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QUESTION 1

Which two features does Kerberos security add to a Hadoop cluster? (Choose two)

- A. User authentication on all remote procedure calls (RPCs)
- B. Encryption for data during transfer between the Mappers and Reducers
- C. Encryption for data on disk ("at rest")
- D. Authentication for user access to the cluster against a central server
- E. Root access to the cluster for users hdfs and mapred but non-root access for clients

Correct Answer: AD

QUESTION 2

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 handed 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 3

Cluster Summary:

45 files and directories, 12 blocks = 57 total. Heap size is 15.31 MB/193.38MB(7%)

Configured capacity	:	17.33GB
DFS Used	:	144KB
Non DFS Used	:	5.49GB
DFS Remaining	:	11.84GB
DFS Used %	:	0%
DFS Remaining %	:	68.32GB
Live Nodes	:	6
Dead Nodes	:	1
Decommissioning Nodes	:	0
Number of Under-Replicated Blocks	:	6

Refer to the above screenshot.

You configure a Hadoop cluster with seven DataNodes and one of your monitoring UIs displays the details shown in the exhibit.

What does this tell you?

- A. The DataNode JVM on one host is not active
- B. Because your under-replicated blocks count matches the Live Nodes, one node is dead, and your DFS Used % equals 0%, you can't be certain that your cluster has all the data you've written it.
- C. Your cluster has lost all HDFS data which had blocks stored on the dead DataNode
- D. The HDFS cluster is in safe mode

Correct Answer: A

QUESTION 4

Assume you have a file named foo.txt in your local directory. You issue the following three commands:

```
Hadoop fs mkdir input
```

```
Hadoop fs put foo.txt input/foo.txt
```

```
Hadoop fs put foo.txt input
```

What happens when you issue the third command?

- A. The write succeeds, overwriting foo.txt in HDFS with no warning
- B. The file is uploaded and stored as a plain file named input
- C. You get a warning that foo.txt is being overwritten
- D. You get an error message telling you that foo.txt already exists, and asking you if you would like to overwrite it.

- E. You get a error message telling you that foo.txt already exists. The file is not written to HDFS
- F. You get an error message telling you that input is not a directory
- G. The write silently fails

Correct Answer: CE

QUESTION 5

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

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