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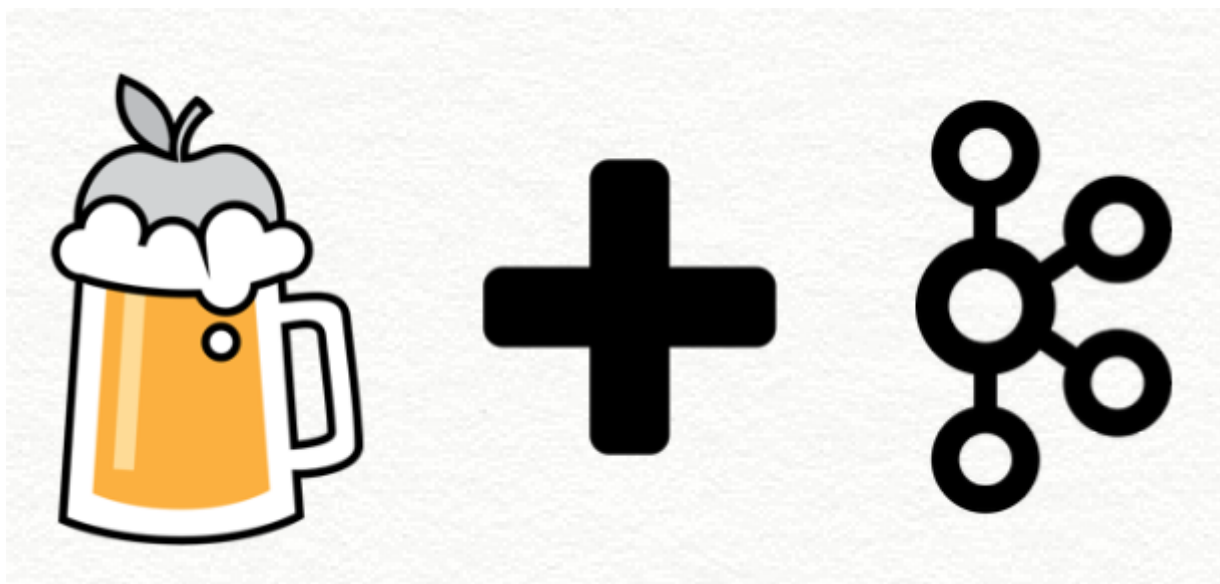
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Apache Kafka Installation on Mac using Homebrew



Ankit Thakur Aug 28, 2018 · 3 min read



Hi all,

I have started following the apache kafka documentation, but later thought to find the homebrew installer of Kafka. So to install Kafka on Mac using Homebrew:

```
$ brew cask install java  
$ brew install kafka
```

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```

==> Installing dependencies for kafka: zookeeper
==> Installing kafka dependency: zookeeper
==> Downloading https://homebrew.bintray.com/bottles/zookeeper-3.4.12.high\_sierra.bottle.tar.gz
#####
#### 100.0%
==> Pouring zookeeper-3.4.12.high_sierra.bottle.tar.gz
==> Caveats
To have launchd start zookeeper now and restart at login:
  brew services start zookeeper
Or, if you don't want/need a background service you can just run:
  zkServer start
==> Summary
🍺 /usr/local/Cellar/zookeeper/3.4.12: 242 files, 32.9MB
==> Installing kafka
==> Downloading https://homebrew.bintray.com/bottles/kafka-2.0.0.high\_sierra.bottle.tar.gz
#####
#### 100.0%
==> Pouring kafka-2.0.0.high_sierra.bottle.tar.gz
==> Caveats
To have launchd start kafka now and restart at login:
  brew services start kafka
Or, if you don't want/need a background service you can just run:
  zookeeper-server-start /usr/local/etc/kafka/zookeeper.properties &
  kafka-server-start /usr/local/etc/kafka/server.properties
==> Summary
🍺 /usr/local/Cellar/kafka/2.0.0: 160 files, 46.8MB
==> Caveats
==> zookeeper
To have launchd start zookeeper now and restart at login:
  brew services start zookeeper
Or, if you don't want/need a background service you can just run:
  zkServer start
==> kafka
To have launchd start kafka now and restart at login:
  brew services start kafka
Or, if you don't want/need a background service you can just run:
  zookeeper-server-start /usr/local/etc/kafka/zookeeper.properties &
  kafka-server-start /usr/local/etc/kafka/server.properties

```

Now start Zookeeper and Kafka:



```
$ zookeeper-server-start /usr/local/etc/kafka/zookeeper.properties
```

[illegible]

Logs of zookeeper server

Start Kafka server:

```
$ kafka-server-start /usr/local/etc/kafka/server.properties
```

```
INFO Registered kafka:type-kafka.Log4jController MBean (kafka.utils.Log4jControllerRegistration)
INFO starting (kafka.server.KafkaServer)
INFO Connecting to zookeeper on localhost:2181 (kafka.server.KafkaServer)
INFO [ZooKeeperClient] Initializing a new session to localhost:2181. (kafka.zookeeper.ZooKeeperClient)
INFO Client environment:zookeeper.version=3.4.13-2d7af4dbce255f7da7fa9bb4309b15a7487f03, built on 06/29/2018 00:39 GMT (org.apache.zookeeper.ZooKeeper)
INFO Client environment:host.name=c02qt2amgwp.corp.fairisaac.com (org.apache.zookeeper.ZooKeeper)
INFO Client environment:java.vendor=Oracle Corporation (org.apache.zookeeper.ZooKeeper)
INFO Client environment:java.home=/Library/Java/JavaVirtualMachines/jdk1.8.0_144.jdk/Contents/Home/jre (org.apache.zookeeper.ZooKeeper)
INFO Client
h=/usr/local/Cellar/kafka/2.0.0/libexec/bin/../libs/activation-1.1.1.jar:/usr/local/Cellar/kafka/2.0.0/libexec/bin/../libs/apollon-repackaged-2.5.0-b42.jar:/usr/local/Cellar/kafka/2.0.0/libexec/bin/../libs/arcpapi-1.1/bits/connect-basic-auto-extension-2.0.0.jar:/usr/local/Cellar/kafka/2.0.0/libexec/bin/../libs/connect-file-2.0.0.jar:/usr/local/Cellar/kafka/2.0.0/libexec/bin/../libs/connect-json-2.0.0.jar:/usr/local/Cellar/kafka/2.0.0/libexec/bin/../libs/hk2-locator-2.5.0-b42.jar:/usr/local/Cellar/kafka/2.0.0/libexec/bin/../libs/hk2-utils-2.5.0-b42.jar:/usr/local/Cellar/kafka/2.0.0/libexec/bin/../libs/jackson-annotations-2.9.6.jar:/
```

Kafka server logs on start

WARNING:

During server start, you might be facing connection broken issue.

```
[2018-08-28 16:24:41,166] WARN [Controller id=0, targetBrokerId=0]
Connection to node 0 could not be established. Broker may not be
available. (org.apache.kafka.clients.NetworkClient)
[2018-08-28 16:24:41,268] WARN [Controller id=0, targetBrokerId=0]
Connection to node 0 could not be established. Broker may not be
available. (org.apache.kafka.clients.NetworkClient)
```

To fix this issue, we need to change the `server.properties` file.

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Here uncomment the server settings and update the value from

```
listeners=PLAINTEXT://:9092
```

to

```
##### Socket Server Settings
#####

# The address the socket server listens on. It will get the value
# returned from
# java.net.InetAddress.getCanonicalHostName() if not configured.
#   FORMAT:
#   listeners = listener_name://host_name:port
#   EXAMPLE:
#   listeners = PLAINTEXT://your.host.name:9092
listeners=PLAINTEXT://localhost:9092
```

and restart the server and it will work great.

Create Kafka Topic:

A topic is a category or feed name to which records are published. Topics in Kafka are always multi-subscriber; that is, a topic can have zero, one, or many consumers that subscribe to the data written to it.

```
$ kafka-topics --create --zookeeper localhost:2181 --replication-factor 1 --partitions 1 --topic test
```

Here we have created a topic name test

Initialize Producer console:

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```
$ kafka-console-producer --broker-list localhost:9092 --topic test
>send first message
>send second message
>wow it is working
```

Initialize Consumer console:

Now we will initialize the Kafka consumer console, which will listen to bootstrap server localhost at port 9092 at topic test from beginning:

```
$ kafka-console-consumer --bootstrap-server localhost:9092 --topic
test --from-beginning

send first message
send second message
wow it is working
```

Congratulations everyone, hopefully it is helpful.

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