

17 Instances started – 1 Client and 16 Workers

The screenshot shows the AWS EC2 Management Console interface. On the left, there's a sidebar with navigation links like 'Instances', 'Images', 'Elastic Block Store', 'Network & Security', 'Load Balancing', and 'Auto Scaling'. The main area displays a table of 17 instances. One instance is labeled 'Client' and is in the 'terminated' state. The other 16 instances are labeled 'Worker1' through 'Worker16' and are all in the 'running' state. Each instance row includes columns for Name, Instance ID, Instance Type, Availability Zone, Instance State, Status Checks, Alarm Status, Public DNS, Public IP, Key Name, Monitoring, and Launch Time.

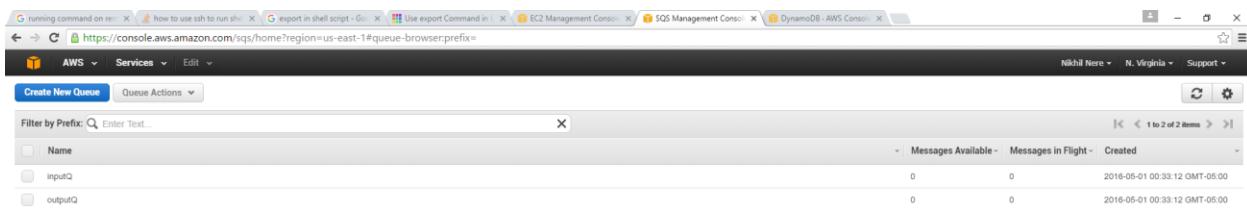
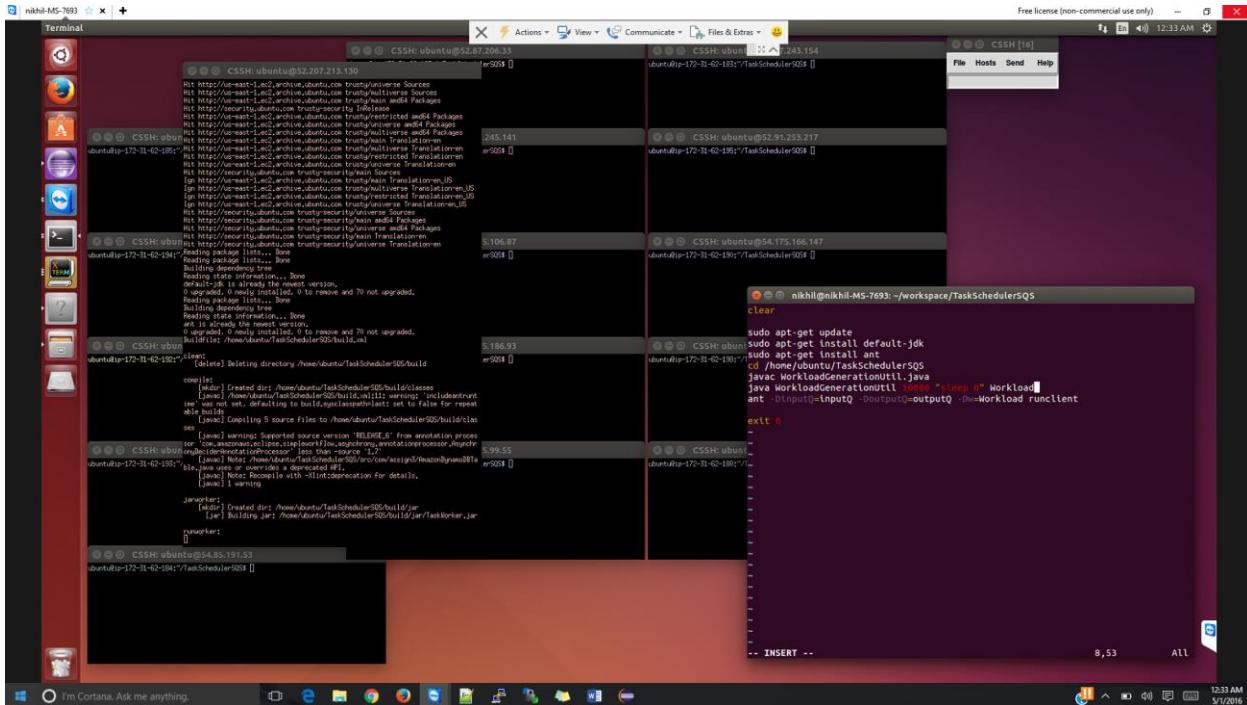
Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Public IP	Key Name	Monitoring	Launch Time
Client	i-3d3d53a0	t2.micro	us-east-1a	running	Initializing	None	ec2-54-172-170-204.cs.	54.172.170.204	nikhil	disabled	April 30, 2016 at 7:25 PM
Worker1	i-3c3d53a1	t2.micro	us-east-1a	running	Initializing	None	ec2-52-91-235-248.com.	52.91.235.248	nikhil	disabled	April 30, 2016 at 7:25 PM
Worker2	i-3d3d53a2	t2.micro	us-east-1a	running	Initializing	None	ec2-54-85-191-53.comp.	54.85.191.53	nikhil	disabled	April 30, 2016 at 7:25 PM
Worker3	i-3e3d53a3	t2.micro	us-east-1a	running	Initializing	None	ec2-52-87-243-154.com	52.87.243.154	nikhil	disabled	April 30, 2016 at 7:25 PM
Worker4	i-393d53a4	t2.micro	us-east-1a	running	Initializing	None	ec2-54-175-166-147.cs.	54.175.166.147	nikhil	disabled	April 30, 2016 at 7:25 PM
Worker5	i-383d53a5	t2.micro	us-east-1a	running	Initializing	None	ec2-52-91-245-141.com	52.91.245.141	nikhil	disabled	April 30, 2016 at 7:25 PM
Worker6	i-383d53a6	t2.micro	us-east-1a	running	Initializing	None	ec2-54-84-36-50.compu.	54.84.36.50	nikhil	disabled	April 30, 2016 at 7:25 PM
Worker7	i-343d53a9	t2.micro	us-east-1a	running	Initializing	None	ec2-54-174-161-82.com	54.174.161.82	nikhil	disabled	April 30, 2016 at 7:25 PM
Worker8	i-3a3d53a7	t2.micro	us-east-1a	running	Initializing	None	ec2-52-87-99-55.comp.	54.175.99.55	nikhil	disabled	April 30, 2016 at 7:25 PM
Worker9	i-353d53a8	t2.micro	us-east-1a	running	Initializing	None	ec2-52-91-253-217.com	52.91.253.217	nikhil	disabled	April 30, 2016 at 7:25 PM
Worker10	i-373d53aa	t2.micro	us-east-1a	running	Initializing	None	ec2-54-175-52-88.comp.	54.175.52.88	nikhil	disabled	April 30, 2016 at 7:25 PM
Worker11	i-363d53ab	t2.micro	us-east-1a	running	Initializing	None	ec2-52-91-185-15.com	54.175.185.15	nikhil	disabled	April 30, 2016 at 7:25 PM
Worker12	i-313d53ac	t2.micro	us-east-1a	running	Initializing	None	ec2-54-175-186-93.com	54.175.186.93	nikhil	disabled	April 30, 2016 at 7:25 PM
Worker13	i-303d53ad	t2.micro	us-east-1a	running	Initializing	None	ec2-54-175-187-36.com	54.175.187.36	nikhil	disabled	April 30, 2016 at 7:25 PM
Worker14	i-333d53ae	t2.micro	us-east-1a	running	Initializing	None	ec2-52-87-206-33.compu.	52.87.206.33	nikhil	disabled	April 30, 2016 at 7:25 PM
Worker15	i-323d53af	t2.micro	us-east-1a	running	Initializing	None	ec2-52-207-213-130.co...	52.207.213.130	nikhil	disabled	April 30, 2016 at 7:25 PM
Worker16	i-263d53bb	t2.micro	us-east-1a	running	Initializing	None	ec2-54-175-106-87.com	54.175.106.87	nikhil	disabled	April 30, 2016 at 7:25 PM
Client	i-84dd8b19	t2.micro	us-east-1a	terminated	None	None	nikhil@i-84dd8b19:~\$	nikhil	disabled	April 30, 2016 at 7:25 PM	
Worker	i-834a471a	t2.micro	us-east-1a	terminated	None	None	nikhil@i-834a471a:~\$	nikhil	disabled	April 30, 2016 at 7:25 PM	

The code is copied to all the instances

The screenshot shows a Windows desktop with a taskbar at the bottom. On the desktop, there are multiple terminal windows titled 'SSH: ubuntu@[IP]' for various instances. A context menu is open over one of the terminal windows, listing options like 'File', 'Hosts', 'Send', and 'Help'. The menu also shows a list of recent hosts, including IP addresses such as 52.207.213.130, 52.87.206.33, 52.87.243.154, 52.91.235.248, 52.91.245.141, 52.91.253.217, 54.174.161.82, 54.175.106.87, 54.175.166.147, 54.175.185.15, 54.175.186.93, 54.175.187.36, 54.175.52.88, 54.175.99.55, 54.84.36.50, and 54.85.191.53. The desktop background is dark, and the taskbar includes icons for File Explorer, Task Scheduler, and others.

Using Cluster SSH. Running 1 worker.

Case: 1 Worker, 10K Tasks, Task is sleep 0



An item consists of one or more attributes. Each attribute consists of a name, a data type, and a value. When you read or write an item, the only attributes that are required are those that make up the primary key. More info

```

nikhil@nikhil-MS-7693:~/workspace/TaskSchedulerSQS
Reading package lists...
Building dependency tree...
Reading state information...
ant is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 70 not upgraded.
Buildfile: /home/ubuntu/TaskSchedulerSQS/build.xml

clean:
[delete] Deleting directory /home/ubuntu/TaskSchedulerSQS/build

compile:
[mkdir] Created dir: /home/ubuntu/TaskSchedulerSQS/build/classes
[javac] Compiling 5 source files to /home/ubuntu/TaskSchedulerSQS/build/classes
[javac] warning: Supported source version 'RELEASE_6' from annotation processor
[javac] com.amazonaws.eclipse.typeface.annotation.processor.Deprecated
[javac] was not set, defaulting to build.sysclasspathlast; set to false for repeatable builds
[javac] Note: Recompile with -Xlint:deprecation for details.
[javac] I warning

javarunt:
[mkdir] Created dir: /home/ubuntu/TaskSchedulerSQS/build/jar
[jar] Building jar: /home/ubuntu/TaskSchedulerSQS/build/jar/TaskSchedulerClient.jar
runclient:
[jarclient]:
[mkdir] Created dir: /home/ubuntu/TaskSchedulerSQS/build/jar
[jar] Building jar: /home/ubuntu/TaskSchedulerSQS/build/jar/TaskSchedulerClient.jar

```

SQS Management Console				
AWS	Services	Edit	Nikhil Nere	N. Virginia
Create New Queue	Queue Actions			
Filter by Prefix: <input type="text"/> Enter Text... X				
Name	Messages Available	Messages in Flight	Created	
inputQ	3,229	0	2016-05-01 00:33:12 GMT-05:00	
outputQ	951	0	2016-05-01 00:33:12 GMT-05:00	

The screenshot shows the AWS DynamoDB console interface. On the left, the navigation bar includes 'Feedback', 'English', and the 'AWS Services' dropdown set to 'DynamoDB'. Below it are links for 'Dashboard', 'Tables', and 'Reserved capacity'. The main area shows a table named 'intermediateTable' with one item: 'idValue' is 'sleep 0'. The table has columns 'Name', 'Status', and 'Partition key'. The 'Actions' dropdown menu is open, showing options like 'Create item', 'Actions', 'Scan', 'Add filter', and 'Start search'. The search bar contains '[Table] intermediateTable: id'. The top right corner shows the user 'Nikhil Nere', the region 'N. Virginia', and a 'Support' link.

	id	idValue
228	sleep 0	
1168	sleep 0	
328	sleep 0	
99	sleep 0	
475	sleep 0	
566	sleep 0	
63	sleep 0	
1088	sleep 0	
1123	sleep 0	
1126	sleep 0	
924	sleep 0	
972	sleep 0	
141	sleep 0	
906	sleep 0	
1307	sleep 0	

```

nikhil@nikhil-MS-7693:~/workspace/TaskSchedulerSQS$ ./runClient.sh
[runClient.sh] 11L, 274C

```

SSH sessions and terminal windows are visible, showing the execution of the build script and its output.

