

HADOOP-PR000007^{Q&As}

Hortonworks Certified Apache Hadoop 2.0 Developer (Pig and Hive Developer)

Pass Hortonworks HADOOP-PR000007 Exam with 100% Guarantee

Free Download Real Questions & Answers **PDF** and **VCE** file from:

https://www.pass4itsure.com/hadoop-pr000007.html

100% Passing Guarantee 100% Money Back Assurance

Following Questions and Answers are all new published by Hortonworks Official Exam Center

- Instant Download After Purchase
- 100% Money Back Guarantee
- 365 Days Free Update
- 800,000+ Satisfied Customers





https://www.pass4itsure.com/hadoop-pr000007.html

2024 Latest pass4itsure HADOOP-PR000007 PDF and VCE dumps Download

QUESTION 1

Your client application submits a MapReduce job to your Hadoop cluster. Identify the Hadoop daemon on which the Hadoop framework will look for an available slot schedule a MapReduce operation.

- A. TaskTracker
- B. NameNode
- C. DataNode
- D. JobTracker
- E. Secondary NameNode

Correct Answer: D

Explanation: JobTracker is the daemon service for submitting and tracking MapReduce jobs in Hadoop. There is only One Job Tracker process run on any hadoop cluster. Job Tracker runs on its own JVM process. In a typical production cluster its run on a separate machine. Each slave node is configured with job tracker node location. The JobTracker is single point of failure for the Hadoop MapReduce service. If it goes down, all running jobs are halted. JobTracker in Hadoop performs following actions(from Hadoop Wiki:)

Client applications submit jobs to the Job tracker. The JobTracker talks to the NameNode to determine the location of the data The JobTracker locates TaskTracker nodes with available slots at or near the data The JobTracker submits the work to the chosen TaskTracker nodes. The TaskTracker nodes are monitored. If they do not submit heartbeat signals often enough, they are deemed to have failed and the work is scheduled on a different TaskTracker. A TaskTracker will notify the JobTracker when a task fails. The JobTracker decides what to do then: it may resubmit the job elsewhere, it may mark that specific record as something to avoid, and it may may even blacklist the TaskTracker as unreliable. When the work is completed, the JobTracker updates its status.

Client applications can poll the JobTracker for information.

Reference: 24 Interview Questions and Answers for Hadoop MapReduce developers, What is a JobTracker in Hadoop? How many instances of JobTracker run on a Hadoop Cluster?

QUESTION 2

A client application creates an HDFS file named foo.txt with a replication factor of 3. Identify which best describes the file access rules in HDFS if the file has a single block that is stored on data nodes A, B and C?

- A. The file will be marked as corrupted if data node B fails during the creation of the file.
- B. Each data node locks the local file to prohibit concurrent readers and writers of the file.
- C. Each data node stores a copy of the file in the local file system with the same name as the HDFS file.
- D. The file can be accessed if at least one of the data nodes storing the file is available.

Correct Answer: D

Explanation: HDFS keeps three copies of a block on three different datanodes to protect against true data corruption. HDFS also tries to distribute these three replicas on more than one rack to protect against data availability issues. The

VCE & PDF Pass4itSure.com

https://www.pass4itsure.com/hadoop-pr000007.html

2024 Latest pass4itsure HADOOP-PR000007 PDF and VCE dumps Download

fact that HDFS actively monitors any failed datanode(s) and upon failure detection immediately schedules re-replication of blocks (if needed) implies that three copies of data on three different nodes is sufficient to avoid corrupted files. Note: HDFS is designed to reliably store very large files across machines in a large cluster. It stores each file as a sequence of blocks; all blocks in a file except the last block are the same size. The blocks of a file are replicated for fault tolerance. The block size and replication factor are configurable per file. An application can specify the number of replicas of a file. The replication factor can be specified at file creation time and can be changed later. Files in HDFS are write-once and have strictly one writer at any time. The NameNode makes all decisions regarding replication of blocks. HDFS uses rack-aware replica placement policy. In default configuration there are total 3 copies of a datablock on HDFS, 2 copies are stored on datanodes on same rack and 3rd copy on a different rack. Reference: 24 Interview Questions and Answers for Hadoop MapReduce developers, How the HDFS Blocks are replicated?

QUESTION 3

You want to count the number of occurrences for each unique word in the supplied input data. You\\'ve decided to implement this by having your mapper tokenize each word and emit a literal value 1, and then have your reducer increment a counter for each literal 1 it receives. After successful implementing this, it occurs to you that you could optimize this by specifying a combiner. Will you be able to reuse your existing Reduces as your combiner in this case and why or why not?

A. Yes, because the sum operation is both associative and commutative and the input and output types to the reduce method match.

- B. No, because the sum operation in the reducer is incompatible with the operation of a Combiner.
- C. No, because the Reducer and Combiner are separate interfaces.
- D. No, because the Combiner is incompatible with a mapper which doesn\\'t use the same data type for both the key and value.
- E. Yes, because Java is a polymorphic object-oriented language and thus reducer code can be reused as a combiner.

Correct Answer: A

Explanation: Combiners are used to increase the efficiency of a MapReduce program. They are used to aggregate intermediate map output locally on individual mapper outputs. Combiners can help you reduce the amount of data that needs to be transferred across to the reducers. You can use your reducer code as a combiner if the operation performed is commutative and associative. The execution of combiner is not guaranteed, Hadoop may or may not execute a combiner. Also, if required it may execute it more then 1 times. Therefore your MapReduce jobs should not depend on the combiners execution.

Reference: 24 Interview Questions and Answers for Hadoop MapReduce developers, What are combiners? When should I use a combiner in my MapReduce Job?

QUESTION 4

Identify the tool best suited to import a portion of a relational database every day as files into HDFS, and generate Java classes to interact with that imported data?

- A. Oozie
- B. Flume
- C. Pig



https://www.pass4itsure.com/hadoop-pr000007.html

2024 Latest pass4itsure HADOOP-PR000007 PDF and VCE dumps Download

D. Hue

E. Hive

F. Sqoop

G. fuse-dfs

Correct Answer: F

Sqoop ("SQL-to-Hadoop") is a straightforward command-line tool with the following capabilities:

Imports individual tables or entire databases to files in HDFS Generates Java classes to allow you to interact with your imported data Provides the ability to import from SQL databases straight into your Hive data warehouse

Note:

Data Movement Between Hadoop and Relational Databases Data can be moved between Hadoop and a relational database as a bulk data transfer, or relational tables can be accessed from within a MapReduce map function.

Note:

* Cloudera\\'s Distribution for Hadoop provides a bulk data transfer tool (i.e., Sqoop) that imports individual tables or entire databases into HDFS files. The tool also generates Java classes that support interaction with the imported data. Sqoop supports all relational databases over JDBC, and Quest Software provides a connector (i.e., OraOop) that has been optimized for access to data residing in Oracle databases.

Reference: http://log.medcl.net/item/2011/08/hadoop-and-mapreduce-big-data-analytics- gartner/ (Data Movement between hadoop and relational databases, second paragraph)

QUESTION 5

Which Two of the following statements are true about hdfs? Choose 2 answers

- A. An HDFS file that is larger than dfs.block.size is split into blocks
- B. Blocks are replicated to multiple datanodes
- C. HDFS works best when storing a large number of relatively small files
- D. Block sizes for all files must be the same size

Correct Answer: AB

HADOOP-PR000007 PDF Dumps HADOOP-PR000007
Practice Test

HADOOP-PR000007 Exam Questions