



Vendor: Cloudera

Exam Code: CCD-410

Exam Name: Cloudera Certified Developer for Apache Hadoop (CCDH) Exam

Version: DEMO

QUESTION 1

MapReduce v2 (MRv2/YARN) is designed to address which two issues?

- A. Single point of failure in the NameNode.
- B. Resource pressure on the JobTracker.
- C. HDFS latency.
- D. Ability to run frameworks other than MapReduce, such as MPI.
- E. Reduce complexity of the MapReduce APIs.
- F. Standardize on a single MapReduce API.

Answer: BD

QUESTION 2

You need to run the same job many times with minor variations. Rather than hardcoding all job configuration options in your drive code, you've decided to have your Driver subclass `org.apache.hadoop.conf.Configured` and implement the `org.apache.hadoop.util.Tool` interface. Identify which invocation correctly passes `mapred.job.name` with a value of Example to Hadoop?

- A. `hadoop "mapred.job.name=Example" MyDriver` input output
- B. `hadoop MyDriver mapred.job.name=Example` input output
- C. `hadoop MyDrive -D mapred.job.name=Example` input output
- D. `hadoop setproperty mapred.job.name=Example MyDriver` input output
- E. `hadoop setproperty ("mapred.job.name=Example") MyDriver` input output

Answer: C

QUESTION 3

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

Answer: D

QUESTION 4

Identify the MapReduce v2 (MRv2 / YARN) daemon responsible for launching application containers and monitoring application resource usage?

- A. `ResourceManager`
- B. `NodeManager`
- C. `ApplicationMaster`
- D. `ApplicationMasterService`
- E. `TaskTracker`

F. JobTracker

Answer: C

QUESTION 5

Which best describes how TextInputFormat processes input files and line breaks?

- A. Input file splits may cross line breaks. A line that crosses file splits is read by the RecordReader of the split that contains the beginning of the broken line.
- B. Input file splits may cross line breaks. A line that crosses file splits is read by the RecordReaders of both splits containing the broken line.
- C. The input file is split exactly at the line breaks, so each RecordReader will read a series of complete lines.
- D. Input file splits may cross line breaks. A line that crosses file splits is ignored.
- E. Input file splits may cross line breaks. A line that crosses file splits is read by the RecordReader of the split that contains the end of the broken line.

Answer: E

QUESTION 6

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.

Answer: E

QUESTION 7

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.

Answer: B

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