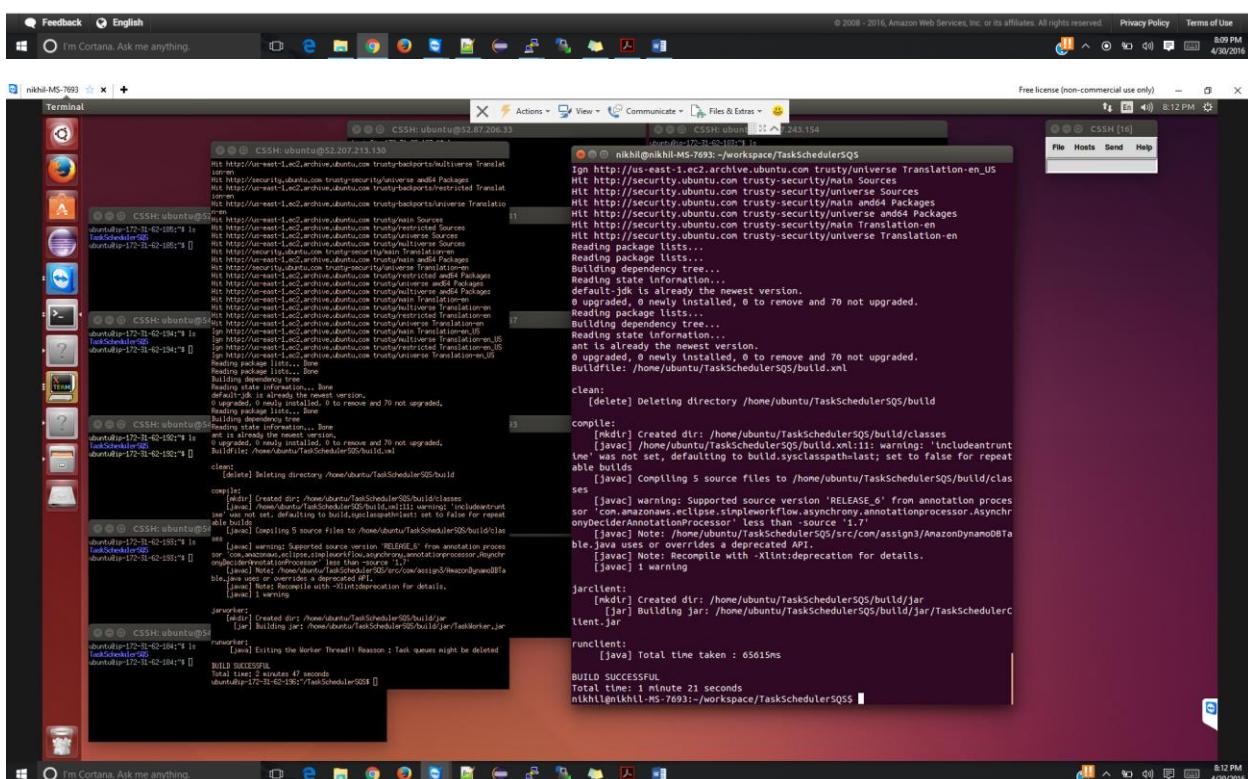
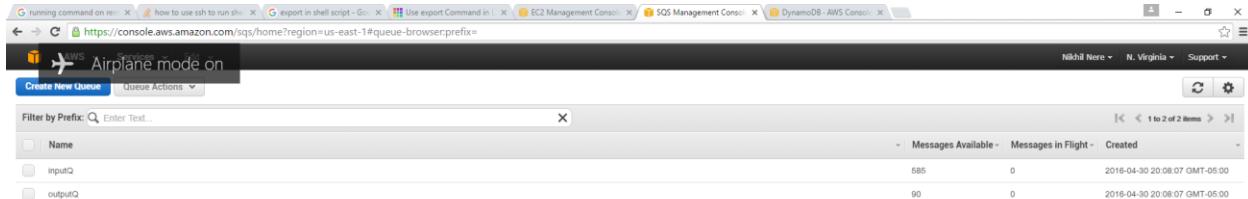
Case : 1 Worker, 1000 tasks, task is sleep 10

```

nikhil@nikhil-MS-7693:~/workspace/TaskSchedulerSQS$ ./runClient.sh
[runClient.sh] 11L, 274C

```

The terminal output shows the build process, including dependency resolution, class compilation, and jar creation, along with the execution of the client script.



Case: 1 worker, 100 tasks, tasks is sleep 1000

A screenshot of a Linux desktop environment, likely Ubuntu, showing several open windows. In the foreground, there are two terminal windows. The left terminal window shows a user's session on an EC2 instance with the command 'apt update' and 'apt upgrade' running. The right terminal window shows another user's session on an EC2 instance with the command 'mvn clean package' running. A file browser window titled 'File Explorer' is also visible in the background, showing a directory structure. The desktop has a standard Unity interface with icons for various applications like the Dash, Home, and Help.

Screenshot of the AWS DynamoDB console showing the 'intermediateTable' table. The table has one item per row, with columns 'id' and 'idValue'. The data shows 60 items, all with 'idValue' set to 'sleep 1000'.

	id	idValue
1	64	sleep 1000
2	49	sleep 1000
3	33	sleep 1000
4	22	sleep 1000
5	18	sleep 1000
6	50	sleep 1000
7	16	sleep 1000
8	40	sleep 1000
9	2	sleep 1000
10	13	sleep 1000
11	54	sleep 1000
12	8	sleep 1000
13	48	sleep 1000
14	9	sleep 1000
15	59	sleep 1000

Screenshot of the AWS SQS console showing the 'inputQ' and 'outputQ' queues. Both queues have 0 messages available and 0 messages in flight.

Name	Messages Available	Messages in Flight	Created
inputQ	0	0	2016-04-30 20:15:43 GMT-05:00
outputQ	1	0	2016-04-30 20:15:43 GMT-05:00

```

SSH: ubuntu@52.207.213.130
TaskschedulerSQS
ubuntu@52-21-62-194:~$ make clean
[delete] Deleting directory /home/ubuntu/TaskSchedulerSQS/build
clean:
[delete] Deleting directory /home/ubuntu/TaskSchedulerSQS/build
clean:
[delete] Created dir: /home/ubuntu/TaskSchedulerSQS/build/classes
[javac] /home/ubuntu/TaskSchedulerSQS/build/millis: warning: includeantrun
[javac] user set, defaulting to build/compileimplicit: set to false for repeat
able builds
[javac] Compiling 5 source files to /home/ubuntu/TaskSchedulerSQS/build/clas
ses
[javac] warning: Supported source version 'RELEASE_6' from annotation proces
or [com.amazonaws.eclipse.simpleworkflow.asyncrunner.AnnotationProcessor.Asyncn
odeDecompilerAnnotationProcessor] less than 'source 1.7'
[javac] Note: /home/ubuntu/TaskSchedulerSQS/src/com/assign3/AmazonDynamoDBTa
ble.java uses or overrides a deprecated API.
[javac] Note: Recompile with -Xlint:deprecation for details.
[javac] 1 warning
jar:jar:
[jar] Created dir: /home/ubuntu/TaskSchedulerSQS/build/jar
[jar] Building jar: /home/ubuntu/TaskSchedulerSQS/build/jar/TaskSchedulerC
lient.jar
runclient:
[java] Total time taken : 116194ms
BUILD SUCCESSFUL
Total time: 2 minutes 12 seconds
nkhil@nkhil-MS-7693:~/workspace/TaskSchedulerSQS
```

Case: 1 worker, 10 tasks, task is sleep 10000

```

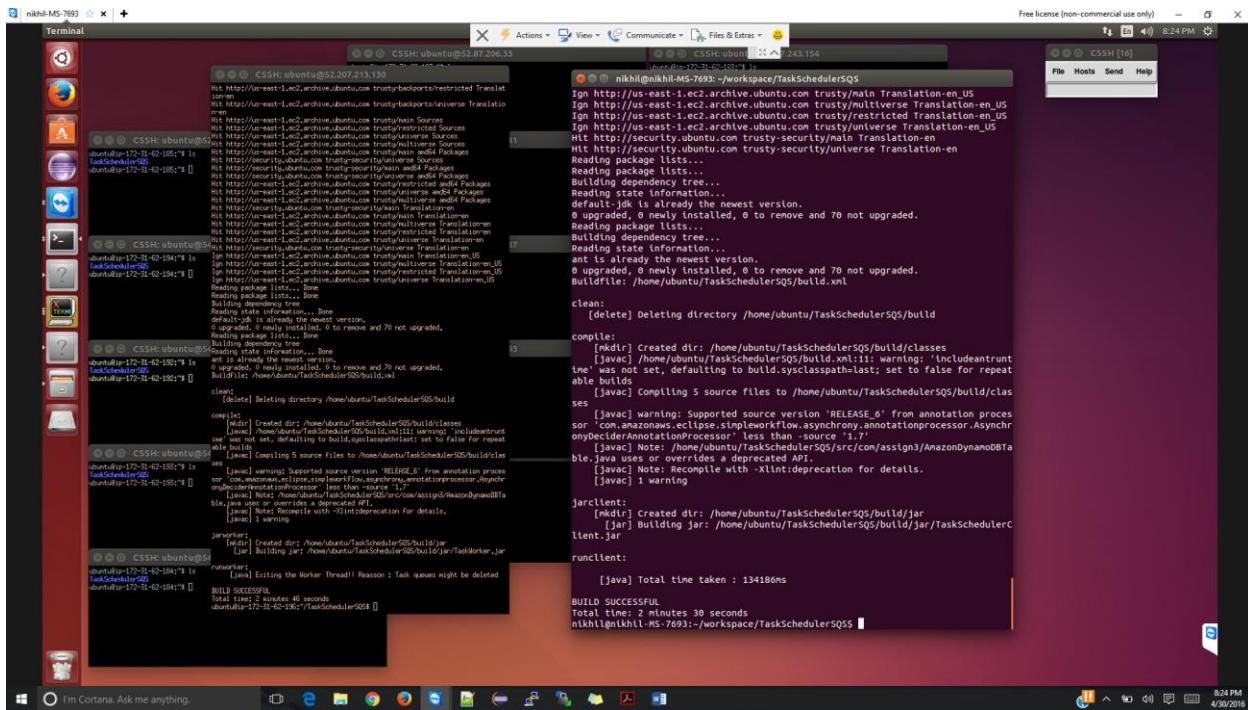
SSH: ubuntu@52.207.213.130
TaskschedulerSQS
ubuntu@52-21-62-194:~$ make clean
[delete] Deleting directory /home/ubuntu/TaskSchedulerSQS/build
clean:
[delete] Deleting directory /home/ubuntu/TaskSchedulerSQS/build
clean:
[delete] Created dir: /home/ubuntu/TaskSchedulerSQS/build/classes
[javac] /home/ubuntu/TaskSchedulerSQS/build/millis: warning: includeantrun
[javac] user set, defaulting to build/compileimplicit: set to false for repeat
able builds
[javac] Compiling 5 source files to /home/ubuntu/TaskSchedulerSQS/build/clas
ses
[javac] warning: Supported source version 'RELEASE_6' from annotation proces
or [com.amazonaws.eclipse.simpleworkflow.asyncrunner.AnnotationProcessor.Asyncn
odeDecompilerAnnotationProcessor] less than 'source 1.7'
[javac] Note: /home/ubuntu/TaskSchedulerSQS/src/com/assign3/AmazonDynamoDBTa
ble.java uses or overrides a deprecated API.
[javac] Note: Recompile with -Xlint:deprecation for details.
[javac] 1 warning
jar:jar:
[jar] Created dir: /home/ubuntu/TaskSchedulerSQS/build/jar
[jar] Building jar: /home/ubuntu/TaskSchedulerSQS/build/jar/TaskSchedulerC
lient.jar
runclient:
[java] Total time taken : 116194ms
BUILD SUCCESSFUL
Total time: 2 minutes 12 seconds
nkhil@nkhil-MS-7693:~/workspace/TaskSchedulerSQS
```

The screenshot shows the AWS SQS Management Console. At the top, there are several tabs including 'running command on' and 'how to use ssh to run sh...'. The main interface displays two queues under the 'Create New Queue' section:

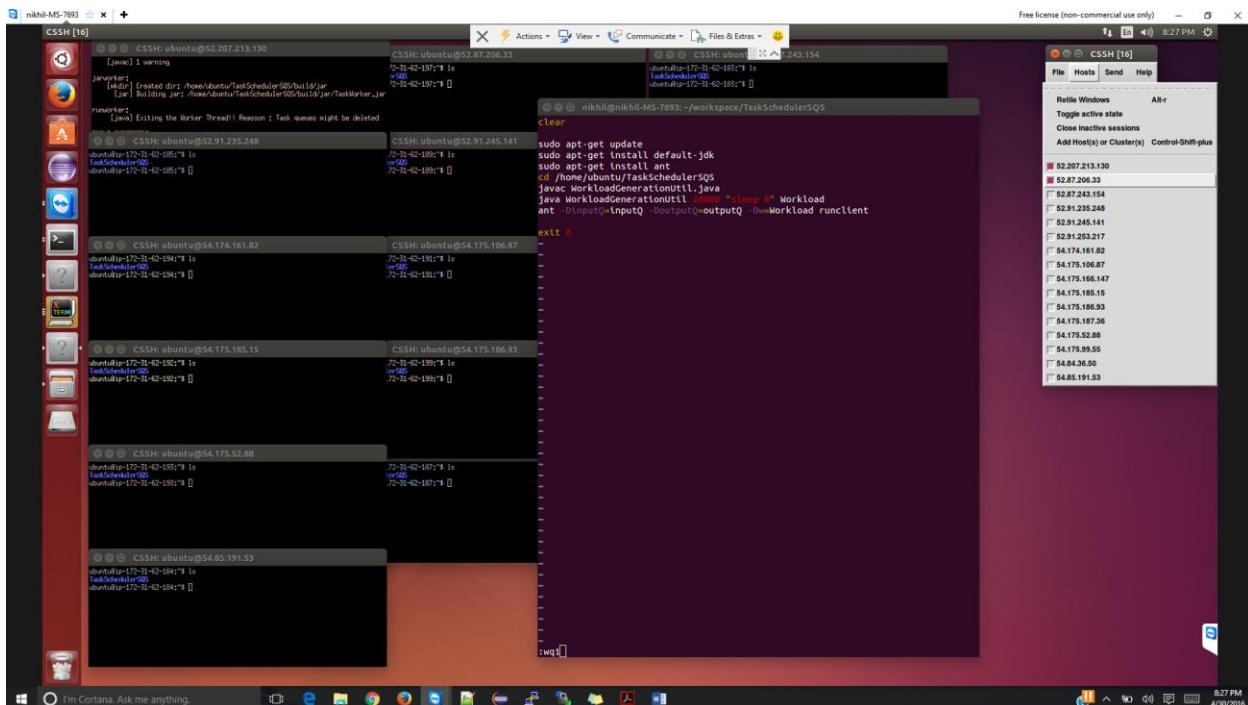
Name	Messages Available	Messages in Flight	Created
inputQ	4	0	2016-04-30 20:21:36 GMT-05:00
outputQ	1	0	2016-04-30 20:21:36 GMT-05:00

The screenshot shows the AWS DynamoDB Management Console. The left sidebar shows 'DynamoDB' and 'Tables' selected. The main area displays the 'intermediateTable' table with the following data:

id	idValue
2	sleep 10000
9	sleep 10000
1	sleep 10000
0	sleep 10000
5	sleep 10000
4	sleep 10000
7	sleep 10000



