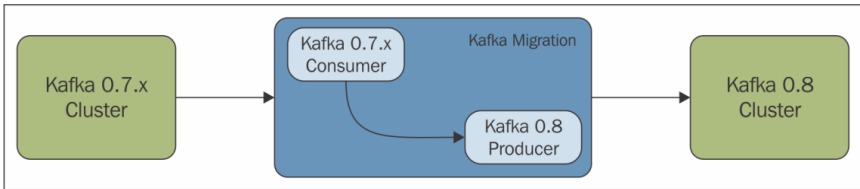
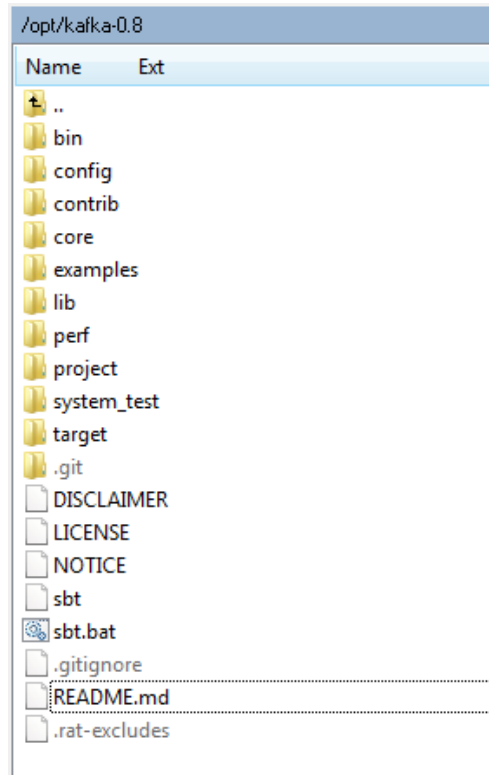


Formatted: Figure [PACKT]
Formatted: Left: 3.81 cm, Right: 3.81 cm, Top: 4.14 cm, Bottom: 4.77 cm, Width: 21.59 cm, Height: 27.94 cm, Header distance from edge: 3.48 cm, Footer distance from edge: 4.14 cm, Different first page header

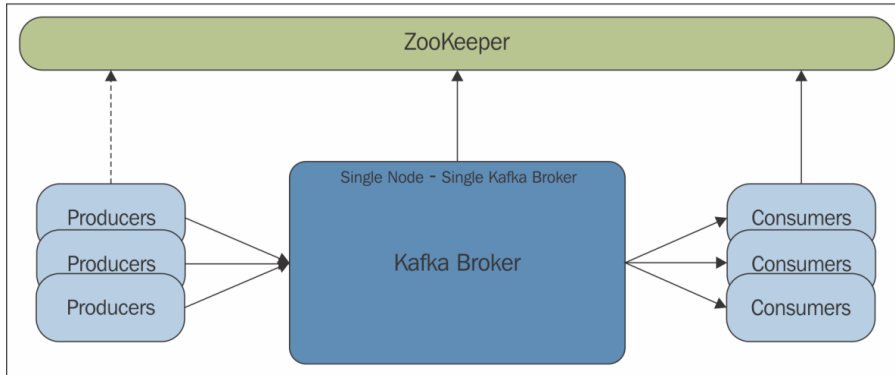




```
[info] Resolving org.apache.hadoop#hadoop-core;0.20.2 ...
[info] Done updating.
[info] Updating {file:/opt/kafka-0.8/}java-examples...
[info] Resolving com.yammer.metrics#metrics-annotation;2.2.0 ...
[info] Done updating.
[info] Updating {file:/opt/kafka-0.8/}perf...
[info] Resolving com.yammer.metrics#metrics-annotation;2.2.0 ...
[info] Done updating.
[info] Updating {file:/opt/kafka-0.8/}hadoop-consumer...
[info] Resolving org.apache.hadoop#hadoop-core;0.20.2 ...
[info] Done updating.
[success] Total time: 47 s, completed Aug 28, 2013 12:32:40 AM
[root@localhost kafka-0.8]#
```

```
[info] Compiling 5 Java sources to /opt/kafka-0.8/examples/target/classes...
[info] Compiling 4 Java sources to /opt/kafka-0.8/contrib/hadoop-producer/target/classes...
[info] Packaging /opt/kafka-0.8/core/target/scala-2.8.0/kafka_2.8.0-0.8.0-beta1.jar ...
[info] Done packaging.
[info] Packaging /opt/kafka-0.8/target/scala-2.8.0/kafka_2.8.0-0.8.0-beta1.jar ...
[info] Done packaging.
[info] Packaging /opt/kafka-0.8/contrib/target/scala-2.8.0/contrib_2.8.0-0.8.0-beta1.jar ...
[info] Done packaging.
[info] Packaging /opt/kafka-0.8/perf/target/scala-2.8.0/kafka-perf_2.8.0-0.8.0-beta1.jar ...
[info] Done packaging.
[info] Packaging /opt/kafka-0.8/contrib/hadoop-consumer/target/hadoop-consumer-0.8.0-beta1.jar ...
[info] Done packaging.
[info] Packaging /opt/kafka-0.8/examples/target/kafka-java-examples-0.8.0-beta1.jar ...
[info] Done packaging.
[info] Packaging /opt/kafka-0.8/contrib/hadoop-producer/target/hadoop-producer-0.8.0-beta1.jar ...
[info] Done packaging.
[success] Total time: 200 s, completed Aug 28, 2013 12:38:13 AM
[root@localhost kafka-0.8]#
```

```
[info] Including jopt-simple-3.2.jar
[info] Including zookeeper-3.3.4.jar
[info] Including slf4j-api-1.7.2.jar
[info] Including slf4j-simple-1.6.4.jar
[info] Including snappy-java-1.0.4.1.jar
[info] Including scala-compiler.jar
[info] Including scala-library.jar
[warn] Merging 'META-INF/NOTICE' with strategy 'rename'
[warn] Merging 'org/xerial/snappy/native/README' with strategy 'rename'
[warn] Merging 'META-INF/maven/org.xerial.snappy/snappy-java/LICENSE' with strategy 'rename'
[warn] Merging 'LICENSE.txt' with strategy 'rename'
[warn] Merging 'META-INF/LICENSE' with strategy 'rename'
[warn] Merging 'META-INF/MANIFEST.MF' with strategy 'discard'
[warn] Strategy 'discard' was applied to a file
[warn] Strategy 'rename' was applied to 5 files
[info] Packaging /opt/kafka-0.8/core/target/scala-2.8.0/kafka-assembly-0.8.0-beta1-deps.jar ...
[info] Done packaging.
[success] Total time: 20 s, completed Aug 28, 2013 12:40:10 AM
[root@localhost kafka-0.8]#
```



