## **Cluster Setting**

컴퓨터공학과

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# 1. upload the arbitrary file to HDFS snap.stanford.edu/data

(wget https://snap.stanford.edu/data/soc-LiveJournal1.txt.gz)

- (1) wget <a href="https://snap.stanford.edu/data/soc-LiveJournal1.txt.gz">https://snap.stanford.edu/data/soc-LiveJournal1.txt.gz</a>
- (2) gunzip soc-LiveJournal1.txt.gz
  - -> soc-LiveJournal1.txt 로 바뀜

```
hadoop@master:~/hadoop-2.7.6 $ ls
LICENSE.txt README.txt etc lib logs share tmp
NOTICE.txt bin include libexec sbin soc-LiveJournal1.txt
hadoop@master:~/hadoop-2.7.6 $ ./bin/hadoop fs -put soc-LiveJournal1.txt input.txt
```

soc-LiveJournal1.txt 를 input.txt 란 이름으로 put.

# 2. hadoop jar share/hadoop/mapreduce/hadoop-mapreduce-examples-2.6.5.jar wordcount input output

(1) ./bin/hadoop jar share/Hadoop/mapreduce/hadoop-mapreduce-example-2.7.6 jar wordcount input.txt output-soc

#### Capture 1

```
Capture1

| Capture2 | Capture3 | Capture3 | Capture4 | Capture4 | Capture5 |
977/proxy/application_1621566532759_0002/
21/05/21 16:49:15 INFO mapreduce.Job: Job job_16215665327/
mode: false
21/05/21 16:49:15 INFO mapreduce.Job: Job job_16215665327/
mode: false
21/05/21 16:49:15 INFO mapreduce.Job: map 0% reduce 0%
21/05/21 16:49:14 INFO mapreduce.Job: map 4% reduce 0%
21/05/21 16:49:41 INFO mapreduce.Job: map 4% reduce 0%
21/05/21 16:49:42 INFO mapreduce.Job: map 9% reduce 0%
21/05/21 16:49:44 INFO mapreduce.Job: map 10% reduce 0%
21/05/21 16:49:44 INFO mapreduce.Job: map 10% reduce 0%
21/05/21 16:49:44 INFO mapreduce.Job: map 10% reduce 0%
21/05/21 16:50:03 INFO mapreduce.Job: map 10% reduce 0%
21/05/21 16:50:04 INFO mapreduce.Job: map 10% reduce 0%
21/05/21 16:50:05 INFO mapreduce.Job: map 10% reduce 0%
21/05/21 16:50:22 INFO mapreduce.Job: map 20% reduce 0%
21/05/21 16:50:22 INFO mapreduce.Job: map 32% reduce 0%
21/05/21 16:50:23 INFO mapreduce.Job: map 32% reduce 0%
21/05/21 16:50:23 INFO mapreduce.Job: map 32% reduce 0%
21/05/21 16:50:24 INFO mapreduce.Job: map 32% reduce 0%
21/05/21 16:50:25 INFO mapreduce.Job: map 33% reduce 0%
21/05/21 16:50:50 INFO mapreduce.Job: map 37% reduce 0%
21/05/21 16:50:50 INFO mapreduce.Job: map 37% reduce 0%
21/05/21 16:50:50 INFO mapreduce.Job: map 37% reduce 0%
21/05/21 16:50:10 INFO mapreduce.Job: map 44% reduce 0%
21/05/21 16:50:10 INFO mapreduce.Job: map 44% reduce 0%
21/05/21 16:50:10 INFO mapreduce.Job: map 44% reduce 0%
21/05/21 16:50:10 INFO mapreduce.Job: map 45% reduce 0%
21/05/21 16:50:10 INFO mapreduce.Job: map 45% reduce 0%
21/05/21 16:50:10 INFO mapreduce.Job: map 55% reduce 0%
21/05/21 16:50:10 INFO mapreduce.Job: map 55% reduce 0%
21/05/21 16:50:10 INFO mapreduce.Job: map 55% reduce 0%
21/05/21 16:50:10 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ssfully 21/05/21 16:53:03 INFO mapreduce.Job: Counters: 51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 16:53:03 INFO mapreduce.lob: Counters: 51
File System Counters
FILE: Number of bytes read=629010501
FILE: Number of bytes written=857382962
FILE: Number of read operations=0
FILE: Number of large read operations=0
FILE: Number of write operations=0
HDFS: Number of bytes read=1080627554
HDFS: Number of bytes written=49941834
HDFS: Number of bytes written=49941834
HDFS: Number of large read operations=27
HDFS: Number of large read operations=0
HDFS: Number of write operations=2
Job Counters
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Job Counters
Killed map tasks=3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Launched map tasks=11
Launched reduce tasks=1
Data-local map tasks=9
Rack-local map tasks=2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rack-local map tasks=2
Total time spent by all maps in occupied slots (ms)=1580332
Total time spent by all reduces in occupied slots (ms)=80082
Total time spent by all map tasks (ms)=1580332
Total time spent by all reduce tasks (ms)=80082
Total vore-milliseconds taken by all map tasks=1580332
Total vore-milliseconds taken by all reduce tasks=80082
Total mapsibyte-milliseconds taken by all reduce tasks=80082
Total mapsibyte-milliseconds taken by all reduce tasks=800368
Map-Reduce Framework
```

Capture2

#### Capture3

```
Map-Reduce Framework

Map input records=68993777

Map output yes=1653554552

Map output bytes=1653554552

Map output bytes=1653554552

Map output bytes=840

Combine input records=167664175

Combine output records=46329993

Reduce input groups=4847593

Reduce input groups=4847593

Reduce input records=165613790

Reduce output records=16513790

Reduce input fectors=168970

CPU time spent (ms)=338480

Physical memory (bytes) snapshot=1947459584

Virtual memor
```

## (2) Application 정보



#### (3) dfshealth

