



# CCA-505<sup>Q&As</sup>

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### QUESTION 1

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

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### QUESTION 2

Identify two features/issues that YARN is designed to address:

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

Correct Answer: DE

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### 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

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### QUESTION 4



You are the hadoop fs put command to add a file "sales.txt" to HDFS. This file is small enough that it fits into a single block, which is replicated to three nodes in your cluster (with a replication factor of 3). One of the nodes holding this file (a single block) fails. How will the cluster handle the replication of this file in this situation/

- A. The cluster will re-replicate the file the next time the system administrator reboots the NameNode daemon (as long as the file's replication doesn't fall two)
- B. This file will be immediately re-replicated and all other HDFS operations on the cluster will halt until the cluster's replication values are restored
- C. The file will remain under-replicated until the administrator brings that nodes back online
- D. The file will be re-replicated automatically after the NameNode determines it is under replicated based on the block reports it receives from the DataNodes

Correct Answer: B

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### QUESTION 5

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]spcache/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

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