

```
hduser@bmsce-Precision-T1700:~/Desktop/temperature$ start-all.sh This
script is Deprecated. Instead use start-dfs.sh and start-yarn.shStarting
namenodes on [localhost]
hduser@localhost's password:
localhost: starting namenode, logging to /usr/local/hadoop/logs/hadoop-hduser-namenode-bmsce-
Precision-T1700.out
hduser@localhost's password:
localhost: starting datanode, logging to /usr/local/hadoop/logs/hadoop-hduser-datanode-bmsce-
Precision-T1700.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-hduser-
secondarynamenode-bmsce-Precision-T1700.out
starting yarn daemons
starting resourcemanager, logging to /usr/local/hadoop/logs/yarn-hduser-resourcemanager-bmsce-
Precision-T1700.out
hduser@localhost's password:
localhost: starting nodemanager, logging to /usr/local/hadoop/logs/yarn-hduser-nodemanager-bmsce-
Precision-T1700.out
```

```
hduser@bmsce-Precision-T1700:~/Desktop/temperature$
jps6832 NodeManager
6498 ResourceManager
6339 SecondaryNameNode
4887 org.eclipse.equinox.launcher_1.5.600.v20191014-2022.jar
6954 Jps
6123 DataNode
5951 NameNode
```

```
hduser@bmsce-Precision-T1700:~/Desktop/temperature$ hdfs dfs -ls /
-ls: Unknown command
```

```
hduser@bmsce-Precision-T1700:~/Desktop/temperature$ hdfs dfs -ls /
Found 31 items
```

drwxr-xr-x	- hduser	supergroup	0	2022-06-06	12:35	/CSE
drwxr-xr-x	- hduser	supergroup	0	2022-06-06	12:23	/FFF
drwxr-xr-x	- hduser	supergroup	0	2022-06-06	12:36	/LLL
drwxr-xr-x	- hduser	supergroup	0	2022-06-20	12:06	/amit_bda
drwxr-xr-x	- hduser	supergroup	0	2022-06-27	11:42	/amit_lab
drwxr-xr-x	- hduser	supergroup	0	2022-06-03	14:52	/bharath
drwxr-xr-x	- hduser	supergroup	0	2022-06-03	14:43	/bharath035
drwxr-xr-x	- hduser	supergroup	0	2022-06-24	14:54	/chi
drwxr-xr-x	- hduser	supergroup	0	2022-05-31	10:21	/example
drwxr-xr-x	- hduser	supergroup	0	2022-06-01	15:13	/foldernew
drwxr-xr-x	- hduser	supergroup	0	2022-06-06	15:04	/hemang061

drwxr-xr-x	- hduser	supergroup	0	2022-06-20	15:16	/input_kusum
drwxr-xr-x	- hduser	supergroup	0	2022-06-03	12:27	/irfan
drwxr-xr-x	- hduser	supergroup	0	2022-06-22	10:44	/lwde
drwxr-xr-x	- hduser	supergroup	0	2022-06-27	13:03	/mapreducejoin_ami t
drwxr-xr-x	- hduser	supergroup	0	2022-06-22	15:32	/muskan
drwxr-xr-x	- hduser	supergroup	0	2022-06-22	15:06	/muskan_op
drwxr-xr-x	- hduser	supergroup	0	2022-06-22	15:35	/muskan_output
drwxr-xr-x	- hduser	supergroup	0	2022-06-06	15:04	/new_folder
drwxr-xr-x	- hduser	supergroup	0	2022-05-31	10:26	/one
drwxr-xr-x	- hduser	supergroup	0	2022-06-24	15:30	/out55
drwxr-xr-x	- hduser	supergroup	0	2022-06-20	12:17	/output
drwxr-xr-x	- hduser	supergroup	0	2022-06-27	13:04	/output_TOPn
drwxr-xr-x	- hduser	supergroup	0	2022-06-27	12:14	/output_Topn
drwxr-xr-x	- hduser	supergroup	0	2022-06-24	12:42	/r1
drwxr-xr-x	- hduser	supergroup	0	2022-06-24	12:24	/rgs

```

