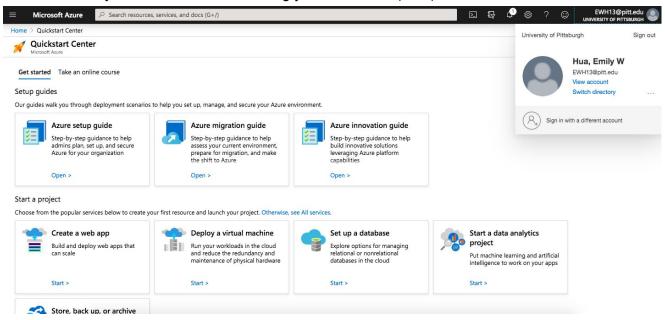
Emily Hua

Homework 3: Running WordCount MapReduce on Microsoft Azure

• Screenshot of your Azure Account showing your username (25%)

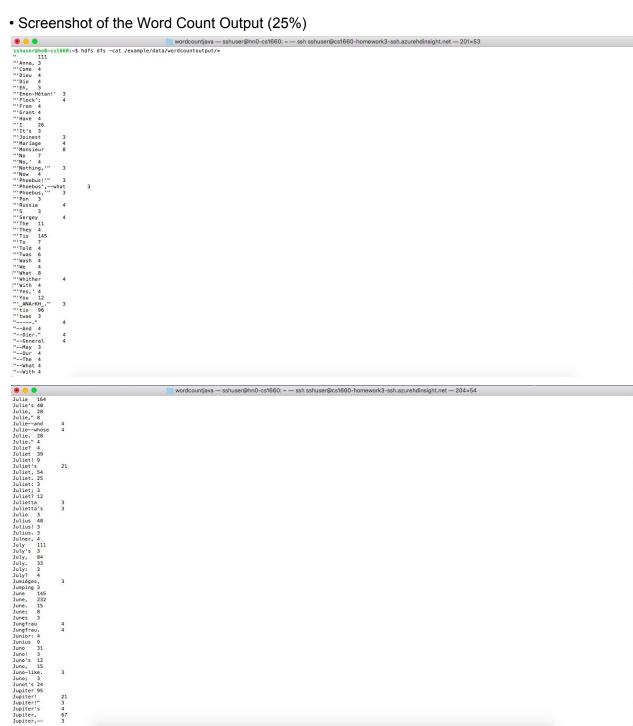


• Screenshot of your implementation of Word Count on Azure (25%)

```
package org.apache.hadoop.examples;
import java.io.IOException;
import java.util.StringTokenizer;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.io.IntWritable;
import org.apache.hadoop.io.Text;
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;
import org.apache.hadoop.util.GenericOptionsParser;
public class WordCount {
   public static class TokenizerMapper
       extends Mapper<Object, Text, Text, IntWritable>{
   private final static IntWritable one = new IntWritable(1);
   private Text word = new Text();
   public void map(Object key, Text value, Context context
                   ) throws IOException, InterruptedException {
       StringTokenizer itr = new StringTokenizer(value.toString());
       while (itr.hasMoreTokens()) {
       word.set(itr.nextToken());
       context.write(word, one);
}
public static class IntSumReducer
       extends Reducer<Text,IntWritable,Text,IntWritable> {
   private IntWritable result = new IntWritable();
   public void reduce(Text key, Iterable<IntWritable> values,
                       Context context
                       ) throws IOException, InterruptedException {
       int sum = 0;
       for (IntWritable val : values) {
       sum += val.get();
       result.set(sum);
       context.write(key, result);
   }
}
public static void main(String[] args) throws Exception {
    Configuration conf = new Configuration();
    String[] otherArgs = new GenericOptionsParser(conf, args).getRemainingArgs();
    if (otherArgs.length != 2) {
        System.err.println("Usage: wordcount <in> <out>");
        System.exit(2);
    Job job = new Job(conf, "word count");
    job.setJarByClass(WordCount.class);
    job.setMapperClass(TokenizerMapper.class);
    job.setCombinerClass(IntSumReducer.class);
    job.setReducerClass(IntSumReducer.class);
    job.setOutputKeyClass(Text.class);
    job.setOutputValueClass(IntWritable.class);
    FileInputFormat.addInputPath(job, new Path(otherArgs[0]));
    FileOutputFormat.setOutputPath(job, new Path(otherArgs[1]));
    System.exit(job.waitForCompletion(true) ? 0 : 1);
}
```

• Your input data file. Uploaded to OneDrive. (25%) (link) https://pitt-my.sharepoint.com/:t:/g/personal/ewh13 pitt edu/EQTSN86KW3IDuYRiw483-SEBU gpyvTWmsze2SWvwB67UtA?e=8sSr7O

Screenshot of the Word Count Output (25%)



*File too large to take a full screenshot of the output, here are screenshots of the beginning, middle, and end of the file.