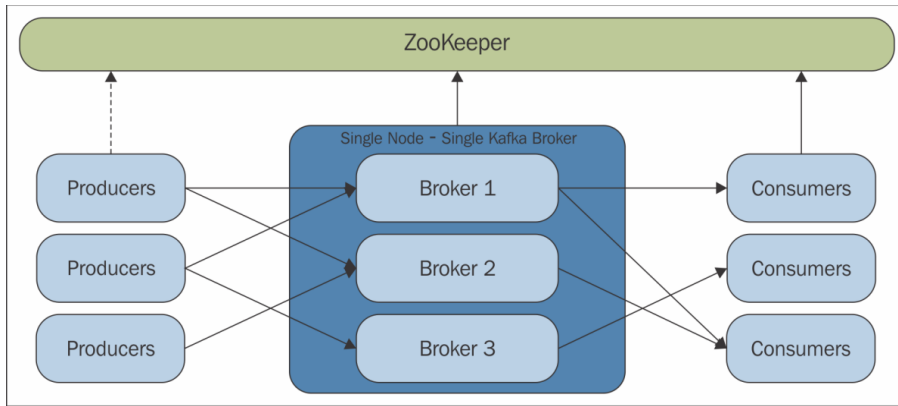
```
[2013-06-05 14:14:31,740] INFO Server environment:java.io.tmpdir=/tmp (org.apache.zookeeper.server.ZooKeeperServer)
[2013-06-05 14:14:31,740] INFO Server environment:java.compiler=<NA> (org.apache.zookeeper.server.ZooKeeperServer)
[2013-06-05 14:14:31,740] INFO Server environment:os.name=Linux (org.apache.zookeeper.server.ZooKeeperServer)
[2013-06-05 14:14:31,740] INFO Server environment:os.arch=amd64 (org.apache.zookeeper.server.ZooKeeperServer)
[2013-06-05 14:14:31,740] INFO Server environment:os.version=2.6.18-348.6.1.el5 (org.apache.zookeeper.server.ZooKeeperServer)
[2013-06-05 14:14:31,741] INFO Server environment:user.name=root (org.apache.zookeeper.server.ZooKeeperServer)
[2013-06-05 14:14:31,741] INFO Server environment:user.home=/root (org.apache.zookeeper.server.ZooKeeperServer)
[2013-06-05 14:14:31,742] INFO Server environment:user.dir=/opt/kafka-0.8 (org.apache.zookeeper.server.ZooKeeperServer)
[2013-06-05 14:14:31,767] INFO tickTime set to 3000 (org.apache.zookeeper.server.ZooKeeperServer)
[2013-06-05 14:14:31,767] INFO minSessionTimeout set to -1 (org.apache.zookeeper.server.ZooKeeperServer)
[2013-06-05 14:14:31,767] INFO maxSessionTimeout set to -1 (org.apache.zookeeper.server.ZooKeeperServer)
[2013-06-05 14:14:31,804] INFO binding to port 0.0.0.0/0.0.0.0:2181 (org.apache.zookeeper.server.NIOServerCnxn)
[2013-06-05 14:14:31,852] INFO Snapshotting: 0 (org.apache.zookeeper.server.persistence.FileTxnSnapLog)
```

