**APACHE KAFKA (SINGLE NODE)**

**1) Verify Java Installation using:**

java -version

**If it is now there install java using :**

sudo apt-get update

sudo apt-add-repository ppa:webupd8team/java

sudo apt-get install oracle-java8-installer

**2) Update ~/.bashrc**

gedit ~/.bashrc

**Add the following lines to the end of the file :**

export JAVA\_HOME=/usr/lib/jvm/java-8-oracle

export PATH=$PATH:$JAVA\_HOME/bin

**Save the file:**

source ~/.bashrc

**3) Extract tar files :**

tar -xzf kafka\_2.11-0.9.0.0.tgz

tar -xzf zookeeper-3.4.9.tar.gz

**4) Rename the files :**

mv kafka\_2.11-0.9.0.0 kafka

mv zookeeper-3.4.9 zookeeper

**5) Move the folders in /usr/local :**

sudo mv kafka /usr/local

sudo mv zookeeper /usr/local

**6) Changing Permissions :**

sudo chmod 777 zookeeper/

sudo chmod 777 kafka/

**7) Intalling Zookeeper :**

cd /usr/local/zookeeper

mkdir data

**8) Edit the configuration file and add the following lines :**

gedit conf/zoo.cfg

**Now add the lines:**

tickTime=2000

dataDir=/usr/local/zookeeper/data

clientPort=2181

initLimit=5

syncLimit=2

**9) Now update ~/.bashrc :**

export ZOOKEEPER\_HOME=/usr/local/zookeeper

export PATH=$PATH:$ZOOKEEPER\_HOME/bin

export KAFKA\_HOME=/usr/local/kafka

export PATH=$PATH:$KAFKA\_HOME/bin

export kStart=/usr/local/kafka/bin/kafka-server-start.sh

export kConfig=/usr/local/kafka/config/server.properties

export kStop=/usr/local/kafka/bin/kafka-server-stop.sh

**10) Save the file using :** source ~/.bashrc

**11) Now Start You Zookeeper Server using :**

zkServer.sh start

**You can check the Server has started using jps which will show :**

5346 Jps

5322 QuorumPeerMain

**To stop the server:**

zkServer.sh stop

**12) Start Kafka Server Using :**

$kStart $kConfig &

**To ckeck whether server has started or not type :**

jps

6276 QuorumPeerMain

6389 Jps

6300 Kafka

**To stop the server :**

$kStop $kConfig &