



# CCA-500<sup>Q&As</sup>

Cloudera Certified Administrator for Apache Hadoop (CCA-H)

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**QUESTION 1**

Your cluster's `mapred-start.xml` includes the following parameters

```
mapreduce.map.memory.mb 4096 mapreduce.reduce.memory.mb 8192
```

And any cluster's `yarn-site.xml` includes the following parameters

```
yarn.nodemanager.vmem-pmem-ratio 2.1
```

What is the maximum amount of virtual memory allocated for each map task before YARN will kill its Container?

- A. 4 GB
- B. 17.2 GB
- C. 8.9 GB
- D. 8.2 GB
- E. 24.6 GB

Correct Answer: D

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**QUESTION 2**

You are running a Hadoop cluster with a NameNode on host `mynamenode`. What are two ways to determine available HDFS space in your cluster?

- A. Run `hdfs fs du /` and locate the DFS Remaining value
- B. Run `hdfs dfsadmin report` and locate the DFS Remaining value
- C. Run `hdfs dfs /` and subtract NDFS Used from configured Capacity
- D. Connect to `http://mynamenode:50070/dfshealth.jsp` and locate the DFS remaining value

Correct Answer: B

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**QUESTION 3**

For each YARN job, the Hadoop framework generates task log file. Where are Hadoop task log files stored?

- A. Cached by the NodeManager managing the job containers, then written to a log directory on the NameNode
- B. Cached in the YARN container running the task, then copied into HDFS on job completion
- C. In HDFS, in the directory of the user who generates the job
- D. On the local disk of the slave node running the task



Correct Answer: D

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#### QUESTION 4

You have a cluster running with a FIFO scheduler enabled. You submit a large job A to the cluster, which you expect to run for one hour. Then, you submit job B to the cluster, which you expect to run a couple of minutes only.

You submit both jobs with the same priority.

Which two best describes how FIFO Scheduler arbitrates the cluster resources for job and its tasks?

(Choose two)

- A. Because there is a more than a single job on the cluster, the FIFO Scheduler will enforce a limit on the percentage of resources allocated to a particular job at any given time
- B. Tasks are scheduled on the order of their job submission
- C. The order of execution of job may vary
- D. Given job A and submitted in that order, all tasks from job A are guaranteed to finish before all tasks from job B
- E. The FIFO Scheduler will give, on average, and equal share of the cluster resources over the job lifecycle
- F. The FIFO Scheduler will pass an exception back to the client when Job B is submitted, since all slots on the cluster are use

Correct Answer: AD

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#### QUESTION 5

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 size property to 3GB to optimize performance?

- A. `yarn.application.child.java.opts=-Xsx3072m`
- B. `yarn.application.child.java.opts=-Xmx3072m`
- C. `mapreduce.map.java.opts=-Xms3072m`
- D. `mapreduce.map.java.opts=-Xmx3072m`

Correct Answer: C



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