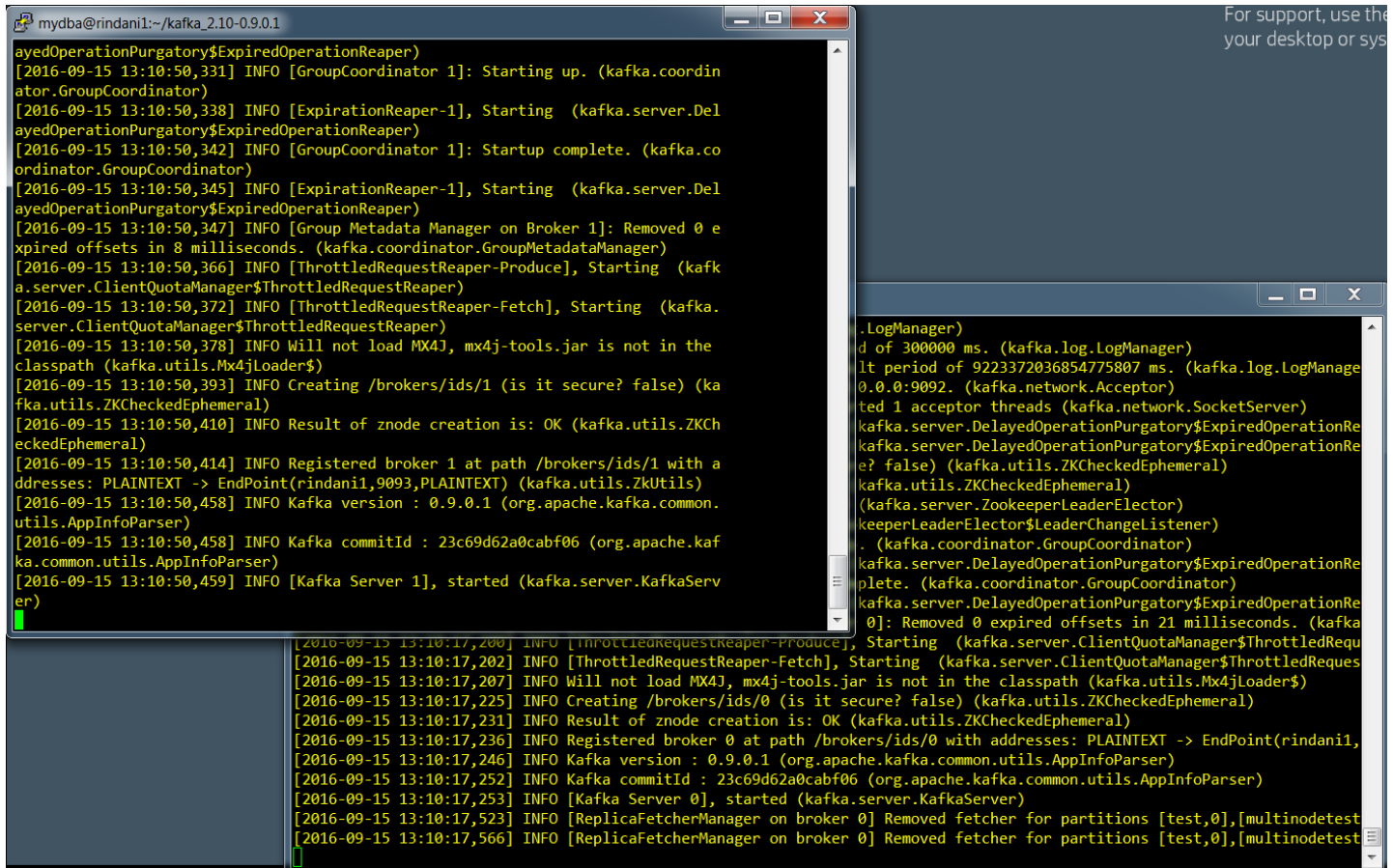


2-node cluster

1. Run Zookeeper on node 1 using the command
bin/zkServer.sh start
2. Run Kafka on Node 1 with both server.properties (one for node 1 and other for node 2)
bin/kafka-server-start.sh config/server.properties
bin/kafka-server-start.sh config/server_1.properties



```
mydba@rindani1:~/kafka_2.10-0.9.0.1
[2016-09-15 13:10:50,331] INFO [GroupCoordinator 1]: Starting up. (kafka.coordin
ator.GroupCoordinator)
[2016-09-15 13:10:50,338] INFO [ExpirationReaper-1], Starting (kafka.server.Del
ayedOperationPurgatory$ExpiredOperationReaper)
[2016-09-15 13:10:50,342] INFO [GroupCoordinator 1]: Startup complete. (kafka.co
ordinator.GroupCoordinator)
[2016-09-15 13:10:50,345] INFO [ExpirationReaper-1], Starting (kafka.server.Del
ayedOperationPurgatory$ExpiredOperationReaper)
[2016-09-15 13:10:50,347] INFO [Group Metadata Manager on Broker 1]: Removed 0 e
xpired offsets in 8 milliseconds. (kafka.coordinator.GroupMetadataManager)
[2016-09-15 13:10:50,366] INFO [ThrottledRequestReaper- Produce], Starting (kafk
a.server.ClientQuotaManager$ThrottledRequestReaper)
[2016-09-15 13:10:50,372] INFO [ThrottledRequestReaper-Fetch], Starting (kafka.
server.ClientQuotaManager$ThrottledRequestReaper)
[2016-09-15 13:10:50,378] INFO Will not load MX4J, mx4j-tools.jar is not in the
classpath (kafka.utils.Mx4JLoader$)
[2016-09-15 13:10:50,393] INFO Creating /brokers/ids/1 (is it secure? false) (ka
fka.utils.ZKCheckedEphemeral)
[2016-09-15 13:10:50,410] INFO Result of znode creation is: OK (kafka.utils.ZKCh
eckedEphemeral)
[2016-09-15 13:10:50,414] INFO Registered broker 1 at path /brokers/ids/1 with a
