



HDFS Architecture

6 questions

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1.

HDFS is strictly POSIX compliant.

- ☐ True
- ☒ False

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2.

Following issues may be caused by lot of small files in HDFS

- ☒ NameNode memory usage increases significantly
- ☐ Network load decreases
- ☒ Number of map tasks need to process the same amount of data will be larger.
- ☐ I/O rate will be faster

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3.

You are writing a 10GB file to a HDFS filesystem with a default block size of 128MB. How many blocks will the file be broken into?

- ☐ 1280
 - ☐ 160
 - ☒ 80
 - ☐ 480
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4.

You are writing a 10GB file into HDFS with a replication of 2 and block size of 64MB. How much total disk space will this file use?

- ☒ 20GB
 - ☐ 128GB
 - ☐ 10GB
 - ☐ 30GB
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5.

What is the first step in a write process from a HDFS client?

- ☐ Immediately contact the NameNode
 - ☒ Start locally caching the data that needs to be written and then contact NameNode
 - ☐ Contact the nearest DataNode
 - ☐ Contact all the DataNodes involved in replication
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6.

HDFS NameNode is not rack aware when it places the replica blocks.

☐ True

☒ False

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