drwxr-xr-x    - hduser supergroup          0 2022-06-03 12:08 /kustum
drwxrwxr-x    - hduser supergroup          0 2019-08-01 16:19 /tmp
drwxr-xr-x    - hduser supergroup          0 2019-08-01 16:03 /user
drwxr-xr-x    - hduser supergroup          0 2022-06-01 09:46 /user1
-rw-r--r--    1 hduser supergroup        2436 2022-06-24 12:17 /wc.jar
hduser@bmsce-Precision-T1700:~/Desktop/temperature$ hdfs dfs -mkdir /kustum_temperature
hduser@bmsce-Precision-T1700:~/Desktop/temperature$ hdfs dfs -put ./1901 /kustum_temperature
hduser@bmsce-Precision-T1700:~/Desktop/temperature$ hdfs dfs -put ./1902 /kustum_temperature
hduser@bmsce-Precision-T1700:~/Desktop/temperature$ hdfs dfs -ls /kustum_temperature
Found 2 items
-rw-r--r--    1 hduser supergroup        888190 2022-06-27 14:47 /kustum_temperature/1901
-rw-r--r--    1 hduser supergroup        888978 2022-06-27 14:47 /kustum_temperature/1902
hduser@bmsce-Precision-T1700:~/Desktop/temperature$ hadoop jar ./avgtemp.jar AverageDriver
/kustum_temperature/1901 /kustum_temperature/output/
Exception in thread "main" java.lang.ClassNotFoundException: AverageDriverat
  java.net.URLClassLoader.findClass(URLClassLoader.java:382)
  at java.lang.ClassLoader.loadClass(ClassLoader.java:418) at
  java.lang.ClassLoader.loadClass(ClassLoader.java:351) at
  java.lang.Class.forName0(Native Method)
  at java.lang.Class.forName(Class.java:348)
  at org.apache.hadoop.util.RunJar.run(RunJar.java:214) at
  org.apache.hadoop.util.RunJar.main(RunJar.java:136)
hduser@bmsce-Precision-T1700:~/Desktop/temperature$ hadoop jar ./avgtemp.jar
temperature.AverageDriver /kustum_temperature/1901 /kustum_temperature/output/ 22/06/27
14:53:27 INFO Configuration.deprecation: session.id is deprecated. Instead, use
dfs.metrics.session-id
22/06/27 14:53:27 INFO jvm.JvmMetrics: Initializing JVM Metrics with processName=JobTracker,
sessionId=
22/06/27 14:53:27 WARN mapreduce.JobSubmitter: Hadoop command-line option parsing not performed.
Implement the Tool interface and execute your application with ToolRunner to remedy this.
22/06/27 14:53:27 INFO input.FileInputFormat: Total input paths to process : 122/06/27
14:53:27 INFO mapreduce.JobSubmitter: number of splits:1
22/06/27 14:53:28 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_local254968295_0001
22/06/27 14:53:28 INFO mapreduce.Job: The url to track the job: http://localhost:8080/
22/06/27 14:53:28 INFO mapreduce.Job: Running job: job_local254968295_0001
22/06/27 14:53:28 INFO mapred.LocalJobRunner: OutputCommitter set in config null
22/06/27 14:53:28 INFO mapred.LocalJobRunner: OutputCommitter is
org.apache.hadoop.mapreduce.lib.output.FileOutputCommitter
22/06/27 14:53:28 INFO mapred.LocalJobRunner: Waiting for map tasks
22/06/27 14:53:28 INFO mapred.LocalJobRunner: Starting task: attempt_local254968295_0001_m_000000_0