ddresses: PLAINTEXT -> EndPoint(rindani1,9093,PLAINTEXT) (kafka.utils.ZkUtils)
[2016-09-15 13:10:50,458] INFO Kafka version : 0.9.0.1 (org.apache.kafka.common.
utils.AppInfoParser)
[2016-09-15 13:10:50,458] INFO Kafka commitId : 23c69d62a0cabf06 (org.apache.kaf
ka.common.utils.AppInfoParser)
[2016-09-15 13:10:50,459] INFO [Kafka Server 1], started (kafka.server.KafkaServ
er)

[2016-09-15 13:10:17,200] INFO [ThrottledRequestReaper- Produce], Starting (kafka.server.ClientQuotaManager$ThrottledRequ
[2016-09-15 13:10:17,202] INFO [ThrottledRequestReaper-Fetch], Starting (kafka.server.ClientQuotaManager$ThrottledReques
[2016-09-15 13:10:17,207] INFO Will not load MX4J, mx4j-tools.jar is not in the classpath (kafka.utils.Mx4JLoader$)
[2016-09-15 13:10:17,225] INFO Creating /brokers/ids/0 (is it secure? false) (kafka.utils.ZKCheckedEphemeral)
[2016-09-15 13:10:17,231] INFO Result of znode creation is: OK (kafka.utils.ZKCheckedEphemeral)
[2016-09-15 13:10:17,236] INFO Registered broker 0 at path /brokers/ids/0 with addresses: PLAINTEXT -> EndPoint(rindani1,
[2016-09-15 13:10:17,246] INFO Kafka version : 0.9.0.1 (org.apache.kafka.common.utils.AppInfoParser)
[2016-09-15 13:10:17,252] INFO Kafka commitId : 23c69d62a0cabf06 (org.apache.kafka.common.utils.AppInfoParser)
[2016-09-15 13:10:17,253] INFO [Kafka Server 0], started (kafka.server.KafkaServer)
[2016-09-15 13:10:17,523] INFO [ReplicaFetcherManager on broker 0] Removed fetcher for partitions [test,0],[multinodetest
[2016-09-15 13:10:17,566] INFO [ReplicaFetcherManager on broker 0] Removed fetcher for partitions [test,0],[multinodetest
```

