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Steps to install Hadoop Single Node
sudo apt-get install update
sudo apt-get update
Check Java on your System (should be 1.7 or later)
If installed check version by using command
java -version
If not installed then use
    sudo apt-get install default-jdk
sudo addgroup hadoop
sudo adduser -ingroup hadoop hduser
hduser is user name you can give any user name
sudo adduser hduser sudo
sudo apt-get install openssh-server
su - hduser
cd
bwd
ssh-keygen -t rsa -P ""
cat $HOME/.ssh/id rsa.pub >> $HOME/.ssh/authorized keys
ssh localhost
exit
download the Hadoop 2.9.0 from
https://archive.apache.org/dist/hadoop/core/hadoop-2.9.0/
                                                            and save it
to Downloads
cd/home/student/Desktop
sudo tar -xzvf hadoop-2.9.0.tar.gz
sudo mv hadoop-2.9.0 /usr/local/hadoop
sudo chown -R hduser /usr/local
sudo nano ~/.bashrc
Configure the file . bashrc
Add the following contents at the end of the file
export JAVA HOME=/usr/lib/jvm/java-8-openjdk-amd64
export HADOOP HOME=/usr/local/hadoop
export PATH=$PATH:$HADOOP HOME/bin
export PATH=$PATH:$HADOOP_HOME/sbin
export HADOOP MAPRED HOME=$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 HADOOP OPTS="-Djava.library.path=$HADOOP HOME/lib"
source ~/.bashrc
Configure
          hadoop-env.sh
   sudo nano /usr/local/hadoop/etc/hadoop/hadoop-env.sh
Add the contents under Java Implementation to use
export JAVA HOME=/usr/lib/jvm/java-8-openjdk-amd64
Configure file
                 core-site.xml
sudo gedit /usr/local/hadoop/etc/hadoop/core-site.xml
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add the contents
cproperty>
  <name>fs.default.name
  <value>hdfs://localhost:9000</value>
</property>
Configure file
                  hdfs-site.xml
sudo gedit /usr/local/hadoop/etc/hadoop/hdfs-site.xml
Add the contents
cproperty>
  <name>dfs.replication</name>
  <value>1</value>
</property>
cproperty>
  <name>dfs.namenode.name.dir
  <value>file:/usr/local/hadoop tmp/hdfs/namenode</value>
</property>
cproperty>
 <name>dfs.datanode.data.dir
 <value>file:/usr/local/hadoop tmp/hdfs/datanode</value>
</property>
Configure file
                 yarn-site.xml
sudo gedit /usr/local/hadoop/etc/hadoop/yarn-site.xml
Configure file
                 mapred-site.xml
sudo cp /usr/local/hadoop/etc/hadoop/mapred-site.xml.template
/usr/local/hadoop/etc/hadoop/mapred-site.xml
sudo gedit /usr/local/hadoop/etc/hadoop/mapred-site.xml
sudo mkdir -p /usr/local/hadoop tmp
sudo mkdir -p /usr/local/hadoop_tmp/hdfs/namenode
sudo mkdir -p /usr/local/hadoop_tmp/hdfs/datanode
sudo chown -R hduser /usr/local/hadoop tmp
                 -format
hdfs namenode
start-dfs.sh
strat-yarn.sh
Installation of Hadoop is done
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