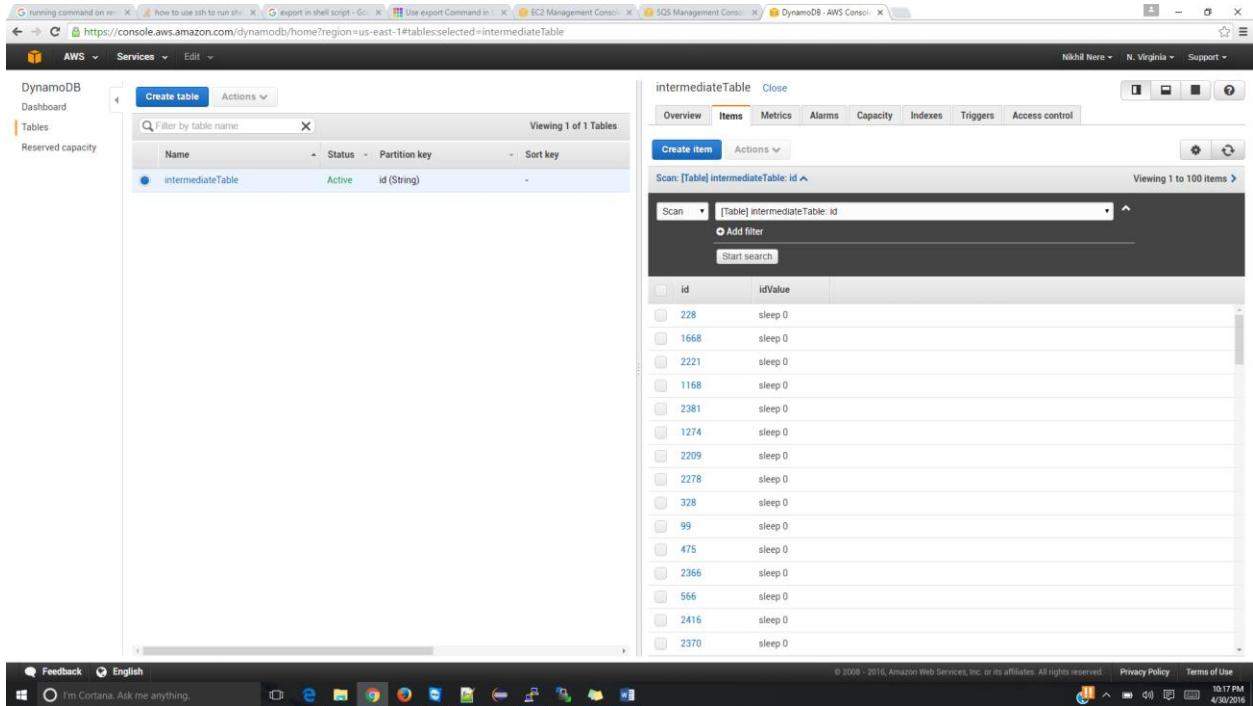
Case: 2 workers, 10K tasks, tasks is sleep 0



The screenshot shows a Windows desktop environment with several terminal windows open. The terminals are running on an Ubuntu system, as indicated by the 'SSH: ubuntu@...' and 'Actions' menu items. The windows display Java build logs for a project named 'TaskSchedulerSOS'. The logs include Maven commands like 'mvn clean', 'mvn compile', and 'mvn package', along with dependency trees and warning messages related to annotations and deprecated APIs. The desktop background is orange, and the taskbar at the bottom shows various application icons.

SQS Management Console				
AWS Services				
Create New Queue Queue Actions				
Filter by Prefix: <input type="text" value="Enter Text..."/> X				
Name	Messages Available	Messages in Flight	Created	
inputQ	2,411	1	2016-04-30 22:18:34 GMT+05:00	View
outputQ	2,081	0	2016-04-30 22:18:34 GMT+05:00	View

1 SQS Queue selected	
Details Permissions Redrive Policy Monitoring	
Name:	outputQ
URL:	https://sqs.us-east-1.amazonaws.com/343493960509/outputQ
ARN:	arn:aws:sqs:us-east-1:343493960509:outputQ
Created:	2016-04-30 22:16:34 GMT-05:00
Last Updated:	2016-04-30 22:16:34 GMT-05:00
Delivery Delay	0 seconds
Default Visibility Timeout: 30 seconds	
Message Retention Period: 4 days	
Maximum Message Size: 256 KB	
Receive Message Wait Time: 0 seconds	
Messages Available (Visible): 2,081	
Messages in Flight (Not Visible): 0	
Messages Delayed: 0	



Case: 2 workers, 2000 tasks, task is sleep 10

The screenshot shows a Windows desktop environment with several open terminal windows. The main terminal window displays the build process for 'TaskSchedulerS05' on an Ubuntu system. The build command used was 'ant -DinputQ=InputQ -DoutputQ=OutputQ -Dw=Workload runclient'. The output shows the creation of build directories, compilation of Java source files, and the generation of JAR files. Other terminal windows show SSH sessions to an Ubuntu host at 52.207.213.130 and 54.85.191.53, and a session on a host at 172.31.62.185. A task scheduler named 'TaskSchedulerS05' is running on the host at 172.31.62.185. The desktop also features a pinned 'Terminal' icon in the taskbar.

Name	Messages Available	Messages in Flight	Created
inputQ	1,196	0	2016-04-30 22:50:48 GMT-05:00
outputQ	298	0	2016-04-30 22:50:48 GMT-05:00

intermediateTable																																	
Overview Items Metrics Alarms Capacity Indexes Triggers Access control																																	
Create item Actions																																	
Scan: [Table] intermediateTable: id																																	
Viewing 1 to 100 items >																																	
<table border="1"> <thead> <tr> <th>id</th> <th>idValue</th> </tr> </thead> <tbody> <tr><td>228</td><td>sleep 10</td></tr> <tr><td>1168</td><td>sleep 10</td></tr> <tr><td>1274</td><td>sleep 10</td></tr> <tr><td>328</td><td>sleep 10</td></tr> <tr><td>99</td><td>sleep 10</td></tr> <tr><td>475</td><td>sleep 10</td></tr> <tr><td>566</td><td>sleep 10</td></tr> <tr><td>63</td><td>sleep 10</td></tr> <tr><td>1088</td><td>sleep 10</td></tr> <tr><td>1292</td><td>sleep 10</td></tr> <tr><td>1123</td><td>sleep 10</td></tr> <tr><td>1588</td><td>sleep 10</td></tr> <tr><td>1126</td><td>sleep 10</td></tr> <tr><td>924</td><td>sleep 10</td></tr> <tr><td>1171</td><td>sleep 10</td></tr> </tbody> </table>		id	idValue	228	sleep 10	1168	sleep 10	1274	sleep 10	328	sleep 10	99	sleep 10	475	sleep 10	566	sleep 10	63	sleep 10	1088	sleep 10	1292	sleep 10	1123	sleep 10	1588	sleep 10	1126	sleep 10	924	sleep 10	1171	sleep 10
id	idValue																																
228	sleep 10																																
1168	sleep 10																																
1274	sleep 10																																
328	sleep 10																																
99	sleep 10																																
475	sleep 10																																
566	sleep 10																																
63	sleep 10																																
1088	sleep 10																																
1292	sleep 10																																
1123	sleep 10																																
1588	sleep 10																																
1126	sleep 10																																
924	sleep 10																																
1171	sleep 10																																

Case: 2 workers, 200 tasks, task is sleep 1000

A screenshot of a Linux desktop environment with several open windows. In the top right corner, there's a system tray icon for 'Free license (non-commercial use only)'. The bottom of the screen features a dock with icons for various applications like a file manager, terminal, and browser. There are four main terminal windows visible:

- Terminal:** Shows a command-line session with multiple SSH connections to 'ubuntu' hosts. One connection shows the user navigating through a directory structure and deleting files.
- SSH: ubuntu@52.207.213.130**
- SSH: ubuntu@53.87.206.33**
- SSH: ubuntu@172-31-62-185:~/TaskScheduler/SQS**

A separate window titled 'TaskScheduler [16]' is also open, displaying a list of tasks or scheduled events. The desktop background is a standard orange gradient.

Create New Queue					Queue Actions	
Filter by Prefix: <input type="text" value="Enter Text..."/>						
Name	Messages Available	Messages In Flight	Created			
inputQ	151	0	2016-04-30 22:54:49 GMT-05:00			
outputQ	2	0	2016-04-30 22:54:49 GMT-05:00			



Screenshot of the AWS DynamoDB console showing the 'intermediateTable' table. The table has one item with id 63 and idValue 'sleep 1000'. Other items listed are 120, 36, 49, 33, 22, 18, 50, 16, 40, 2, 104, 13, 54, and 8, all with idValue 'sleep 1000'.

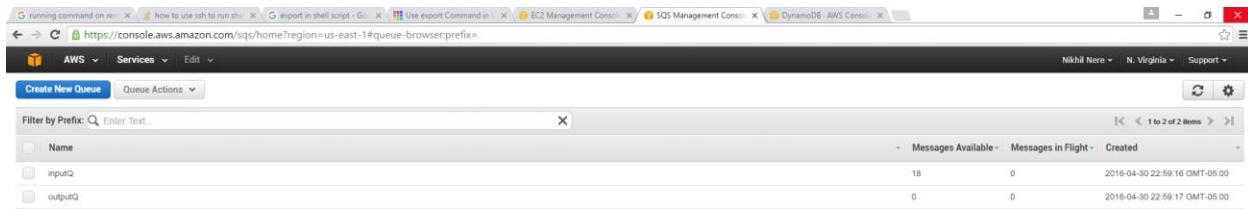
```

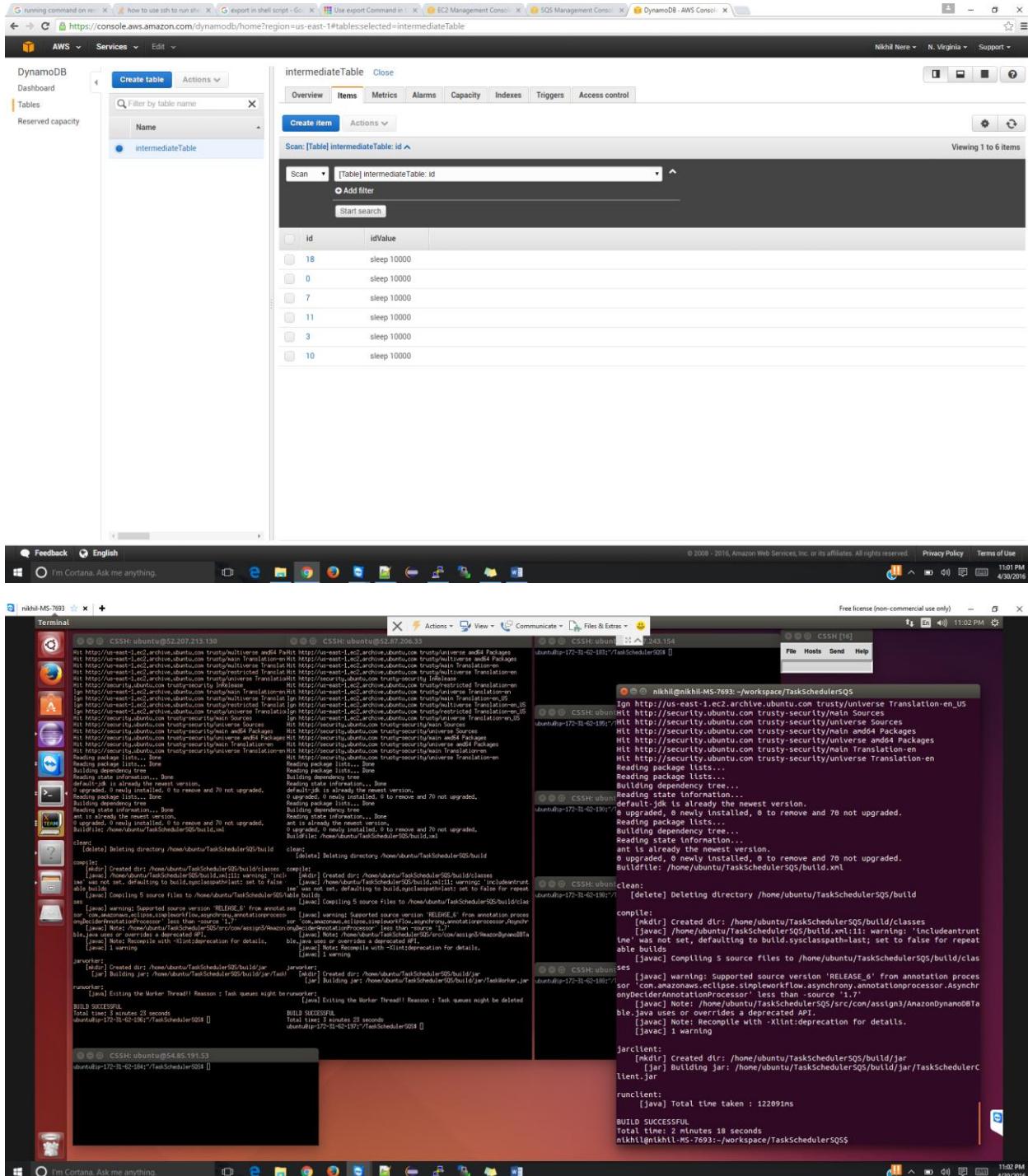
nikhil@nikhil-MS-7693 ~ + *
Terminal [SSH: ubuntu@52.207.213.130] [SSH: ubuntu@52.87.206.33] [SSH: nikhil@nikhil-MS-7693:~/.workspace/TaskSchedulerSQS]
ubuntu@52.207.213.130: ~ % cd /home/ubuntu/TaskSchedulerSQS
ubuntu@52.207.213.130: TaskSchedulerSQS % mvn clean package
[INFO] Scanning for projects...
[INFO] 
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ TaskSchedulerSQS ---
[INFO] Deleting directory /home/ubuntu/TaskSchedulerSQS/build
[INFO] 
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ TaskSchedulerSQS ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non-existing resource files
[INFO] 
[INFO] --- maven-compiler-plugin:3.3:compile (default-compile) @ TaskSchedulerSQS ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 5 source files to /home/ubuntu/TaskSchedulerSQS/build/classes
[INFO] 
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ TaskSchedulerSQS ---
[INFO] Using 'UTF-8' encoding to copy filtered test resources.
[INFO] skip non-existing resource files
[INFO] 
[INFO] --- maven-compiler-plugin:3.3:testCompile (default-testCompile) @ TaskSchedulerSQS ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 5 source files to /home/ubuntu/TaskSchedulerSQS/build/test-classes
[INFO] 
[INFO] --- maven-surefire-plugin:2.18.1:test (default-test) @ TaskSchedulerSQS ---
[INFO] Surefire report directory: /home/ubuntu/TaskSchedulerSQS/target/surefire-reports

[INFO] 
[INFO] --- maven-jar-plugin:2.4.1:jar (default-jar) @ TaskSchedulerSQS ---
[INFO] Building jar: /home/ubuntu/TaskSchedulerSQS/build/jar/TaskScheduler.jar
[INFO] 
[INFO] --- maven-install-plugin:2.4.1:install (default-install) @ TaskSchedulerSQS ---
[INFO] Installing /home/ubuntu/TaskSchedulerSQS/build/jar/TaskScheduler.jar to /home/ubuntu/.m2/repository/com/assign3/TaskSchedulerSQS/0.0.1/TaskSchedulerSQS-0.0.1.jar
[INFO] 
[INFO] --- maven-deploy-plugin:2.7.2:deploy (default-deploy) @ TaskSchedulerSQS ---
[INFO] Deploying artifacts to https://oss.sonatype.org/service/local/staging/deploy/maven2/
[INFO] 
[INFO] BUILD SUCCESSFUL
[INFO] Total time: 3 minutes 8 seconds
ubuntu@52.207.213.130: ~ %

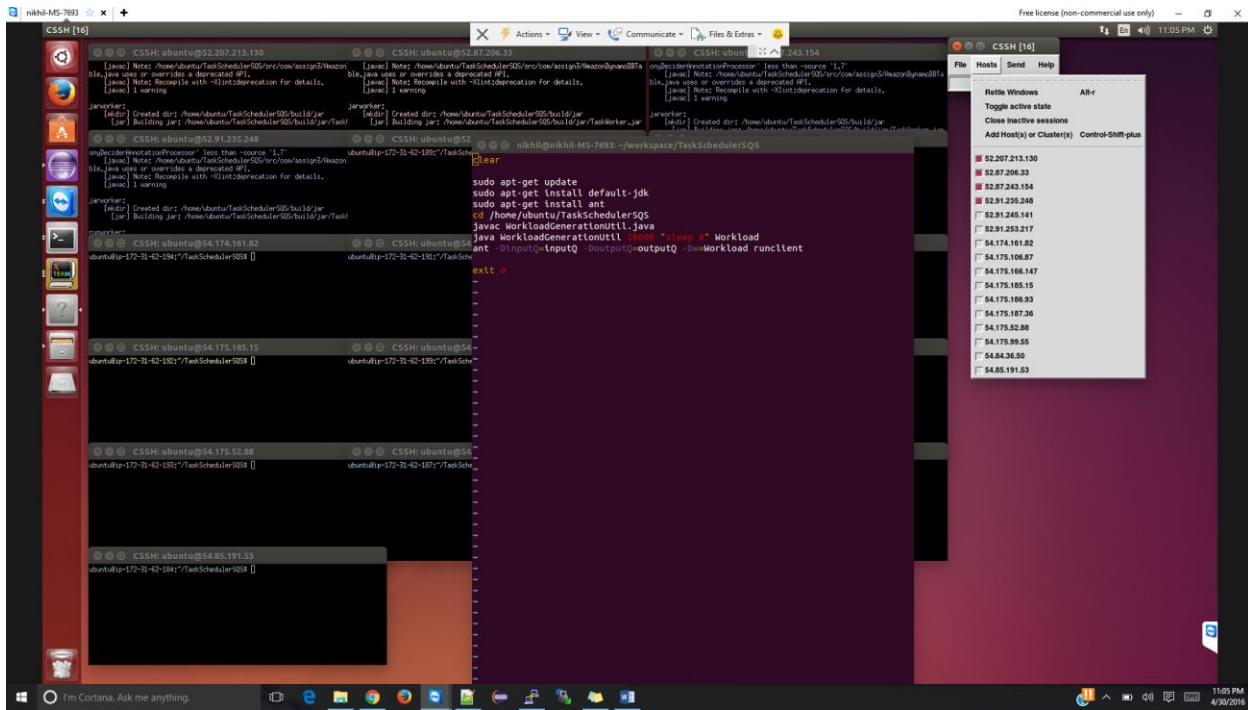
```

