W205 summer 2017 section 2 – Lab02 - K Iwasaki

1. **List the HDFS contents of** /user

```
[w205@ip-172-31-39-45 ~]$ hdfs dfs -ls /user
Found 8 items
drwxr-xr-x   - mapred   supergroup          0 2017-05-27 17:38 /user/history
drwxrwxrwx   - hive     supergroup          0 2017-05-27 17:39 /user/hive
drwxrwxrwx   - hue      supergroup          0 2017-05-27 17:39 /user/hue
drwxrwxrwx   - jenkins  supergroup          0 2017-05-27 17:39 /user/jenkins
drwxrwxrwx   - oozie    supergroup          0 2017-05-27 17:39 /user/oozie
drwxrwxrwx   - root     supergroup          0 2017-05-27 17:39 /user/root
drwxr-xr-x   - hdfs     supergroup          0 2017-05-27 17:40 /user/spark
drwxr-xr-x   - w205     supergroup          0 2017-05-27 17:40 /user/w205
```

2. *Inspect the output of the HDFS admin report and answer the following questions in a text file.*

-To generate this, exit from the w205 user and type: `sudo -u hdfs hdfs dfsadmin -report`
Q1: How many live datanodes are there? Answer: 1

Q2: How much non-DFS storage is used? Answer 5.05 GB

Q3: How much DFS storage is used? Answer 137.38 MB

```
[root@ip-172-31-39-45 ~]# sudo -u hdfs hdfs dfsadmin -report
Configured Capacity: 10568916992 (9.84 GB)
Present Capacity: 5147594752 (4.79 GB)
DFS Remaining: 5003538432 (4.66 GB)
DFS Used: 144056320 (137.38 MB)
DFS Used%: 2.80%
Under replicated blocks: 0
Blocks with corrupt replicas: 0
Missing blocks: 0
Missing blocks (with replication factor 1): 0

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Live datanodes (1):

Name: 127.0.0.1:50010 (localhost)
Hostname: ip-172-31-39-45.ec2.internal
Decommission Status : Normal
Configured Capacity: 10568916992 (9.84 GB)
DFS Used: 144056320 (137.38 MB)
Non DFS Used: 5421322240 (5.05 GB)
DFS Remaining: 5003538432 (4.66 GB)
DFS Used%: 1.36%
DFS Remaining%: 47.34%
Configured Cache Capacity: 0 (0 B)
Cache Used: 0 (0 B)
Cache Remaining: 0 (0 B)
Cache Used%: 100.00%
Cache Remaining%: 0.00%
Xceivers: 2
Last contact: Sat May 27 18:01:24 UTC 2017
```