




```
cloudera-quickstart-vm-542-0-virtualbox [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places System
Mon Feb 21, 7:30 PM cloudera
cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hadoop jar /home/cloudera/MaxTemp.jar MaxTemp /temp/temperature /tempop1
22/02/21 19:13:02 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032
22/02/21 19:13:03 WARN mapreduce.JobSubmitter: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.
22/02/21 19:13:03 INFO input.FileInputFormat: Total input paths to process : 1
22/02/21 19:13:03 INFO mapreduce.JobSubmitter: number of splits:1
22/02/21 19:13:03 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1644548941727_0002
22/02/21 19:13:04 INFO impl.YarnClientImpl: Submitted application application_1644548941727_0002
22/02/21 19:13:04 INFO mapreduce.Job: The url to track the job: http://quickstart.cloudera:8088/proxy/application_1644548941727_0002/
22/02/21 19:13:04 INFO mapreduce.Job: Running job: job_1644548941727_0002
22/02/21 19:13:14 INFO mapreduce.Job: Job job_1644548941727_0002 running in uber mode : false
22/02/21 19:13:14 INFO mapreduce.Job: map 0% reduce 0%
22/02/21 19:13:27 INFO mapreduce.Job: map 100% reduce 0%
22/02/21 19:13:34 INFO mapreduce.Job: map 100% reduce 100%
22/02/21 19:13:35 INFO mapreduce.Job: Job job_1644548941727_0002 completed successfully
22/02/21 19:13:35 INFO mapreduce.Job: Counters: 49
File System Counters
FILE: Number of bytes read=61
FILE: Number of bytes written=221207
FILE: Number of read operations=0
FILE: Number of large read operations=0
FILE: Number of write operations=0
HDFS: Number of bytes read=045
HDFS: Number of bytes written=17
HDFS: Number of read operations=6
HDFS: Number of large read operations=0
HDFS: Number of write operations=2
Job Counters
Launched map tasks=1
Launched reduce tasks=1
Data-local map tasks=1
Total time spent by all maps in occupied slots (ms)=10041
Total time spent by all reduces in occupied slots (ms)=4019
Total time spent by all map tasks (ms)=10041
Total time spent by all reduce tasks (ms)=4019
Total vcore-seconds taken by all map tasks=10041
Total vcore-seconds taken by all reduce tasks=4019
Total megabyte-seconds taken by all map tasks=19201904
Total megabyte-seconds taken by all reduce tasks=4934656
Map-Reduce Framework
Map input records=5
Map output records=5
Map output bytes=45
Map output materialized bytes=61
Input split bytes=115
Combine input records=0
Combine output records=0
Reduce input groups=2
Reduce shuffle bytes=61
Reduce input records=5
Reduce output records=2
Spilled Records=10
[Pract 4 MapReduce ~... cloudera@quickstart:~ java - MaxTemp/src/... temperature1 (~De...]
```

```
[cloudera@quickstart ~]$ hdfs dfs -ls /
Found 10 items
drwxr-xr-x - hbase supergroup 0 2022-02-10 20:10 /hbase
drwxr-xr-x - cloudera supergroup 0 2022-02-17 19:52 /inputnew
drwxr-xr-x - cloudera supergroup 0 2022-02-17 19:56 /outputdir
drwxr-xr-x - cloudera supergroup 0 2022-02-14 20:56 /rjc2122
drwxr-xr-x - solr solr 0 2015-06-09 03:38 /solr
drwxr-xr-x - cloudera supergroup 0 2022-02-21 19:09 /tempip
drwxr-xr-x - cloudera supergroup 0 2022-02-21 19:13 /tempop1
drwxr-xr-x - hdfs supergroup 0 2022-02-07 21:07 /tmp
drwxr-xr-x - hdfs supergroup 0 2015-06-09 03:38 /user
drwxr-xr-x - hdfs supergroup 0 2015-06-09 03:36 /var
[cloudera@quickstart ~]$ hdfs dfs -ls /tempop1
Found 2 items
-rw-r--r-- 1 cloudera supergroup 0 2022-02-21 19:13 /tempop1/_SUCCESS
-rw-r--r-- 1 cloudera supergroup 17 2022-02-21 19:13 /tempop1/part-r-00000
```

```
[cloudera@quickstart ~]$ hdfs dfs -cat /tempop1/part-r-00000
1949 111
1950 22
```

```
cloudera-quickstart-vm-542-0-virtualbox [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places System
Mon Feb 21, 7:31 PM cloudera
cloudera@quickstart:~
File Edit View Search Terminal Help
1950 22
[cloudera@quickstart ~]$ hadoop jar /home/cloudera/MaxTemp.jar MaxTemp /temp/temperature1 /tempop2
22/02/21 19:23:17 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032
22/02/21 19:23:17 WARN mapreduce.JobSubmitter: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.
22/02/21 19:23:17 INFO input.FileInputFormat: Total input paths to process : 1
22/02/21 19:23:17 INFO mapreduce.JobSubmitter: number of splits:1
22/02/21 19:23:18 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1644548941727_0003
22/02/21 19:23:18 INFO impl.YarnClientImpl: Submitted application application_1644548941727_0003
22/02/21 19:23:18 INFO mapreduce.Job: The url to track the job: http://quickstart.cloudera:8088/proxy/application_1644548941727_0003/
22/02/21 19:23:18 INFO mapreduce.Job: Running job: job_1644548941727_0003
22/02/21 19:23:26 INFO mapreduce.Job: Job job_1644548941727_0003 running in uber mode : false
22/02/21 19:23:26 INFO mapreduce.Job: map 0% reduce 0%
22/02/21 19:23:32 INFO mapreduce.Job: map 100% reduce 0%
22/02/21 19:23:40 INFO mapreduce.Job: map 100% reduce 100%
22/02/21 19:23:40 INFO mapreduce.Job: Job job_1644548941727_0003 completed successfully
22/02/21 19:23:40 INFO mapreduce.Job: Counters: 49
File System Counters
FILE: Number of bytes read=61
FILE: Number of bytes written=221209
FILE: Number of read operations=0
FILE: Number of large read operations=0
FILE: Number of write operations=0
HDFS: Number of bytes read=046
HDFS: Number of bytes written=17
HDFS: Number of read operations=6
HDFS: Number of large read operations=0
HDFS: Number of write operations=2
Job Counters
Launched map tasks=1
Launched reduce tasks=1
Data-local map tasks=1
Total time spent by all maps in occupied slots (ms)=4311
Total time spent by all reduces in occupied slots (ms)=4953
Total time spent by all map tasks (ms)=4311
Total time spent by all reduce tasks (ms)=4953
Total vcore-seconds taken by all map tasks=4311
Total vcore-seconds taken by all reduce tasks=4953
Total megabyte-seconds taken by all map tasks=4414464
Total megabyte-seconds taken by all reduce tasks=5671872
Map-Reduce Framework
Map input records=5
Map output records=5
Map output bytes=45
Map output materialized bytes=61
Input split bytes=116
Combine input records=0
Combine output records=0
Reduce input groups=2
Reduce shuffle bytes=61
Reduce input records=5
Reduce output records=2
```