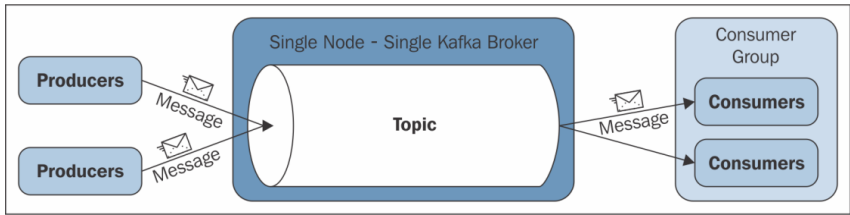
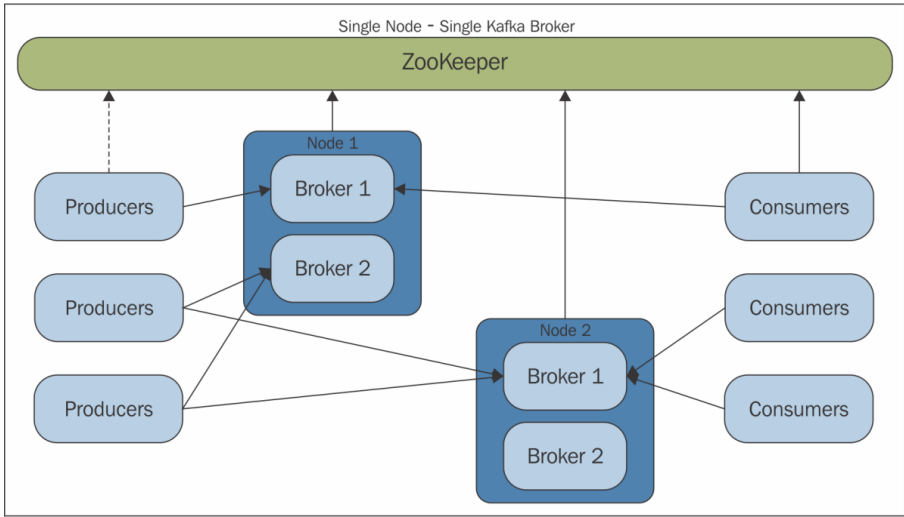
```
[2013-08-28 09:20:22,427] INFO Starting ZkClient event thread. (org.I0Itec.zkclient.ZkEventThread)
[2013-08-28 09:20:22,456] INFO Opening socket connection to server localhost/127.0.0.1:2181 (org.apache.zookeeper.ClientCnxn)
[2013-08-28 09:20:22,474] INFO Socket connection established to localhost/127.0.0.1:2181, initiating session (org.apache.zookeeper.ClientCnxn)
[2013-08-28 09:20:22,562] INFO Session establishment complete on server localhost/127.0.0.1:2181, sessionId = 0x140c5b9930c0000, negotiated timeout = 6000 (org.apache.zookeeper.ClientCnxn)
[2013-08-28 09:20:22,564] INFO zookeeper state changed (SyncConnected) (org.I0Itec.zkclient.ZkClient)
[2013-08-28 09:20:22,704] INFO Registered broker 1 at path /brokers/ids/1 with address localhost.localdomain:9092. (kafka.utils.ZkUtils$)
[2013-08-28 09:20:22,705] INFO [Kafka Server 1], Connecting to ZK: localhost:2181 (kafka.server.KafkaServer)
[2013-08-28 09:20:22,876] INFO Will not load MX4J, mx4j-tools.jar is not in the classpath (kafka.utils.Mx4JLoaders$)
[2013-08-28 09:20:22,905] INFO 1 successfully elected as leader (kafka.server.ZookeeperLeaderElector)
[2013-08-28 09:20:23,187] INFO New leader is 1 (kafka.server.ZookeeperLeaderElector$LeaderChangeListener)
[2013-08-28 09:20:23,287] INFO [Kafka Server 1], Started (kafka.server.KafkaServer)
[2013-08-28 09:21:00,662] INFO No state transitions triggered since no partitions are assigned to brokers 2 (kafka.utils.ZkUtils$)
[2013-08-28 09:21:31,774] INFO No state transitions triggered since no partitions are assigned to brokers 3 (kafka.utils.ZkUtils$)
```

