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Prerequisite Test
_____
sudo apt update
sudo apt install openjdk-8-jdk -y
java -version; javac -version
sudo apt install openssh-server openssh-client -y
sudo adduser hdoop
sudo adduser hdoop sudo
su - hdoop
ssh-keygen -t rsa -P " -f ~/.ssh/id_rsa
cat ~/.ssh/id_rsa.pub >> ~/.ssh/authorized_keys
chmod 0600 ~/.ssh/authorized_keys
ssh localhost
Downloading Hadoop (Please note link is updated to new version of hadoop here on 6th May 2022)
_____
wget https://downloads.apache.org/hadoop/common/hadoop-3.2.3/hadoop-3.2.3.tar.gz
tar xzf hadoop-3.2.3.tar.gz
Editng 6 important files
1st file
sudo nano .bashrc
#Add below lines in this file
#Hadoop Related Options
export HADOOP_HOME=/home/hdoop/hadoop-3.2.3
```

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export HADOOP_INSTALL=$HADOOP_HOME
export HADOOP_MAPRED_HOME=$HADOOP_HOME
export HADOOP_COMMON_HOME=$HADOOP_HOME
export HADOOP_HDFS_HOME=$HADOOP_HOME
export YARN_HOME=$HADOOP_HOME
export HADOOP_COMMON_LIB_NATIVE_DIR=$HADOOP_HOME/lib/native
export PATH=$PATH:$HADOOP_HOME/sbin:$HADOOP_HOME/bin
export HADOOP_OPTS"-Djava.library.path=$HADOOP_HOME/lib/nativ"
source ~/.bashrc
2nd File
sudo nano $HADOOP_HOME/etc/hadoop/hadoop-env.sh
#Add below line in this file in the end
export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64
3rd File
_____
sudo nano $HADOOP_HOME/etc/hadoop/core-site.xml
#Add below lines in this file(between "<configuration>" and "<"/configuration>")
 cproperty>
   <name>hadoop.tmp.dir</name>
   <value>/home/hdoop/tmpdata</value>
   <description>A base for other temporary directories.</description>
  </property>
  property>
```

```
<name>fs.default.name</name>
    <value>hdfs://localhost:9000</value>
    <description>The name of the default file system></description>
  </property>
4th File
sudo nano $HADOOP_HOME/etc/hadoop/hdfs-site.xml
#Add below lines in this file(between "<configuration>" and "<"/configuration>")
cproperty>
 <name>dfs.data.dir</name>
 <value>/home/hdoop/dfsdata/namenode</value>
</property>
property>
 <name>dfs.data.dir</name>
 <value>/home/hdoop/dfsdata/datanode</value>
</property>
cproperty>
 <name>dfs.replication</name>
 <value>1</value>
</property>
5th File
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sudo nano $HADOOP_HOME/etc/hadoop/mapred-site.xml
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#Add below lines in this file(between "<configuration>" and "<"/configuration>")
cproperty>
 <name>mapreduce.framework.name</name>
 <value>yarn</value>
</property>
6th File
sudo nano $HADOOP_HOME/etc/hadoop/yarn-site.xml
#Add below lines in this file(between "<configuration>" and "<"/configuration>")
cproperty>
 <name>yarn.nodemanager.aux-services</name>
 <value>mapreduce_shuffle</value>
</property>
cproperty>
 <name>yarn.nodemanager.aux-services.mapreduce.shuffle.class</name>
 <value>org.apache.hadoop.mapred.ShuffleHandler</value>
</property>
cproperty>
 <name>yarn.resourcemanager.hostname</name>
 <value>127.0.0.1</value>
</property>
cproperty>
 <name>yarn.acl.enable</name>
 <value>0</value>
</property>
cproperty>
```

<name>yarn.nodemanager.env-whitelist</name>

<pre><value>JAVA_HOME,HADOOP_COMMON_HOME,HADOOP_HDFS_HOME,HADOOP_CONF_DIR,CLAS SPATH_PERPEND_DISTCACHE,HADOOP_YARN_HOME,HADOOP_MAPRED_HOME</value></pre>
Launching Hadoop
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hdfs namenode -format
cd \$HADOOP_HOME/sbin
start-all.sh
go to browser -> localhost:8088
localhost:9870