Case: 2 workers, 20 tasks, tasks is sleep 10000





Case: 4 workers, 10K tasks, task is sleep 0



Name	Messages Available	Messages in Flight	Created
inputQ	198	2	2016-04-30 23:04:53 GMT-05:00
outputQ	1,351	0	2016-04-30 23:04:54 GMT-05:00



Screenshot of the AWS DynamoDB console showing the 'intermediateTable' table. The table has one item with id 228 and idValue 'sleep 0'. Below the table, a terminal window shows the build process of a Java application named 'TaskSchedulerS05'. The build logs indicate several errors related to missing dependencies and class conflicts, particularly with 'com.amazonaws.eclipse.simpleworkflow.asyncrony.annotationprocessor.AsyncronyDependencyProcessor'. The build command used was 'mvn clean package'.

```

[INFO] [INFO] Scanning for projects...
[INFO] [INFO] ------------------------------------------------------------------------
[INFO] [INFO] Building TaskSchedulerS05 1.0-SNAPSHOT
[INFO] [INFO] ------------------------------------------------------------------------
[INFO] [INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ TaskSchedulerS05 ---
[INFO] [INFO] Deleting /home/ubuntu/TaskSchedulerS05/build
[INFO] [INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ TaskSchedulerS05 ---
[INFO] [INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] [INFO] skip non-existing resourceDirectory /home/ubuntu/TaskSchedulerS05/src/main/resources
[INFO] [INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ TaskSchedulerS05 ---
[INFO] [INFO] Compiling 5 source files to /home/ubuntu/TaskSchedulerS05/build/classes
[INFO] [INFO] [javac] warning: Supported source version 'RELEASE_6' from annotation processor 'com.amazonaws.eclipse.simpleworkflow.asyncrony.annotationprocessor.AsyncronyDependencyProcessor' exceeds the current version '1.7'.
[INFO] [INFO] [javac] Note: /home/ubuntu/TaskSchedulerS05/src/com/assign3/AmazonDynamoDBTable.java uses or overrides a deprecated API.
[INFO] [INFO] [javac] Note: Recompile with -Xlint:deprecation for details.
[INFO] [INFO] [javac] 1 warning
[INFO] [INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ TaskSchedulerS05 ---
[INFO] [INFO] [INFO] [INFO] BUILD SUCCESSFUL
[INFO] [INFO] Total time: 4 minutes 8 seconds
[INFO] [INFO] nikhil@nikhil-MS-7693:~/workspace/TaskSchedulerS05$ 

```

Case: 4 workers, 4000 tasks, task is sleep 10

```

nikhil@nikhil-MS-7693 ~ % + 
SSH: ubuntu@52.207.213.150 [SSH: ubuntu@52.91.206.33]
[Java] Note: /home/ubuntu/TaskSchedulerSQS/src/com/assign3/Worker.java:80
bla.java uses or overrides a deprecated API.
bla.java uses or overrides a deprecated API.
[Java] Note: Recompile with -Xlint:deprecation for details.
[Java] 1 warning

javac:
[javac] Created dir: /home/ubuntu/TaskSchedulerSQS/build/jar
[jar] Building jar: /home/ubuntu/TaskSchedulerSQS/build/jar/TestWorker.jar

SSH: ubuntu@52.91.235.241 [SSH: ubuntu@172-31-42-187:/TaskSchedulerSQS]
[Java] Note: /home/ubuntu/TaskSchedulerSQS/src/com/assign3/Worker.java:80
bla.java uses or overrides a deprecated API.
bla.java uses or overrides a deprecated API.
[Java] Note: Recompile with -Xlint:deprecation for details.
[Java] 1 warning

javac:
[javac] Created dir: /home/ubuntu/TaskSchedulerSQS/build/jar
[jar] Building jar: /home/ubuntu/TaskSchedulerSQS/build/jar/TestWorker.jar

SSH: ubuntu@52.91.245.141 [SSH: ubuntu@172-31-42-187:/TaskSchedulerSQS]
[Java] Note: /home/ubuntu/TaskSchedulerSQS/src/com/assign3/Worker.java:80
bla.java uses or overrides a deprecated API.
bla.java uses or overrides a deprecated API.
[Java] Note: Recompile with -Xlint:deprecation for details.
[Java] 1 warning

javac:
[javac] Created dir: /home/ubuntu/TaskSchedulerSQS/build/jar
[jar] Building jar: /home/ubuntu/TaskSchedulerSQS/build/jar/TestWorker.jar

SSH: ubuntu@52.91.245.154 [SSH: nikhil@nikhil-MS-7693:~/workspace/TaskSchedulerSQS]
[Java] Note: /home/ubuntu/TaskSchedulerSQS/src/com/assign3/Worker.java:80
bla.java uses or overrides a deprecated API.
bla.java uses or overrides a deprecated API.
[Java] Note: Recompile with -Xlint:deprecation for details.
[Java] 1 warning

javac:
[javac] Created dir: /home/ubuntu/TaskSchedulerSQS/build/jar
[jar] Building jar: /home/ubuntu/TaskSchedulerSQS/build/jar/TestWorker.jar

SSH: ubuntu@54.174.161.82 [SSH: ubuntu@172-31-42-191:/TaskSchedulerSQS]
ubuntu@172-31-42-191:~/TaskSchedulerSQS [~]

SSH: ubuntu@54.175.185.15 [SSH: ubuntu@54.175.186.93]
ubuntu@172-31-42-192:/TaskSchedulerSQS [~]

SSH: ubuntu@54.175.52.88 [SSH: ubuntu@54.175.99.55]
ubuntu@172-31-42-193:/TaskSchedulerSQS [~]

SSH: ubuntu@54.85.191.53 [SSH: ubuntu@172-31-42-194:/TaskSchedulerSQS]
ubuntu@172-31-42-194:/TaskSchedulerSQS [~]

[nikhil@nikhil-MS-7693 ~] 1,1

```

```

nikhil@nikhil-MS-7693 ~ % + 
SSH: ubuntu@52.207.213.150 [SSH: ubuntu@52.91.206.33]
[Java] Note: /home/ubuntu/TaskSchedulerSQS/src/com/assign3/Worker.java:80
bla.java uses or overrides a deprecated API.
bla.java uses or overrides a deprecated API.
[Java] Note: Recompile with -Xlint:deprecation for details.
[Java] 1 warning

javac:
[javac] Created dir: /home/ubuntu/TaskSchedulerSQS/build/jar
[jar] Building jar: /home/ubuntu/TaskSchedulerSQS/build/jar/TestWorker.jar

SSH: ubuntu@52.91.235.241 [SSH: ubuntu@172-31-42-187:/TaskSchedulerSQS]
[Java] Note: /home/ubuntu/TaskSchedulerSQS/src/com/assign3/Worker.java:80
bla.java uses or overrides a deprecated API.
bla.java uses or overrides a deprecated API.
[Java] Note: Recompile with -Xlint:deprecation for details.
[Java] 1 warning

javac:
[javac] Created dir: /home/ubuntu/TaskSchedulerSQS/build/jar
[jar] Building jar: /home/ubuntu/TaskSchedulerSQS/build/jar/TestWorker.jar

SSH: ubuntu@52.91.245.141 [SSH: ubuntu@172-31-42-187:/TaskSchedulerSQS]
[Java] Note: /home/ubuntu/TaskSchedulerSQS/src/com/assign3/Worker.java:80
bla.java uses or overrides a deprecated API.
bla.java uses or overrides a deprecated API.
[Java] Note: Recompile with -Xlint:deprecation for details.
[Java] 1 warning

javac:
[javac] Created dir: /home/ubuntu/TaskSchedulerSQS/build/jar
[jar] Building jar: /home/ubuntu/TaskSchedulerSQS/build/jar/TestWorker.jar

SSH: ubuntu@52.91.245.154 [SSH: nikhil@nikhil-MS-7693:~/workspace/TaskSchedulerSQS]
[Java] Note: /home/ubuntu/TaskSchedulerSQS/src/com/assign3/Worker.java:80
bla.java uses or overrides a deprecated API.
bla.java uses or overrides a deprecated API.
[Java] Note: Recompile with -Xlint:deprecation for details.
[Java] 1 warning

javac:
[javac] Created dir: /home/ubuntu/TaskSchedulerSQS/build/jar
[jar] Building jar: /home/ubuntu/TaskSchedulerSQS/build/jar/TestWorker.jar

SSH: ubuntu@54.174.161.82 [SSH: ubuntu@172-31-42-191:/TaskSchedulerSQS]
ubuntu@172-31-42-191:~/TaskSchedulerSQS [~]

SSH: ubuntu@54.175.185.15 [SSH: ubuntu@54.175.186.93]
ubuntu@172-31-42-192:/TaskSchedulerSQS [~]

SSH: ubuntu@54.175.52.88 [SSH: ubuntu@54.175.99.55]
ubuntu@172-31-42-193:/TaskSchedulerSQS [~]

SSH: ubuntu@54.85.191.53 [SSH: ubuntu@172-31-42-194:/TaskSchedulerSQS]
ubuntu@172-31-42-194:/TaskSchedulerSQS [~]

[nikhil@nikhil-MS-7693 ~] 1,1

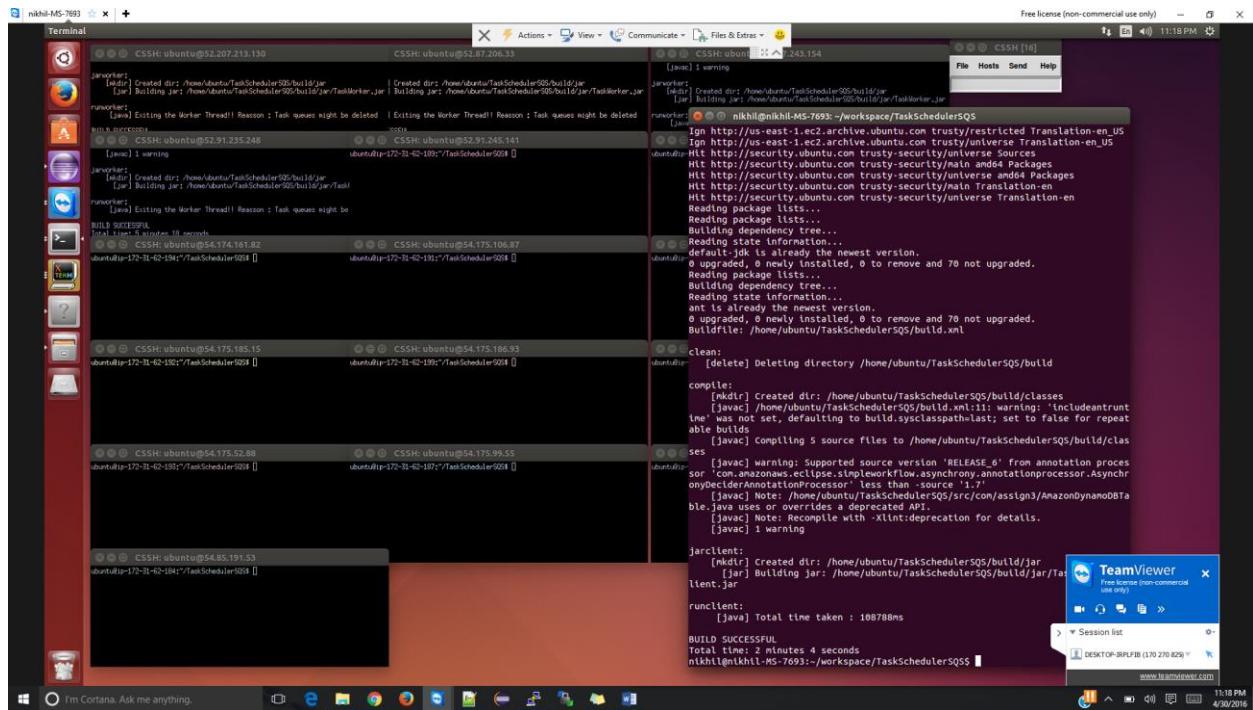
```

Screenshot of the AWS DynamoDB console showing the 'intermediateTable' table. The table has one item per row, with columns 'id' and 'idValue'. The data shows various IDs (e.g., 228, 1668, 2221, 1168, 2381, 3238, 1274, 3049, 2209, 2278, 328, 99, 3218, 475, 3093) all having the value 'sleep 10' in the 'idValue' column.