3. Create few kafkatopics
bin/kafka-topics.sh --create --zookeeper localhost:2181 --replication-factor 2 --partitions 2 --topic multinodetest
bin/kafka-topics.sh --create zookeeper localhost:2181 --replication-factor 2 --partitions 2 --topic newtopictest

Case 1

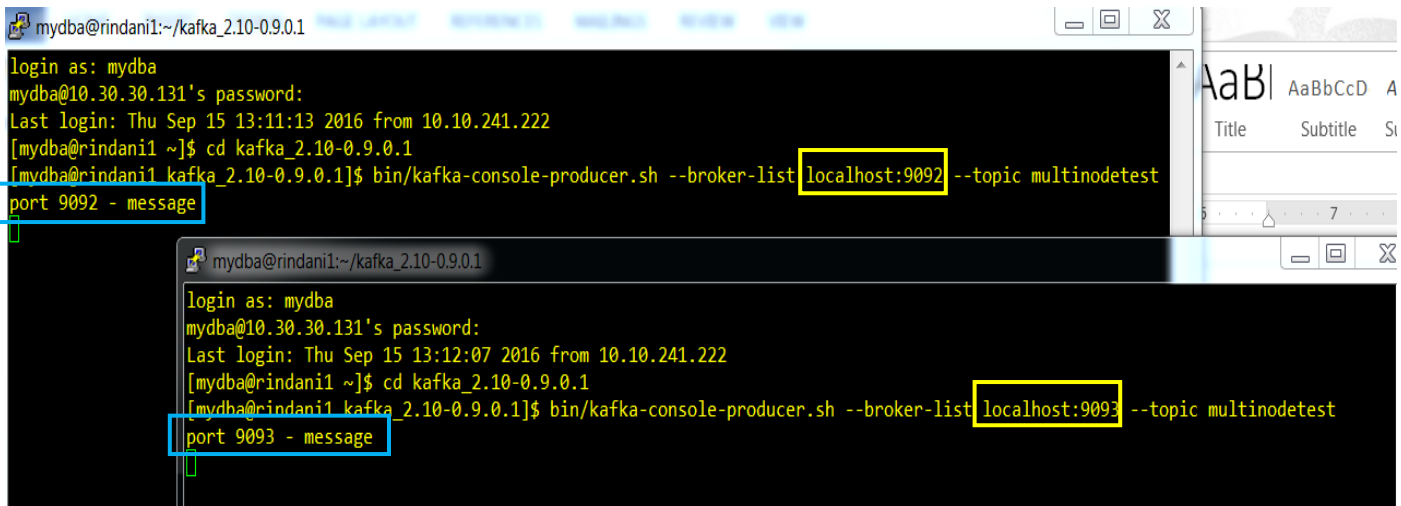
One Topic → multinodetest

2 Producers – They produce messages

- One producing on port 9092 – *port 9092 message*
bin/kafka-console-producer.sh --broker-list localhost:9092 topic --multinodetest
- One producing on port 9093 – *port 9093 message*
bin/kafka-console-producer.sh --broker-list localhost:9093 topic --multinodetest

