Kafka

[Kafka in Telugu - Production Setup -- Part 01](https://www.youtube.com/watch?v=ve-c_4kNJlU) (Kafka-1)



[Kafka Complete Guide in Telugu for Beginners.](https://www.youtube.com/watch?v=7kGA-Aa72qc)



[Kafka End to End - Part 01 | In Telugu](https://www.youtube.com/watch?v=9WZV5Qz5_RI)



[Kafka End to End - Part 02 | In Telugu](https://www.youtube.com/watch?v=B02pVZkyCKc)



To Change the hostname in Hosts

* cd /etc/hosts
* 192.168.44.34 kafka1
* 192.168.44.34 zookeeper1
* -----------------------BEGINING--------------------
* sudo useradd kafka -m
* sudo passwd kafka
* sudo adduser kafka sudo
* su -l kafka
* sudo apt-get update -y
* sudo apt-get install -y wget ca-certificates zip net-tools vim nano tar netcat

sudo apt-get install openjdk-8-jre

* wget http://apache.mirror.digitalpacific.com.au/kafka/2.7.0/kafka\_2.13-2.7.0.tgz
* tar -xvf kafka\_2.13-2.7.0.tgz
* mv kafka-2.7.0-src.tgz kafka
* cd kafka
* /root/kafka/config/zookeeper.properties
* root/kafka/bin
* ./zookeeper-server-start.sh /root/kafka/config/zookeeper.properties
* ps -ef | grep -i zookeeper
* ./zookeeper-server-start.sh -daemon /root/kafka/config/zookeeper.properties
* ./kafka-server-start.sh -daemon /root/kafka/config/server.properties
* echo “ruok” | nc localhost 2181 ; echo
* Imok
* echo “ruok” | nc 34.227.157.41 2181 ; echo
* echo “1” > data/zookeeper/myid
* chmod +x /etc/init.d/zookeeper
* ll /etc/init.d/zookeeper
* update-rc.d zookeeper defaults
* service zookeeper start
* service zookeeper status
* datadir= /root/kafka/data/zookeeper
* tickTime-2000
* initLimit=10
* syncLimit=5
* 41w.commands.whitelist=\*
* server.1=zookeeper1:2888:3888
* server.2=zookeeper2:2888:3888
* server.3=zookeeper3:2888:3888
* Mkdir -p /data/zookeeper
* vim /etc/init.d/zookeeper
* #!/bin/bash
* #/etc/init.d/zookeeper
* DAEMON\_PATH=/root/kafka/bin
* DAEMON\_NAME=zookeeper
* # check that networking is up.
* # [ ${NETWORKING} = "no" ] && exit 0

PATH=$PATH:$DAEMON\_PATH

# see how we are called.

case "$1" in

start)

# start daemon.

pid= 'ps ax | gerp -i 'org.apache.zookeeper' | grep -v grep | awk '{print $1}''

if [ -n "$pid"]

then

echo "zookeeper is already running";

else

echo "starting $DAEMON\_NAME";

$DAEMON\_PATH/zookeeper-server-start.sh -daemon /root/kafka/config/zookeeper.properties

fi

;;

stop)

echo "shuting down $DAEMON\_NAME";

$DAEMON\_PATH/zookeeper-server-stop.sh

;;

restart)

$0 stop

sleep 2

$0 start

status)

pid= 'ps ax | gerp -i 'org.apache.zookeeper' | grep -v grep | awk '{print $1}''

if [ -n "$pid"]

then

echo "zookeeper is running as PID: $pid"

else

echo "zookeeper is not running";

fi

;;

\*)

echo "usage: $0 {start|stop|restart|status}"

exit 1

esac

exit 0

auto.create.topics.enable=true

* ./kafka-server-start.sh -daemon /root/kafka/config/server.properties
* ps -ef | grep -i kafka
* nc -vz zookeeper1 2181
* nc -vz kafka1 9092
* ./kafka-topics.sh --create --topic bharath --bootstrap-server kafka1:9092 --partitions 3 --replicatin-factor 1
* ./kafka-topics.sh --zookeeper zookeeper1:2181 --list
* vim etc/hosts
* 18.208.143.164 kafka1
* 18.208.143.164 zookeeper1

/var/log/zookeeper/console.log

**Creating the Topic:**

root@ip-172-31-66-181:~/kafka/bin# ./kafka-topics.sh --create --topic quickstart-events --bootstrap-server kafka1:9092

Created topic quickstart-events.

root@ip-172-31-66-181:~/kafka/bin# ./kafka-topics.sh --describe --topic quickstart-events --bootstrap-server kafka1:9092

Topic: quickstart-events PartitionCount: 3 ReplicationFactor: 1 Configs: segment.bytes=1073741824

Topic: quickstart-events Partition: 0 Leader: 0 Replicas: 0 Isr: 0

Topic: quickstart-events Partition: 1 Leader: 0 Replicas: 0 Isr: 0

Topic: quickstart-events Partition: 2 Leader: 0 Replicas: 0 Isr: 0

root@ip-172-31-66-181:~/kafka/bin# ./kafka-console-producer.sh --topic quickstart-events --bootstrap-server kafka1:9092

>This is my first event

>This is my second event

root@ip-172-31-66-181:~/kafka/bin# ./kafka-console-consumer.sh --topic quickstart-events --from-beginning --bootstrap-server kafka1:9092

This is my first event

4

5

6

98

This is my second event

./zookeeper-shell.sh zookeeper1:2181

root@ip-172-31-66-181:~/kafka/bin# ./zookeeper-shell.sh zookeeper1:2181

Connecting to zookeeper1:2181

Welcome to ZooKeeper!

