMT-05:00
SOURCEQUEUE	156	0	2016-05-01 03:54:15 GMT-05:00

Feedback English

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