ls
mkdir
cat
put

//Commands:

// to check if hadoop is running
jps

->
hadoop@pict-OptiPlex-3020:~$ jps
18882 NodeManager
19876 Jps
18726 ResourceManager
18486 SecondaryNameNode
18071 NameNode
18265 DataNode

// stopping all the nodes:
stop-all.sh
->
WARNING: Stopping all Apache Hadoop daemons as hadoop in 10 seconds.
WARNING: Use CTRL-C to abort.
Stopping namenodes on [localhost]
Stopping datanodes
Stopping secondary namenodes [pict-OptiPlex-3020]
Stopping nodemanagers
Stopping resourcemanager

jps

-> 20662 Jps

start-dfs.sh
-> Starting namenodes on [localhost]
Starting datanodes
Starting secondary namenodes [pict-OptiPlex-3020]

start-yarn.sh
-> Starting resourcemanager
Starting nodemanagers

hdfs dfs -mkdir /practice

hdfs dfs -put /home/hadoop/test.txt /practice

yarn jar /home/hadoop/hadoop-3.3.5/share/hadoop/mapreduce/hadoop-mapreduce-examples-3.3.5.jar wordcount /practice/test.txt /outputpractice

->

2023-05-09 12:44:26,987 INFO client.DefaultNoHARMFailoverProxyProvider: Connecting to ResourceManager at /127.0.0.1:8032
2023-05-09 12:44:27,306 INFO mapreduce.JobResourceUploader: Disabling Erasure Coding for path: /tmp/hadoop-yarn/staging/hadoop/.staging/job_1683616252585_0001
2023-05-09 12:44:27,531 INFO input.FileInputFormat: Total input files to process : 1
2023-05-09 12:44:27,664 INFO mapreduce.JobSubmitter: number of splits:1
2023-05-09 12:44:27,822 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1683616252585_0001
2023-05-09 12:44:27,822 INFO mapreduce.JobSubmitter: Executing with tokens: []
2023-05-09 12:44:27,942 INFO conf.Configuration: resource-types.xml not found
2023-05-09 12:44:27,943 INFO resource.ResourceUtils: Unable to find 'resource-types.xml'.
2023-05-09 12:44:28,133 INFO impl.YarnClientImpl: Submitted application application_1683616252585_0001
2023-05-09 12:44:28,183 INFO mapreduce.Job: The url to track the job: http://pict-OptiPlex-3020:8088/proxy/application_1683616252585_0001/
2023-05-09 12:44:28,184 INFO mapreduce.Job: Running job: job_1683616252585_0001
2023-05-09 12:44:34,266 INFO mapreduce.Job: Job job_1683616252585_0001 running in uber mode : false
2023-05-09 12:44:34,268 INFO mapreduce.Job: map 0% reduce 0%
2023-05-09 12:44:38,313 INFO mapreduce.Job: map 100% reduce 0%
2023-05-09 12:44:43,350 INFO mapreduce.Job: map 100% reduce 100%
2023-05-09 12:44:44,368 INFO mapreduce.Job: Job job_1683616252585_0001 completed successfully
2023-05-09 12:44:44,440 INFO mapreduce.Job: Counters: 54
        File System Counters
                FILE: Number of bytes read=281
                FILE: Number of bytes written=552433
                FILE: Number of read operations=0
                FILE: Number of large read operations=0
                FILE: Number of write operations=0
                HDFS: Number of bytes read=257
                HDFS: Number of bytes written=183
                HDFS: Number of read operations=8
                HDFS: Number of large read operations=0
                HDFS: Number of write operations=2
                HDFS: Number of bytes read erasure-coded=0
        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)=1911
                Total time spent by all reduces in occupied slots (ms)=2116
                Total time spent by all map tasks (ms)=1911
                Total time spent by all reduce tasks (ms)=2116
                Total vcore-milliseconds taken by all map tasks=1911

Total vcore-milliseconds taken by all reduce tasks=2116
                Total megabyte-milliseconds taken by all map tasks=1956864
                Total megabyte-milliseconds taken by all reduce tasks=2166784
        Map-Reduce Framework
                Map input records=2
                Map output records=26
                Map output bytes=257
                Map output materialized bytes=281
                Input split bytes=104
                Combine input records=26
                Combine output records=23
                Reduce input groups=23
                Reduce shuffle bytes=281
                Reduce input records=23
                Reduce output records=23
                Spilled Records=46
                Shuffled Maps =1
                Failed Shuffles=0
                Merged Map outputs=1
                GC time elapsed (ms)=35
                CPU time spent (ms)=970
                Physical memory (bytes) snapshot=488665088
                Virtual memory (bytes) snapshot=5454766080
                Total committed heap usage (bytes)=427819008
                Peak Map Physical memory (bytes)=268034048
                Peak Map Virtual memory (bytes)=2722947072
                Peak Reduce Physical memory (bytes)=220631040
                Peak Reduce Virtual memory (bytes)=2731819008
        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=153
        File Output Format Counters
                Bytes Written=183

hdfs dfs -cat /outputpractice/part-r-00000

-> Deploying 1
Hadoop   2
a   2
acquainted   1
and   1
basic   1
commands   1
concepts   1
get   1

```
great    1
hadoop2
hello    1
hi       1
is       1
node     1
on       1
pict     1
services         1
single   1
to       1
way      1
with     1
yourself         1
```