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QUESTION 1

Which one of the following statements describes the relationship between the NodeManager and the ApplicationMaster?

- A. The ApplicationMaster starts the NodeManager in a Container
- B. The NodeManager requests resources from the ApplicationMaster
- C. The ApplicationMaster starts the NodeManager outside of a Container
- D. The NodeManager creates an instance of the ApplicationMaster

Correct Answer: D

QUESTION 2

In a MapReduce job, the reducer receives all values associated with same key. Which statement best describes the ordering of these values?

- A. The values are in sorted order.
- B. The values are arbitrarily ordered, and the ordering may vary from run to run of the same MapReduce job.
- C. The values are arbitrary ordered, but multiple runs of the same MapReduce job will always have the same ordering.
- D. Since the values come from mapper outputs, the reducers will receive contiguous sections of sorted values.

Correct Answer: B

Note:

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Input to the Reducer is the sorted output of the mappers.

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The framework calls the application's Reduce function once for each unique key in the sorted order.

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Example:

For the given sample input the first map emits:

The second map emits:

QUESTION 3

You have just executed a MapReduce job. Where is intermediate data written to after being emitted from the Mapper's map method?

- A. Intermediate data is streamed across the network from Mapper to the Reducer and is never written to disk.
- B. Into in-memory buffers on the TaskTracker node running the Mapper that spill over and are written into HDFS.
- C. Into in-memory buffers that spill over to the local file system of the TaskTracker node running the Mapper.
- D. Into in-memory buffers that spill over to the local file system (outside HDFS) of the TaskTracker node running the Reducer.
- E. Into in-memory buffers on the TaskTracker node running the Reducer that spill over and are written into HDFS.

Correct Answer: C

Explanation: The mapper output (intermediate data) is stored on the Local file system (NOT HDFS) of each individual mapper nodes. This is typically a temporary directory location which can be setup in config by the hadoop administrator. The intermediate data is cleaned up after the Hadoop Job completes.

Reference: 24 Interview Questions and Answers for Hadoop MapReduce developers, Where is the Mapper Output (intermediate key-value data) stored ?

QUESTION 4

Determine which best describes when the reduce method is first called in a MapReduce job?

- A. Reducers start copying intermediate key-value pairs from each Mapper as soon as it has completed. The programmer can configure in the job what percentage of the intermediate data should arrive before the reduce method begins.
- B. Reducers start copying intermediate key-value pairs from each Mapper as soon as it has completed. The reduce method is called only after all intermediate data has been copied and sorted.
- C. Reduce methods and map methods all start at the beginning of a job, in order to provide optimal performance for map-only or reduce-only jobs.
- D. Reducers start copying intermediate key-value pairs from each Mapper as soon as it has completed. The reduce method is called as soon as the intermediate key-value pairs start to arrive.

Correct Answer: B

Reference: 24 Interview Questions and Answers for Hadoop MapReduce developers , When is the reducers are started in a MapReduce job?

QUESTION 5

You have user profile records in your OLPT database, that you want to join with web logs you have already ingested into the Hadoop file system. How will you obtain these user records?

- A. HDFS command
- B. Pig LOAD command
- C. Sqoop import
- D. Hive LOAD DATA command
- E. Ingest with Flume agents
- F. Ingest with Hadoop Streaming

Correct Answer: C

Reference: Hadoop and Pig for Large-Scale Web Log Analysis

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