



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

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

Correct Answer: D

### QUESTION 2

You have a cluster running with the Fair Scheduler enabled. There are currently no jobs running on the cluster, and you submit a job A, so that only job A is running on the cluster. A while later, you submit Job B. now job A and Job B are running on the cluster at the same time. How will the Fair Scheduler handle these two jobs?

- A. When job A gets submitted, it consumes all the tasks slots.
- B. When job A gets submitted, it doesn't consume all the task slots
- C. When job B gets submitted, Job A has to finish first, before job B can be scheduled
- D. When job B gets submitted, it will get assigned tasks, while Job A continues to run with fewer tasks.

Correct Answer: C

### QUESTION 3

Given:

```
[user1@host1 ~] $ yarn application -list
Total Applications: 3
```

Application-Id	Application-Name	Application-Type	User	Queue	State	Final State	Progress	Tracking-URL
Application_1374638600275_0109	Sleep job	MAPREDUCE	user1	default	KILLED	KILLED	100%	host1:54059
Application_1374638600275_0121	sleep job	MAPREDUCE	user1	default	SUCCEEDED	SUCCEEDED	100%	host1:19888/jobhistory/job/job_1374638600275_0121
Application_1374638600275_0020	sleep job	MAPREDUCE	user1	default	SUCCEEDED	SUCCEEDED	100%	host1:19888/jobhistory/job/job_1374638600275_0020

You want to clean up this list by removing jobs where the state is KILLED. What command do you enter?

- A. `Yarn application kill application_1374638600275_0109`
- B. `Yarn radmin refreshQueue`
- C. `Yarn application refreshJobHistory`
- D. `Yarn radmin kill application_1374638600275_0109`



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Correct Answer: A

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#### QUESTION 4

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 `yarn.scheduler.fair.user-as-default-queue = false`
- B. `Yarn.scheduler.fair.user-as-default-queue = false` and `yarn.scheduler.fair.allow-undeclared-people = true`
- C. You can specify new queue name per application in `allocation.fair.allow-undeclared-people = true` automatically assigned to the application queue
- D. 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-undeclared-pools = true`

Correct Answer: A

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#### QUESTION 5

You observe that the number of spilled records from Map tasks far exceeds the number of map output records. Your child heap size is 1GB and your `io.sort.mb` value is set to 100 MB. How would you tune your `io.sort.mb` value to achieve maximum memory to disk I/O ratio?

- A. Decrease the `io.sort.mb` value to 0
- B. Increase the `io.sort.mb` to 1GB
- C. For 1GB child heap size an `io.sort.mb` of 128 MB will always maximize memory to disk I/O
- D. Tune the `io.sort.mb` value until you observe that the number of spilled records equals (or is as close to equals) the number of map output records

Correct Answer: D

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