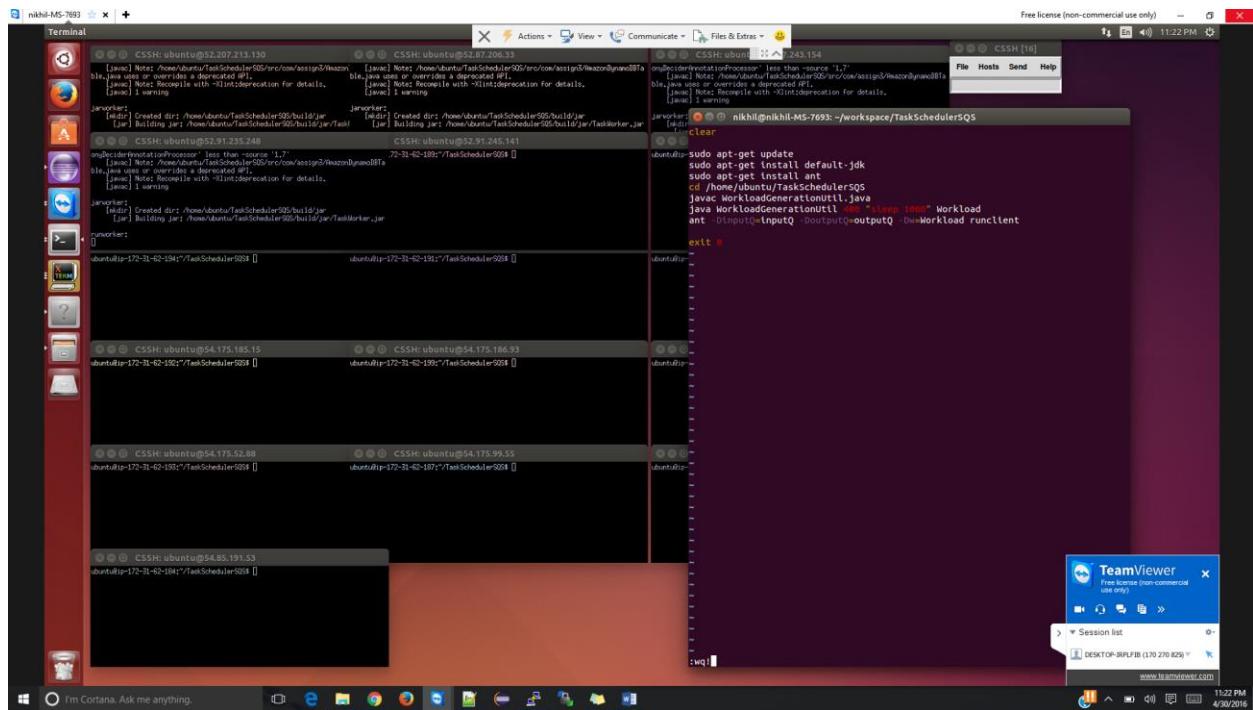
	id	idValue
1	228	sleep 10
2	1668	sleep 10
3	2221	sleep 10
4	1168	sleep 10
5	2381	sleep 10
6	3238	sleep 10
7	1274	sleep 10
8	3049	sleep 10
9	2209	sleep 10
10	2278	sleep 10
11	328	sleep 10
12	99	sleep 10
13	3218	sleep 10
14	475	sleep 10
15	3093	sleep 10

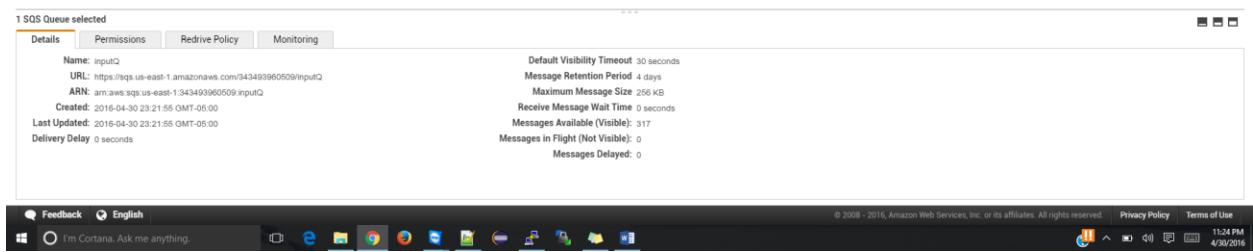
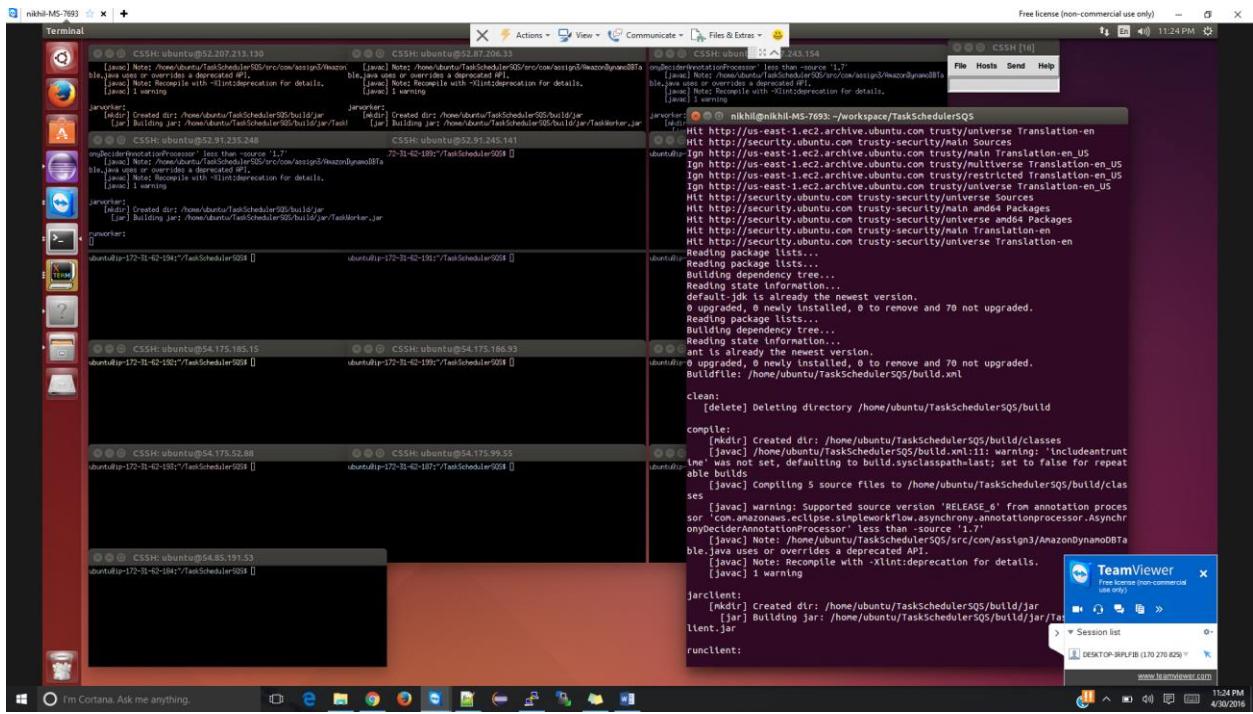
Screenshot of the AWS SQS console showing the 'prefix' queue. There are two messages available: 'inputQ' and 'outputQ'. Both were created on April 30, 2016, at 23:13:07 GMT-05:00.

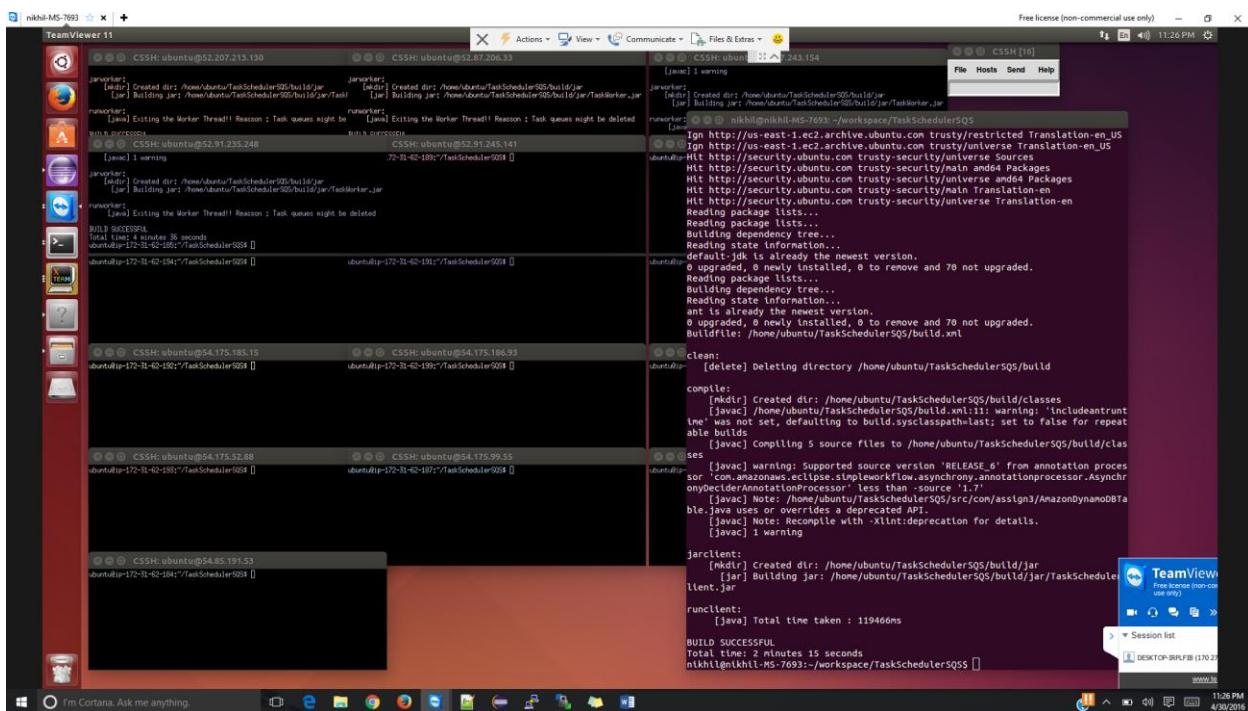
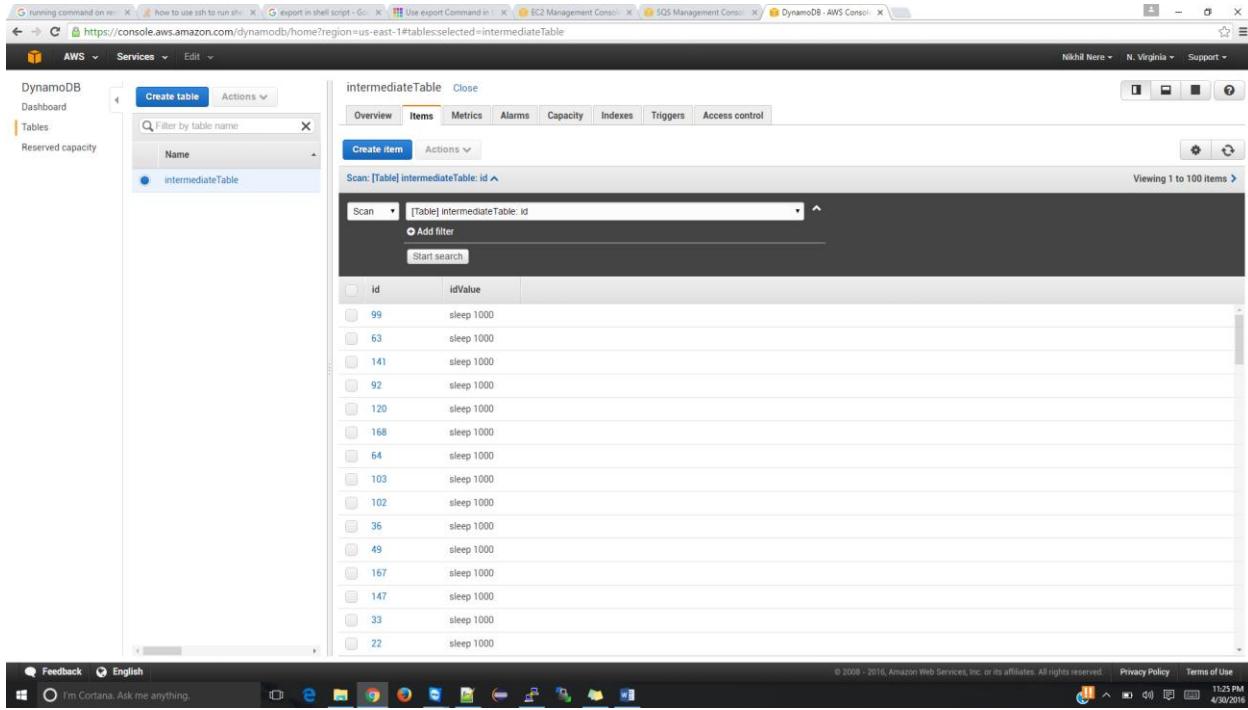
Name	Messages Available	Messages in Flight	Created
inputQ	320	0	2016-04-30 23:13:07 GMT-05:00
outputQ	675	0	2016-04-30 23:13:08 GMT-05:00



Case: 4 workers, 400 tasks, task is sleep 1000







Case: 4 workers, 40 tasks, task is sleep 10000

A screenshot of a Linux desktop environment, likely Ubuntu, showing multiple terminal windows and a file manager. The desktop has a dark theme with orange highlights. In the top right corner, there's a system tray with icons for battery, signal strength, and volume. The bottom of the screen features a dock with icons for various applications like a web browser, file manager, and system tools. On the left, there's a vertical dock with icons for terminals, files, and system settings. The main workspace contains several terminal windows, each showing command-line output related to Java development and task scheduling. One window shows a build process for 'TaskSchedulerSQS' with logs indicating warnings and errors. Another window shows the execution of 'runClient.sh'. A file manager window is also visible in the background.