One consumer consuming messages from both the port

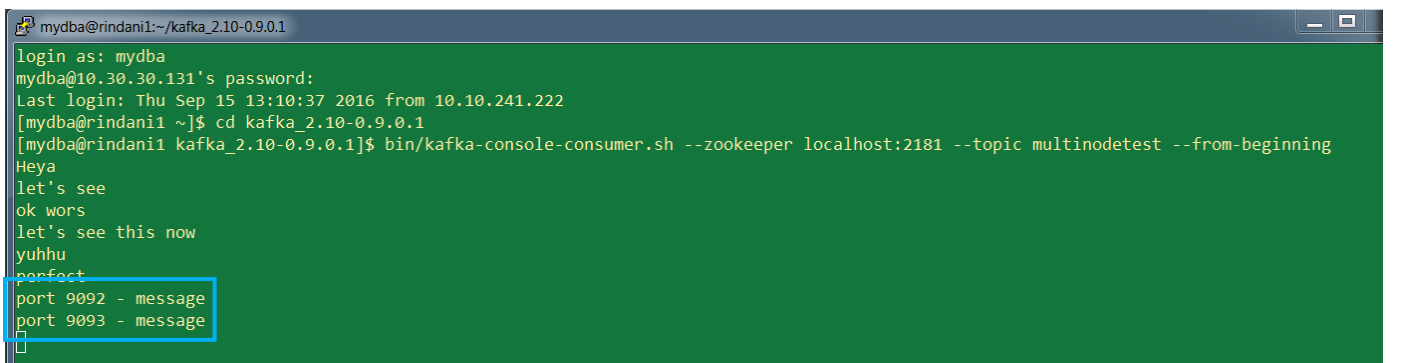
Producer



```
mydba@rindani1:~/kafka_2.10-0.9.0.1
login as: mydba
mydba@10.30.30.131's password:
Last login: Thu Sep 15 13:11:13 2016 from 10.10.241.222
[mydba@rindani1 ~]$ cd kafka_2.10-0.9.0.1
[mydba@rindani1 kafka_2.10-0.9.0.1]$ bin/kafka-console-producer.sh --broker-list localhost:9092 --topic multinodetest
port 9092 - message

mydba@rindani1:~/kafka_2.10-0.9.0.1
login as: mydba
mydba@10.30.30.131's password:
Last login: Thu Sep 15 13:12:07 2016 from 10.10.241.222
[mydba@rindani1 ~]$ cd kafka_2.10-0.9.0.1
[mydba@rindani1 kafka_2.10-0.9.0.1]$ bin/kafka-console-producer.sh --broker-list localhost:9093 --topic multinodetest
port 9093 - message
```

Consumer



```
mydba@rindani1:~/kafka_2.10-0.9.0.1
login as: mydba
mydba@10.30.30.131's password:
Last login: Thu Sep 15 13:10:37 2016 from 10.10.241.222
[mydba@rindani1 ~]$ cd kafka_2.10-0.9.0.1
[mydba@rindani1 kafka_2.10-0.9.0.1]$ bin/kafka-console-consumer.sh --zookeeper localhost:2181 --topic multinodetest --from-beginning
Heya
let's see
ok wors
let's see this now
yuhhu
perfect
port 9092 - message
port 9093 - message
```

Case 2

One Producer – Producing messages on port 9092

2 Topics

- multinodetest – *new message port 9092 – topic multinodetest*
bin/kafka-console-producer.sh --broker-list localhost:9092 --topic multinodetest
- newtopicstest – *message in newtopicstest channel*
bin/kafka-console-producer.sh --broker-list localhost:9092 --topic multinodetest

2 Consumers

- Reading topic multinodetest
bin/kafka-console-consumer.sh --zookeeper localhost:2181 --topic multinodetest --from-beginning
- Reading topic newtopicstest
bin/kafka-console-consumer.sh --zookeeper localhost:2181 --topic newtopicstest --from-beginning

