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QUESTION 1

You want to Ingest log files Into HDFS, which tool would you use?

- A. HCatalog
- B. Flume
- C. Sqoop
- D. Ambari

Correct Answer: B

QUESTION 2

For each input key-value pair, mappers can emit:

- A. As many intermediate key-value pairs as designed. There are no restrictions on the types of those key-value pairs (i.e., they can be heterogeneous).
- B. As many intermediate key-value pairs as designed, but they cannot be of the same type as the input key-value pair.
- C. One intermediate key-value pair, of a different type.
- D. One intermediate key-value pair, but of the same type.
- E. As many intermediate key-value pairs as designed, as long as all the keys have the same types and all the values have the same type.

Correct Answer: E

Explanation: Mapper maps input key/value pairs to a set of intermediate key/value pairs.

Maps are the individual tasks that transform input records into intermediate records. The transformed intermediate records do not need to be of the same type as the input records. A given input pair may map to zero or many output pairs.

Reference: Hadoop Map-Reduce Tutorial

QUESTION 3

In a MapReduce job with 500 map tasks, how many map task attempts will there be?

- A. It depends on the number of reduces in the job.
- B. Between 500 and 1000.
- C. At most 500.
- D. At least 500.



E. Exactly 500.

Correct Answer: D

From Cloudera Training Course: Task attempt is a particular instance of an attempt to execute a task ?There will be at least as many task attempts as there are tasks ?If a task attempt fails, another will be started by the JobTracker ?Speculative execution can also result in more task attempts than completed tasks

QUESTION 4

You are developing a MapReduce job for sales reporting. The mapper will process input keys representing the year (IntWritable) and input values representing product identifies (Text).

Identify what determines the data types used by the Mapper for a given job.

- A. The key and value types specified in the JobConf.setMapInputKeyClass and JobConf.setMapInputValuesClass methods
- B. The data types specified in HADOOP_MAP_DATATYPES environment variable
- C. The mapper-specification.xml file submitted with the job determine the mapper's input key and value types.
- D. The InputFormat used by the job determines the mapper's input key and value types.

Correct Answer: D

Explanation: The input types fed to the mapper are controlled by the InputFormat used. The default input format, "TextInputFormat," will load data in as (LongWritable, Text) pairs. The long value is the byte offset of the line in the file. The Text object holds the string contents of the line of the file.

Note: The data types emitted by the reducer are identified by setOutputKeyClass() and setOutputValueClass(). The data types emitted by the reducer are identified by setOutputKeyClass() and setOutputValueClass().

By default, it is assumed that these are the output types of the mapper as well. If this is not the case, the methods setMapOutputKeyClass() and setMapOutputValueClass() methods of the JobConf class will override these.

Reference: Yahoo! Hadoop Tutorial, THE DRIVER METHOD

QUESTION 5

Which describes how a client reads a file from HDFS?

- A. The client queries the NameNode for the block location(s). The NameNode returns the block location(s) to the client. The client reads the data directory off the DataNode(s).



B. The client queries all DataNodes in parallel. The DataNode that contains the requested data responds directly to the client. The client reads the data directly off the DataNode.

C. The client contacts the NameNode for the block location(s). The NameNode then queries the DataNodes for block locations. The DataNodes respond to the NameNode, and the NameNode redirects the client to the DataNode that holds the requested data block(s). The client then reads the data directly off the DataNode.

D. The client contacts the NameNode for the block location(s). The NameNode contacts the DataNode that holds the requested data block. Data is transferred from the DataNode to the NameNode, and then from the NameNode to the client.

Correct Answer: A

Reference: 24 Interview Questions and Answers for Hadoop MapReduce developers, How the Client communicates with HDFS?

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