JLine support is disabled

WATCHER::

./kafka-topics.sh --create --topic states --bootstrap-server kafka1:9092 --replication-factor 1 --partitions 3

./kafka-topics.sh --bootstrap-server kafka1:9092 --list

./kafka-topics.sh --bootstrap-server kafka1:9092 --describe --topic states

./kafka-console-producer.sh --bootstrap-server kafka1:9092 --topic states (or)

./kafka-console-producer.sh --broker-list kafka1:9092 --topic states

./kafka-console-consumer.sh --bootstrap-server kafka1:9092 --topic states --from-beginning

checking logs

cd ../data/

Partition: 2

root@ip-172-31-66-181:~/kafka/bin# ./kafka-console-consumer.sh --bootstrap-server kafka1:9092 --topic states --from-beginning --partition 2

hyd

vz

mp

behar

kerala

jammu

^CProcessed a total of 6 messages

root@ip-172-31-66-181:~/kafka/bin# ./kafka-console-consumer.sh --bootstrap-server kafka1:9092 --topic states --from-beginning --partition 1

chennai

up

delhi

pune

^CProcessed a total of 4 messages

root@ip-172-31-66-181:~/kafka/bin# ./kafka-console-consumer.sh --bootstrap-server kafka1:9092 --topic states --from-beginning --partition 0

bangalore

mumbai

goa

rjastan

^CProcessed a total of 4 messages

root@ip-172-31-66-181:~/kafka/bin#

root@ip-172-31-66-181:~/kafka/bin# ./kafka-console-consumer.sh --bootstrap-server kafka1:9092 --topic states --offset 1 --partition 0

mumbai

goa

rjastan

^CProcessed a total of 3 messages

root@ip-172-31-66-181:~/kafka/bin#

./kafka-console-consumer.sh --bootstrap-server kafka1:9092 --topic states --group states --from-beginning

root@ip-172-31-66-181:~/kafka/bin# ./kafka-console-consumer.sh --bootstrap-server kafka1:9092 --topic states --group states --from-beginning

hyd

vz

mp

behar

kerala

jammu

bangalore

mumbai

goa

rjastan

chennai

up

delhi

pune

^CProcessed a total of 14 messages

root@ip-172-31-66-181:~/kafka/bin# ./kafka-console-producer.sh --broker-list kafka1:9092 --topic states

>a

>b

>c

>d

root@ip-172-31-66-181:~/kafka/bin# ./kafka-console-consumer.sh --bootstrap-server kafka1:9092 --topic states --from-beginning

hyd

vz

mp

behar

kerala

jammu

a

c

bangalore

mumbai

goa

rjastan

b

chennai

up

delhi

pune

d

^CProcessed a total of 18 messages

./kafka-console-consumer.sh --bootstrap-server kafka1:9092 --topic states --group statesagain --from-beginning

root@ip-172-31-66-181:~/kafka/bin# ./kafka-consumer-groups.sh --bootstrap-server kafka1:9092 --list

--list

statesagain

states

root@ip-172-31-66-181:~/kafka/bin#

./kafka-topics.sh --bootstrap-server kafka1:9092 --list

root@ip-172-31-66-181:~/kafka/bin# ./kafka-topics.sh --bootstrap-server kafka1:9092 --list

\_\_consumer\_offsets

quickstart-events

states

root@ip-172-31-66-181:~/kafka/bin#

root@ip-172-31-66-181:~/kafka/bin# ./kafka-topics.sh --bootstrap-server kafka1:9092 --describe --topic states

Topic: states PartitionCount: 3 ReplicationFactor: 1 Configs: segment.bytes=1073741824

Topic: states Partition: 0 Leader: 0 Replicas: 0 Isr: 0

Topic: states Partition: 1 Leader: 0 Replicas: 0 Isr: 0

Topic: states Partition: 2 Leader: 0 Replicas: 0 Isr: 0

root@ip-172-31-66-181:~/kafka/bin#

./kafka-producer-perf-test.sh --topic states --num-records 10 --throughput 5 --record-size 10 --producer-props --bootstrap-server=kafka1:9092

**Performance-Test:**

root@ip-172-31-66-181:~/kafka/bin# ./kafka-producer-perf-test.sh --topic bharath --throughput -1 --num-records 3000000 --record-size 1024 --producer-props acks=all bootstrap.servers=kafka1:9092

152160 records sent, 30425.9 records/sec (29.71 MB/sec), 760.3 ms avg latency, 1112.0 ms max latency.

234315 records sent, 46863.0 records/sec (45.76 MB/sec), 663.6 ms avg latency, 850.0 ms max latency.

261060 records sent, 52212.0 records/sec (50.99 MB/sec), 596.9 ms avg latency, 850.0 ms max latency.

365430 records sent, 73086.0 records/sec (71.37 MB/sec), 425.4 ms avg latency, 687.0 ms max latency.

389610 records sent, 77922.0 records/sec (76.10 MB/sec), 394.1 ms avg latency, 522.0 ms max latency.

387360 records sent, 77472.0 records/sec (75.66 MB/sec), 396.1 ms avg latency, 517.0 ms max latency.

356715 records sent, 71343.0 records/sec (69.67 MB/sec), 430.5 ms avg latency, 557.0 ms max latency.

390735 records sent, 78147.0 records/sec (76.32 MB/sec), 393.2 ms avg latency, 508.0 ms max latency.

388980 records sent, 77796.0 records/sec (75.97 MB/sec), 394.5 ms avg latency, 561.0 ms max latency.

3000000 records sent, 65149.409312 records/sec (63.62 MB/sec), 459.72 ms avg latency, 1112.00 ms max latency, 430 ms 50th, 749 ms 95th, 844 ms 99th, 1079 ms 99.9th.

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