

```
saidileep@saidileep-VirtualBox:~$ su hduser
Password:
hduser@saidileep-VirtualBox:/home/saidileep$ cd\
>
hduser@saidileep-VirtualBox:~$ cd /usr/local/hadoop/sbin
hduser@saidileep-VirtualBox:/usr/local/hadoop/sbin$ ./start-dfs.sh
20/11/26 19:47:52 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
Starting namenodes on [localhost]
hduser@localhost's password:
localhost: starting namenode, logging to /usr/local/hadoop/logs/hadoop-hduser-na
menode-saidileep-VirtualBox.out
hduser@localhost's password:
localhost: starting datanode, logging to /usr/local/hadoop/logs/hadoop-hduser-da
tanode-saidileep-VirtualBox.out
Starting secondary namenodes [0.0.0.0]
hduser@0.0.0.0's password:
0.0.0.0: starting secondarynamenode, logging to /usr/local/hadoop/logs/hadoop-hd
user-secondarynamenode-saidileep-VirtualBox.out
20/11/26 19:48:17 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
hduser@saidileep-VirtualBox:/usr/local/hadoop/sbin$ ./start-yarn.sh
starting yarn daemons
starting resourcemanager, logging to /usr/local/hadoop/logs/yarn-hduser-resource
manager-saidileep-VirtualBox.out
hduser@localhost's password:
localhost: starting nodemanager, logging to /usr/local/hadoop/logs/yarn-hduser-n
odemanager-saidileep-VirtualBox.out
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```
hduser@saidileep-VirtualBox:~/hadoop-2.6.0$ ls
hduser@saidileep-VirtualBox:~/hadoop-2.6.0$ hadoop fs -ls /
20/11/26 19:55:11 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 1 items
drwxr-xr-x  - hduser supergroup          0 2020-11-26 19:51 /rgs1
```

```
hduser@saidileep-VirtualBox:~/hadoop-2.6.0$ hadoop fs -copyFromLocal /home/saidileep/Desktop/file1 /rgs1/test.txt
20/11/26 19:58:08 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
hduser@saidileep-VirtualBox:~/hadoop-2.6.0$ hadoop fs -ls /rgs1
20/11/26 19:59:01 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 1 items
-rw-r--r--    1 hduser supergroup      89 2020-11-26 19:58 /rgs1/test.txt
```



```
hduser@saidileep-VirtualBox:~/hadoop-2.6.0$ hadoop jar /home/saidileep/Desktop/w
ordcount.jar WordCount /rgs1/test.txt /rgs1/output
20/11/26 20:02:34 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
20/11/26 20:02:34 INFO Configuration.deprecation: session.id is deprecated. Inst
ead, use dfs.metrics.session-id
20/11/26 20:02:34 INFO jvm.JvmMetrics: Initializing JVM Metrics with processName
=JobTracker, sessionId=
20/11/26 20:02:34 INFO input.FileInputFormat: Total input paths to process : 1
20/11/26 20:02:34 INFO mapreduce.JobSubmitter: number of splits:1
20/11/26 20:02:34 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_lo
cal874368934_0001
20/11/26 20:02:34 INFO mapreduce.Job: The url to track the job: http://localhost
:8080/
20/11/26 20:02:34 INFO mapreduce.Job: Running job: job_local874368934_0001
20/11/26 20:02:34 INFO mapred.LocalJobRunner: OutputCommitter set in config null
20/11/26 20:02:34 INFO mapred.LocalJobRunner: OutputCommitter is org.apache.hado
op.mapreduce.lib.output.FileOutputCommitter
20/11/26 20:02:35 INFO mapred.LocalJobRunner: Waiting for map tasks
