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**QUESTION 1**

You are planning a Hadoop cluster and considering implementing 10 Gigabit Ethernet as the network fabric. Which workloads benefit the most from faster network fabric?

- A. When your workload generates a large amount of output data, significantly larger than the amount of intermediate data
- B. When your workload consumes a large amount of input data, relative to the entire capacity of HDFS
- C. When your workload consists of processor-intensive tasks
- D. When your workload generates a large amount of intermediate data, on the order of the input data itself

Correct Answer: A

QUESTION 2

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

QUESTION 3

On a cluster running MapReduce v2 (MRv2) on YARN, a MapReduce job is given a directory of 10 plain text files as its input directory. Each file is made up of 3 HDFS blocks. How many Mappers will run?

- A. We cannot say; the number of Mappers is determined by the ResourceManager
- B. We cannot say; the number of Mappers is determined by the developer
- C. 30
- D. 3
- E. 10
- F. We cannot say; the number of mappers is determined by the ApplicationMaster

Correct Answer: E

**QUESTION 4**

You're upgrading a Hadoop cluster from HDFS and MapReduce version 1 (MRv1) to one running HDFS and MapReduce version 2 (MRv2) on YARN. You want to set and enforce version 1 (MRv1) to one running HDFS and MapReduce version 2 (MRv2) on YARN. You want to set and enforce a block size of 128MB for all new files written to the cluster after upgrade. What should you do?

- A. You cannot enforce this, since client code can always override this value
- B. Set `dfs.block.size` to 128M on all the worker nodes, on all client machines, and on the NameNode, and set the parameter to final
- C. Set `dfs.block.size` to 128 M on all the worker nodes and client machines, and set the parameter to final. You do not need to set this value on the NameNode
- D. Set `dfs.block.size` to 134217728 on all the worker nodes, on all client machines, and on the NameNode, and set the parameter to final
- E. Set `dfs.block.size` to 134217728 on all the worker nodes and client machines, and set the parameter to final. You do not need to set this value on the NameNode

Correct Answer: C

QUESTION 5

You are migrating a cluster from MapReduce version 1 (MRv1) to MapReduce version 2 (MRv2) on YARN. You want to maintain your MRv1 TaskTracker slot capacities when you migrate. What should you do?

- A. Configure `yarn.applicationmaster.resource.memory-mb` and `yarn.applicationmaster.resource.cpu-vcores` so that ApplicationMaster container allocations match the capacity you require.
- B. You don't need to configure or balance these properties in YARN as YARN dynamically balances resource management capabilities on your cluster
- C. Configure `mapred.tasktracker.map.tasks.maximum` and `mapred.tasktracker.reduce.tasks.maximum` in `yarn-site.xml` to match your cluster's capacity set by the `yarn-scheduler.minimum-allocation`
- D. Configure `yarn.nodemanager.resource.memory-mb` and `yarn.nodemanager.resource.cpu-vcores` to match the capacity you require under YARN for each NodeManager

Correct Answer: D

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