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**QUESTION 1**

Your cluster implements HDFS High Availability (HA). Your two NameNodes are named nn01 and nn02. What occurs when you execute the command: `hdfs haadmin failover nn01 nn02`?

- A. nn02 is fenced, and nn01 becomes the active NameNode
- B. nn01 is fenced, and nn02 becomes the active NameNode
- C. nn01 becomes the standby NameNode and nn02 becomes the active NameNode
- D. nn02 becomes the standby NameNode and nn01 becomes the active NameNode

Correct Answer: B

QUESTION 2

Your cluster is running MapReduce version 2 (MRv2) on YARN. Your ResourceManager is configured to use the FairScheduler. Now you want to configure your scheduler such that a new user on the cluster can submit jobs into their own queue application submission. Which configuration should you set?

- A. You can specify new queue name when user submits a job and new queue can be created dynamically if the property `yarn.scheduler.fair.allow-undecleared-pools = true`
- B. `Yarn.scheduler.fair.user.fair-as-default-queue = false` and `yarn.scheduler.fair.allow-undecleared-pools = true`
- C. You can specify new queue name when user submits a job and new queue can be created dynamically if `yarn.scheduler.fair.user-as-default-queue = false`
- D. You can specify new queue name per application in `allocations.xml` file and have new jobs automatically assigned to the application queue

Correct Answer: A

QUESTION 3

You have recently converted your Hadoop cluster from a MapReduce 1 (MRv1) architecture to MapReduce 2 (MRv2) on YARN architecture. Your developers are accustomed to specifying map and reduce tasks (resource allocation) tasks when they run jobs: A developer wants to know how specify to reduce tasks when a specific job runs. Which method should you tell that developers to implement?

- A. MapReduce version 2 (MRv2) on YARN abstracts resource allocation away from the idea of "tasks" into memory and virtual cores, thus eliminating the need for a developer to specify the number of reduce tasks, and indeed preventing the developer from specifying the number of reduce tasks.
- B. In YARN, resource allocations is a function of megabytes of memory in multiples of 1024mb. Thus, they should specify the amount of memory resource they need by executing `D mapreducereduces.memory-mb-2048`
- C. In YARN, the ApplicationMaster is responsible for requesting the resource required for a specific launch. Thus, executing `D yarn.applicationmaster.reduce.tasks=2` will specify that the ApplicationMaster launch two task contains on the worker nodes.



D. Developers specify reduce tasks in the exact same way for both MapReduce version 1 (MRv1) and MapReduce version 2 (MRv2) on YARN. Thus, executing `D mapreduce.job.reduces-2` will specify reduce tasks.

E. In YARN, resource allocation is function of virtual cores specified by the ApplicationManager making requests to the NodeManager where a reduce task is handled by a single container (and thus a single virtual core). Thus, the developer needs to specify the number of virtual cores to the NodeManager by executing `p yarn.nodemanager.cpu-vcores=2`

Correct Answer: D

QUESTION 4

What does CDH packaging do on install to facilitate Kerberos security setup?

- A. Automatically configures permissions for log files at `and MAPRED_LOG_DIR/userlogs`
- B. Creates users for hdfs and mapreduce to facilitate role assignment
- C. Creates directories for temp, hdfs, and mapreduce with the correct permissions
- D. Creates a set of pre-configured Kerberos keytab files and their permissions
- E. Creates and configures your kdc with default cluster values

Correct Answer: B

QUESTION 5

Which process instantiates user code, and executes map and reduce tasks on a cluster running MapReduce v2 (MRv2) on YARN?

- A. NodeManager
- B. ApplicationMaster
- C. TaskTracker
- D. JobTracker
- E. NameNode
- F. DataNode
- G. ResourceManager

Correct Answer: A



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