20/11/26 20:02:35 INFO mapred.LocalJobRunner: Starting task: attempt_local874368
934_0001_m_000000_0
20/11/26 20:02:35 INFO mapred.Task: Using ResourceCalculatorProcessTree : [ ]
20/11/26 20:02:35 INFO mapred.MapTask: Processing split: hdfs://localhost:54310/
rgs1/test.txt:0+89
20/11/26 20:02:35 INFO mapred.MapTask: (EQUATOR) 0 kvi 26214396(104857584)
20/11/26 20:02:35 INFO mapred.MapTask: mapreduce.task.io.sort.mb: 100
20/11/26 20:02:35 INFO mapred.MapTask: soft limit at 83886080
20/11/26 20:02:35 INFO mapred.MapTask: bufstart = 0; bufvoid = 104857600
20/11/26 20:02:35 INFO mapred.MapTask: kvstart = 26214396; length = 6553600
20/11/26 20:02:35 INFO mapred.MapTask: Map output collector class = org.apache.h
adoop.mapred.MapTask$MapOutputBuffer
20/11/26 20:02:35 INFO mapred.LocalJobRunner:
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20/11/26 20:02:35 INFO mapred.MapTask: Starting flush of map output
20/11/26 20:02:35 INFO mapred.MapTask: Spilling map output
20/11/26 20:02:35 INFO mapred.MapTask: bufstart = 0; bufend = 169; bufvoid = 104
857600
20/11/26 20:02:35 INFO mapred.MapTask: kvstart = 26214396(104857584); kvend = 26
214320(104857280); length = 77/6553600
20/11/26 20:02:35 INFO mapred.MapTask: Finished spill 0
20/11/26 20:02:35 INFO mapred.Task: Task:attempt_local874368934_0001_m_000000_0
is done. And is in the process of committing
20/11/26 20:02:35 INFO mapred.LocalJobRunner: map
20/11/26 20:02:35 INFO mapred.Task: Task 'attempt_local874368934_0001_m_000000_0
' done.
20/11/26 20:02:35 INFO mapred.LocalJobRunner: Finishing task: attempt_local87436
8934_0001_m_000000_0
20/11/26 20:02:35 INFO mapred.LocalJobRunner: map task executor complete.
20/11/26 20:02:35 INFO mapred.LocalJobRunner: Waiting for reduce tasks
20/11/26 20:02:35 INFO mapred.LocalJobRunner: Starting task: attempt_local874368
934_0001_r_000000_0
20/11/26 20:02:35 INFO mapred.Task: Using ResourceCalculatorProcessTree : [ ]
20/11/26 20:02:35 INFO mapred.ReduceTask: Using ShuffleConsumerPlugin: org.apach
e.hadoop.mapreduce.task.reduce.Shuffle@386f660a
20/11/26 20:02:35 INFO reduce.MergeManagerImpl: MergerManager: memoryLimit=33433
8464, maxSingleShuffleLimit=83584616, mergeThreshold=220663392, ioSortFactor=10,
memToMemMergeOutputsThreshold=10
20/11/26 20:02:35 INFO reduce.EventFetcher: attempt_local874368934_0001_r_000000
_0 Thread started: EventFetcher for fetching Map Completion Events
20/11/26 20:02:35 INFO reduce.LocalFetcher: localfetcher#1 about to shuffle outp
ut of map attempt_local874368934_0001_m_000000_0 decomp: 111 len: 115 to MEMORY
20/11/26 20:02:35 INFO reduce.InMemoryMapOutput: Read 111 bytes from map-output
for attempt_local874368934_0001_m_000000_0
20/11/26 20:02:35 INFO reduce.MergeManagerImpl: closeInMemoryFile -> map-output
of size: 111, inMemoryMapOutputs.size() -> 1, commitMemory -> 0, usedMemory ->11
```



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1
20/11/26 20:02:35 INFO reduce.EventFetcher: EventFetcher is interrupted.. Returning
20/11/26 20:02:35 INFO mapred.LocalJobRunner: 1 / 1 copied.
