## BIG DATA ANALYTICS PREV Q &A

- 1. consider the wordcourt mapreduce application we covered in class. Let:
  - . The main class be WoodCourt
  - . The jas file be woodcount.jas
  - . The input be stored in a directory called we in under the uses home desectary in HOFS.
    - . The output directory be we-out, to be created under the uses home directory in HOFS.
      - D what is the YARN command to submit and own the job in Hadoop? Ans: yarn jar woodcount.jor Word Count we-in we-out
      - 2) what is the HDFS command to show the whole output in the terminal? Ans: hdfs dfs -cat wc-out/\*
- 2. The HOFS command to display the content of the ovot directory in HOFS is hdfs dfs -ls / space after -ls
- 3. HDFS is an efficient distributed filesystem for neading and writing large amount of data in parallel. False TRUE
- The Quorum Journal Manager (QJM) a dedicated HDFS implementation used in HDFS HA to provide a highly available shared edit log. It is the recommended choice for most HOFS installations.
- The mapseduce application will use zero reducers if you skip setting the reduces class in the Drives. False
- Setting the mapping and Reduces classes for mappeduce applications in the driver code is optional True
- The command to start YARN in the VM is start-yarn. ch The command will start the resource manager and node manager daemons,

- 8. When we submit an application to YARN. The application will use the first allocated contained to launch and oun its Application Master process
- 9. In the java code of the Drives of mapreduce applications, cre invoke the method job. waitfor Completion () on the job object to submit the gob and axit for the job to finish. The name of the other method that can submit the job without blocking the Doires is job submit() the uses here directly in PICES

10.

- 11. In HOFS HA, graceful failoves is a failoves that is initiated manually by the administrator usually for ooutine maintenance True False
- In Hadoop, the idea of ourning the computation where the data resides is called Data Locality

Fig. that shows 3 case a, c, 0, 2, 4

- 14. To use HOFS services are have to start the Name Node and the Data Node daemons on the master and worker machines respectively.
- 15. Among YARN available scheduless, The FIFO schedules is the one recommended for shared clusters False
- 16. Data locality in mappeduce applies only to the mappers natter than the mappeers and reducers True True
- 17. Hadoop distop is much more efficient than HDFS op command for copying data to and from Hadoop filesystems in parallel. True
- 18. The only programming language that can be used in MapReduce applications is Java, False

- 19. In mapseduce I (before YARN) are used containers to manage and allocate resources among jobs False True
- 20. Hadoop is meant for Batch processing rather than real time processing. True
- 21. In contrast to mapseduce 1, YARN Resource manages will keep track of the available resources and the owning jobs, while each application will track its own progress. True
- 22 memory becomes a limiting factor for scaling if we keep using a single namenode. HOFS <u>Federation</u> allows the cluster ho scale by adding namenodes, each of which manages a portion of the filesystem namespace.
  - 23 Before YARN was added to Hadoop, we had to start the Job Tracker and the Task Tracker daemons to allow jobs to own in the cluster.
- 25. In HOFS high availability (HA), in the event of failure of the actue name node the secondary name node takes over its duties. Fall
- 27. One of the common Hadoop processing workloads is ETL.

  ETL stands for Extract Transform & Load

  .
- 28. The HDFs command to upload stocks.csv file, stored locally in the aurent working directory, to the user home directory in HDFs is hats dfs put stocks.csv stocks.csv

hdfs dfs -put stocks.csv ~/

- 29. The default scheduling policy within each queue is fair under the fair schedules, while it is FIFO under the capacity schedules. True
- 30.
- 31. The 3 v's of bigdata are volume, variety and velocity
- 32. HBase is a Nosal diskibuted database, part of Hadoop Storage layer, that owns on top of HDFS. It was inspired by Groogle Big Table.
- 33. Although the default seplication facts in HDFS is 3

  You should charge it to 1. If you our Hadoop

  in the pseudo distributed mode (the operation mode used

  in our VM).
- 34. The mappers and medicess work their output to HDFS

  False
- 35. In HOFS HA, a method known as fencing is necessary to prevent the previously active namenade from doing any damage or corruption to shared edet log.