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QUESTION 1

For each YARN job, the Hadoop framework generates task log file. Where are Hadoop task log files stored?

- A. Cached by the NodeManager managing the job containers, then written to a log directory on the NameNode
- B. Cached in the YARN container running the task, then copied into HDFS on job completion
- C. In HDFS, in the directory of the user who generates the job
- D. On the local disk of the slave node running the task

Correct Answer: D

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 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 3

Your Hadoop cluster is configuring with HDFS and MapReduce version 2 (MRv2) on YARN. Can you configure a worker node to run a NodeManager daemon but not a DataNode daemon and still have a functional cluster?

- A. Yes. The daemon will receive data from the NameNode to run Map tasks
- B. Yes. The daemon will get data from another (non-local) DataNode to run Map tasks



- C. Yes. The daemon will receive Map tasks only
- D. Yes. The daemon will receive Reducer tasks only

Correct Answer: B

QUESTION 4

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 5

Which command does Hadoop offer to discover missing or corrupt HDFS data?

- A. `Hdfs fs du`
- B. `Hdfs fsck`
- C. `Dskchk`
- D. The map-only checksum
- E. Hadoop does not provide any tools to discover missing or corrupt data; there is not need because three replicas are kept for each data block

Correct Answer: B

QUESTION 6

Your cluster's `mapred-start.xml` includes the following parameters

```
mapreduce.map.memory.mb 4096 mapreduce.reduce.memory.mb 8192
```

And any cluster's `yarn-site.xml` includes the following parameters

```
yarn.nodemanager.vmen-pmen-ration 2.1
```

What is the maximum amount of virtual memory allocated for each map task before YARN will kill its Container?

- A. 4 GB



B. 17.2 GB

C. 8.9 GB

D. 8.2 GB

E. 24.6 GB

Correct Answer: D

QUESTION 7

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

QUESTION 8

In CDH4 and later, which file contains a serialized form of all the directory and files inodes in the filesystem, giving the NameNode a persistent checkpoint of the filesystem metadata?

A. fstime

B. VERSION

C. Fsimage_N (where N reflects transactions up to transaction ID N)

D. Edits_N-M (where N-M transactions between transaction ID N and transaction ID N)

Correct Answer: C

QUESTION 9

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



- A. It only keeps track of which NameNode is Active at any given time
- 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 manages the Edits file, which is log of changes to the HDFS filesystem
- E. Clients connect to ZooKeeper to determine which NameNode is Active

Correct Answer: A

QUESTION 10

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

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