A screenshot of a Linux desktop environment, likely Ubuntu, showing several terminal windows and a file browser. The desktop has a blue and orange gradient background. In the top right corner, there's a system tray with icons for battery, signal, and volume. The bottom of the screen features a dock with icons for various applications like a web browser, file manager, and system tools. There are two main terminal windows visible. The left one is titled 'Terminal' and shows several command-line sessions. One session is for 'TaskSchedulerSQS' and another is for 'TaskWorker'. Both show Java compilation and execution logs. The right terminal window is titled 'nikhil@nihil-M-7693:~/workspace/TaskSchedulerSQS' and also displays Java compilation and execution logs. A file browser window titled 'File Browser' is open in the top right, showing a directory structure. The overall interface is clean and modern.

The screenshot shows the AWS SQS Management Console. At the top, there are several tabs including 'running command on' and 'how to use ssh to run sh...'. The main area displays a table of queues under the heading 'Create New Queue'. A search bar at the top left says 'Filter by Prefix: Q Enter Text.' The table has columns for 'Name', 'Messages Available', 'Messages in Flight', and 'Created'. Two entries are listed:

Name	Messages Available	Messages in Flight	Created
inputQ	24	0	2016-04-30 23:29:16 GMT-05:00
outputQ	3	0	2016-04-30 23:29:16 GMT-05:00

The screenshot shows the AWS DynamoDB Management Console. The left sidebar has 'DynamoDB' selected, with options for 'Dashboard', 'Tables', and 'Reserved capacity'. Under 'Tables', 'intermediateTable' is selected. The main area shows the 'intermediateTable' details with tabs for 'Overview', 'Items', 'Metrics', etc. The 'Items' tab is active, showing a table of 20 items. The table has columns 'id' and 'idValue'. The data is as follows:

id	idValue
2	sleep 10000
13	sleep 10000
8	sleep 10000
9	sleep 10000
1	sleep 10000
6	sleep 10000
0	sleep 10000
5	sleep 10000
4	sleep 10000
34	sleep 10000
19	sleep 10000
7	sleep 10000
11	sleep 10000
3	sleep 10000
20	sleep 10000

The screenshot shows a Windows desktop environment with several terminal windows open, each displaying the build process of a Java application named TaskSchedulerSQS. The terminals are arranged vertically, each showing different stages of the build and deployment process.

- Terminal 1:** Shows the initial creation of the build directory and compilation of the TaskWorker.java file.
- Terminal 2:** Shows the creation of the build directory and compilation of the TaskScheduler.java file.
- Terminal 3:** Shows the creation of the build directory and compilation of the TaskWorker.java file again.
- Terminal 4:** Shows the creation of the build directory and compilation of the TaskScheduler.java file again.
- Terminal 5:** Shows the creation of the build directory and compilation of the TaskWorker.java file.
- Terminal 6:** Shows the creation of the build directory and compilation of the TaskScheduler.java file.
- Terminal 7:** Shows the creation of the build directory and compilation of the TaskWorker.java file.
- Terminal 8:** Shows the creation of the build directory and compilation of the TaskScheduler.java file.
- Terminal 9:** Shows the creation of the build directory and compilation of the TaskWorker.java file.
- Terminal 10:** Shows the creation of the build directory and compilation of the TaskScheduler.java file.
- Terminal 11:** Shows the creation of the build directory and compilation of the TaskWorker.java file.
- Terminal 12:** Shows the creation of the build directory and compilation of the TaskScheduler.java file.
- Terminal 13:** Shows the creation of the build directory and compilation of the TaskWorker.java file.
- Terminal 14:** Shows the creation of the build directory and compilation of the TaskScheduler.java file.
- Terminal 15:** Shows the creation of the build directory and compilation of the TaskWorker.java file.
- Terminal 16:** Shows the creation of the build directory and compilation of the TaskScheduler.java file.

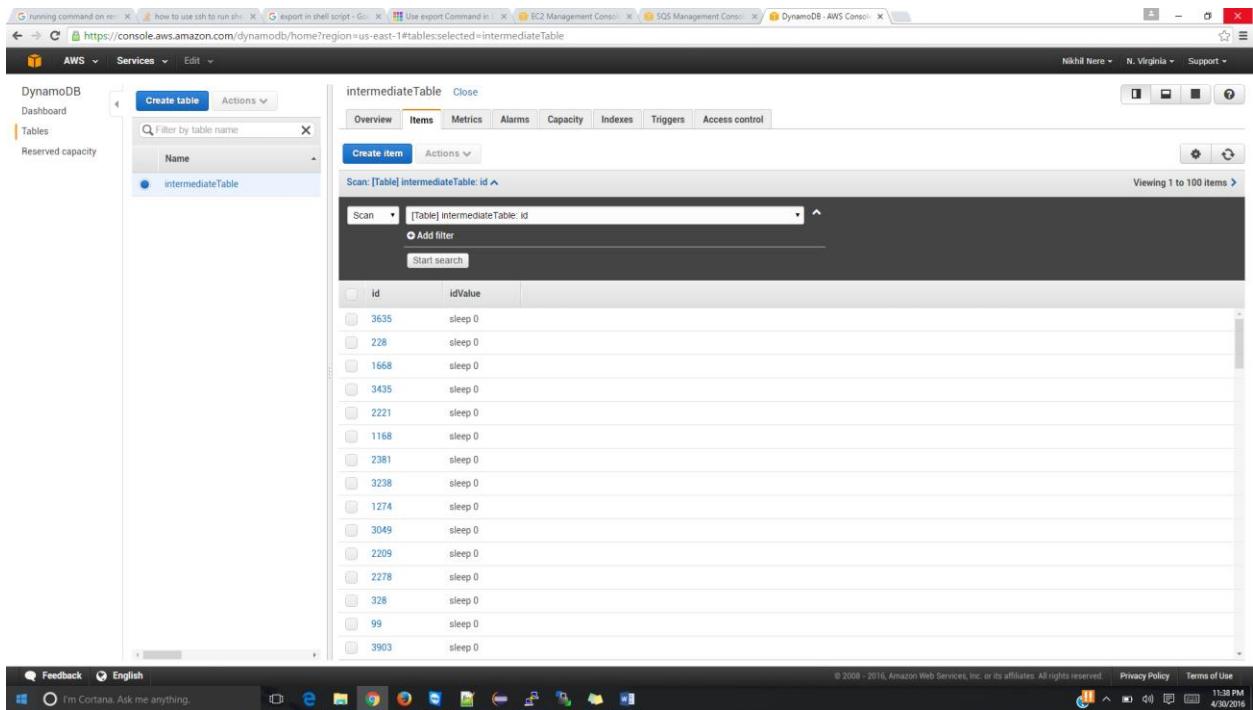
Each terminal window also displays logs related to the build process, including Maven commands and output from the Java compiler (javac) and runtime (java). The desktop background is orange, and the taskbar at the bottom shows various icons for system tools like File Explorer, Task View, and Cortana.

Case: 8 workers, 10k tasks, task is sleep 0

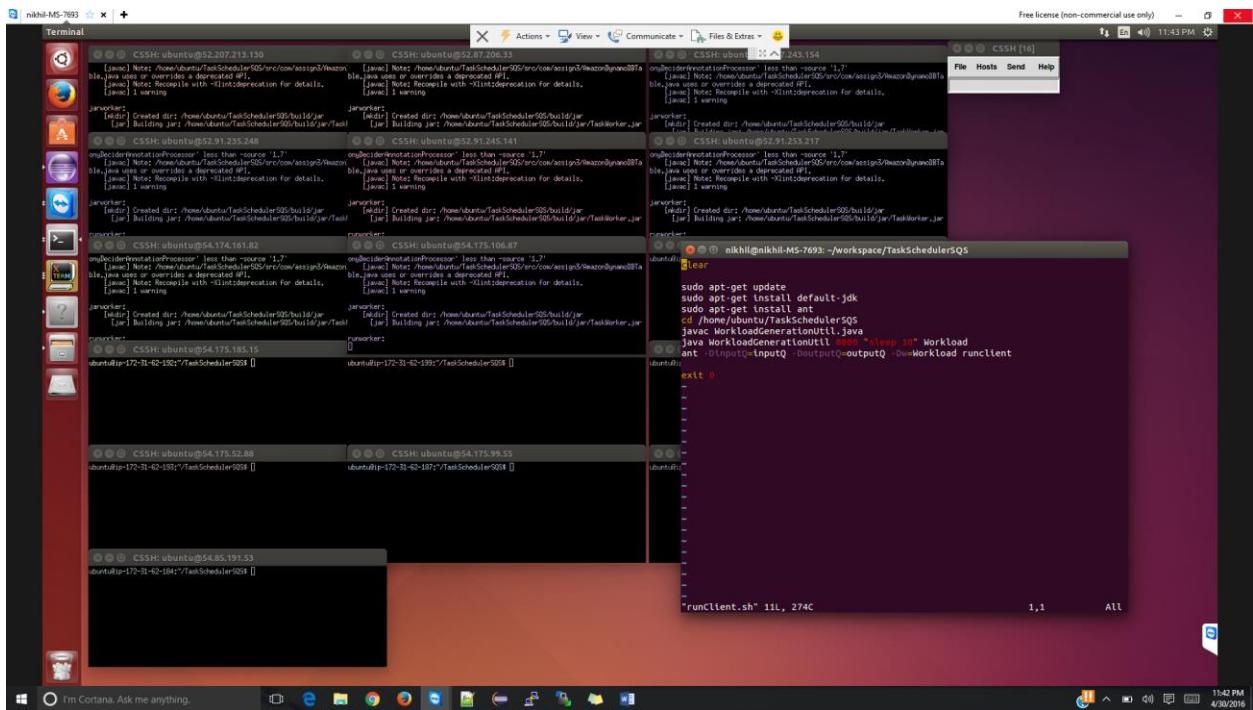
A screenshot of a Windows desktop environment showing several terminal windows (CSSH) and a Java application window. The desktop background is orange. The taskbar at the bottom shows icons for File Explorer, Task View, Start, and various pinned applications. The system tray indicates the date as 11/28/2017 and the time as 11:36 PM. The main window contains multiple terminal sessions and a Java application window. One terminal session at the top right is titled 'CSSH [16]' and shows a list of hosts with their IP addresses. Another terminal session below it shows Java code being run with parameters like '-inputQ' and '-outputQ'. A Java application window titled 'TaskSchedulerSQS' is visible in the center, with its status bar showing 'runClient.sh 11L, 274C' and '1,1 ALL'. The overall layout is cluttered with multiple windows open simultaneously.

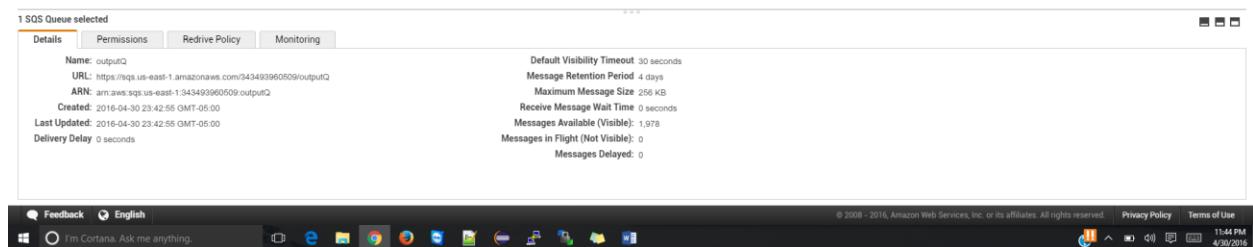
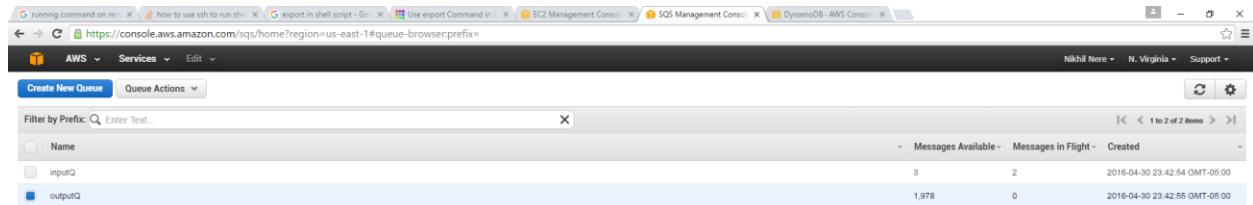
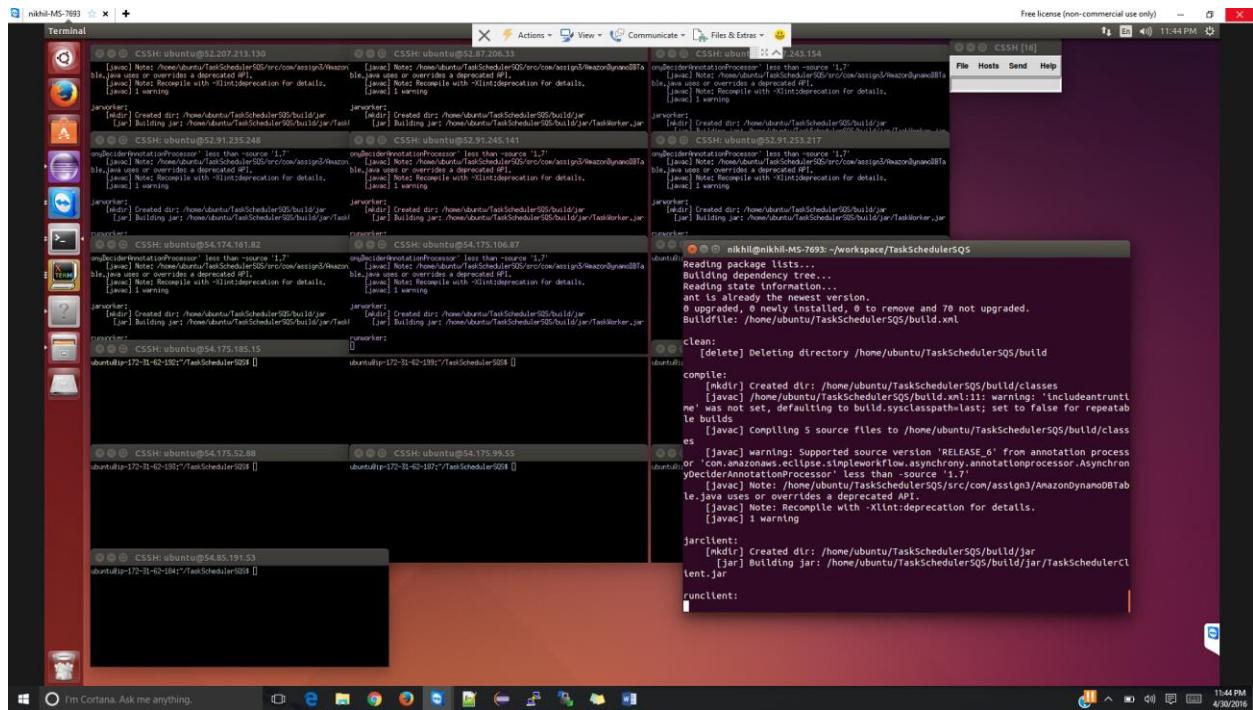
SQS Queue Browser				
Name	Messages Available	Messages in Flight	Created	Last Modified
inputQ	22	0	2016-04-30 23:35:56 GMT-05:00	
outputQ	533	0	2016-04-30 23:35:56 GMT-05:00	