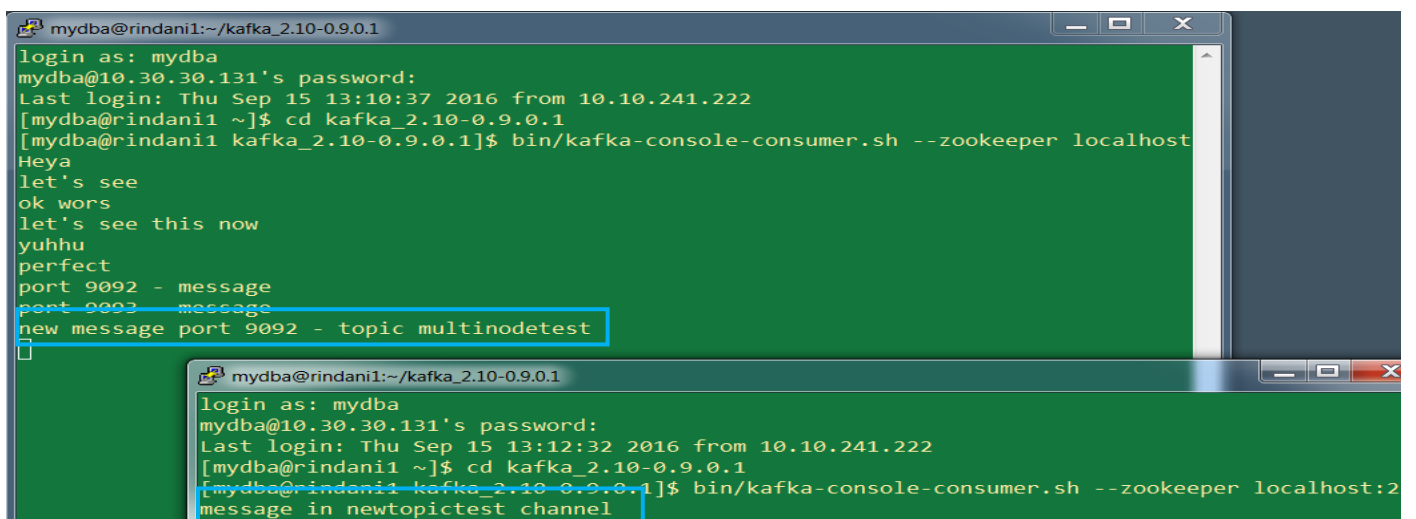
Producer



```
mydba@rindani1:~/kafka_2.10-0.9.0.1
login as: mydba
mydba@10.30.30.131's password:
Last login: Thu Sep 15 13:11:13 2016 from 10.10.241.222
[mydba@rindani1 ~]$ cd kafka_2.10-0.9.0.1
[mydba@rindani1 kafka_2.10-0.9.0.1]$ bin/kafka-console-producer.sh --broker-list localhost:9092 --topic multinodetest
port 9092 - message
new message port 9092 - topic multinodetest

[mydba@rindani1 kafka_2.10-0.9.0.1]$ bin/kafka-console-producer.sh --broker-list localhost:9092 --topic newtopicstest
message in newtopicstest channel
```

Consumer



```
mydba@rindani1:~/kafka_2.10-0.9.0.1
login as: mydba
mydba@10.30.30.131's password:
Last login: Thu Sep 15 13:10:37 2016 from 10.10.241.222
[mydba@rindani1 ~]$ cd kafka_2.10-0.9.0.1
[mydba@rindani1 kafka_2.10-0.9.0.1]$ bin/kafka-console-consumer.sh --zookeeper localhost:2181 --topic multinodetest --from-beginning
Heya
let's see
ok wors
let's see this now
yuhhu
perfect
port 9092 - message
port 9092 - message
new message port 9092 - topic multinodetest

[mydba@rindani1 kafka_2.10-0.9.0.1]$ bin/kafka-console-consumer.sh --zookeeper localhost:2181 --topic newtopicstest --from-beginning
message in newtopicstest channel
```

