```
16/11/23 01:04:28 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032
16/11/23 01:04:28 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032
16/11/23 01:04:29 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed. Implement the Tool interf
ace and execute your application with ToolRunner to remedy this.
16/11/23 01:04:29 INFO mapred.FileInputFormat: Total input paths to process : 169
16/11/23 01:04:29 INFO mapreduce.JobSubmitter: number of splits:169
16/11/23 01:04:29 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1479888398216_0003
16/11/23 01:04:29 INFO impl.YarnClientImpl: Submitted application application_1479888398216_0003
16/11/23 01:04:29 INFO mapreduce.Job: The url to track the job: http://uw1-320-07:8088/proxy/application_1479888398216_0003/
16/11/23 01:04:29 INFO mapreduce.Job: Running job: job_1479888398216_0003
16/11/23 01:04:34 INFO mapreduce.Job: Job job_1479888398216_0003 running in uber mode : false
16/11/23 01:04:34 INFO mapreduce.Job:  map 0% reduce 0%
16/11/23 01:04:41 INFO mapreduce.Job:  map 4% reduce 0%
16/11/23 01:04:44 INFO mapreduce.Job:  map 5% reduce 0%
16/11/23 01:04:46 INFO mapreduce.Job:  map 7% reduce 0%
16/11/23 01:04:49 INFO mapreduce.Job:  map 8% reduce 0%
16/11/23 01:04:50 INFO mapreduce.Job:  map 9% reduce 0%
16/11/23 01:04:51 INFO mapreduce.Job:  map 10% reduce 0%
16/11/23 01:04:52 INFO mapreduce.Job:  map 11% reduce 0%
16/11/23 01:04:54 INFO mapreduce.Job:  map 12% reduce 0%
16/11/23 01:04:57 INFO mapreduce.Job:  map 14% reduce 0%
16/11/23 01:04:58 INFO mapreduce.Job:  map 15% reduce 0%
16/11/23 01:05:02 INFO mapreduce.Job:  map 17% reduce 0%
16/11/23 01:05:03 INFO mapreduce.Job:  map 19% reduce 0%
16/11/23 01:05:07 INFO mapreduce.Job:  map 21% reduce 0%
16/11/23 01:05:08 INFO mapreduce.Job:  map 22% reduce 0%
16/11/23 01:05:12 INFO mapreduce.Job:  map 24% reduce 0%
16/11/23 01:05:13 INFO mapreduce.Job:  map 25% reduce 0%
16/11/23 01:05:16 INFO mapreduce.Job:  map 27% reduce 0%
16/11/23 01:05:17 INFO mapreduce.Job:  map 28% reduce 9%
16/11/23 01:05:20 INFO mapreduce.Job:  map 30% reduce 9%
16/11/23 01:05:21 INFO mapreduce.Job:  map 31% reduce 9%
16/11/23 01:05:23 INFO mapreduce.Job:  map 31% reduce 10%
16/11/23 01:05:24 INFO mapreduce.Job:  map 33% reduce 10%
16/11/23 01:05:25 INFO mapreduce.Job:  map 34% reduce 10%
16/11/23 01:05:26 INFO mapreduce.Job:  map 34% reduce 11%
16/11/23 01:05:28 INFO mapreduce.Job:  map 36% reduce 11%
16/11/23 01:05:29 INFO mapreduce.Job:  map 37% reduce 12%
16/11/23 01:05:31 INFO mapreduce.Job:  map 38% reduce 12%
16/11/23 01:05:32 INFO mapreduce.Job:  map 38% reduce 13%
16/11/23 01:05:33 INFO mapreduce.Job:  map 40% reduce 13%
16/11/23 01:05:35 INFO mapreduce.Job:  map 41% reduce 14%
```

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16/11/23 01:06:17 INFO mapreduce.Job:  map 73% reduce 24%
16/11/23 01:06:18 INFO mapreduce.Job:  map 75% reduce 24%
16/11/23 01:06:20 INFO mapreduce.Job:  map 75% reduce 25%
16/11/23 01:06:21 INFO mapreduce.Job:  map 76% reduce 25%
16/11/23 01:06:22 INFO mapreduce.Job:  map 78% reduce 25%
16/11/23 01:06:23 INFO mapreduce.Job:  map 78% reduce 26%
16/11/23 01:06:25 INFO mapreduce.Job:  map 79% reduce 26%
16/11/23 01:06:26 INFO mapreduce.Job:  map 81% reduce 27%
16/11/23 01:06:28 INFO mapreduce.Job:  map 82% reduce 27%
16/11/23 01:06:30 INFO mapreduce.Job:  map 83% reduce 27%
16/11/23 01:06:31 INFO mapreduce.Job:  map 84% reduce 27%