22/06/27 14:53:28 INFO mapred.Task: Using ResourceCalculatorProcessTree : [ ]
22/06/27 14:53:28 INFO mapred.MapTask: Processing split:
hdfs://localhost:54310/kustum_temperature/1901:0+888190
22/06/27 14:53:28 INFO mapred.MapTask: (EQUATOR) 0 kvi 26214396(104857584)
22/06/27 14:53:28 INFO mapred.MapTask: mapreduce.task.io.sort.mb: 100
22/06/27 14:53:28 INFO mapred.MapTask: soft limit at 83886080
22/06/27 14:53:28 INFO mapred.MapTask: bufstart = 0; bufvoid = 104857600
22/06/27 14:53:28 INFO mapred.MapTask: kvstart = 26214396; length = 6553600
22/06/27 14:53:28 INFO mapred.MapTask: Map output collector class =
org.apache.hadoop.mapred.MapTask$MapOutputBuffer
22/06/27 14:53:28 INFO mapred.LocalJobRunner:
22/06/27 14:53:28 INFO mapred.MapTask: Starting flush of map output
22/06/27 14:53:28 INFO mapred.MapTask: Spilling map output
22/06/27 14:53:28 INFO mapred.MapTask: bufstart = 0; bufend = 59076; bufvoid = 104857600
22/06/27 14:53:28 INFO mapred.MapTask: kvstart = 26214396(104857584); kvend = 26188144(104752576);
length = 26253/6553600
22/06/27 14:53:28 INFO mapred.MapTask: Finished spill 0

```

22/06/27 14:53:28 INFO mapred.Task: Task:attempt_local254968295_0001_m_000000_0 is done. And is in the process of committing
22/06/27 14:53:28 INFO mapred.LocalJobRunner: map
22/06/27 14:53:28 INFO mapred.Task: Task 'attempt_local254968295_0001_m_000000_0' done.
22/06/27 14:53:28 INFO mapred.LocalJobRunner: Finishing task: attempt_local254968295_0001_m_000000_0
22/06/27 14:53:28 INFO mapred.LocalJobRunner: map task executor complete.
22/06/27 14:53:28 INFO mapred.LocalJobRunner: Waiting for reduce tasks
22/06/27 14:53:28 INFO mapred.LocalJobRunner: Starting task: attempt_local254968295_0001_r_000000_0
22/06/27 14:53:28 INFO mapred.Task: Using ResourceCalculatorProcessTree : []
22/06/27 14:53:28 INFO mapred.ReduceTask: Using ShuffleConsumerPlugin: org.apache.hadoop.mapreduce.task.reduce.Shuffle@262cb2a9
22/06/27 14:53:28 INFO reduce.MergeManagerImpl: MergeManager: memoryLimit=349752512,maxSingleShuffleLimit=87438128, mergeThreshold=230836672, ioSortFactor=10, memToMemMergeOutputsThreshold=10
22/06/27 14:53:28 INFO reduce.EventFetcher: attempt_local254968295_0001_r_000000_0 Thread started: EventFetcher for fetching Map Completion Events
22/06/27 14:53:28 INFO reduce.LocalFetcher: localfetcher#1 about to shuffle output of map attempt_local254968295_0001_m_000000_0 decomp: 72206 len: 72210 to MEMORY
22/06/27 14:53:28 INFO reduce.InMemoryMapOutput: Read 72206 bytes from map-output for attempt_local254968295_0001_m_000000_0
22/06/27 14:53:28 INFO reduce.MergeManagerImpl: closeInMemoryFile -> map-output of size: 72206, inMemoryMapOutputs.size() -> 1, commitMemory -> 0, usedMemory -> 72206
22/06/27 14:53:28 INFO reduce.EventFetcher: EventFetcher is interrupted.. Returning
22/06/27 14:53:28 INFO mapred.LocalJobRunner: 1 / 1 copied.