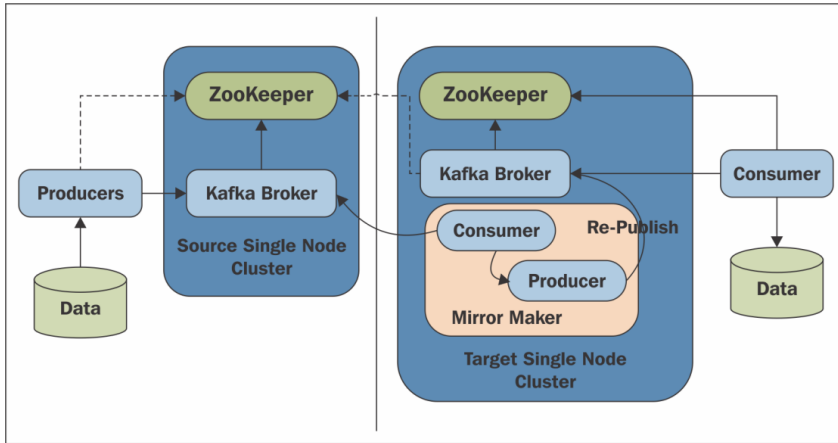
```
[2013-08-28 10:17:16,307] INFO Client environment:java.compiler=<NA> (org.apache.zookeeper.ZooKeeper)
[2013-08-28 10:17:16,307] INFO Client environment:os.name=Linux (org.apache.zookeeper.ZooKeeper)
[2013-08-28 10:17:16,307] INFO Client environment:os.arch=amd64 (org.apache.zookeeper.ZooKeeper)
[2013-08-28 10:17:16,307] INFO Client environment:os.version=2.6.18-348.6.1.el5 (org.apache.zookeeper.ZooKeeper)
[2013-08-28 10:17:16,307] INFO Client environment:user.name=root (org.apache.zookeeper.ZooKeeper)
[2013-08-28 10:17:16,308] INFO Client environment:user.home=/root (org.apache.zookeeper.ZooKeeper)
[2013-08-28 10:17:16,308] INFO Client environment:user.dir=/opt/kafka-0.8_OLD (org.apache.zookeeper.ZooKeeper)
[2013-08-28 10:17:16,309] INFO Initiating client connection, connectString=localhost:2181 sessionTimeout=30000 watcher=org.I0Itec.zkclient.ZkClient@57a7ddcf (org.apache.zookeeper.ZooKeeper)
[2013-08-28 10:17:16,324] INFO Starting ZkClient event thread. (org.I0Itec.zkclient.ZkEventThread)
[2013-08-28 10:17:16,360] INFO Opening socket connection to server localhost/127.0.0.1:2181 (org.apache.zookeeper.ClientCnxn)
[2013-08-28 10:17:16,408] INFO Socket connection established to localhost/127.0.0.1:2181, initiating session (org.apache.zookeeper.ClientCnxn)
[2013-08-28 10:17:16,450] INFO Session establishment complete on server localhost/127.0.0.1:2181, sessionId = 0x140c5b9930c0003, negotiated timeout = 30000 (org.apache.zookeeper.ClientCnxn)
[2013-08-28 10:17:16,453] INFO zookeeper state changed (SyncConnected) (org.I0Itec.zkclient.ZkClient)
creation succeeded!
[2013-08-28 10:17:18,857] INFO Terminate ZkClient event thread. (org.I0Itec.zkclient.ZkEventThread)
[2013-08-28 10:17:19,122] INFO Session: 0x140c5b9930c0003 closed (org.apache.zookeeper.ZooKeeper)
[2013-08-28 10:17:19,123] INFO EventThread shut down (org.apache.zookeeper.ClientCnxn)
```

