**HDFS Task-1**

**Answer**

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

Name node URI is default wed UI which is 9000,50070 or 8020 .

hdfs://localhost:9000.

It is configured in core-site.xml.

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

Namenode uses file in its local host to store the EditLog.Fslmage is stored as s file in the namenode local file system. It is configured in hdfs-site.xml

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

Datanode stores the actual data in HDFS and it is confifured with disk space.It is configured in hdfs-site.xml

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

The blocks of file are replicated for fault tolerance. Default replication factor is 3 and block size is 128 MB.The replication factor is property set in the HDFS configuration file.Replication factor is configured in hdfs-site.xml

**Perform**

1. Start HDFS and verify that it's running

To start:

Start namenode -format

Start-dfs.sh

To verify:

https://localhost:9870

1. Create a new directory /exercise1 on HDFS

hadoop fs -mkdir/user/exercise1

1. Upload GitHub repo sample\_data/deckofcards.txt to HDFS under /exercise1 directory

hadoop fs -put/home/deckofcards.text/user/exercise1/

1. View the content of the /exercise1 directory

hadoop fs -ls/user/exercise1

1. Determine the size of the hamlet.txt file in KB that resides on HDFS (not local directory)

hadoop fs -du[-s][-h] /user/exercise1/hamlet.txt

1. Print the first 25 lines to the screen from deckofcards.txt on HDFS

hadoop dfs -cat /user/exercise1/deckofcards.txt/head-25

1. Copy deckofcards.txt to deckofcardsCopy.txt

Hadoop fs -mv /user/exercise1/deckofcards.txt/user/exercise1/deckofcardsCopy.txt

1. Copy deckofcards.txt back to local file system and name it deckofcards.copy.txt

hadoop fs -cp /user/exercise1/deckofcards.txt/user/exercise1/deckofcardsCopy.txt

9. Check the entire filesystem for inconsistencies/problems

Fsck command to check file inconsistencies

hdfs fsck/

10. Delete deckofcards.txt from HDFS

hadoop fs -rm/user/exercise1/deckofcards.txt

1. Delete the /exercise1 directory from HDFS

Hadoop fs -rm -r/user/exercise1

12. Take a second to look at other available shell options.