# HDFS Task-1

**Answer**

1. What is the Namenode's URI and which file is it configured in?

Answer: In the Namenode URI field, enter the URI pointing to the machine used as the NameNode service of the Cloudera Hadoop cluster to be used. The NameNode is the master node of a Hadoop system. ... On the cluster side, the related property is specified in the configuration file called core-site. xml.

1. Where on a local file system will Namenode store its image and which file is it configured in?

The entire file system namespace, including the mapping of blocks to files and file system properties, is stored in a file called the FsImage. The FsImage is stored as a file in the NameNode's local file system too. The NameNode keeps an image of the entire file system namespace and file Blockmap in memory.

1. Where on a local file system will Datanode store its blocks and which file is it configured in?

NameNode and DataNodes; The File System Namespace; Data Replication ... The block size and replication factor are configurable per file. ... the replication factor is three, HDFS's placement policy is to put one replica on one node in the local rack, ... It stores each block of HDFS data in a separate file in its local file system.

1. What is the block replication and which file is it configured in?

Block-level replication copies individual storage blocks, whereas file-level replication copies entire files rather than the blocks that make up those files. ... Replicating the files from a network share to the user's laptop ensures the user has the necessary data before going offline. You can find setrep command in the Hadoop file system. This command is used to change the replication factor of a file to a specific count instead of the default replication factor for the remaining in the HDFS file system.

# Perform .. unable to solve no laptop

1. Start HDFS and verify that it's running
2. Create a new directory /exercise1 on HDFS
3. Upload GitHub repo sample\_data/deckofcards.txt to HDFS under /exercise1 directory
4. View the content of the /exercise1 directory
5. Determine the size of the hamlet.txt file in KB that resides on HDFS (not local directory)
6. Print the first 25 lines to the screen from deckofcards.txt on HDFS
7. Copy deckofcards.txt to deckofcardsCopy.txt
8. Copy deckofcards.txt back to local file system and name it deckofcards.copy.txt
9. Check the entire filesystem for inconsistencies/problems
10. Delete deckofcards.txt from HDFS
11. Delete the /exercise1 directory from HDFS
12. Take a second to look at other available shell options.