Setting up a Hadoop cluster

In all the nodes do the following steps;

Master Setup:

```
let the ip is 192.168.43.200
```

```
➤ mkdir /master
vim hdfs-site.xml
         <configuration>
         cproperty>
         <name>dfs.name.dir</name>
         <value>/master</value>
         </property>
         </configuration>
         :wa
cd /etc/hadoop
vi core-site.xml
         <configuration>
         cproperty>
         <name>fs.default.name</name>
         <value>hdfs://192.168.43.200:9001
         </property>
         </configuration>
```

Go to the web browser and open the link http://192.168.43.200:50070

Slave Setup:

```
▶ mkdir /data
cd /etc/hadoop
vi hdfs-site.xml
         <configuration>
         cproperty>
         <name>dfs.data.dir</name>
         <value>/data</value>
         </property>
         </configuration>
         :wq
cd /etc/hadoop/
vi core-site.xml
         <configuration>
         cproperty>
         <name>fs.default.name</name>
         <value>hdfs://192.168.43.200:9001</value>
         </configuration>
         :wq
hadoop-daemon.sh start datanode
▶ jps
> systemctl stop firewalld
systemctl disable firewalld
```

In case of any error just remove the file /data and make it again and then start the service.

Client Setup:

```
cd /etc/hadoop
vi core-site.xml
         <configuration>
          cproperty>
          <name>fs.default.name</name>
          <value>hdfs://192.168.43.200:9001
          </property>
          </configuration>
          :wq
▶ hadoop fs -ls /
▶ hadoop fs -mkdir /dir
hadoop fs -touchz /my.txt
> vim filename.txt
          adding data to this file to be uploaded on the cluster
hadoop fs -put filename.txt /
▶ hadoop fs -cat /filename.txt
```