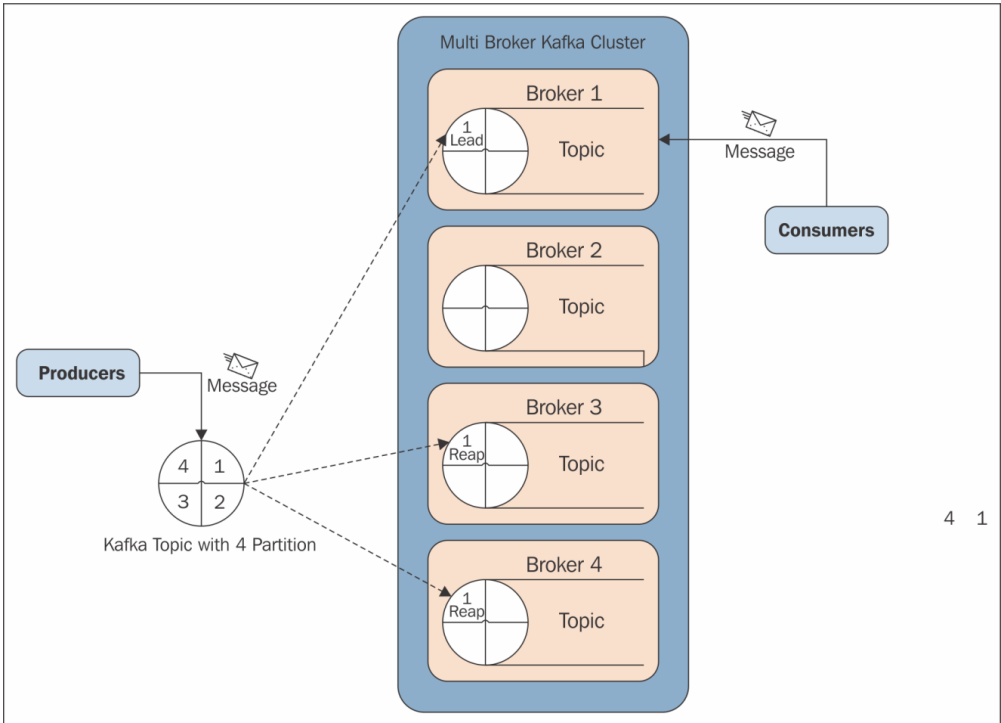
```
[root@localhost kafka-0.8]# bin/kafka-console-producer.sh --broker-list localhost:9092 --topic kafkatopic
[2013-09-02 01:03:12,620] INFO Verifying properties (kafka.utils.VerifiableProperties)
[2013-09-02 01:03:12,655] INFO Property queue.buffering.max.messages is overridden to 10000 (kafka.utils.VerifiableProperties)
[2013-09-02 01:03:12,656] INFO Property key.serializer.class is overridden to kafka.serializer.StringEncoder (kafka.utils.VerifiableProperties)
[2013-09-02 01:03:12,656] INFO Property compression.codec is overridden to 0 (kafka.utils.VerifiableProperties)
[2013-09-02 01:03:12,657] INFO Property serializer.class is overridden to kafka.serializer.StringEncoder (kafka.utils.VerifiableProperties)
[2013-09-02 01:03:12,657] INFO Property request.timeout.ms is overridden to 1500 (kafka.utils.VerifiableProperties)
[2013-09-02 01:03:12,657] INFO Property send.buffer.bytes is overridden to 102400 (kafka.utils.VerifiableProperties)
[2013-09-02 01:03:12,657] INFO Property request.required.acks is overridden to 0 (kafka.utils.VerifiableProperties)
[2013-09-02 01:03:12,658] INFO Property producer.type is overridden to async (kafka.utils.VerifiableProperties)
[2013-09-02 01:03:12,658] INFO Property metadata.broker.list is overridden to localhost:9092 (kafka.utils.VerifiableProperties)
[2013-09-02 01:03:12,658] INFO Property queue.buffering.max.ms is overridden to 1000 (kafka.utils.VerifiableProperties)
[2013-09-02 01:03:12,665] INFO Property queue.enqueue.timeout.ms is overridden to 0 (kafka.utils.VerifiableProperties)
```

```
[2013-09-02 01:03:12,658] INFO Property producer.type is overridden to async (kafka.utils.VerifiableProperties)
[2013-09-02 01:03:12,658] INFO Property metadata.broker.list is overridden to localhost:9092 (kafka.utils.VerifiableProperties)
[2013-09-02 01:03:12,658] INFO Property queue.buffering.max.ms is overridden to 1000 (kafka.utils.VerifiableProperties)
[2013-09-02 01:03:12,665] INFO Property queue.enqueue.timeout.ms is overridden to 0 (kafka.utils.VerifiableProperties)
This is single broker
[2013-09-02 01:55:48,365] INFO Fetching metadata from broker id:0,host:localhost,port:9092 with correlation id 6
for 1 topic(s) Set(kafkatopic) (kafka.client.ClientUtils)
[2013-09-02 01:55:48,453] INFO Connected to localhost:9092 for producing (kafka.producer.SyncProducer)
[2013-09-02 01:55:48,736] INFO Disconnecting from localhost:9092 (kafka.producer.SyncProducer)
[2013-09-02 01:55:49,011] INFO Connected to localhost.localdomain:9093 for producing (kafka.producer.SyncProducer)
Welcome to Kafka
This is another Test Message
█
```

