*Big Data and Hadoop Development*



Session 3: HDFS Internals



Assignment 2

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*Assignment 2 – Try the given quiz questions and provide the*

*answers in a word document.*

**Problem Statement:**

1. **Which is not the property of hdfs-site.xml file?** 
   1. Block size
   2. Replication factor
   3. Secondary NameNode port address
   4. Application server

Ans. d Application Server

1. **What are the properties that we can edit in hdfs-site.xml file?** 
   1. Block size
   2. Replication factor
   3. Block reporting interval
   4. All the above

Ans. d. All the Above

1. **Underlying storage layers where MapReduce programs are written:** 
   1. Abstracted
   2. Open to all
   3. Locked
   4. None of these

Ans. a. Abstracted

**4. Which is not a valid method in FSDATA Output Stream?**

* 1. close( )
  2. open( )
  3. getpos( )
  4. sync( )

Ans. b. open()

1. **How many blocks of size 128MB will be allocated for a file of size 524288KB:** 
   1. 2
   2. 3
   3. 4
   4. 5

Ans. c. 4

1. **MapReduce Job client calculates the input split by:** 
   1. Figuring the first and last whole records in the block
   2. Figuring only the first block
   3. Figuring only the last block
   4. None of these

Ans. d. None of these

1. **Mappers are directly related to:**

a. Input data

* 1. Input splits
  2. Output data
  3. Output splits

**Ans. b. Input Splits**

1. **After data is written in an HDFS file, HDFS does not provide any guarantee that data are visible to a new reader until the file is \_\_\_\_\_\_** 
   1. closed
   2. opened
   3. writing
   4. reading

Ans. **a.Closed**



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1. **What mechanism does Hadoop use to make namenode resilient to failure?** 
   1. Take backup of filesystem metadata to a local disk and a remote NFS mount
   2. Store the filesystem metadata in cloud
   3. Use a machine with at least 12 CPUs
   4. Using expensive and reliable hardware

Ans. a. Take backup of filesystem metadata to a local disk and a remote NFS mount

1. **All the files in a directory in HDFS can be merged together using:** 
   1. getmerge
   2. putmerge
   3. remerge
   4. mergeall

Ans. a. getmerge

**A C A D G I L D Page 5**

