

## Chuan-Ti Chen (Judith)

The screenshot displays an IDE with the following components:

- Project Explorer (Left):** Shows the project structure for 'WordCount'. The 'src' directory contains 'main' and 'resources'. The 'main' directory contains 'java'. The 'java' directory contains 'WordCount.java'.
- Code Editor (Center):** Displays the content of 'WordCount.java'. The code is a MapReduce job using Hadoop. It includes imports for Hadoop classes, a public class 'WordCount' that extends 'Mapper', and a 'main' method that runs the job.
- Run Console (Bottom):** Shows the output of the job execution. The output indicates that the job completed successfully with an exit code of 0. The output also shows various statistics, including the number of records processed, the number of reducers, and the total heap usage.

The code in 'WordCount.java' is as follows:

```
import org.apache.hadoop.mapreduce.Job;
import org.apache.hadoop.mapreduce.Mapper;
import org.apache.hadoop.mapreduce.Reducer;
import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;
import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;

public class WordCount {

    public static class TokenizerMapper
        extends Mapper<Object, Text, Text, IntWritable> {

        private final static IntWritable one = new IntWritable( value: 1);
        private Text word = new Text();

        public void map(Object key, Text value, Context context
```

### Successful step execution

**JAR location :** s3://cs6240-data/jar/hw1.jar  
**Main class :** None  
**Arguments :** WordCount s3://cs6240-data/input/hw1.txt/ s3://cs6240-data/output/hw1/  
**Action on failure:** Continue

# Cluster configuration

Cluster: My cluster    Waiting    Cluster ready after last step completed.

Summary	Application user interfaces	Monitoring	Hardware	Configurations	Events	Steps	Bootstrap actions
<b>Summary</b>				<b>Configuration details</b>			
ID: j-3K5A0S99MHGF1				Release label: emr-5.33.1			
Creation date: 2021-09-30 16:10 (UTC-7)				Hadoop distribution: Amazon 2.10.1			
Elapsed time: 1 hour, 30 minutes				Applications: Hive 2.3.7, Pig 0.17.0, Hue 4.9.0			
After last step completes: Cluster waits				Log URI: s3://aws-logs-353913179265-us-west-2/elasticmapreduce/			
Termination protection: On <a href="#">Change</a>				EMRFS consistent view: Disabled			
Tags: -- <a href="#">View All</a> / <a href="#">Edit</a>				Custom AMI ID: --			
Master public DNS: ec2-54-189-85-76.us-west-2.compute.amazonaws.com							
<a href="#">Connect to the Master Node Using SSH</a>							
<b>Application user interfaces</b>				<b>Network and hardware</b>			
Persistent user interfaces : <a href="#">YARN timeline server</a> , <a href="#">Tez UI</a>				Availability zone: us-west-2c			
On-cluster user interfaces : Not Enabled <a href="#">Enable an SSH Connection</a>				Subnet ID: <a href="#">subnet-041ecd7c3e201c115</a>			
				Master: <span>Running</span> 1 m3.xlarge			
				Core: <span>Running</span> 2 m3.xlarge			
				Task: --			
				Cluster scaling: Not enabled			
				Auto-termination: Not enabled			
<b>Security and access</b>							
Key name: --							
EC2 instance profile: EMR_EC2_DefaultRole							
EMR role: EMR_DefaultRole							
Auto Scaling role: EMR_AutoScaling_DefaultRole							
Visible to all users: All <a href="#">Change</a>							
Security groups for Master: <a href="#">sg-001558d0e14e4fb39</a> (ElasticMapReduce-master)							
Security groups for Core & Task: <a href="#">sg-0c9ecfb9c6c57cb38</a> (ElasticMapReduce-slave)							