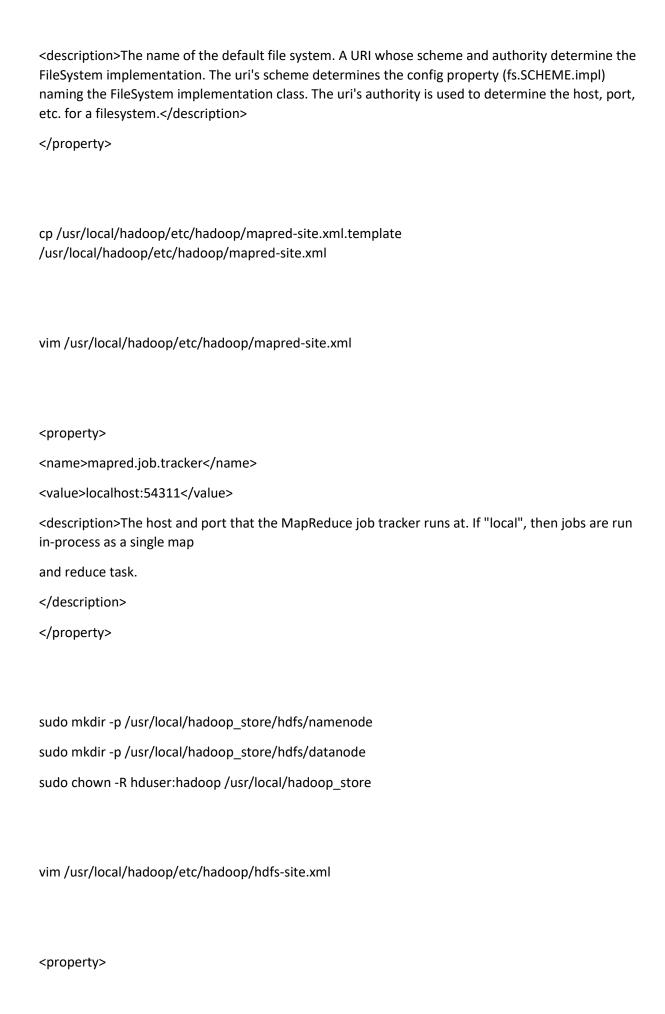
```
HADOOP -----
Sudo su
Sudo apt-get update
Sudo apt-get install openjdk-8-jdk
Sudo java -version
Sudo update-alternatives -config java
Sudo addgroup Hadoop
Sudo adduser –ingroup Hadoop hduser
Sudo adduser hduser sudo
Sudo apt-get install ssh
Which ssh
Which sshd
Sudo su hduser
cd
Ssh-keygen -t rsa -P ""
Cat $HOME/.ssh/id_rsa/pub >> $HOME/.ssh/authorized_keys
Ssh localhost
Sudo mkdir -p /usr/local/Hadoop
Wget <a href="https://archive.apache.org/dist/hadoop/common/hadoop-2.6.5/hadoop2.6.5.tar.gz">https://archive.apache.org/dist/hadoop/common/hadoop-2.6.5/hadoop2.6.5.tar.gz</a>
tar xvzf Hadoop-2.6.5.tar.gz
cd hadop-2.6.5
sudo mv */usr/local/hadop
sudo chown -R hduser:hadoop /usr/local/hadoop
vim ~/.bashrc
#HADOOP VARIABLES START
export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64
export HADOOP_INSTALL=/usr/local/hadoop
export PATH=$PATH:$HADOOP_INSTALL/bin
```

export PATH=\$PATH:\$HADOOP_INSTALL/sbin

```
export HADOOP_MAPRED_HOME=$HADOOP_INSTALL
export HADOOP_COMMON_HOME=$HADOOP_INSTALL
export HADOOP_HDFS_HOME=$HADOOP_INSTALL
export YARN_HOME=$HADOOP_INSTALL
export HADOOP_COMMON_LIB_NATIVE_DIR=$HADOOP_INSTALL/lib/native
export HADOOP_OPTS="-Djava.library.path=$HADOOP_INSTALL/lib" export
HADOOP_HOME_WARN_SUPPRESS=1
export HADOOP_ROOT_LOGGER="WARN,DRFA"
#HADOOP VARIABLES END
Source ~/.bashrc
Vim /usr/local/Hadoop/hadoop-env.sh
Export JAVA_HOME = /usr/lib/jvm/java-8-openjdk-amd64
sudo mkdir -p /app/hadoop/tmp
sudo chown hduser:hadoop /app/hadoop/tmp
vim /usr/local/hadoop/etc/hadoop/core-site.xml
cproperty>
      <name>hadoop.tmp.dir</name>
      <value>/app/hadoop/tmp</value>
      <description>A base for other temporary directories.</description>
</property>
cproperty>
<name>fs.default.name</name>
<value>hdfs://localhost:54310</value>
```



```
<name>dfs.replication</name>
<value>1</value>
<description>Default block replication.
The actual number of replications can be specified when the file is created. The default is used if
replication is not specified in create time. </description>
</property>
cproperty>
<name>dfs.namenode.name.dir</name>
<value>file:/usr/local/hadoop_store/hdfs/namenode</value> </property>
cproperty>
<name>dfs.datanode.data.dir</name> <value>file:/usr/local/hadoop_store/hdfs/datanode</value>
</property>
hadoop namenode –format
hdfs namenode -format
start-all.sh
jps
if not working
stop-all.sh
sudo rm -rf /app/hadoop/tmp
sudo mkdir -p /app/hadoop/tmp
sudo chown hduser:hadoop /app/hadoop/tmp
sudo chown 750 /app/hadoop/tmp
start-all.sh
```

hdfs dfs -mkdir -p input_dir
cd vim test.txt
hdfs dfs -put /home/hduser/test.txt input_dir hdfs dfs -ls input_dir hadoop jar /usr/local/hadoop/share/hadoop/mapreduce/hadoop-mapreduce-examples-2.6.5.jar wordcount input_dir output
hdfs dfs -ls output hdfs dfs cat output/part-r-00000

```
DOCKER
sudo apt-get update
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu
$(lsb_release -cs) stable"
sudo apt-get update
apt-cache policy docker-ce
sudo apt-get install -y docker-ce
sudo service docker start
sudo docker run hello-world
   i)
           ----running an existing image (Grafana)
docker run -d -p 3000:3000 grafana/grafana-enterprise
sudo docker images
   ii)
           -----creating a image
Mkdir DockerFiles
Cd DockerFiles
Touch Dockerfile
Vim Dockerfile
FROM ubuntu
```

Docker build -t Nishanth:1.1.

MAINTAINER Nishanth VM Nishanth.codes@gmail.com

CMD ["echo", "hiiiiii everyone out there"]

Docker images

RUN apt-get update

<<<get id of our image

Docker run <id of image>

Output: CMD

Hosting website	
In ssh ::::::	
Sudo apt-get update	
Sudo su	
Sudo apt install apache2	
cd	
cd var/www/html	
rm index.html	
touch index.html	
vim index.html	
<>< write html,css, js code here >>>>	
Sudo service apache2 start	
In browser:::::	
http://publicip/filename.html	

Migration (AMI)

Create AMI using right click

Go to AMI

Click add permission

Add user accout ID (our ID)

SAVE

Go to create instance

Go to my amis / shared with me

Create

Reference

Scp command

Scp -i "keyname" filename publicdns