

## Check Hadoop Installation using CMD

After Hadoop is installed and configured, you can verify its installation by following these steps:

Open CMD or Terminal.

`hadoop version`

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## Start Hadoop using CMD

To run Hadoop from CMD, you need to start the Hadoop services (NameNode, DataNode, ResourceManager, etc.). Here's how to do it:

### a. Start HDFS (NameNode and DataNode)

Open CMD and navigate to the Hadoop installation directory, where the Hadoop binaries (bin folder) are located.

Run the following command to start HDFS (Hadoop Distributed File System):

`start-dfs.cmd`

To verify that the Hadoop daemons are running, you can use the `jps` command (Java Process Status tool):

`jps`

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**Check Hadoop version:** To verify that Hadoop is installed correctly and check the version, run the following command in CMD:

**Basic HDFS Commands:**

Start HDFS: `start-dfs.sh`

List files in HDFS directory: `hdfs dfs -ls /path/to/directory`

Upload file to HDFS: `hdfs dfs -put localfile.txt /hdfs/directory/`

Download file from HDFS: `hdfs dfs -get /hdfs/directory/file.txt /local/path/`

Create a directory in HDFS: `hdfs dfs -mkdir /new_hdfs_directory/`

Delete a file from HDFS: `hdfs dfs -rm /hdfs/directory/file.txt`