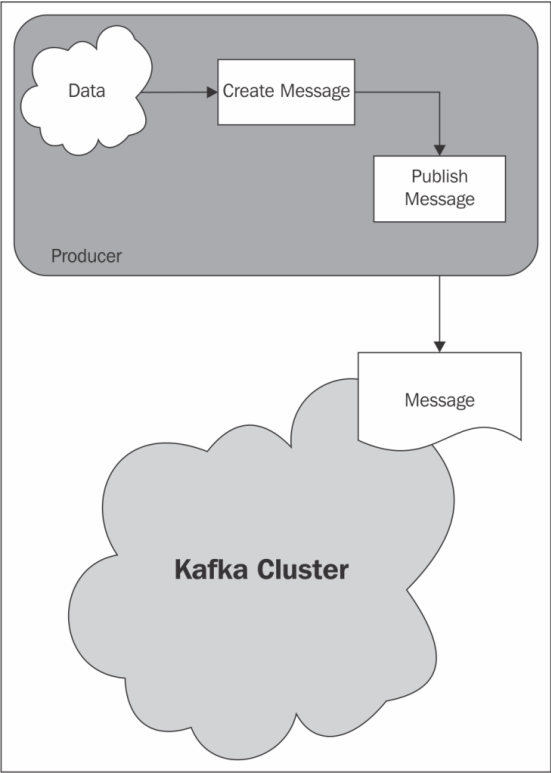


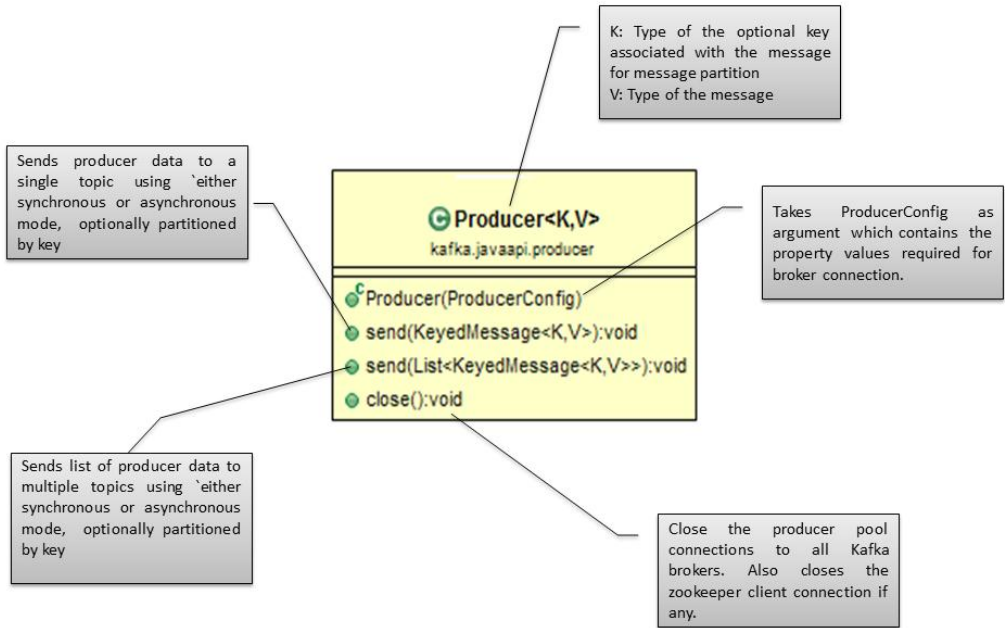




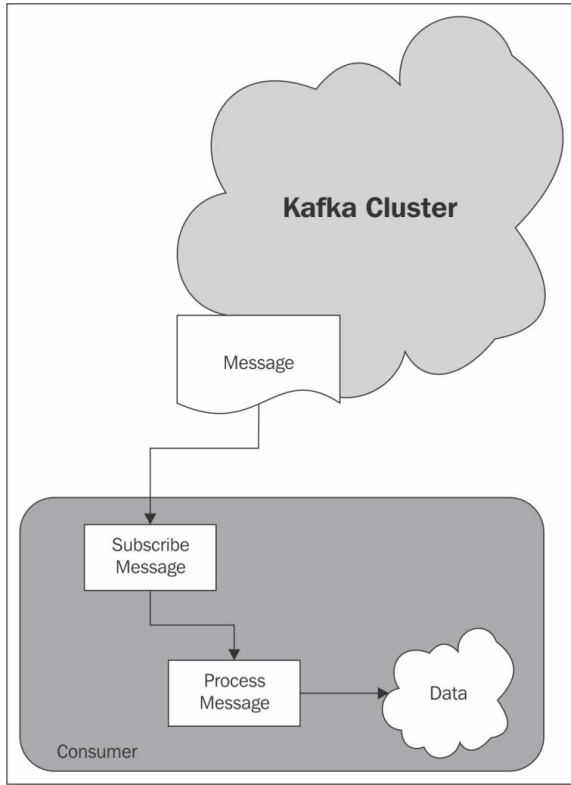


4 1



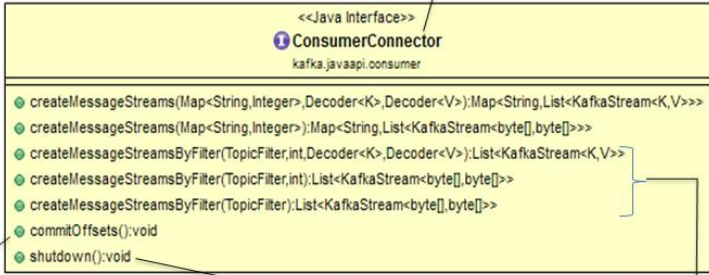


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createMessageStreams method create a list of message streams for each topic .

This is the main interface for Java based consumers.