20/11/26 20:02:35 INFO reduce.MergeManagerImpl: finalMerge called with 1 in-memory map-outputs and 0 on-disk map-outputs
20/11/26 20:02:35 INFO mapred.Merger: Merging 1 sorted segments
20/11/26 20:02:35 INFO mapred.Merger: Down to the last merge-pass, with 1 segments left of total size: 105 bytes
20/11/26 20:02:35 INFO reduce.MergeManagerImpl: Merged 1 segments, 111 bytes to disk to satisfy reduce memory limit
20/11/26 20:02:35 INFO reduce.MergeManagerImpl: Merging 1 files, 115 bytes from disk
20/11/26 20:02:35 INFO reduce.MergeManagerImpl: Merging 0 segments, 0 bytes from memory into reduce
20/11/26 20:02:35 INFO mapred.Merger: Merging 1 sorted segments
20/11/26 20:02:35 INFO mapred.Merger: Down to the last merge-pass, with 1 segments left of total size: 105 bytes
20/11/26 20:02:35 INFO mapred.LocalJobRunner: 1 / 1 copied.
20/11/26 20:02:35 INFO Configuration.deprecation: mapred.skip.on is deprecated. Instead, use mapreduce.job.skiprecords
20/11/26 20:02:35 INFO mapred.Task: Task:attempt_local874368934_0001_r_000000_0 is done. And is in the process of committing
20/11/26 20:02:35 INFO mapred.LocalJobRunner: 1 / 1 copied.
20/11/26 20:02:35 INFO mapred.Task: Task attempt_local874368934_0001_r_000000_0 is allowed to commit now
20/11/26 20:02:35 INFO output.FileOutputCommitter: Saved output of task 'attempt_local874368934_0001_r_000000_0' to hdfs://localhost:54310/rgs1/output/_temporary/0/task_local874368934_0001_r_000000
20/11/26 20:02:35 INFO mapred.LocalJobRunner: reduce > reduce
20/11/26 20:02:35 INFO mapred.Task: Task 'attempt_local874368934_0001_r_000000_0' done.
```

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20/11/26 20:02:35 INFO mapred.LocalJobRunner: Finishing task: attempt_local87436
8934_0001_r_000000_0
20/11/26 20:02:35 INFO mapred.LocalJobRunner: reduce task executor complete.
20/11/26 20:02:35 INFO mapreduce.Job: Job job_local874368934_0001 running in ub
r mode : false
20/11/26 20:02:35 INFO mapreduce.Job: map 100% reduce 100%
20/11/26 20:02:35 INFO mapreduce.Job: Job job_local874368934_0001 completed succ
essfully
20/11/26 20:02:35 INFO mapreduce.Job: Counters: 38
  File System Counters
    FILE: Number of bytes read=6990
    FILE: Number of bytes written=506019
    FILE: Number of read operations=0
    FILE: Number of large read operations=0
    FILE: Number of write operations=0
    HDFS: Number of bytes read=178
    HDFS: Number of bytes written=69
    HDFS: Number of read operations=13
    HDFS: Number of large read operations=0
    HDFS: Number of write operations=4
  Map-Reduce Framework
    Map input records=5
    Map output records=20
    Map output bytes=169
    Map output materialized bytes=115
    Input split bytes=101
    Combine input records=20
    Combine output records=10
    Reduce input groups=10
    Reduce shuffle bytes=115
    Reduce input records=10
    Reduce output records=10
```



```
Spilled Records=20
Shuffled Maps =1
Failed Shuffles=0
Merged Map outputs=1
GC time elapsed (ms)=0
CPU time spent (ms)=0
Physical memory (bytes) snapshot=0
Virtual memory (bytes) snapshot=0
Total committed heap usage (bytes)=546308096
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=89
File Output Format Counters
  Bytes Written=69
```

```
hduser@saidileep-VirtualBox:~/hadoop-2.6.0$ hadoop fs -ls /rgs1
20/11/26 20:03:02 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
Found 2 items
drwxr-xr-x   - hduser supergroup          0 2020-11-26 20:02 /rgs1/output
-rw-r--r--   1 hduser supergroup        89 2020-11-26 19:58 /rgs1/test.txt
```



```
hduser@saidileep-VirtualBox:~/hadoop-2.6.0$ hadoop fs -cat /rgs1/output/part-r-0
0000
20/11/26 20:04:55 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
are      1
brother  1
family   1
hi        1
how       5
is        4
job       1
sister   1
you       1
your      4
```