

APACHE-HADOOP-DEVELOPER^{Q&As}

Hadoop 2.0 Certification exam for Pig and Hive Developer

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QUESTION 1

MapReduce v2 (MRv2/YARN) splits which major functions of the JobTracker into separate daemons? Select two.

- A. Health status checks (heartbeats)
- B. Resource management
- C. Job scheduling/monitoring
- D. Job coordination between the ResourceManager and NodeManager
- E. Launching tasks
- F. Managing file system metadata
- G. MapReduce metric reporting
- H. Managing tasks

Correct Answer: BC

Explanation: The fundamental idea of MRv2 is to split up the two major functionalities of the JobTracker, resource management and job scheduling/monitoring, into separate daemons. The idea is to have a global ResourceManager (RM) and per-application ApplicationMaster (AM). An application is either a single job in the classical sense of Map-Reduce jobs or a DAG of jobs.

Note:

The central goal of YARN is to clearly separate two things that are unfortunately smushed together in current Hadoop, specifically in (mainly) JobTracker:

/ Monitoring the status of the cluster with respect to which nodes have which resources available. Under YARN, this will be global.

/ Managing the parallelization execution of any specific job. Under YARN, this will be done separately for each job.

Reference: Apache Hadoop YARN ?Conceptsand; Applications

QUESTION 2

Which HDFS command copies an HDFS file named foo to the local filesystem as localFoo?

- A. `hadoop fs -get foo LocalFoo`
- B. `hadoop -cp foo LocalFoo`
- C. `hadoop fs -ls foo`

D. `hadoop fs -put foo LocalFoo`

Correct Answer: A

QUESTION 3

Given the following Pig commands: Which one of the following statements is true?

```
logevents = LOAD 'input/my.log';
severe = FILTER logevents BY ($1 == 'severe' AND $2 >= 500);
grouped = GROUP severe BY $2;
DUMP grouped;
```

- A. The \$1 variable represents the first column of data in `'my.log'`
- B. The \$1 variable represents the second column of data in `'my.log'`
- C. The severe relation is not valid
- D. The grouped relation is not valid

Correct Answer: B

QUESTION 4

Given the following Pig command:

```
logevents = LOAD andapos;input/my.logandapos; AS (date:chararray, levehstring, code:int, message:string);
```

Which one of the following statements is true?

- A. The logevents relation represents the data from the my.log file, using a comma as the parsing delimiter
- B. The logevents relation represents the data from the my.log file, using a tab as the parsing delimiter
- C. The first field of logevents must be a properly-formatted date string or table return an error
- D. The statement is not a valid Pig command

Correct Answer: B

QUESTION 5

Which one of the following statements regarding the components of YARN is FALSE?

- A. A Container executes a specific task as assigned by the ApplicationMaster
- B. The ResourceManager is responsible for scheduling and allocating resources

C. A client application submits a YARN job to the ResourceManager

D. The ResourceManager monitors and restarts any failed Containers

Correct Answer: D

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