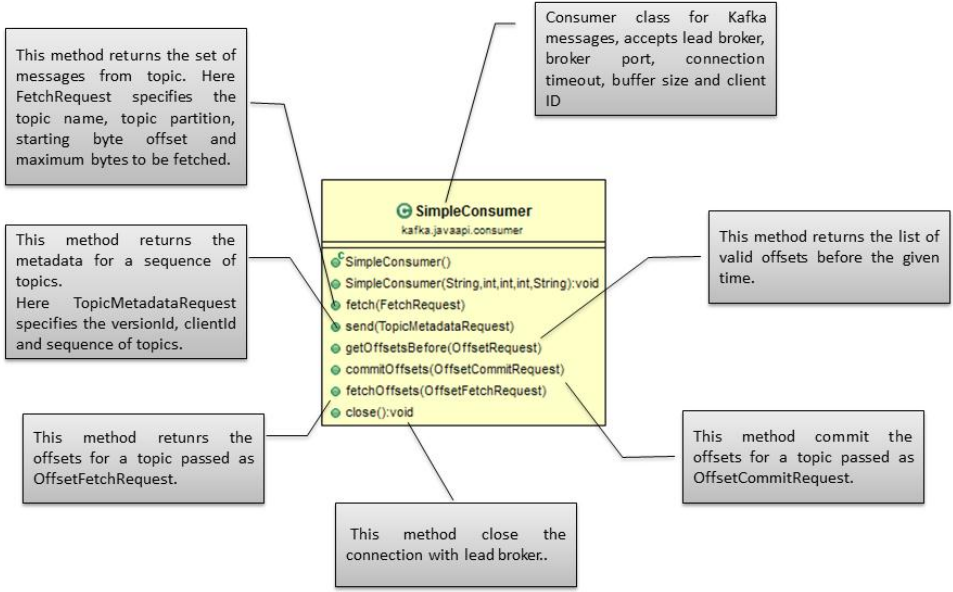


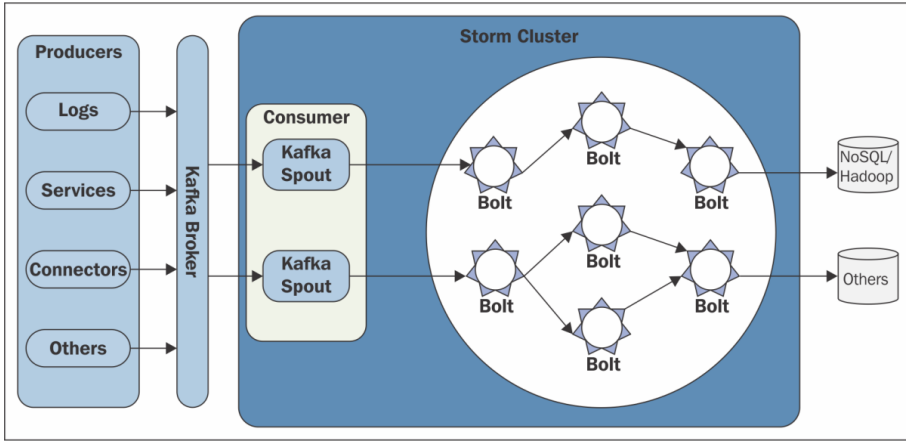
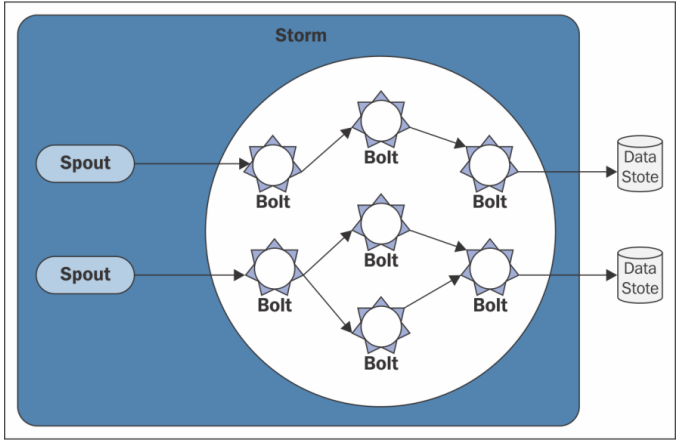
Commit the offsets of all broker partitions connected by this connector.

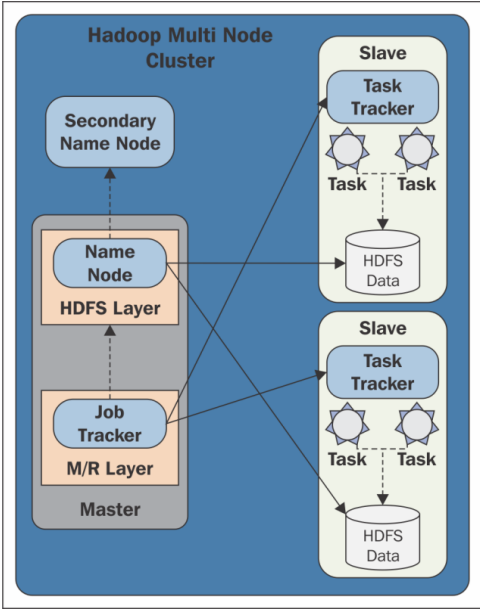
Shut down the connection of connector with ZooKeeper.