22/06/27 14:53:28 INFO reduce.MergeManagerImpl: finalMerge called with 1 in-memory map-outputs and 0 on-disk map-outputs
22/06/27 14:53:28 INFO mapred.Merger: Merging 1 sorted segments
22/06/27 14:53:28 INFO mapred.Merger: Down to the last merge-pass, with 1 segments left of totalsize: 72199 bytes
22/06/27 14:53:28 INFO reduce.MergeManagerImpl: Merged 1 segments, 72206 bytes to disk to satisfy reduce memory limit
22/06/27 14:53:28 INFO reduce.MergeManagerImpl: Merging 1 files, 72210 bytes from disk
22/06/27 14:53:28 INFO reduce.MergeManagerImpl: Merging 0 segments, 0 bytes from memory into reduce
22/06/27 14:53:28 INFO mapred.Merger: Merging 1 sorted segments
22/06/27 14:53:28 INFO mapred.Merger: Down to the last merge-pass, with 1 segments left of totalsize: 72199 bytes
22/06/27 14:53:28 INFO mapred.LocalJobRunner: 1 / 1 copied.
22/06/27 14:53:28 INFO Configuration.deprecation: mapred.skip.on is deprecated. Instead, use mapreduce.job.skiprecords
22/06/27 14:53:28 INFO mapred.Task: Task:attempt_local254968295_0001_r_000000_0 is done. And is in the process of committing
22/06/27 14:53:28 INFO mapred.LocalJobRunner: 1 / 1 copied.
22/06/27 14:53:28 INFO mapred.Task: Task attempt_local254968295_0001_r_000000_0 is allowed to commit now
22/06/27 14:53:28 INFO output.FileOutputCommitter: Saved output of task 'attempt_local254968295_0001_r_000000_0' to hdfs://localhost:54310/kusum_temperature/output/_temporary/0/task_local254968295_0001_r_000000
22/06/27 14:53:28 INFO mapred.LocalJobRunner: reduce > reduce
22/06/27 14:53:28 INFO mapred.Task: Task 'attempt_local254968295_0001_r_000000_0' done.
22/06/27 14:53:28 INFO mapred.LocalJobRunner: Finishing task: attempt_local254968295_0001_r_000000_0
22/06/27 14:53:28 INFO mapred.LocalJobRunner: reduce task executor complete.
22/06/27 14:53:29 INFO mapreduce.Job: Job job_local254968295_0001 running in uber mode : false
22/06/27 14:53:29 INFO mapreduce.Job: map 100% reduce 100%
22/06/27 14:53:29 INFO mapreduce.Job: Job job_local254968295_0001 completed successfully
22/06/27 14:53:29 INFO mapreduce.Job: Counters: 38
File System Counters
FILE: Number of bytes read=153102

FILE: Number of bytes written=723014
FILE: Number of read operations=0 FILE:
Number of large read operations=0 FILE:
Number of write operations=0 HDFS:
Number of bytes read=1776380 HDFS:
Number of bytes written=8
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=6565
Map output
records=6564 Map output
bytes=59076
Map output materialized bytes=72210
Input split bytes=112
Combine input records=0
Combine output records=0
Reduce input groups=1
Reduce shuffle
bytes=72210 Reduce input
records=6564 Reduce output
records=1 Spilled
Records=13128 Shuffled
Maps =1
Failed Shuffles=0 Merged
Map outputs=1 GC time
elapsed (ms)=55 CPU
time spent (ms)=0
Physical memory (bytes) snapshot=0
Virtual memory (bytes) snapshot=0
Total committed heap usage (bytes)=999292928
Shuffle Errors
BAD_ID=0
CONNECTION
=0
IO_ERROR=0
WRONG_LEN
GTH=0
WRONG_MAP
=0
WRONG_RED
UCE=0
File Input Format Counters
Bytes Read=888190
File Output Format Counters
Bytes Written=8

```
hduser@bmsce-Precision-T1700:~/Desktop/temperature$ hdfs dfs -ls /kusum_temperature/output/Found
2 items
-rw-r--r--      1 hduser supergroup      0 2022-06-27 14:53 /kusum_temperature/output/_SUCCESS
-rw-r--r--      1 hduser supergroup      8 2022-06-27 14:53 /kusum_temperature/output/part-r-00000
```

```
hduser@bmsce-Precision-T1700:~/Desktop/temperature$ hdfs dfs -cat /kusum_temperature/output/part-r-00000
1901      46
```

```
hduser@bmsce-Precision-T1700:~/Desktop/temperature$
```