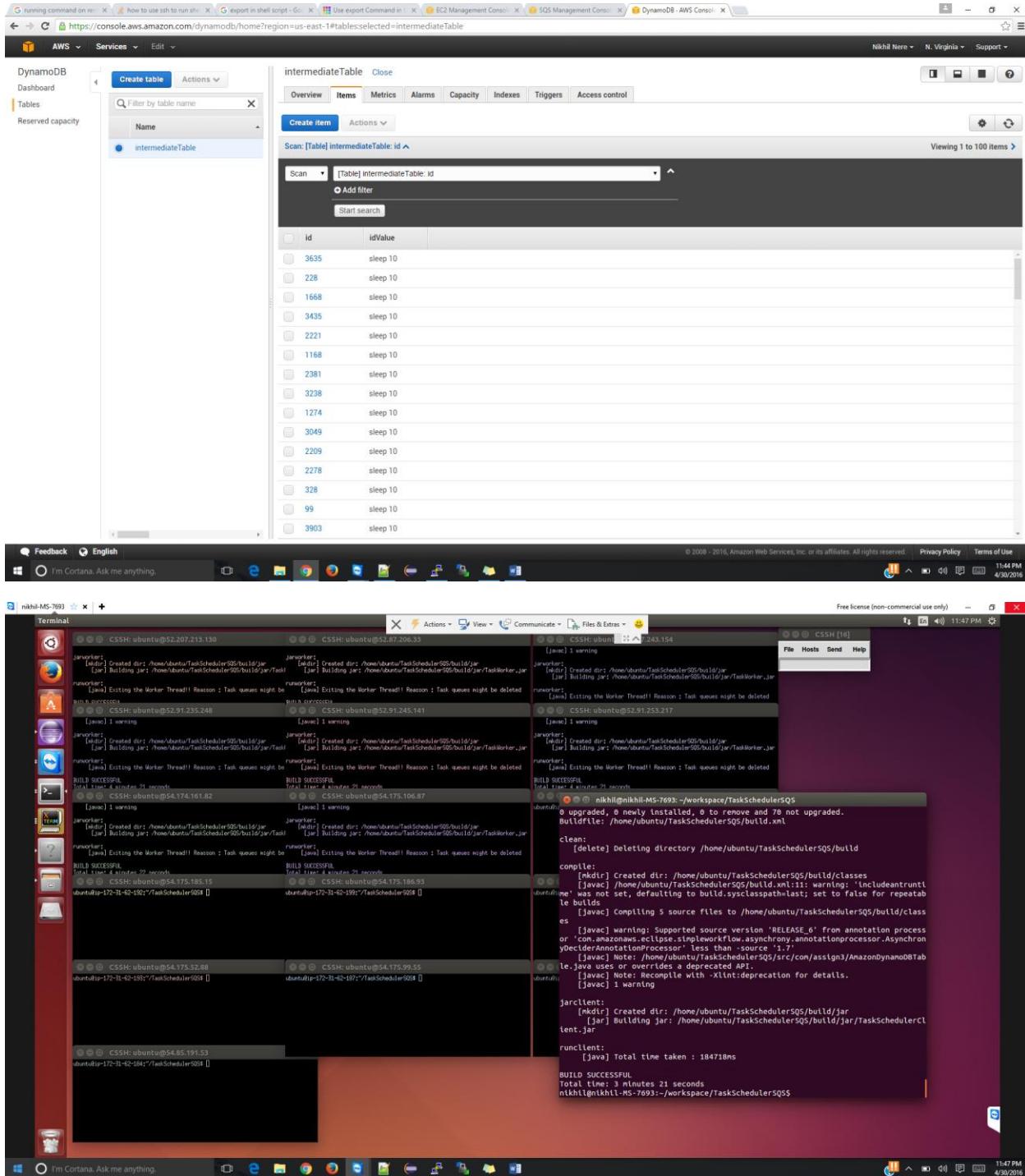
Feedback English | Privacy Policy | Terms of Use | © 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved | 11:38 PM | 4/30/2016



Case: 8 workers, 8000 task, task is sleep 10







Case: 8 workers, 800 tasks, task is sleep 1000

A screenshot of a Windows desktop environment showing multiple terminal windows (XTerm) running on different hosts. The hosts include nikhil-MS-7093, 172.31.62.197, 54.175.185.15, and 54.175.52.88. Each terminal window displays Java build logs for 'TaskSchedulerS05' and 'TaskWorker'. The logs show various build steps, dependency resolution, and warning messages related to file paths and port conflicts. The desktop also features a taskbar with icons for Cortana, File Explorer, and other system applications.

The screenshot shows a Linux desktop environment with several terminal windows open, each displaying a Java build process for a project named 'TaskSchedulerSQS'. The terminals are arranged in a grid-like fashion across the screen.

- Terminal 1:** Shows the build command being run: `mvn clean package`.
- Terminal 2:** Shows the build command being run: `mvn clean package`.
- Terminal 3:** Shows the build command being run: `mvn clean package`.
- Terminal 4:** Shows the build command being run: `mvn clean package`.
- Terminal 5:** Shows the build command being run: `mvn clean package`.
- Terminal 6:** Shows the build command being run: `mvn clean package`.
- Terminal 7:** Shows the build command being run: `mvn clean package`.
- Terminal 8:** Shows the build command being run: `mvn clean package`.
- Terminal 9:** Shows the build command being run: `mvn clean package`.
- Terminal 10:** Shows the build command being run: `mvn clean package`.

Each terminal window displays standard Maven output, including dependency resolution, classpath management, and various warnings related to Java annotations and deprecated API usage. The Java version used is 1.8, and the build is being performed on an Ubuntu system.

The screenshot shows the AWS SQS Management Console. At the top, there are several tabs including 'running command on' and 'how to use ssh to run sh...'. The main interface displays a list of queues under the heading 'Create New Queue'. A search bar at the top says 'Filter by Prefix: Q Enter Text...'. Below it is a table with columns 'Name', 'Messages Available', 'Messages in Flight', and 'Created'. Two queues are listed:

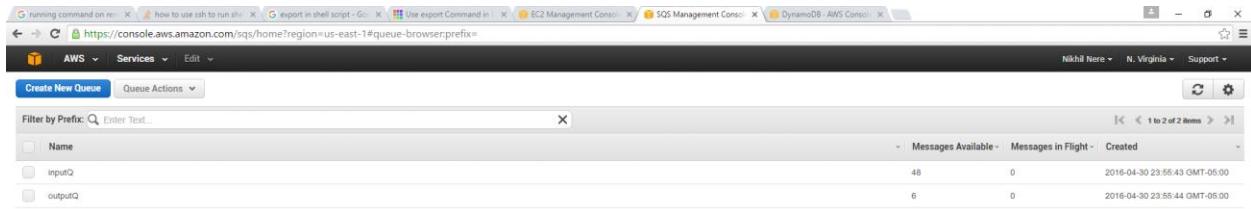
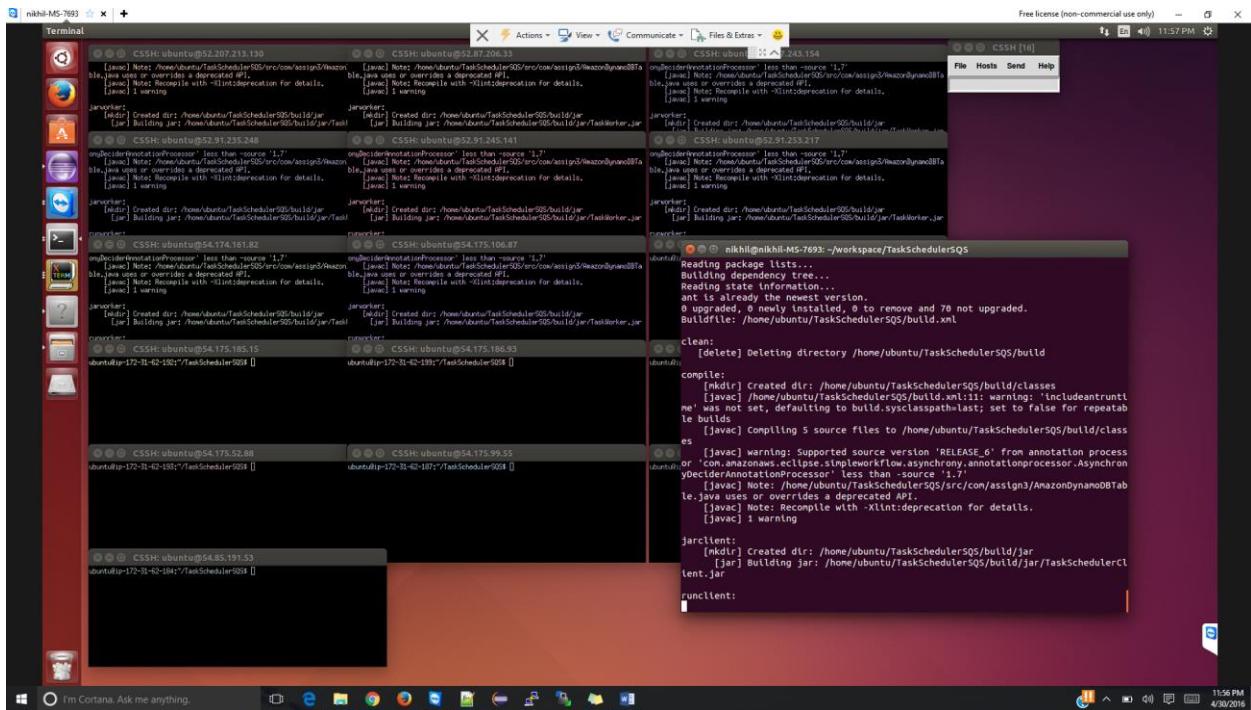
Name	Messages Available	Messages in Flight	Created
inputQ	332	0	2016-04-30 23:51:14 GMT-05:00
outputQ	1	0	2016-04-30 23:51:15 GMT-05:00