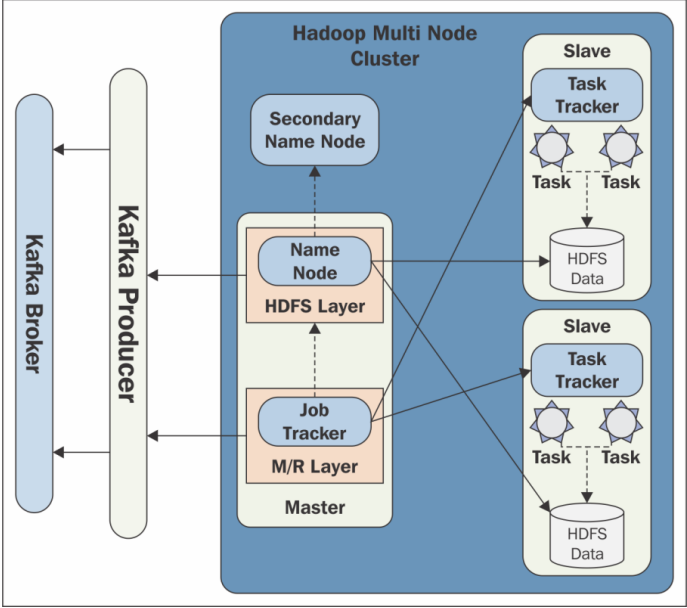
createMessageStreamsByFilter method Create a list of message streams for all topics that match a given filter.

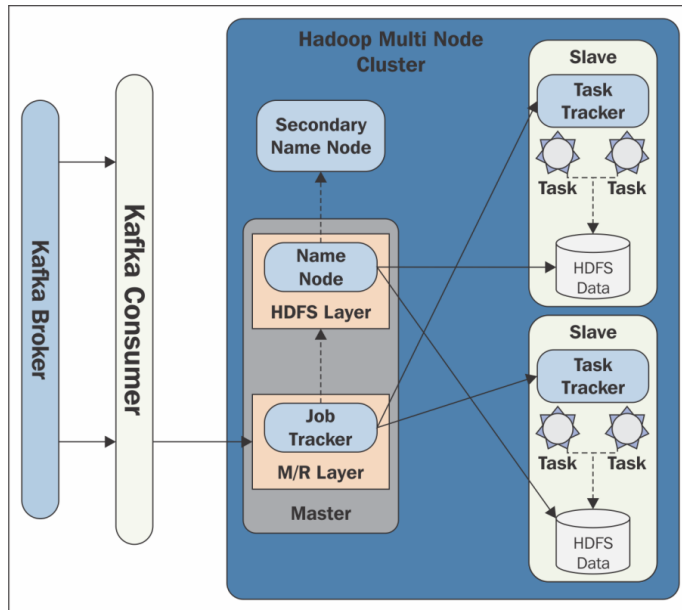
|











```

[2013-08-28 10:26:53,437] INFO Client environment:os.version=2.6.18-348.6.1.el5 (org.apache.zookeeper.ZooKeeper)
[2013-08-28 10:26:53,437] INFO Client environment:user.name=root (org.apache.zookeeper.ZooKeeper)
[2013-08-28 10:26:53,437] INFO Client environment:user.home=/root (org.apache.zookeeper.ZooKeeper)
[2013-08-28 10:26:53,437] INFO Client environment:user.dir=/opt/kafka-0.8_OLD (org.apache.zookeeper.ZooKeeper)
[2013-08-28 10:26:53,438] INFO Initiating client connection, connectString=localhost:2181 sessionTimeout=30000 watcher=org.I0Itec.zkclient.ZkClient@788ab708 (org.apache.zookeeper.ZooKeeper)
[2013-08-28 10:26:53,464] INFO Starting ZkClient event thread. (org.I0Itec.zkclient.ZkEventThread)
[2013-08-28 10:26:53,474] INFO Opening socket connection to server localhost/127.0.0.1:2181 (org.apache.zookeeper.ClientCnxn)
[2013-08-28 10:26:53,494] INFO Socket connection established to localhost/127.0.0.1:2181, initiating session (org.apache.zookeeper.ClientCnxn)
[2013-08-28 10:26:53,520] INFO Session establishment complete on server localhost/127.0.0.1:2181, sessionId = 0x140c5ef3917000b, negotiated timeout = 30000 (org.apache.zookeeper.ClientCnxn)
[2013-08-28 10:26:53,525] INFO zookeeper state changed (SyncConnected) (org.I0Itec.zkclient.ZkClient)
topic: kafkatopic partition: 0 leader: 1 replicas: 2,3,1 isr: 1,2
topic: kafkatopic partition: 1 leader: 1 replicas: 3,1,2 isr: 1,2
topic: othertopic partition: 0 leader: 2 replicas: 2,1 isr: 2,1
[2013-08-28 10:26:54,325] INFO Terminate ZkClient event thread. (org.I0Itec.zkclient.ZkEventThread)
[2013-08-28 10:26:54,341] INFO EventThread shut down (org.apache.zookeeper.ClientCnxn)
[2013-08-28 10:26:54,341] INFO Session: 0x140c5ef3917000b closed (org.apache.zookeeper.ZooKeeper)
[root@localhost kafka-0.8]#

```