Windows taskbar showing search bar, taskbar icons (Edge, File Explorer, Mail, Firefox, Chrome, VS Code, etc.), and system tray (date, time, language).

```

[cloudera@quickstart ~]$ hdfs dfs -ls /
Found 13 items
drwxr-xr-x   hbase   supergroup          0 2022-02-10 20:10 /hbase
drwxr-xr-x   - cloudera supergroup          0 2022-02-17 19:52 /inputnew
drwxr-xr-x   - cloudera supergroup          0 2022-02-17 19:56 /outputdir
drwxr-xr-x   - cloudera supergroup          0 2022-02-14 20:56 /rjc2122
drwxr-xr-x   - solr    solr                  0 2015-06-09 03:38 /solr
drwxr-xr-x   - cloudera supergroup          0 2022-02-21 19:45 /tempip
drwxr-xr-x   - cloudera supergroup          0 2022-02-21 19:13 /tempop1
drwxr-xr-x   - cloudera supergroup          0 2022-02-21 19:23 /tempop2
drwxr-xr-x   - cloudera supergroup          0 2022-02-21 19:39 /tempop3
drwxr-xr-x   - cloudera supergroup          0 2022-02-21 19:46 /tempop4
drwxrwxrwx   - hdfs    supergroup          0 2022-02-07 21:07 /tmp
drwxr-xr-x   - hdfs    supergroup          0 2015-06-09 03:38 /user
drwxr-xr-x   - hdfs    supergroup          0 2015-06-09 03:36 /var
[cloudera@quickstart ~]$ hdfs dfs -ls /tempop4
Found 2 items
-rw-r--r--   1 cloudera supergroup          0 2022-02-21 19:46 /tempop4/_SUCCESS
-rw-r--r--   1 cloudera supergroup        26 2022-02-21 19:46 /tempop4/part-r-00000

```

```

[cloudera@quickstart ~]$ hdfs dfs -cat /tempop4/part-r-00000
2020    99
2021   111
2022   122
[cloudera@quickstart ~]$ █

```