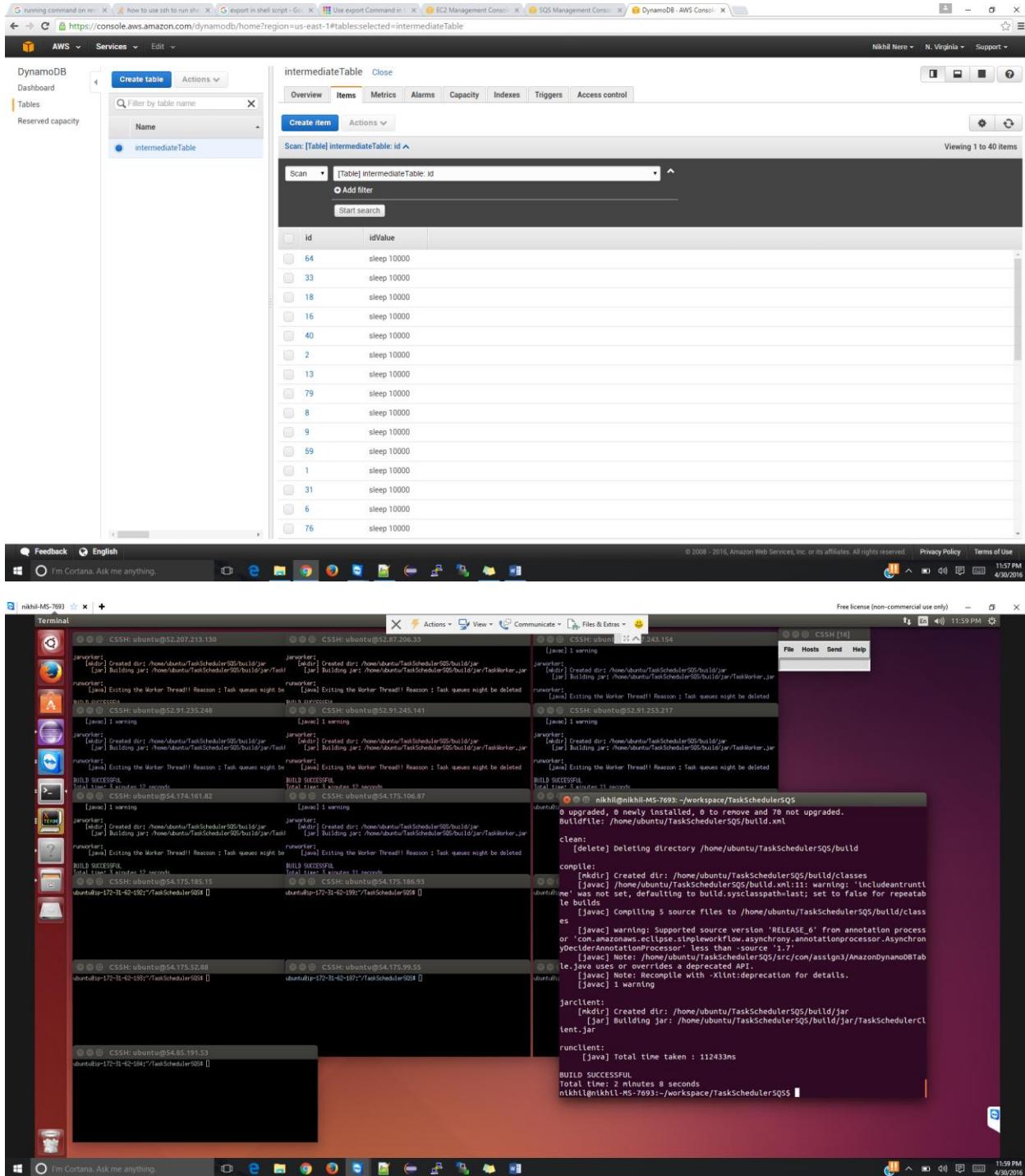
The screenshot shows the AWS DynamoDB Management Console. The left sidebar has 'DynamoDB' selected, with options for 'Dashboard', 'Tables', and 'Reserved capacity'. Under 'Tables', 'intermediateTable' is selected. The main area shows the 'intermediateTable' details. The 'Items' tab is active, displaying a list of items with columns 'id' and 'idValue'. The items are:

id	idValue
228	sleep 1000
328	sleep 1000
99	sleep 1000
475	sleep 1000
63	sleep 1000
141	sleep 1000
468	sleep 1000
207	sleep 1000
195	sleep 1000
92	sleep 1000
357	sleep 1000
120	sleep 1000
440	sleep 1000
675	sleep 1000
420	sleep 1000

Case: 8 workers, 80 tasks, task is sleep 10000

A screenshot of a Windows desktop environment showing several terminal windows (SSH sessions) running on different hosts. The hosts include 'nikhil-MS-7693' (localhost), 'ubuntu@52.87.213.130', 'ubuntu@52.91.245.141', 'ubuntu@52.91.253.217', 'ubuntu@52.91.253.218', 'nikhil@nikhil-MS-7693: ~/workspace/TaskSchedulerSQS', 'ubuntu@54.175.185.15', and 'ubuntu@54.175.52.88'. Each terminal window displays Java build logs, Maven dependency resolution errors, and Java command-line executions related to the 'TaskSchedulerSQS' project. The desktop also features a taskbar with icons for various applications like File Explorer, Edge, and a Cortana search bar.





Case: 16 workers, 10k tasks, task is sleep 0

The screenshot displays a Windows desktop environment with multiple terminal windows open. Each window is titled 'SSH [x]' where x is a number from 1 to 16. The terminals show Java code being processed, with numerous error and warning messages. The code includes imports like 'java.util.*', 'java.io.*', and 'java.util.concurrent.*'. It involves creating directories ('mkdir'), building JAR files ('javac'), and running Java classes ('java'). One terminal session shows the execution of 'javac workloadGenerationUtil.java' and 'Workload runclient'. The desktop also features a taskbar with icons for File Explorer, Task Scheduler, and other system tools. The status bar at the bottom right shows the date as 12/04/AM and the time as 8:43.

A screenshot of a Windows desktop environment showing several terminal windows. The windows are titled with Java command-line arguments related to building and running a TaskSchedulerSQS application. The tasks include creating build directories, building JAR files, and executing tasks like 'runclient' and 'jarclient'. Each window displays standard Java compiler output with various warning and informational messages. The desktop background is visible at the bottom, showing icons for Cortana, File Explorer, and other system icons.

The screenshot shows the AWS SQS Management Console. At the top, there are several tabs including "running command on" and "how to use ssh to run sh...". The main area displays a table of queues:

Name	Messages Available	Messages in Flight	Created
inputQ	2	2	2016-05-01 00:03:44 GMT-05:00
outputQ	1,865	0	2016-05-01 00:03:45 GMT-05:00

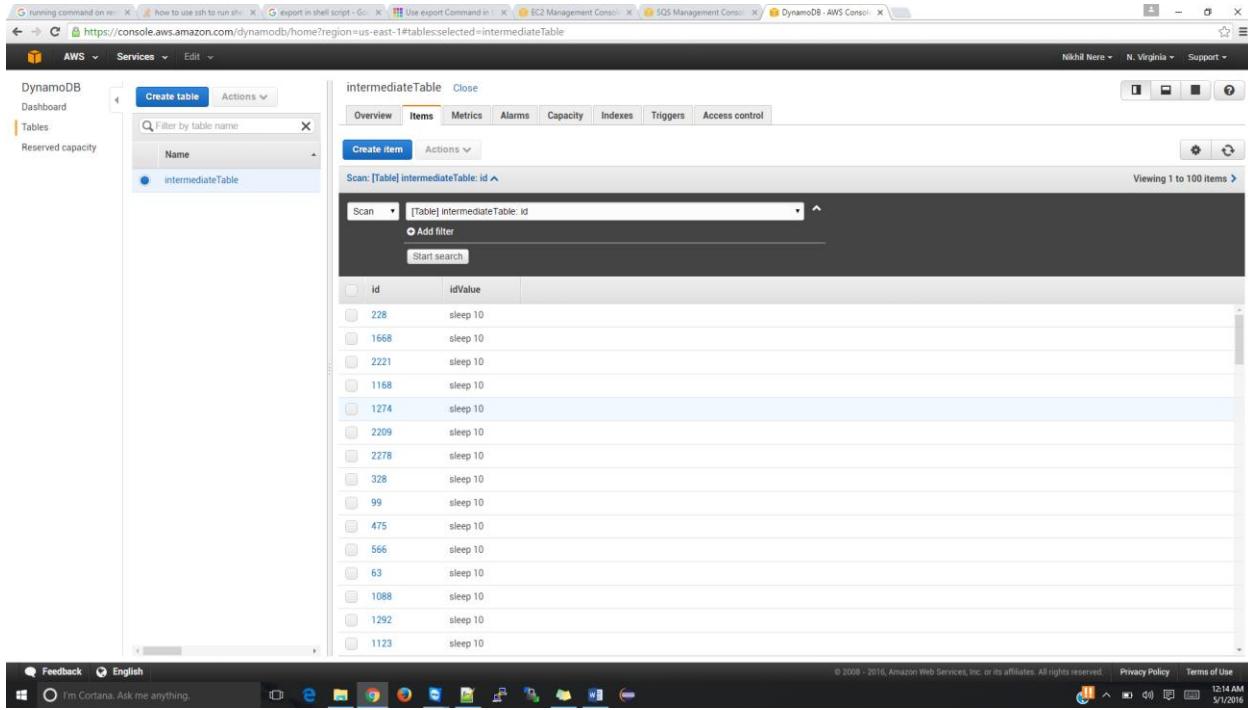
The screenshot shows the AWS DynamoDB Management Console. The left sidebar shows "DynamoDB" with "Tables" selected. The main area shows the "intermediateTable" table details:

id	idValue
228	sleep 0
1668	sleep 0
2221	sleep 0
1168	sleep 0
2381	sleep 0
1274	sleep 0
2209	sleep 0
2278	sleep 0
328	sleep 0
99	sleep 0
475	sleep 0
2366	sleep 0
566	sleep 0
2416	sleep 0
2370	sleep 0

Case: 16 workers, 16000 tasks, task is sleep 10ms

The screenshot captures a Windows desktop environment with several open terminal windows. Each window is connected via SSH to an Ubuntu 18.04 LTS server. The terminals are displaying command-line output for Java compilation and execution. One terminal window is specifically focused on the Java command, showing the compilation of a 'TaskWorker.jar' file. Another terminal window shows the execution of a Java application named 'WorkloadGenerationUtil'. The desktop taskbar at the bottom includes the Start button, a search bar labeled 'Cortana. Ask me anything.', and icons for File Explorer, Task View, and other system utilities. The overall setup suggests a developer or administrator working on a distributed task scheduling system.





A screenshot of a Windows desktop environment showing multiple terminal windows. The windows are titled with hostnames and port numbers, such as 'CSSH: ubuntu@52.97.206.33' and 'CSSH: nikhil@nikhil-MS-7693'. Each window displays the output of a Java build process, specifically for a 'TaskSchedulerSQS' application. The logs show various stages of the build, including directory creation, jar file building, and task worker thread creation. Some logs indicate warnings or errors related to task queues and worker threads. The desktop background is light blue, and the taskbar at the bottom shows icons for various applications like File Explorer, Task Scheduler, and Cortana.

Case: 16 Workers, 1600 tasks, task is sleep 1000

```

SSH: ubuntu@52.207.213.150
SSH: ubuntu@54.175.186.93
SSH: ubuntu@54.175.186.95
SSH: ubuntu@54.175.186.97
nikhil@nikhil-MS-7693: ~/workspace/TaskSchedulerSQS

```

```

SSH: ubuntu@52.207.213.150
SSH: ubuntu@54.175.186.93
SSH: ubuntu@54.175.186.95
SSH: ubuntu@54.175.186.97
nikhil@nikhil-MS-7693: ~/workspace/TaskSchedulerSQS

```

The screenshot shows the AWS SQS Management Console. At the top, there are several tabs including 'running command on' and 'how to use ssh to run sh...'. The main area displays a table of queues under the heading 'Create New Queue'. A search bar at the top left says 'Filter by Prefix: Q Enter Text...'. The table has columns for 'Name', 'Messages Available', 'Messages in Flight', and 'Created'. Two entries are listed:

Name	Messages Available	Messages in Flight	Created
inputQ	984	1	2016-05-01 00:20:29 GMT-05:00
outputQ	180	0	2016-05-01 00:20:29 GMT-05:00

The screenshot shows the AWS DynamoDB Management Console. The left sidebar has 'DynamoDB' selected, with options for 'Dashboard', 'Tables', and 'Reserved capacity'. Under 'Tables', 'intermediateTable' is selected. The main area shows the 'intermediateTable' details. It has tabs for 'Overview', 'Items', 'Metrics', 'Alarms', 'Capacity', 'Indexes', 'Triggers', and 'Access control'. The 'Items' tab is active, showing a table of items with columns 'id' and 'idValue'. The table contains 100 items, each with an id and a value of 'sleep 1000'. The first few items are:

id	idValue
228	sleep 1000
328	sleep 1000
99	sleep 1000
63	sleep 1000
141	sleep 1000
207	sleep 1000
195	sleep 1000
92	sleep 1000
357	sleep 1000
120	sleep 1000
231	sleep 1000
168	sleep 1000
365	sleep 1000
64	sleep 1000
103	sleep 1000

Case: 16 workers, 160 tasks, task is sleep 10000

The screenshot shows a Windows desktop environment with several terminal windows open, likely for a Java development project. The terminals are running on the Ubuntu 18.04 LTS distribution.

- Terminal 1:** Shows the command `mvn clean package` being run, resulting in a warning about the `amazon-dynamodb-otbt` dependency being used with an older version of `annotationprocessor`.
- Terminal 2:** Shows the command `mvn clean package` being run, resulting in a warning about the `amazon-dynamodb-otbt` dependency being used with an older version of `annotationprocessor`.
- Terminal 3:** Shows the command `mvn clean package` being run, resulting in a warning about the `amazon-dynamodb-otbt` dependency being used with an older version of `annotationprocessor`.
- Terminal 4:** Shows the command `mvn clean package` being run, resulting in a warning about the `amazon-dynamodb-otbt` dependency being used with an older version of `annotationprocessor`.
- Terminal 5:** Shows the command `mvn clean package` being run, resulting in a warning about the `amazon-dynamodb-otbt` dependency being used with an older version of `annotationprocessor`.
- Terminal 6:** Shows the command `mvn clean package` being run, resulting in a warning about the `amazon-dynamodb-otbt` dependency being used with an older version of `annotationprocessor`.
- Terminal 7:** Shows the command `mvn clean package` being run, resulting in a warning about the `amazon-dynamodb-otbt` dependency being used with an older version of `annotationprocessor`.
- Terminal 8:** Shows the command `mvn clean package` being run, resulting in a warning about the `amazon-dynamodb-otbt` dependency being used with an older version of `annotationprocessor`.
- Terminal 9:** Shows the command `mvn clean package` being run, resulting in a warning about the `amazon-dynamodb-otbt` dependency being used with an older version of `annotationprocessor`.
- Terminal 10:** Shows the command `mvn clean package` being run, resulting in a warning about the `amazon-dynamodb-otbt` dependency being used with an older version of `annotationprocessor`.
- Terminal 11:** Shows the command `mvn clean package` being run, resulting in a warning about the `amazon-dynamodb-otbt` dependency being used with an older version of `annotationprocessor`.
- Terminal 12:** Shows the command `mvn clean package` being run, resulting in a warning about the `amazon-dynamodb-otbt` dependency being used with an older version of `annotationprocessor`.
- Terminal 13:** Shows the command `mvn clean package` being run, resulting in a warning about the `amazon-dynamodb-otbt` dependency being used with an older version of `annotationprocessor`.
- Terminal 14:** Shows the command `mvn clean package` being run, resulting in a warning about the `amazon-dynamodb-otbt` dependency being used with an older version of `annotationprocessor`.
- Terminal 15:** Shows the command `mvn clean package` being run, resulting in a warning about the `amazon-dynamodb-otbt` dependency being used with an older version of `annotationprocessor`.
- Terminal 16:** Shows the command `mvn clean package` being run, resulting in a warning about the `amazon-dynamodb-otbt` dependency being used with an older version of `annotationprocessor`.

The taskbar at the bottom shows various icons for common Windows applications like File Explorer, Task View, and Start.