Case 3

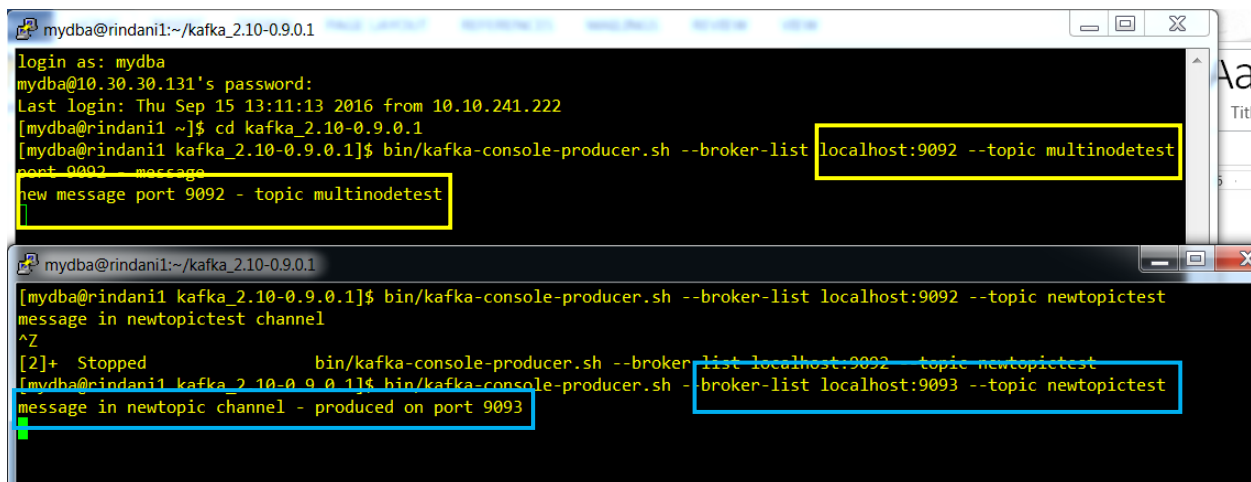
2 Producer Ports that are producing data & 2 Topics

- Port 9092 – Producing message for topic *multinodetest*
`bin/kafka-console-producer.sh --broker-list localhost:9092 --topic multinodetest`
- Port 9093 – Producing message for topic *newtopictest*
`bin/kafka-console-producer.sh --broker-list localhost:9093 --topic newtopictest`

2 Consumers

- Reading topic *multinodetest*
`bin/kafka-console-consumer.sh --zookeeper localhost:2181 --topic multinodetest --from-beginning`
- Reading topic *newtopictest*
`bin/kafka-console-consumer.sh --zookeeper localhost:2181 --topic newtopictest --from-beginning`

