# HDFS performance, tuning, and robustness

## 1.

Name the configuration file which holds HDFS tuning parameters

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mapred-site.xml

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core-site.xml

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hdfs-site.xml

# 2.

Name the parameter that controls the replication factor in HDFS

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dfs.block.replication

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dfs.replication.count

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dfs.replication

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replication.xml

### 3.

Check answers that apply when replication is lowered

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HDFS is less robust

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Less likely that data will be local to more workers

Aggregate I/O rate will be worse

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HDFS will have more space available

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Check answers that apply when NameNode fails to receive heartbeat from a DataNode

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DataNode is marked dead

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NameNode will attempt to restart DataNode

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No new I/O is sent to particular DataNode that missed heartbeat check

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Blocks below replication factor are re-replicated on other DataNodes

#### 5.

How is data corruption mitigated in HDFS

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Data from all replicas is compared for correctness

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checksums are computed on file creation and stored on clients

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checksums are computed on file creation and stored in HDFS namespace for verification when data is retrieved.