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**QUESTION 1**

During the execution of a MapReduce v2 (MRv2) job on YARN, where does the Mapper place the intermediate data each Map task?

- A. The Mapper stores the intermediate data on the node running the job's ApplicationMaster so that is available to YARN's ShuffleService before the data is presented to the Reducer
- B. The Mapper stores the intermediate data in HDFS on the node where the MAP tasks ran in the HDFS / usercache/and[user]sppcache/application_and(appid) directory for the user who ran the job
- C. YARN holds the intermediate data in the NodeManager's memory (a container) until it is transferred to the Reducers
- D. The Mapper stores the intermediate data on the underlying filesystem of the local disk in the directories yarn.nodemanager.local-dirs
- E. The Mapper transfers the intermediate data immediately to the Reducers as it generated by the Map task

Correct Answer: D

QUESTION 2

In CDH4 and later, which file contains a serialized form of all the directory and files inodes in the filesystem, giving the NameNode a persistent checkpoint of the filesystem metadata?

- A. fstime
- B. VERSION
- C. Fsimage_N (Where N reflects all transactions up to transaction ID N)
- D. Edits_N-M (Where N-M specifies transactions between transactions ID N and transaction ID N)

Correct Answer: C

QUESTION 3

Which Yarn daemon or service monitors a Container's per-application resource usage (e.g, memory, CPU)?

- A. NodeManager
- B. ApplicationMaster
- C. ApplicationManagerService
- D. ResourceManager

Correct Answer: A

**QUESTION 4**

You are running a Hadoop cluster with MapReduce version 2 (MRv2) on YARN. You consistently see that MapReduce map tasks on your cluster are running slowly because of excessive garbage collection of JVM, how do you increase JVM heap property to 3GB to optimize performance?

- A. Yarn.application.child.java.opts-Xax3072m
- B. Yarn.application.child.java.opts=-3072m
- C. Mapreduce.map.java.opts=-Xmx3072m
- D. Mapreduce.map.java.opts=-Xms3072m

Correct Answer: C

QUESTION 5

You have a 20 node Hadoop cluster, with 18 slave nodes and 2 master nodes running HDFS High Availability (HA). You want to minimize the chance of data loss in you cluster. What should you do?

- A. Add another master node to increase the number of nodes running the JournalNode which increases the number of machines available to HA to create a quorum
- B. Configure the cluster's disk drives with an appropriate fault tolerant RAID level
- C. Run the ResourceManager on a different master from the NameNode in the order to load share HDFS metadata processing
- D. Run a Secondary NameNode on a different master from the NameNode in order to load provide automatic recovery from a NameNode failure
- E. Set an HDFS replication factor that provides data redundancy, protecting against failure

Correct Answer: C

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