



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

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### QUESTION 1

You decide to create a cluster which runs HDFS in High Availability mode with automatic failover, using Quorum-based Storage. What is the purpose of ZooKeeper in such a configuration?

- A. It manages the Edits file, which is a log changes to the HDFS filesystem.
- B. It monitors an NFS mount point and reports if the mount point disappears
- C. It both keeps track of which NameNode is Active at any given time, and manages the Edits file, which is a log of changes to the HDFS filesystem
- D. It only keeps track of which NameNode is Active at any given time
- E. Clients connect to ZoneKeeper to determine which NameNode is Active

Correct Answer: D

### QUESTION 2

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

### 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 you enter?

- A. Yarn application kill application\_1374638600275\_0109



- B. Yarn radmin refreshQueue
- C. Yarn application refreshJobHistory
- D. Yarn radmin kill application\_1374638600275\_0109

Correct Answer: A

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#### QUESTION 4

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 5

Which YARN daemon or service negotiates map and reduce Containers from the Scheduler, tracking their status and monitoring for progress?

- A. ResourceManager
- B. ApplicationMaster
- C. NodeManager
- D. ApplicationManager

Correct Answer: B

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