16/11/23 01:06:32 INFO mapreduce.Job:  map 85% reduce 28%
16/11/23 01:06:34 INFO mapreduce.Job:  map 86% reduce 28%
16/11/23 01:06:35 INFO mapreduce.Job:  map 88% reduce 28%
16/11/23 01:06:36 INFO mapreduce.Job:  map 88% reduce 29%
16/11/23 01:06:38 INFO mapreduce.Job:  map 90% reduce 29%
16/11/23 01:06:39 INFO mapreduce.Job:  map 91% reduce 30%
16/11/23 01:06:42 INFO mapreduce.Job:  map 93% reduce 30%
16/11/23 01:06:45 INFO mapreduce.Job:  map 93% reduce 31%
16/11/23 01:06:46 INFO mapreduce.Job:  map 96% reduce 31%
16/11/23 01:06:48 INFO mapreduce.Job:  map 96% reduce 32%
16/11/23 01:06:50 INFO mapreduce.Job:  map 99% reduce 32%
16/11/23 01:06:51 INFO mapreduce.Job:  map 99% reduce 33%
16/11/23 01:06:52 INFO mapreduce.Job:  map 100% reduce 33%
16/11/23 01:06:53 INFO mapreduce.Job:  map 100% reduce 100%
16/11/23 01:06:54 INFO mapreduce.Job: Job job_1479888398216_0003 completed successfully
16/11/23 01:06:54 INFO mapreduce.Job: Counters: 49
        File System Counters
                FILE: Number of bytes read=3389
                FILE: Number of bytes written=20300519
                FILE: Number of read operations=0
                FILE: Number of large read operations=0
                FILE: Number of write operations=0
                HDFS: Number of bytes read=11481647
                HDFS: Number of bytes written=2283
                HDFS: Number of read operations=510
                HDFS: Number of large read operations=0
                HDFS: Number of write operations=2
        Job Counters
                Launched map tasks=169
                Launched reduce tasks=1
                Data-local map tasks=169
```

```
            Data-local map tasks=169
            Total time spent by all maps in occupied slots (ms)=587234
            Total time spent by all reduces in occupied slots (ms)=106143
            Total time spent by all map tasks (ms)=587234
            Total time spent by all reduce tasks (ms)=106143
            Total vcore-milliseconds taken by all map tasks=587234
            Total vcore-milliseconds taken by all reduce tasks=106143
            Total megabyte-milliseconds taken by all map tasks=601327616
            Total megabyte-milliseconds taken by all reduce tasks=108690432
    Map-Reduce Framework
            Map input records=299992
            Map output records=2047
            Map output bytes=36504
            Map output materialized bytes=4397
            Input split bytes=17715
            Combine input records=2047
            Combine output records=160
            Reduce input groups=5
            Reduce shuffle bytes=4397
            Reduce input records=160
            Reduce output records=5
            Spilled Records=320
            Shuffled Maps =169
            Failed Shuffles=0
            Merged Map outputs=169
            GC time elapsed (ms)=20896
            CPU time spent (ms)=120270
            Physical memory (bytes) snapshot=54736089088
            Virtual memory (bytes) snapshot=482242150400
            Total committed heap usage (bytes)=54937518080
    Shuffle Errors
            BAD_ID=0
            CONNECTION=0
            IO_ERROR=0
            WRONG_LENGTH=0
            WRONG_MAP=0
            WRONG_REDUCE=0
    File Input Format Counters
            Bytes Read=11463932
    File Output Format Counters
            Bytes Written=2283
Time elapsed (in miliseconds): 146842
```