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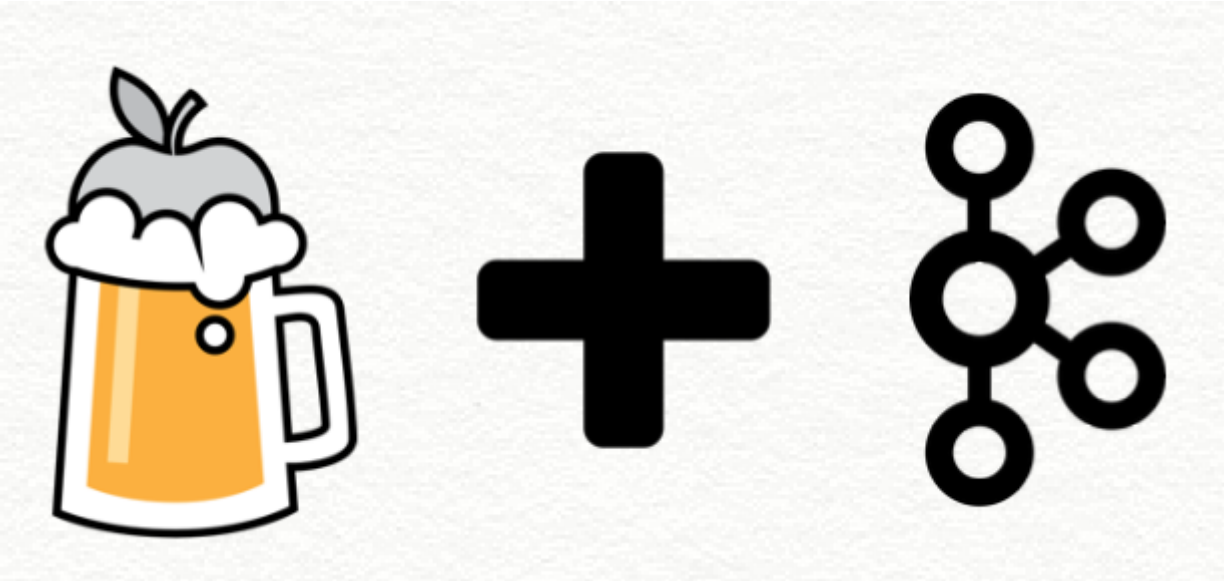
Apache Kafka Installation on Mac using Homebrew

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:

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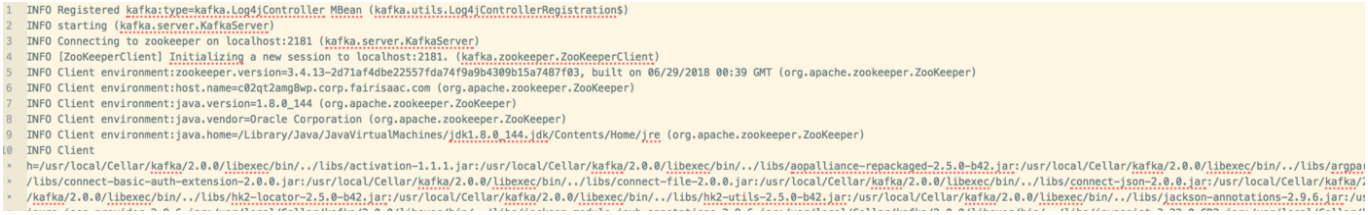
```
$ zookeeper-server-start /usr/local/etc/kafka/zookeeper.properties
```

Logs of zookeeper server

Start Kafka server:

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



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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