Producer

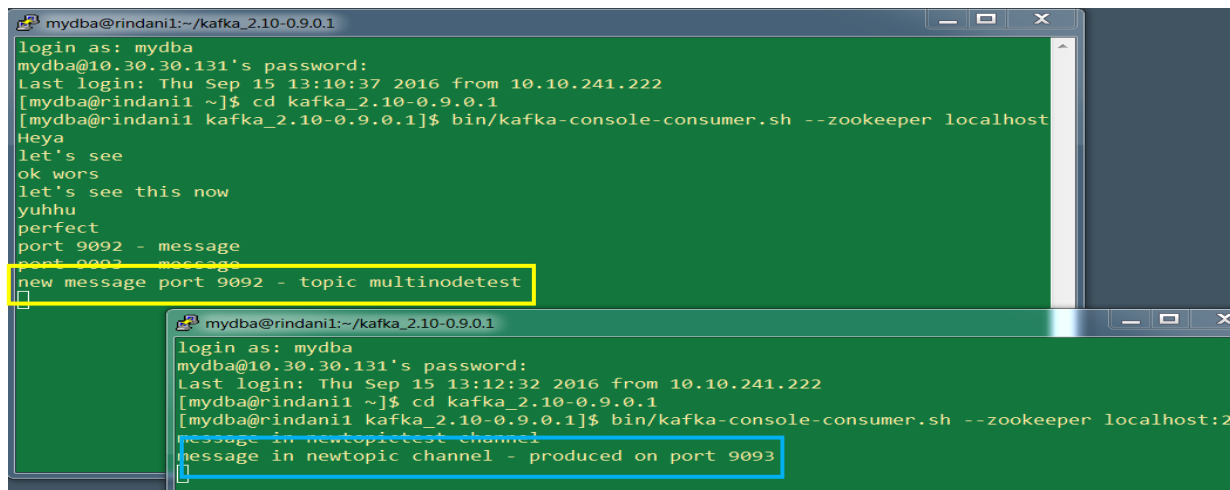


The image shows two terminal windows. The top window shows a user logging in as 'mydba' and running the command `bin/kafka-console-producer.sh --broker-list localhost:9092 --topic multinodetest`. The output shows 'port 9092 - message' and 'new message port 9092 - topic multinodetest'. The bottom window shows the user running `bin/kafka-console-producer.sh --broker-list localhost:9092 --topic newtopictest`, which outputs 'message in newtopictest channel'. Then, the user runs `bin/kafka-console-producer.sh --broker-list localhost:9093 --topic newtopictest`, which outputs 'message in newtopic channel - produced on port 9093'.

```
mydba@rindani1:~/kafka_2.10-0.9.0.1
login as: mydba
mydba@10.30.30.131's password:
Last login: Thu Sep 15 13:11:13 2016 from 10.10.241.222
[mydba@rindani1 ~]$ cd kafka_2.10-0.9.0.1
[mydba@rindani1 kafka_2.10-0.9.0.1]$ bin/kafka-console-producer.sh --broker-list localhost:9092 --topic multinodetest
port 9092 - message
new message port 9092 - topic multinodetest

mydba@rindani1:~/kafka_2.10-0.9.0.1
[mydba@rindani1 kafka_2.10-0.9.0.1]$ bin/kafka-console-producer.sh --broker-list localhost:9092 --topic newtopictest
message in newtopictest channel
^Z
[2]+  Stopped                  bin/kafka-console-producer.sh --broker-list localhost:9092 --topic newtopictest
[mydba@rindani1 kafka_2.10-0.9.0.1]$ bin/kafka-console-producer.sh --broker-list localhost:9093 --topic newtopictest
message in newtopic channel - produced on port 9093
```

Consumer



The image shows two terminal windows. The top window shows a user logging in as 'mydba' and running the command `bin/kafka-console-consumer.sh --zookeeper localhost:2181 --topic multinodetest --from-beginning`. The output shows 'Heya', 'let's see', 'ok wors', 'let's see this now', 'yuhhu', 'perfect', 'port 9092 - message', and 'new message port 9092 - topic multinodetest'. The bottom window shows the user running `bin/kafka-console-consumer.sh --zookeeper localhost:2181 --topic newtopictest --from-beginning`, which outputs 'message in newtopictest channel' and 'message in newtopic channel - produced on port 9093'.

```
mydba@rindani1:~/kafka_2.10-0.9.0.1
login as: mydba
mydba@10.30.30.131's password:
Last login: Thu Sep 15 13:10:37 2016 from 10.10.241.222
[mydba@rindani1 ~]$ cd kafka_2.10-0.9.0.1
[mydba@rindani1 kafka_2.10-0.9.0.1]$ bin/kafka-console-consumer.sh --zookeeper localhost:2181 --topic multinodetest --from-beginning
Heya
let's see
ok wors
let's see this now
yuhhu
perfect
port 9092 - message
new message port 9092 - topic multinodetest

mydba@rindani1:~/kafka_2.10-0.9.0.1
login as: mydba
mydba@10.30.30.131's password:
Last login: Thu Sep 15 13:12:32 2016 from 10.10.241.222
[mydba@rindani1 ~]$ cd kafka_2.10-0.9.0.1
[mydba@rindani1 kafka_2.10-0.9.0.1]$ bin/kafka-console-consumer.sh --zookeeper localhost:2181 --topic newtopictest --from-beginning
message in newtopictest channel
message in newtopic channel - produced on port 9093
```

